In The Matter Of:

Christopher S. Long v. Cleveland Clinic Foundation

> Mehmet C. Oz, M.D. May 16, 2002

BORAK REPORTING SERVICE 369 Lexington Avenue New York, NY USA 10017 (212) 681-9666 FAX: (212) 286-1853

> Original File MO05 1602.TXT, 184 Pages Min-U-Script® File ID: 1765911627

Word Index included with this Min-U-Script®

Christopher S. Long v. Cleveland Clinic Foundation

	Page .			Page 3
[11		[1]]	
2		[2]	}	
[3]		[3]]	
•••	CHRISTOPHER S. LONG, Executor of	[4	IT IS HEREBY STIPULATED AND	
[4]	the Estate of JAMES LONG,	15	AGREED by and between the attorneys for	
[5]	Plaintiff,	10	the respective parties bereto that the	
	Case No 419978		section and filing of the within	
[6]	- VS •			
[7]	CLEVELAND CLINIC FOUNDATION,	[8]	deposition be and the same hereby are,	
[e]	Defendant	[9]	waived, and that the transcript may be	
[9]		lo]	signed before any Notary Public with the	
[10]		11]	same force and effect as if signed before	
[11]	May 16,2002	2]	the Court.	
[12]	2:50 p.m	31	IT IS FURTHER STIPLILATED AND AGREED	
[13]			that all objections except as to the	
[14]	Videotaped deposition of MEHMET C OZ, MD, taken	(¹	form of the question shall be received	
[15]	by Plaintiff, pursuant to Notice and Agreement, at	51	form of the question, shall be reserved	
[16]	Columbia Presbyterian Medical Center, The Milstein	6]	to the time of trial.	
[17]	Building 177 Fori Washington Avenue, New York, New	7]		
[18]	York, before LindaD Noto, a Certified Shorthand	8]		
[19]	Reporter, Registered Professional Reporter and	91		
[20]	Notary Public of the States of New York and New	0]		
[21]	Jersey.	11		
[22]		21		
[23]		21		
[24]		31		
[25]		41		
	Page 2	51		
[1]				Page 4
[2]	Appearances	41		i ugo i
[3]		1 1		
	BECKER & MISHKIND CO, L P A	2]	THE VIDEO OPERATOR: We are on	
141	Attorneys for Plaintiff	3]	the record.	
	Skylight Office Tower	[4]	Today's date is May 16,2002.	
[5]	1660 West Second Street, Suite 660	151	This is the case of Christopher S	
	Cleveland, Unio 441 13	101	Long vorsus Cloveland Clinic	
[6]		[0]		
(-71	BY JEANNE MITOSTI, ESQ	[7]	This is the deposition of Mehmet	
1/1		[8]	<i>0a.</i>	
(01	VIA TELECONFERENCE	[9]	Will counsel please identify	
[0]	ROFTZEL& ANDRESS PA	101	themselves.	
[9]	Attomevs for Defendant		MB IACKSON: You need to	
[10]	1375 East Ninth Street	[11]		
	One ClevelandCenter, 10th Floor	12]	identify yourself, Jeanne?	
[11]	Cleveland. Ohio 44114	13]	MS. TOSTI: This is counsel for	
121	BY JOHNV JACKSON, ESQ.	14]	plaintiff, Jeanne Tosti.	
131		151	MR. JACKSON: I'm John Jackson	
14]	ALSO PRESENT	61	for the Cleveland Clinic	
[15]	DEV WRITE, VIDEOGRAPHER		MEUMET C O 7 MD having	
	Borak Reporting	111	MERIMET C. OZ, M.D., having	
16]		8]	been first duly sworn by a Notary Public	
[17]		9]	of the State of NewYork, (Linda D.	
18]		10!	Noto), according to law, was examined and	
191		211	testified as follows:	
20]		101		
.4 1] [22]				
23]		[:3]	BY MS. IOSTI:	
24]		:4]	Q: Let the record reflect that this	
		1		

¥

	Page 5		Page 7
[1]	Oz	[1] OZ	
[2]	has been identified as an expert on behalf of	[2] MS. TOSTI: Okay. I would like	
[3]	defendant, Cleveland Clinic, in this action,	[3] for the court reporter to please mark	
[4]	and the deposition is being taken by	[4] the various items in his file.	
[5]	plaintiff'scounsel, Jeanne Tosti, pursuant to	Q: And then, Doctor, I'm going to	
[6]	Ohio Rules of Civil Procedure via telephone.	[6] ask you just to identify what is contained in	
[7]	Plaintiff's counsel is in	your file, and use the exhibit number that the	
[8]	Cleveland and the witness was sworn and we'll	[8] court reporter places on those various items.	
[9]	have this deposition transcribed and videotaped	(Whereupon, Two-page letter	
[10]	by a state of NewYork court reporter present	10] written to Mr.Jackson summarizing the	
[11]	with the witness in New York City.	11 views of Dr. Oz of this case dated	
[12]	Okay, Doctor, would you please	121 November 19,1999 , was marked as	
[13]	state your full name for us?	⁽³⁾ Plaintiff's Exhibit 1 for	
[14]	A Mehmet C.Oz.	identification. as of this date.)	
(15)	0: And what is your business	(Whereupon, Portions of the	
[16]	address?	16) chart from the admission of James Long	
[17]	A: 177 Fort Washington Avenue, New	17 from 8/20/96 to 9/13/96, was marked as	
[18]	York, NewYork, 10032.	⁽⁸⁾ Plaintiff's Exhibit 2 for	
[19]	Q: Have you had your deposition	ignidentification.as of this date.)	
[20]	taken before?	(Whereupon, Deposition of	
[21]	A: I have.	21) Jeffrey Vender, was marked as	
[22]	Q: How many times?	22) Plaintiff's Exhibit 3 for	
[23]	A: Probably half a dozen times.	identification, as of this date.)	
[24]	Q : I'm sure defense counsel has had	[24] (Whereupon, Large packet	
	an opportunity to speak with you I'm going to		
25	an opportunity to speak with you. I mgoing to	25] containing depositions from a variety	
[25]	Page 6	²⁵ containing depositions from a variety	Page 8
[25]	Page 6	²⁵ containing depositions from a variety	Page 8
[25]	Page 6 <i>Oz</i> so over some of the ground rules	[1] OZ [1] OZ	Page 8
[25] [1] [2]	Page 6 Oz go over some of the ground rules. This is a question and answer	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove. Dr. Muchlebach. 	Page 8
[25] [1] [2] [3]	Page 6 Oz go over some of the ground rules. This is a question and answer session. It's under oath. It's important that	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the 	Page 8
[25] [1] [2] [3] [4]	Page 6 <i>Oz</i> go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's 	Page 8
[1] [2] [3] [4] [5] [6]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you.	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification as of 	Page 8
[25] [1] [2] [3] [4] [5] [6]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them,	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) 	Page 8
[25] [1] [2] [3] [4] [5] [6] [7] [8]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me. I'll be happy to repeat them or	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case 	Page 8
[1] [2] [3] [4] [6] [6] [7] [8] [9] [10] [11]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer.	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [22] Exhibit 2 is portions of the 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony.	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to 10] Mr. Jackson summarizing my view of this case 11] dated November 19,1999. 12] Exhibit 2 is portions of the 13] chart from admission of this patient from [4] 8/20/96 to 9/13/96. [5] Q: And those would be the Cleveland 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to 10] Mr. Jackson summarizing my view of this case 11] dated November 19,1999. 12] Exhibit 2 is portions of the 13] chart from admission of this patient from 14] 8/20/96 to 9/13/96. [5] Q: And those would be the Cleveland [5] Clinic records? 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question,	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they 	Page 8
 [13] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits - Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Sclinic records? [17] A: Abstracted records and that they [18] are Xeroxed - Xeroxes of part of the chart. 	Page 8
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so.	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr.Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of 	Page 8
[13] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so. Do you have any questions	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [9] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of [20] Jeffrey Vender. 	Page 8
 [13] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so. Do you have any questions regarding those instructions?	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr.Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of [20] Jeffrey Vender. [21] And item No. 4 is a large packet 	Page 8
(1) (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (10) (11) (12) (13) (14) (15) (14) (15) (14) (15) (14) (15) (14) (15) (12) (11) (12) (12) (13) (13) (13) (13) (13) (13) (13) (13	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'masking you. If you don'tunderstand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'mgoing to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so. Do you have any questions regarding those instructions? A: No, it's very clear.	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muchlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] SI Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of [20] Jeffrey Vender. [21] And item No. 4 is a large packet [22] of depositions from a variety of different 	Page 8
(1) (1) (2) (3) (4) (5) (6) (7) (8) (7) (10) (11) (12) (13) (14) (14) (15) (14) (15) (16) (11) (12) (13) (12) (13) (13) (13) (13) (13) (13) (14) (15)	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so. Do you have any questions regarding those instructions? A: No, it's very clear. Q: Okay, Doctor, did you bring your	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muehlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of [20] Jeffrey Vender. [21] And item No. 4 is a large packet [22] of depositions from a variety of different [23] individuals including Dr. Cosgrove, 	Page 8
[13] [2] [3] [4] [5] [6] [7] [8] [7] [10] [11] [12] [13] [14] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24]	Page 6 Oz go over some of the ground rules. This is a question and answer session, It's under oath. It's important that you understand the questions that I'm asking you. If you don't understand them, please ask me, I'll be happy to repeat them or to rephrase them, otherwise I'm going to assume you understood my question and you're able to answer. It's important that you give all of your answers verbally so the stenographer can take down your testimony. Also at some point defense counsel may choose to enter an objection. You are still required to answer my question, unless defense counsel feels he has a basis to tell you not to do so. Do you have any questions regarding those instructions? A: No, it's very clear. Q: Okay, Doctor, did you bring your file with you today?	 [1] OZ [2] of different individuals including [3] Dr. Cosgrove, Dr. Muehlebach, [4] Dr. Hernandez and several of the [5] nurses, was marked as Plaintiff's [6] Exhibit 4 for identification, as of [7] this date.) [8] A: These four exhibits — Exhibit [9] No. 1 is my two-page letter written to [10] Mr. Jackson summarizing my view of this case [11] dated November 19,1999. [12] Exhibit 2 is portions of the [13] chart from admission of this patient from [14] 8/20/96 to 9/13/96. [15] Q: And those would be the Cleveland [16] Clinic records? [17] A: Abstracted records and that they [18] are Xeroxed — Xeroxes of part of the chart. [19] Item No. 3 is the deposition of [20] Jeffrey Vender. [21] And item No. 4 is a large packet [22] of depositions from a variety of different [23] individuals including Dr. Cosgrove, [24] Dr. Muehlebach, Dr. Hernandez and several of 	Page 8

I

	Page 9			Page 11
[1]	Oz	[11	OZ	
[2]	Q: Could you identify what nursing	[2]	BY MS. TOSTI:	
[3]	depositions you have?	[3]	Q: Doctor, how many items have been	
[4]	A: Yes. Denise Hrobat,	[4]	removed from your files?	
[5]	H-R-O-B-A-T, Angelique Young and Catherine	151	MR. JACKSON: I will tell you.	
[6]	Zilka.	[6]	There are one, two, three, four, five,	
[7]	Q: And in regard to the physicians,	[7]	six letters.	
[8]	beside Dr. Cosgrove and Dr. Muehlebach, are	[8]	BY MS. TOSTI:	
[9]	there any other physician's depo contained in	[9]	0: And aside from the materials	
[10]	that packet?	101	that Mr. Jackson has identified, has anything	
(11]	A: There are. Dr. Hernandez,	113	else been removed from vour Ne?	
[12]	Dr. Hearn and Dr. Koch, K-O-C-H.	121	MR. JACKSON: I didn't remove	
[13]	Q: And that was marked as Exhibit	131	anything else.	
[14]	No. 4: is that correct?	141	A : No I have not removed anything	
[15]	A: It is.	51	from the fie at all.	
[1 A]	O: And I believe there is number	6]	Ω : And is there anything that you	
(17)	Exhibit No. 5?	71	didn't bring with you today that you reviewed	
(18)	A: No.	181	and considered in connection with this case?	
[19]	MR. JACKSON: No.	101	MR. JACKSON: I will tell you.	
[20]	O: Just four exhibits?	201	Jeanne, there are a couple of	
[21]	A: Yes.	211	depositions which I know were sent to	
(22)	Q: Now, Doctor, the items that have	121	the Doctor chat I don't see here.	
[23]	been marked Exhibits 1 through 4 , is that your	,; ,;	He did review the deposition of	
[24]	entire file on this case?	.0j 941	Dr. Minore, and I believe that's it.	
[25]	MR. JACKSON: Jeanne, I removed	251	I don't see Dr. Minore's	
<u>()</u>	Page 10			Dogo 12
(1)	Oz	E11	07	Tage 12
(0)	the correspondence that I had with the		deposition here	
[2] [2]	Doctor	[2]	L'mtalking about Dr Steven	
[0] (4)	Since it's your position that	[3]	Minore your other expert	
(4) (5)	this is work product and privileged	[4]	I believe Dr V C Smith's	
[0] (6)	information I have removed that	[5]	denosition was mentioned. If it	
[0] [7]	F you tall me otherwise then	[0]	wasn't that was also provided to the	
[/] ro1	that's not your position then we can	[7]	Doctor	
(0) (0)	agree to exchange that with you in	[0]	Δ. Those two depositions were given	
101	return for you doing that for us	[9]	to me together and for whatever reason I don't	
(11)	MS. TOSTI: I don't think it	41 1	have them	
[12]	matters what my position is I think	ני וכ	I know I had them at your	
[13]	it matters what your position is	31	initially scheduled deposition	
[14]	Is it your position that is	41	O: Okay. There are two nursing	
[15]	attorney work product and you removed	4) 51	experts that have been identified in this case	
[16]	it on the basis of attorney work	0] 0]	MB. JACKSON: He has not	
[17]	product?	6) 71	reviewed the nursing experts'	
[18]	MR. JACKSON: I just said why I	ر ، 81	depositions.	
[19]	removed it, I removed it because it	91	MS. TOSTI: Okav.	
[20]	has been your position in these	101	Q: Have you provided any bills to	
[21]	matters that it is attorney work	.0] [11	Mr. Jackson for the work that you've done on	
[22]	product.	21	this case, Doctor?	
[23]	MS.TOSTI: I'masking what your	:31	A: I have.	
[24]	position is.	141	Q: And are those contained in your	
[25]	MR. JACKSON: I just told you.	:5]	fie?	

	Page 13		Page 15
[1]	Oľ	[1] Or	
[2]	A: They are not.	[2] A: That's correct.	
[3]	Q: Can you tell me how many hours	[3] Q: And in the one case that you	
[4]	you have put into this case to date?	[4] consulted for on behalf of plaintiffs, did you	
[5]	A: I can find that out, but I do	[5] find that there was substandard care?	
[6]	not know that off the top of my head.	[6] A: I believe so at the time, which	
[7]	Q: You said something that you	[7] is why I agreed to participate in the case.	
[8]	would be able to produce to Mr. Jackson and	[8] Q: What was the subject matter of	
[9]	provide to me?	[9] that case?	
[10]	A: Very easily.	10] A: This was a case of a patient	
[11]	MS. TOSTI: Okay, I'm going to	11] whose care had been delayed for a variety of	
[12]	make a request for any billings that	12] reasons and she ended up suffering a	
[13]	the Doctor has made on this case.	13] catastrophic rupture of an aneurism for that	
[14]	Q: Doctor, I'd like to talk to you	14] case.	
[15]	a little bit about your experience in medical	Q: What kind of aneurism was it?	
[16]	legal matters.	16] Aortic aneurism?	
[17]	Have you served as an expert in	A: It was an aortic aneurism.	
[18]	other cases beside this one?	[18] Q: Doctor, you said that you had	
[19]	A: I have.	19] your deposition taken twice as an expert; is	
[20]	Q: And when is the first time you	201 that correct?	
[21]	first offered your services as an expert in a	21] A: That's correct.	
[22]	medical legal matter?	22] Q: Have you ever testified at	
[23]	A: You know, I – I can remember	23] trial?	
[24]	the case, I don't know what year it was.	A: I testified in one case for the	
[25]	Q: Can you tell me approximately?	25] defense at trial.	
	Page 14		Page 16
[1]	Page 14	[1] Oz	Page 16
[1] [2]	Page 14 <i>O</i> r A 1999.	 [1] Oz [2] Q: And what was the subject matter 	Page 16
[1] [2] [3]	Page 14 Or A 1999. Q: And how many medical legal	 [1] Oz [2] Q: And what was the subject matter [3] of that case? 	Page 16
[1] [2] [3] [4]	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on?	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a 	Page 16
[1] [2] [3] [4]	Page 14 <i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A : That I've been deposed on or	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old 	Page 16
[1] [2] [3] [4] [5] [6]	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on?	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home 	Page 16
[1] [2] [3] [4] [5] [6] [7]	Page 14 <i>O</i> ? A 1999. Q: And how many medical legal matters have you consulted on? A : That I've been deposed on or just consulted on? Q: Let's start with consulted on. A : D = b + b + b + b + b = b	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which 	Page 16
[1] [2] [4] [5] [6] [7] [8]	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen.	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of 	Page 16
[1] [2] [4] [5] [6] [7] [8] [9]	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert?	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That L one many have	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. [11] Q: And how did that case resolve? 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently.	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently bare in your procession that you're computing.	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, O: It want to trial and there was a 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on recently and the start of the star	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 15] verdict that was a defense verdict? 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay.And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. O: And in regard to the medical	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 15] verdict that was a defense verdict? 16] A: That is correct. 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical have a matters on which you're been consulted	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an [10] injury to the femoral artery or vein. [11] Q: And how did that case resolve? [12] A: It resolved to the benefit of [13] the defense, [14] Q: It went to trial and there was a [15] verdict that was a defense verdict? [16] A: That is correct. [17] Q: Have you ever acted as an expert 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	<i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A: That I'vebeen deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 15] verdict that was a defense verdict? 16] A: That is correct. 17] Q: Have you ever acted as an expert 18] in a case involving issues of surgeries that 19] were minimally invasive? 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [19] 	<i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A : That I've been deposed on or just consulted on? Q: Let's start with consulted on. A : Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A : Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A : This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant?	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 15] verdict that was a defense verdict? 16] A: That is correct. 17] Q: Have you ever acted as an expert 18] in a case involving issues of surgeries that 19] were minimally invasive? 20] A: Not that L can remember 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	<i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant? A: There was one plaintiff's case	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an [10] injury to the femoral artery or vein. [11] Q: And how did that case resolve? [12] A: It resolved to the benefit of [13] the defense, [14] Q: It went to trial and there was a [15] verdict that was a defense verdict? [16] A: That is correct. [17] Q: Have you ever acted as an expert [18] in a case involving issues of surgeries that [19] were minimally invasive? [20] A: Not that I can remember. 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	<i>OT</i> A 1999. Q: And how many medical legal matters have you consulted on? A: That I'vebeen deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant? A: There was one plaintiff's case and the rest have been defense cases	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an [10] injury to the femoral artery or vein. [11] Q: And how did that case resolve? [12] A: It resolved to the benefit of [13] the defense, [14] Q: It went to trial and there was a [15] verdict that was a defense verdict? [16] A: That is correct. [17] Q: Have you ever acted as an expert [18] in a case involving issues of surgeries that [19] were minimally invasive? [20] A: Not that I can remember. [21] I had been asked to review cases [22] that were done in unorthodox fashions but not 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21] [22] [22] 	<i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant? A: There was one plaintiff's case and the rest have been defense cases. Q: Okay. so approximately five	 Dz Q: And what was the subject matter of that case? A: This was a patient who had had a successful heart operation, a 96-year-old gentleman, who several days after going home developed a cold and edematous right leg which was argued to be due to the negligence of physicians taking care the patient to notice an injury to the femoral artery or vein. A: It resolved to the benefit of the defense, Q: It went to trial and there was a verdict that was a defense verdict? A: That is correct. Q: Have you ever acted as an expert in a case involving issues of surgeries that were minimally invasive? A: Not that I can remember. I had been asked to review cases that were done in unorthodox fashions, but not 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	Page 14 Or A 1999. Q: And how many medical legal matters have you consulted on? A: That I've been deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay.And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant? A: There was one plaintiff's case and the rest have been defense cases. Q: Okay, so approximately five defense cases? I thirk you told me you've	 Dz Q: And what was the subject matter of that case? A: This was a patient who had had a successful heart operation, a 96-year-old gentleman, who several days after going home developed a cold and edematous right leg which was argued to be due to the negligence of physicians taking care the patient to notice an injury to the femoral artery or vein. Q: And how did that case resolve? A: It resolved to the benefit of the defense, Q: It went to trial and there was a verdict that was a defense verdict? A: That is correct. Q: Have you ever acted as an expert in a case involving issues of surgeries that were minimally invasive? A: Not that I can remember. I had been asked to review cases that were done in unorthodox fashions, but not ones I would consider minimally invasive. 	Page 16
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] 	<i>Or</i> A 1999. Q: And how many medical legal matters have you consulted on? A: That I'vebeen deposed on or just consulted on? Q: Let's start with consulted on. A: Probably half a dozen. Q: Okay. And how many have you had depositions taken as an expert? A: Two. That I can remember. Q: How many files do you currently have in your possession that you're consulting on regarding a medical legal matter? A: This is the only case. Q: And in regard to the medical legal matters on which you've been consulted, what proportion have been for plaintiff and what proportion have been for defendant? A: There was one plaintiff's case and the rest have been defense cases. Q: Okay, so approximately five defense cases? I thirk you told me you've consulted approximately six times on cases?	 [1] Oz [2] Q: And what was the subject matter [3] of that case? [4] A: This was a patient who had had a [5] successful heart operation, a 96-year-old [6] gentleman, who several days after going home [7] developed a cold and edematous right leg which [8] was argued to be due to the negligence of [9] physicians taking care the patient to notice an 10] injury to the femoral artery or vein. 11] Q: And how did that case resolve? 12] A: It resolved to the benefit of 13] the defense, 14] Q: It went to trial and there was a 15] verdict that was a defense verdict? 16] A: That is correct. 17] Q: Have you ever acted as an expert 18] in a case involving issues of surgeries that 19] were minimally invasive? 20] A: Not that I can remember. 21] I had been asked to review cases 22] that were done in unorthodox fashions, but not 23] ones I would consider minimally invasive. 24] Q: Okay, any cases that you have 25] been asked to consult on for medical legal 	Page 16

ſ

 $r^{(2)}_{(2)}$

	Page 17			Page 19
[1]	02	[1]	Oz	Tage 15
[2]	purposes that involved issues of cardiac	(2)	hour.	
[3]	tamponade?	(-) (3)	O: Do you know when the trial in	
[4]	A: Not as an expert witness, no.	[3] [4]	this matter is scheduled?	
(5) (5)	O: Were you ever involved in a case	161	A: I do not, ma'am.	
[0]	involving cardiac tamponade other than being an	[5]	O. And I take it then you haven't	
[7]	expert witness?	[0]	been asked to come to Cleveland to testify as	
(0)	MR. JACKSON: Are you asking him	101	vet?	
[8]	in his care of nationts?	[0]	A. Lhave not	
(10) [a]	MS TOSTI: In any capacity	[9]	A. Thave not.	
[10]	0: Were you involved in any type of		Q. Other than this case, have you	
[11]	Q. were you involved in any type of	1]	We look on on one of the low fund	
[12]	civil matters that involved the issues of	2]	MI. Jackson of anyone from his faw fvin?	
[13]		3]	A: Thave not.	
[14]	MR. JACKSON: Are you talking	4]	Q: Do you know how it is that you	
[15]	about lawsuits or are you talking	5]	came to be contacted in regard to this case?	
[16]	about in his care of patients, Jeanne,	6]	A: I don't know specifically why in	
[17]	that's what I was asking?	7]	this case, but I had been contacted by law	
[18]	MS. IOSII: We were talking	8]	firms around country for a variety of different	
[19]	about — let's say lawsuits.	19]	types of cases, including cases that involve	
[20]	MR, JACKSON: Okay.	<u></u> ?0]	bleeding. This is an area that I have some	
[21]	Q : Have you been involved in any	21]	expertise in.	
[22]	lawsuits involving issues of cardiac tamponade	22]	Q: When were you fyst contacted on	
[23]	in which you did not serve as an expert?	23]	this case?	
[24]	A: I have personally not been	24]	A: I do not recall the exact date.	
[25]	involved in such a lawsuit, but there have been	251	My letter was dated 1999, and I suspect that I	
	Page 18			Page 20
[1]	Oz	[1]	Oz	
[2]	lawsuits at this institution on that topic that	[2]	was probably contacted in the mid to latter	
[3]	I have become involved with due my role as	[3]	portion of that year for the first time.	
[4]	director of the heart institute.	[4]	Q: Do you recall who contacted you?	
[5]	Q: Were you deposed? Did you	[5]	A: I believe it was Mr.Jackson.	
[6]	testify at trial in any of those cases?	[6]	Q: Have you ever been named as a	
[7]	A: I did not.	[7]	defendant in a medical negligence case?	
[8]	Q: Doctor, what is your charge for	[8]	A: I have.	
[9]	consultation an legal matters?	[9]	Q: How many times?	
[10]	A: It's generally a thousand	0]	A: Well, there was about – I would	
[11]	dollars per hour.	1]	say, again, about a half a dozen times.	
[12]	Q: And deposition testimony?	2]	I've never gone to trial on a	
[13]	A: I believe I keep to that fee.	3]	case that I was named in, so I don't actually	
[14]	Frankly, I don't keep close track of that	4]	remember the exact number.	
[15]	either.	5]	Q: Any of the times that you were	
[16]	There's a fee schedule that I	6]	named as a defendant, were they ever resolved	
[17]	made up several years ago. I am asked	7]	through settlement or through jury verdict?	
[18]	frequently to get involved in cases and I	8]	A: No, they were not.	
[19]	generally do not desire to participate.	9]	Q: Are any of those cases currently	
[20]	So I arbitrarily picked a fee	20]	pending?	
[21]	schedule. I believe the thousand dollar figure	21]	A: There are currently pending	
[22]	is correct.	2]	cases, yes.	
[23]	Q: And what is your charge for	:3]	Q: How many?	
[24]	trial testimony?	24]	A: I believe I have one case	
[25]	A: The same, a thousand dollars per	251	pending. It was supposed to be dismissed, but	

[1]Oz[1]OZ121 the defense lawyer withdraw from the case at [3] the — at the court appearance which was[2]Q: Did any of those cases involve [3] cardiac tamponade?(a) the warposed to result in the dismissed of the (b) and the dismissed of the (c) and the dismissed of the dismissed of the (c) and the dismissed of the dismission of the di	
121 the defense lawyer withdraw from the case at[2]Q: Did any of those cases involve(3) the — at the court appearance which was[3] cardiac tamponade?(4) supposed to result in the dismissed of the[4] N = 641	
[3] the - at the court appearance which was [3] cardiac tamponade?	
the supposed to result in the dismissed of the	
$[4]$ suppose to result in the distinstation the $\begin{bmatrix} 4 \end{bmatrix}$ A: None of those cases involved	
^[5] case, so they were given 90 more days I guess ^[5] cardiac tamponade.	
[6] by the judge to find a new defense attorney. Q: Since there are only six of	
[7] I believe that's the only case [7] them, can you tell me what the allegation v	was
[8] that I have outstanding. [8] of negligence in those cases?	
[9] MR. JACKSON: Probably mean the [9] A: I was not prepared to discuss	
[10] plaintiff's lawyer.	
THE WITNESS: I'm sorry, the description. I don't have this	
^[12] plaintiff's lawyer withdraw from the	be
^[13] case and it left the wife of the	
[14] diseased without an attorney, so the	
15 judge allowed her some period of time Many of these cases were	
(i) to find someone new.	nat
0: What was the allegation of	Iut
[18] negligence in that case?	
A: Doesn't seem to be a clear one and the clear one and the clear one and the clear one and the clear one and the clear one and the clear one and the clear one and the clear one and the 	
with me. I'm the director of the heart	ng to
is several institute at this institution. There was	5 10
another institution where the malpractice	l so
¹²¹ allegedlyoccurred. The patient was being	
(24) transferred to this hospital and somehow my	this
¹²⁵ name came up and so I was included.	
Page 22	Page 24
[¹] Oz [1] Oz	
[2] One of these half dozen cases I [2] So I don't recall again	
[3] was sued in, I never even met the patient. [3] specifically what the claim was against me.	,
[4] So my connections to, in [4] I'd have to review those charts.	
^[5] general, these cases has been fairly difficult [5] Q: Have you ever had your hospital	
[6] for me to tease out. [6] privileges called into question, suspended of	or
[7] Q: I didn't quite hear what you [7] revoked?	
[8] said. [8] A: I have not.	
[9] You mentioned there were six [9] Q : Doctor, do you happen to have a	
[10] cases and you said that in these half a dozen of copy of your curriculum vitae with you?	
[11] cases you did not have direct care 1] A: I have it, yes.	
[12] responsibility; is that correct?2]Q: I was provided a copy of your	
[13] A: In one of the patients — in one 3] curriculum vitae by defense counsel, and I'	m
[14] of the cases which has subsequently been 4] wondering if it's current, up to date, any	
[15] dismissed, I had never met the patient. 5] additions you would like to make to it?	
[16] Q: Now in regard to the other five MR. JACKSON: What's the one you	
[17] or so, did you have direct care 7] have, Jeanne, updated as of when?	
[18] responsibilities for the patient? MS. TOSTI: December 7th of '99.	
[19] A: I was involved in their care, [9] MR. JACKSON: This one that the	
(20) although not necessarily the primary caretaker	
[21] for them. [21] is updated as of March 29th, 2002.	
[21] for them.[11] is updated as of March 29th, 2002.[22] Q : Did any of those cases involve[12] It's typed on the top.	
[21] for them.[11] is updated as of March 29th, 2002.[22] Q: Did any of those cases involve[23] postoperative bleeding complications?[23] postoperative bleeding complications?[23] MS. TOSTI: Okay.	
[21] for them.[1] is updated as of March 29th, 2002.[22] Q : Did any of those cases involve[2] It's typed on the top.[23] postoperative bleeding complications?[3] MS.TOSTI: Okay.[24] A : None of them involved[4] Jack, could I ask that you	

			lvid y	10, 200
	Page	25		Page 27
[1]	Oz	[1] 02	-
[2]	MR. JACKSON: Sure.	[2] relevant.	
[3]	Q: And then I would just ask,	r	0: Doctor, would you tell me what	
[4]	Doctor, in regard to your updated curriculum		a areas of medicine you are Board certified in?	
(5)	vitae, are there any additions or corrections		\mathbf{A} . I'm Board certified in general	
[6]	that you'd like to make to it?	1	s surgery and in cardiothoracic surgery	
171	MR JACKSON: You mean to this		$\pi = 0$; And when did you receive those	
(4) (8)	one?		y two contifications?	
101	MS TOSTI: Ves the one that	14	b) two certifications?	
[a]	No. 10511. Tes, the one that	[1	\mathbf{A} : My certificate by the American	
[10]	you have.	[10	Board of Surgery was 1992, and by the American	
[11]	A. This looks up to date as much as r_{acc}	[1	Board of Thoracic Surgery was 1994.	
[12]	possible. So $-$ so this is file.	[1:	Q: And did you pass both of those	
[13]	Q: Okay. Doctor, you have quite a	[1:	ertifications on your first attempt?	
[14]	few articles on your curriculum vitae, the	[14	a I did.	
[15]	older one I have, I'm sure on the one that you	[18	Q: Has your medical license ever	
[16]	have.	[10	been suspended or revoked or called into	
[17]	As you sit here today, are there	[1]	n question?	
[18]	any particular articles that you feel have	[18	a A: It has not.	
[19]	particular significance to the issues in this	[19	g Q: Where do you have hospital	
[20]	case?	[20	n privileges?	
[21]	A: So if I understand correctly,	[2-	A: I have hospital privileges at	
[22]	you're asking which of the articles in my	[22	g Columbia Presbyterian Medical Center. I have	
[23]	curriculum vitae are relevant to this case?	[23	b) hospital privileges at St. Michael's Medical	
[24]	Q: No, I'm asking if there are any	[24	Genter in Newark.	
[25]	that you feel have particular significance, as	[28	Q: And have your hospital	
	Page	26		Page 28
[1]	Oz	[1] Oz	1 490 20
[2]	you sit here today, to the issues as you	12	n privileges ever been suspended, revoked or	
[3]	understand them in this case?	rs I	a called into question?	
[4]	A: I do believe some of them are		\mathbf{A} They have not	
151	significant and I believe are directly		\mathbf{a} \mathbf{a} . At any time have you had a	
[6]	pertinent to this case	[t	professional relationship with the Cleveland	
[0]	They're articles I've written on		Clinic?	
[7]	minimally invasive heart surgery There's a	1/	A: We have not	
[0]	book that Ledited on that tonic	[2	A. We have not.	
[9]	O: Doctor are they identified by a	[9]	y Q. Have you ever uone any training	
[10]	a. Doctor, are they identified by a	[10	At the Cleveland Chinc?	
[[1]]	A: They are An example of an	[11	A. Thave visited the Cleveland	
[12]	A: They are. An example of an	[12	Clinic. It was not part of a formal course.	
[13]	first outbor	[13	Q: when did you visit the Cleveland	
[14]		[14		
[15]	Q: Could you give the name of that	[15	A: In 1993.	
[16]	please /	[16	Q : And what was the reason for your	
[in	A: It scalled, what is "Minimally	[17] VISIT?	
[18]	Invasive Coronary Bypass Surgery.	[18	A: I was asked by my department to	
[19]	And the book is number three,	[19	travel around the world to see ten top	
[20]	and it's called, Minimally invasive cardiac	[20	facilities and get an idea of how they did	
[21]	surgery: State of the Art Techniques.	[21	things both programmatically, but also specific	
[22]	Q: All right, any others that you	[22	procedures, and the Cleveland Clinic was on	
[23]	think have particular significance as you sit	[23	that list.	

[24] here today?

[25] **A:** I believe those are the two most

[24]

Q: And how much time did you spend

[25] at the Cleveland Clinic at that time?

		Page 29		Page 31
[1]	Oz	C	[1] OZ	1 460 51
[2]	A: About ten days.		2) assist devices.	
[3]	Q: And while you were there, did		Q: And is that the only research	
[4]	you ever have an opportunity to observe or to		[4] project in regard to ventricular assist devices	
[5]	work with Dr. Cosgrove?		^[5] that you're participating in with Cleveland	
[6]	A: I did.		[6] Clinic?	
[7]	Q: Did you observe him in surgery?		[7] A: There are, in addition, research	
[8]	A: I did.		^[8] projects which we have completed looking at	
[9]	Q: And aside from that, what else		products to reduce the amount of bleeding after	
[10]	did you do with Dr, Cosgrove while you were		oj heart surgery.	
[11]	visiting there?		1] Q: What type of products?	
[12]	A: That was the extent of my		A: There was one product in	
[13]	interaction with Dr. Cosgrove at that time.		a particular that is made from silicone balls	
[14]	Q: What was your impression when		4] that are coated with fibrin, and these would	
[15]	you observed at the Cleveland Clinic?		5] swell and slow the bleeding from suture lines	
[16]	Did you bring back any		6] in patient's who are prone to bleeding.	
[17]	particular information in regard to that visit		7] Q: So there's one project that	
[18]	to Cleveland Clinic specifically?		4 dealt with ventricular assist devices, one that	
[19]	A: I was very impressed by the		9] dealt with products to reduce bleeding.	
[20]	efficiency of the institution. They had built		ol Any other research projects with	
[21]	an infrastructure designed to maximize the		1] the Cleveland Clinic?	
[22]	quality of care of patients; ranging from the		^{2]} A: Those are the ones that come to	
[23]	person who greeted the patient at the through		3] mind.	
[24]	the nursing staff in the ICUs on the floor,		4] Q: And what are your	
[25]	including the top surgeons on the team.		5) responsibilities, or what were your	
]	Page 30		Page 32
[1]	Öz	Page 30	1] Oz	Page 32
[1] [2]	<i>Oz</i> Q: Have you ever participated —	Page 30	1) Oz 2] responsibilities in regard to those two	Page 32
[1] [2] [3]	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't	Page 30	1] Oz 2] responsibilities in regard to those two 3] research projects?	Page 32
[1] [2] [3] [4]	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer.	Page 30	 1] Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 	Page 32
[1] [2] [3] [4] [5]	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry,	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 	Page 32
[1] [2] [3] [4] [5] [6]	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor.	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 	Page 32
[1] [2] [3] [4] [5] [6] [7]	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think,	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other	Page 30	 1) Oz 2) responsibilities in regard to those two 3) research projects? 4) A: I was the principal investigator 5) at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason.	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in commention with the Clausland Clinic on any	Page 30	1) Oz 2) responsibilities in regard to those two 3) research projects? 4) A : I was the principal investigator 5) at this site on the bleeding product study, and 6) I worked closely with the principal 7) investigator, Eric Rose, who led the mechanical 8) device research project. 9] Q: And where was he located? Was 0) he at Cleveland Clinic? A : No. he cost provide the mechanical	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	<i>Oz</i> Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing?	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 1] A: No, he's at my institution, 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12) (12) 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing?	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief a) investigator at the Claveland Clinic for their 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic?	Page 30	 1) Oz 2) responsibilities in regard to those two 3) research projects? 4) A: I was the principal investigator 5) at this site on the bleeding product study, and 6] I worked closely with the principal 7) investigator, Eric Rose, who led the mechanical 8) device research project. 9] Q: And where was he located? Was 9) he at Cleveland Clinic? 11 A: No, he's at my institution, 2) Columbia Presbyterian. 3] Q: And who were the chief 4) investigators at the Cleveland Clinic for their 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 8] A: Patrick McCarthy 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry. Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4) A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M: c.C.A.B.T.H.Y was the lead investigator on 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to	Page 30	 1) Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on a) the VAD project and Dr Cosgrove was the lead 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw conclusions.	Page 30	11 Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project. 0] D: The project, the bleeding	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw conclusions. Q: And what is the research	Page 30	11 Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located?Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project. 0] Q: The project, the bleeding 11 project, is that still open or has that been	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw conclusions. Q: And what is the research questions that you're investigating?	Page 30	11 Oz 2] responsibilities in regard to those two 3] research projects? 4] A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 11 A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project. 0] Q: The project, the bleeding 1] project, is that still open or has that been 2] concluded?	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21] [22] [23] 	Oz Q: Have you ever participated — MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw conclusions. Q: And what is the research questions that you're investigating? A: We have particularly strong	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4) A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 9] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project. 9] Q: The project, the bleeding 1] project, is that still open or has that been 2] concluded? 3] A: No, it was concluded, I believe, 	Page 32
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	 Oz Q: Have you ever participated - MR. JACKSON: Jeanne, I don't think he finished his answer. MS. TOSTI: Sorry, Go ahead, Doctor. A: It was a role model, I think, ten years ago that has been emulated by other programs around the country for that reason. Q: Have you ever been involved in conjunction with the Cleveland Clinic on any research that you have been doing? A I have. Q: What research have you done in conjunction with the Cleveland Clinic? A: There are several research projects involving new technologies that we have combined our patients together in order to create a large enough group to be able to draw conclusions. Q: And what is the research questions that you're investigating? A: We have particularly strong relationships in the area of mechanical support 	Page 30	 1) <i>Oz</i> 2] responsibilities in regard to those two 3] research projects? 4) A: I was the principal investigator 5] at this site on the bleeding product study, and 6] I worked closely with the principal 7] investigator, Eric Rose, who led the mechanical 8] device research project. 9] Q: And where was he located? Was 0] he at Cleveland Clinic? 1] A: No, he's at my institution, 2] Columbia Presbyterian. 3] Q: And who were the chief 4] investigators at the Cleveland Clinic for their 5] portion of the research project? 6] A: Patrick McCarthy, 7] M-c-C-A-R-T-H-Y, was the lead investigator on 8] the VAD project, and Dr. Cosgrove was the lead 9] investigator on the bleeding project. 0] Q: The project, the bleeding 1] project, is that still open or has that been 2] concluded? 3] A: No, it was concluded, I believe, 4] two years ago. Perhaps even three years ago. 	Page 32

		_		
	Page 3	3		Page 35
[1]	Oz	[1]	Oz	
[2]	that, did you have involvement with	[2]] Monday.	
[3]	Dr. Cosgrove to the point where you were	[3]	Q: And what was that in regard to?	
[4]	discussing findings or trading information,	[4]	A: There was a very big debate —	
[5]	meeting with him, speaking with him on the	[5]	organized debate at the major heart meeting	
[6]	phone while this project was going on?	[6]	that we have in the spring called the AATS or	
[7]	A: We didn't interact very much	17	American Association of Thoracic Surgery, and	
[8]	during the project because it was being done	181	the debate pitted me against Dr. Cosgrove and a	
[9]	for a company that had hired or that was a	[9]	third surgeon.	
[10]	clinical research organization.	1011	Q: What was the issue?	
[11]	So they were in charge of	(11)	A: Appropriate selection of valves,	
[12]	tabulating everyone's data.	[12]	aortic valves for patients who had aortic	
[13]	By the way, that study involved	[13]	disease	
[14]	half a dozen centers and so all the data was	11441	Ω : And what was the $-$ I take it	
(15)	brought together and distributed to the	[is	that you were on one side of the fence and he	
[16]	investigators and although I wrote the paper	[16]	was on the other side of the fence on that	
1171	that subsequently came from the research	1171	particular issue?	
[18]	project, it was reviewed by each of the	1111	A : Well the specific format it	
[19]	different site surgeons and those were given	[10]	was desired to keep the discussion brisk was I	
[20]	back to me in a written format.	[10]	pretended to be the patient sort of a	
[21]	So we had very limited	[20]	curmudgeon who was argumentative and kent	
[22]	interaction on this.	[22]	pushing the two surgeons who I was seeing in	
(23)	O: Aside from the fellowship that	[22]	consultation one being Dr Cosgrove and the	
[24]	vou previously mentioned that took place a	[24]	other Dr. David who was a surgeon in Canada	
(25)	while ago, have you visited the Cleveland	[24]	and Lasked each of them separately questions	
	D		and rusked each of them separately questions	
r41	Page 3	E	0-	Page 36
11		101	UZ	
[2]	Clinic other than that in regard to these	[2]	to challenge the advice they were giving me	
[3]	research projects?	[3]	about what they thought I should do if I were	
[4]	MR. JACKSON: Jeanne, when you	[4]	the patient.	
[5]	said Tellowship which — what are	[5]	Q: And what was your conclusion	
[6]	you taking about?	[6]	from the patient's perspective?	
[7]	MS, IOSTI: He has a traveling	[7]	A: I — if I was the patient I	
[8]	fellowship that he just talked about	[8]	would have picked a tissue valve because I did	
[9]	that involved the visit to the	[9]	not want to take anticoagulation and I was	
[10]	Cleveland Clinic.	[10]	pushing Dr. Cosgrove specifically to show data	
[11]	MR. JACKSON: Okay.	[11]	about whether there was a difference between	
[12]	MS. IOSTI: And we spoke about	[12]	tissue valves and mechanical valves, and also	
[13]	that just a minute ago.	[13]	whether or not the size of the valve made a	
[14]	Q: And aside from that, did these	[14]	difference.	
[15]	two research projects ever involve him going to	[15]	Q: And was Dr. Cosgrove'sposition	
[16]	the Cleveland Clinic?	[16]	at least from that debate that the mechanical	
[17]	A: Neither of these projects	[17]	valves were recommended?	
[18]	involved me going to the Cleveland Clinic.	[18]	A: No, He believes that a	
(19]	Q: Have you ever had any	[19]	mechanical valve should be avoided because of	
[20]	discussions with anyone at the Cleveland Clinic	[20]	the risk of Coumadin, which is a blood thinner	
[21]	regarding employment with the Cleveland Clinic?	[21]	required by these patients.	
[22]	A: I nave not.	100	Q: In regard to this particular	
	Or When is the last time that you	22]		
[23]	Q: When is the last time that you	[23]	debate, where did you say that it took place?	
[23] [24]	Q: When is the last time that you spoke with Dr. Cosgrove?	[22] [23] [24]	debate, where did you say that it took place?A: In Washington, DC.	

ļ,

	Page	7	Page 39
[1]	Oz	[1] Oz	-
[2]	with Dr. Cosgrove prior to the time the	121 employer?	
[3]	presentation was made?	a A: Columbia University.	
[4]	A: No, we met about 45 minutes	0: And aside from Columbia	
151	before the official debate started so that I	5 University do you provide professional services	
[6]	could give both he and Dr. David an idea of the	for any other entities?	
[7]	tone I would take as a patient.	\mathbf{A} : Lam asked by many different	
(81	Not the specific questions	[7] A. Tamasked by many different	
101	because we wanted spontaneity I wanted to	[6] groups to give taks around the country.	
(10)	make it clear I was going to be a very tough	[9] And Forten charge for that, and	
[10]	patient	of that is a revenue that I get.	
110	O: And how long did the actual	(i) Q. Aside from monoralitations, do you have any	
[12]	presentation take?	12) may get for presentations, do you have any	
[13]	A: The debate was scheduled for an	3) other employers beside Columbia University?	
[14]	A. The debate was scheduled for all	14] A: NO.	
[15]	Nour, and I beneve it took foughly that long.	[5] When you say "employers," do you	
[16]	Q: And prior to that incident when	^{16]} mean people who pay me a fee daily or monthly	
[17]	you spoke with Dr. Cosgrove, when was the time	17) for some task 1 perform?	
[18]	At Leasthally den't recall the	Isj Q: Yes.	
(19]	A: I actually don't recall the	$\begin{array}{c} \textbf{P} \\ \textbf{A: NO, 1 dO not.} \\ A: NO,$	
[20]	prior discussion.	^{20]} Q: And in regard to the research	
[21]	I would say I probably speak to	11 that you perform, are you — do you have income	
[22]	Dr. Cosgrove once every six months or so	\approx 1 from any research that — separate from what	
[23]	regarding some issue in cardiac surgery.	³³ you do at Columbia University?	
[24]	Actually, I believe the last	A: I don't have income from the	
[25]	time I saw him or spoke to him before that was	25) research itself. I do have consulting	
	Page 3	3	Page 40
[1]	Page 3 Oz	(1) Oz	Page 40
[1] [2]	Page 3 Oz in January.And we were speaking about some of	3 [1] Oz [2] arrangements with companies who desire that I	Page 40
(1) (2) (3)	Page 3 Oz in January.And we were speaking about some of the challenges for device companies in this	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in 	Page 40
(1) (2) (3) (4)	Page 3 Oz in January.And we were speaking about some of the challenges for device companies in this country.	 <i>Oz</i> <i>Oz</i> arrangements with companies who desire that I participate on their boards or play a role in development of products or clinical trials. 	Page 40
(1) (2) (3) (4) (5)	Page 3 Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted 	Page 40
 [1] [2] [3] [4] [5] [6] 	Page 3 Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case?	Image: Signal state state Oz [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting	Page 40
(1) (2) (3) (4) (5) (6) (7)	Page 3 Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] 	Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove.	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) 	Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach?	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once.	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	<i>Oz</i> in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him?	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Dage 3 Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) 	Dage 3 Oz in January.And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (16) 	Dage 3 Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type [16] of surgical procedures that you perform, are 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) 	Dage 3Ozin January. And we were speaking about some of the challenges for device companies in this country.Q: Have you ever spoken to him about this case?A: I've never discussed this case with Dr. Cosgrove.Q: Have you ever worked with Dr. Gregory Muehlebach?A: I have never worked with him. I have met him once.Q: When did you meet him?A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type [16] of surgical procedures that you perform, are [17] there any limitations on cases that you do do 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [10] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Dage 3Ozin January.And we were speaking about some of the challenges for device companies in this country.Q: Have you ever spoken to him about this case?A: I've never discussed this case with Dr. Cosgrove.Q: Have you ever worked with Dr. Gregory Muehlebach?A: I have never worked with him. I have met him once.Q: When did you meet him?A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that symposium.	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type [16] of surgical procedures that you perform, are [17] there any limitations on cases that you do do [18] and other cases that you don't do? 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990s when he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of	 [1] Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type [16] of surgical procedures that you perform, are [17] there any limitations on cases that you do do [18] and other cases that you don't do? [19] A: I no longer do pediatric complex 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (10) (11) (12) (13) (14) (14) (15) (16) (17) (18) (19) (20) 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion.	 (1) Oz (2) arrangements with companies who desire that I (3) participate on their boards or play a role in (4) development of products or clinical trials. (5) Q: Okay. And you haven't acted (6) as — have you ever acted in a consulting (7) capacity for Cleveland Clinic? (8) A: I have not. (9) Q: Doctor, is your current medical (10) practice limited to cardiothoracic surgery? (11) A: It is. (12) Q: Do you limit your practice to (13) any particular type of cardiothoracic surgery? (14) A: I limit it to cardiac surgery. (15) Q: Okay. But in regard to the type (16) of surgical procedures that you perform, are (17) there any limitations on cases that you do do (18) and other cases that you don't do? (19) A: I no longer do pediatric complex (20) cases. We have specialists here that I believe 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (10) (11) (12) (13) (14) (14) (14) (14) (14) (14) (14) (15) (14) (14) (15) (14) (14) (15) (14) (14)<!--</td--><td>Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What</td><td> (1) Oz (2) arrangements with companies who desire that I (3) participate on their boards or play a role in (4) development of products or clinical trials. (5) Q: Okay. And you haven't acted (6) as — have you ever acted in a consulting (7) capacity for Cleveland Clinic? (8) A: I have not. (9) Q: Doctor, is your current medical (10) practice limited to cardiothoracic surgery? (11) A: It is. (12) Q: Do you limit your practice to (13) any particular type of cardiothoracic surgery? (14) A: I limit it to cardiac surgery. (15) Q: Okay. But in regard to the type (16) of surgical procedures that you perform, are (17) there any limitations on cases that you do do (18) and other cases that you don't do? (19) A: I no longer do pediatric complex (20) cases. We have specialistshere that I believe (21) do that better than I. </td><td>Page 40</td>	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What	 (1) Oz (2) arrangements with companies who desire that I (3) participate on their boards or play a role in (4) development of products or clinical trials. (5) Q: Okay. And you haven't acted (6) as — have you ever acted in a consulting (7) capacity for Cleveland Clinic? (8) A: I have not. (9) Q: Doctor, is your current medical (10) practice limited to cardiothoracic surgery? (11) A: It is. (12) Q: Do you limit your practice to (13) any particular type of cardiothoracic surgery? (14) A: I limit it to cardiac surgery. (15) Q: Okay. But in regard to the type (16) of surgical procedures that you perform, are (17) there any limitations on cases that you do do (18) and other cases that you don't do? (19) A: I no longer do pediatric complex (20) cases. We have specialistshere that I believe (21) do that better than I. 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Date In January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990s when he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What was the topic?	 (1) Oz (2) arrangements with companies who desire that I (3) participate on their boards or play a role in (4) development of products or clinical trials. (5) Q: Okay. And you haven't acted (6) as — have you ever acted in a consulting (7) capacity for Cleveland Clinic? (8) A: I have not. (9) Q: Doctor, is your current medical (10) practice limited to cardiothoracic surgery? (11) A: It is. (12) Q: Do you limit your practice to (13) any particular type of cardiothoracic surgery? (14) A: I limit it to cardiac surgery. (15) Q: Okay. But in regard to the type (16) of surgical procedures that you perform, are (17) there any limitations on cases that you do do (18) and other cases that you don't do? (19) A: I no longer do pediatric complex (20) cases. We have specialistshere that I believe (21) do that better than I. (22) Q: Okay. And approximately how 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990s when he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What was the topic? A: I don'trecall exactly but I	 III Oz [2] arrangements with companies who desire that I [3] participate on their boards or play a role in [4] development of products or clinical trials. [5] Q: Okay. And you haven't acted [6] as — have you ever acted in a consulting [7] capacity for Cleveland Clinic? [8] A: I have not. [9] Q: Doctor, is your current medical [10] practice limited to cardiothoracic surgery? [11] A: It is. [12] Q: Do you limit your practice to [13] any particular type of cardiothoracic surgery? [14] A: I limit it to cardiac surgery. [15] Q: Okay. But in regard to the type [16] of surgical procedures that you perform, are [17] there any limitations on cases that you do do [18] and other cases that you don't do? [19] A: I no longer do pediatric complex [20] cases.We have specialistshere that I believe [21] do that better than I. [22] Q: Okay. And approximately how [23] many surgeries do you personally participate in 	Page 40
 (1) (2) (3) (4) (5) (6) (7) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990swhen he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What was the topic? A: I don'trecall exactly but I believe it was on mechanical heart devices.	 <i>Oz</i> <i>Oz</i> arrangements with companies who desire that I participate on their boards or play a role in development of products or clinical trials. Q: Okay. And you haven't acted as - have you ever acted in a consulting capacity for Cleveland Clinic? A: I have not. Q: Doctor, is your current medical practice limited to cardiothoracic surgery? A: It is. Q: Do you limit your practice to any particular type of cardiothoracic surgery? A: I limit it to cardiac surgery. Q: Okay. But in regard to the type of surgical procedures that you perform, are there any limitations on cases that you do do and other cases that you don't do? A: I no longer do pediatric complex cases. We have specialists here that I believe do that better than I. Q: Okay. And approximately how many surgeries do you personally participate in the course of say a week? 	Page 40
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] 	Oz in January. And we were speaking about some of the challenges for device companies in this country. Q: Have you ever spoken to him about this case? A: I've never discussed this case with Dr. Cosgrove. Q: Have you ever worked with Dr. Gregory Muehlebach? A: I have never worked with him. I have met him once. Q: When did you meet him? A: There was a talk I was asked to give in Lehigh Valley. It was the middle of the 1990s when he was still at the Cleveland Clinic and he was also asked to speak at that symposium. And I met him at the time of that discussion. Q: What were you speaking on?What was the topic? A: I don' trecall exactly but I believe it was on mechanical heart devices. Q: Doctor, who is your present	 <i>Oz</i> <i>Oz</i> arrangements with companies who desire that I participate on their boards or play a role in development of products or clinical trials. Q: Okay. And you haven't acted as — have you ever acted in a consulting capacity for Cleveland Clinic? A: I have not. Q: Doctor, is your current medical practice limited to cardiothoracic surgery? A: It is. Q: Do you limit your practice to any particular type of cardiothoracic surgery? A: I limit it to cardiac surgery. Q: Okay. But in regard to the type of surgical procedures that you perform, are and other cases that you don'tdo? A: I no longer do pediatric complex cases. We have specialists here that I believe do that better than I. Q: Okay. And approximately how many surgeries do you personally participate in the course of say a week? A: I do approximately 400 cases a 	Page 40

	Page 41		Page 43
[1]	Oz	[1] OZ	
[2]	year. So if we divide that by 52 , it's about	[2] A: There are several that they	
[3]	eight cases a week.	[3] read. I can list a few if you wish.	
[4]	Q: And do you personally perform	[4] There's Edmunds book	
[5]	aortic valve replacement surgery?	[5] E-D-M-U-N-D-S. There's a Sabiston book.	
[6]	A: Yes, I do.	[6] There's a Schwartz book.	
[7]	Q: And approximately how many do	And students can migrate to one	
[8]	you do in the course of a week or a month,	[8] or the other depending on their personal	
[9]	whatever would be easiest for you to	19) desire.	
[10]	approximate?	0: Are you familiar with A Text by	
[11]	A: I can, again, get these numbers	11 John Kirklin and Brian Carret-Boyes Cardiac	
[12]	exactly, but I would estimate 75 to 100 a year.	12] Surgery?	
[13]	So nearly two a week.	A: I know the books, yes.	
[14]	Q: I'dlike you to describe for me	Q: Do you find that information	
[15]	your professional responsibilities and how you	¹⁵ contained in those books accurate and reliable?	
[16]	divide your professional time.	A: Again, in general, I find these	
[17]	What percentage of your	\mathbb{T}) to be out of date by the time I review them.	
[18]	professional time do you spend in research,	Generally I'm looking for fairly	
[19]	administrative duties, clinical practice,	¹⁹ technical information from these books and I	
[20]	academics, medicine?	²⁰ generally don't find them, so I don't rely on	
[21]	A: I would say I spend 10 percent	21] them.	
[22]	of my time on administrative challenges,	22] Q: Doctor, as it relates to cardiac	
[23]	15 percent on research endeavors, and	^{23]} surgery, what does the term "minimally	
[24]	75 percent practicing clinical medicine.	24] invasive" mean?	
[25]	Q : Now, based on the CV that I	25] A: Well, I'll give you a definition	
	Page 42		Page 44
[1]	Oz	[1] Oz	
[2]	have, you do have an academic appointment; is	[2] that I've used frequently, but I should say at	
[3]	that correct?	(a) the outset that I don't think there is any one	
[4]	A: That is correct.	[4] definition for this very ambiguous term.	
[5]	Q: Could you tell me what your	^[5] But for me minimally invasive	
[6]	responsibilities entail in regard to your	[6] means surgery designed to improve the quality	
[7]	academic appointment?	[7] life of the patient more than the traditional	
[8]	A: I have responsibilities on the	[8] approach might.	
[9]	research committee to review projects that are	[9] Q: And in what way would it improve	
[10]	put forth for funding to our department.	ing the quality of life for the patient?	
[11]	I have responsibilities	A: There are many different ways it	

I have responsibilities [11]

[12] teaching, training the fellows and general [13] surgery residents who rotate through the

[14] cardiothoracic service, and I'm usually asked

[15] to give two lectures a year to the medical [16] students.

Q: Is there a particular medical [17]

[18] text on cardiovascular surgery that you

[19] recommended to your students?

A: Recommend any particular text. [20]

[21] They are frequently out of date by the time [22] they are published.

Q: Is there any medical text that [23] [24] is currently being used by the students in

[25] regard to cardiovascular surgery?

25]

[1]

151

191

14] invasive.

24) machine.

could occur, which is why there are so many

^{16]} magnitude of improving quality of life varies

improvement of cosmetic result, it could be

reduction of trauma to major musculoskeletal

22] structures, and it could involve avoidance of

23] cardiopulmonary bypass or the heart lung

Q: And does the term "minimally

17] dramatically between different types of alleged

I also should also caution the

minimally invasive procedures.

But the options include

isj different procedures that are termed minimally

	F	Page 45			Page 47
[1]	OZ	-	[1]	Oz	1 490 17
[2]	invasive" have the same meaning now as it did		12	Q: How many do you do in a week or	
[3]	back in 1996 when James Long had his surgery?		[3]	amonth?	
[4]	A: I believe the same ambiguity		[4]	A: Again, if we include the beating	
[5]	exists today as did then.		[5]	heart operations for coronary bypass surgery	
[6]	Q: Now currently doesn't it imply		[6]	and procedures that involve either a robotic	
[7]	that a surgical procedure is being done without			system or a small incision for a valve, it is	
(8)	placing the patient on cardiopulmonary bypass?		[8]	probably somewhere between 60 and 100 cases a	
[9]	A: No, that's not correct.		[9]	year.	
[10]	For patients who are having open		[10]	Q: And if you take away the beating	
[11]	heart surgery for coronary disease, there is an		[11]	heart type, how many cases minimally invasive	
[12]	option which many will call minimally invasive		[12]	do you do?	
[13]	of not placing the patient on the heart lung		[13]	A: I would say I do at least one a	
[14]	machine and doing the operation with a beating		[14]	week.	
[15]	heart.		[15]	Q: When did you first start doing	
[16]	For valve disease that's not		[16]	minimally invasive surgeries?	
[17]	feasible, and for that reason when valve		[17]	A: Probably 1994,1995, in that	
[18]	procedures are termed "minimallyinvasive,"it		[18]	time period.	
[19]	almost always refers to reduction of trauma of		[19]	Q: And are you currently involved	
[20]	the chest wall.		[20]	in any research dealing with any issues of	
[21]	In other words, less injury to		[21]	minimally invasive surgery?	
[22]	the sternum, which is the breast plate, or less		[22]	A: Yes, I am.	
[23]	injury to the chest wall where the ribs are		[23]	Q: Can you tell me what it is	
[24]	divided.		[24]	you're investigating in that research that	
[25]	Q: Do you have any specific		[25]	deals with minimally invasive surgery?	
	P	age 46			Page 48
[1]	OZ		[1]	OZ	-
[2]	training in minimally invasive cardiac surgery		[2]	A: I'mthe principal investigator	
[3]	procedures?		[3]	in trial where we're trying to see if the	
[4]	A: I'vetrained many, many, many		[4]	neurocognitive changes, in other words the	
[5]	courses in minimally invasive surgery.Without		[5]	stroke rate and the ability of patients to	
[6]	being falsely modest, I'm one of the		[6]	think normally after surgery, is altered by	
[7]	inaugurators of the field and, in fact, one of		[7]	doing minimally invasive procedures.	
[8]	the textbooks in my curriculum vitae that you		[8]	Q: Is the site for that study just	
[9]	referred to earlier is often regarded as one of		[9]	at Columbia Presbyterian?	
[10]	the premier textbooks on this topic.		[10]	A: It is my hospital and	
[11]	So although I traveled around		[11]	St. Michael's Hospital in Newark.	
[12]	the world, as I mentioned earlier, to see how		[12]	Q: And have you collected any data	
[13]	people did things, much of what I do was		[13]	at this point where you started to analyze your	
[14]	started as we did it.		[14]	findings?	
[15]	Q: So you consider yourself more or		[15]	A: We have not. The trial is not	
[16]	less a pioneer in this particular type of		[16]	complete yet.	
[17]	surgery?		[17]	Q: Doctor, we went through what	
[18]	A: 1 do.		[18]	information was in your file.	
[19]	() And do you conciden Dr. Concercio			Have you had an opportunity to	
[20]	Q: And do you consider Dr. Cosgrove		[19]		
	Q: And do you consider Dr. Cosgrove also on that same level with you?		[19] [20]	review the reports of plaintiff's experts in	
[21]	Q: And do you consider Dr. Cosgrove also on that same level with you? A: Definitely.		(19] [20] [21]	review the reports of plaintiff's experts in this case, Dr. Vernon Smith, Dr. Steve Menori	
[21] [22]	Q: And do you consider Dr. Cosgrove also on that same level with you? A: Definitely. Q: And do you currently personally do minimally invasive cardiac surgery		[19] [20] [21] [22]	review the reports of plaintiff's experts in this case, Dr. Vernon Smith, Dr. Steve Menori and the nursing expert, Mary Jane Smith?	
[21] [22] [23]	Q: And do you consider Dr. Cosgrove also on that same level with you? A: Definitely. Q: And do you currently personally do minimally invasive cardiac surgery procedures?		(19) [20] [21] [22] [23]	review the reports of plaintiff's experts in this case, Dr. Vernon Smith, Dr. Steve Menori and the nursing expert, Mary Jane Smith? I didn't recall that those were mentioned in any of the materials that we	
[21] [22] [23] [24]	Q: And do you consider Dr. Cosgrove also on that same level with you? A: Definitely. Q: And do you currently personally do minimally invasive cardiac surgery procedures? A: Ldo		 [19] [20] [21] [22] [23] [24] 	review the reports of plaintiff's experts in this case, Dr. Vernon Smith, Dr. Steve Menori and the nursing expert, Mary Jane Smith? I didn't recall that those were mentioned in any of the materials that we marked as exhibits	

	Page 49		Page 51
[1]	Oz	[1] Oz	
[2]	A: I recall reading the depositions	[2] A: No, I did not.	
[3]	of the two physicians Smith and Menori prior to	[3] Q: And how about in preparation for	
[4]	our initial scheduled deposition which I	[4] this deposition, did you refer to any materials	
[5]	believe was in February.	[5] aside from what you have in your file?	
[6]	And which nurse was it?	A: No. I did not.	
	MR. JACKSON: I can tell you.	$\overline{\Omega}$ O: Did you consults with any	
[8]	Jeanne, that he did not review any	n physicians at any time regarding this case?	
[9]	reports of nurses.	\mathbf{A} : I have not talked to a physician	
[10]	He was sent the report of	about this case	
(19) (14)	Dr Smith and I believe he saw the	Ω about this case.	
101 101	report of Dr. Minore also, but I do	for review did you have any contact with any	
(10]	not recall that	are of the medical providers named in the medical	
[10]	Ω : Have you seen the reports of any	is of the medical providers handed in the medical	
[14]	of the defense experts in this case	¹⁴ records other than what you vealleady fold me	
[10]	Dr Jeffrey Vender or Dr Timothy Lyons?	about?	
[10]	MR IACKSON: The answer to that	16 A. No, I venot spoken to any of	
[17]	is no Jeanne I don't — we did not	m according this assignment	
(10)	send him reports although he did	accepting this assignment.	
(19]	review Dr. Vender's denosition as he	19 Q. Have you ever had any contact at	
[20]	told you	w Vender?	
[21] (20)	0: Have you reviewed any fibr of	A: Lhave not	
(22)	James Long's cardiac past?	2] A. I have not.	
[23] (24]	A: I do not recall seeing the	[3] G. And what about in regard to	
	actual films	¹⁴ plantin sexperts that have been dentified	
1251		251 In this case /	
[25]	Records	is in this case?	
[25]	Page 50	(i) C-	Page 52
[25]	Page 50 Oz	(1) Oz	Page 52
[25]	Page 50 Oz I do recall seeing the reports	Image: Second	Page 52
[25] [1] [2] [3]	<i>Oz</i> I do recall seeing the reports of the studies done. O: Have you reviewed any acho film?	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes 	Page 52
[1] [2] [3] [4]	<i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: L do not boligue so no	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? 	Page 52
[1] [2] [3] [4] [5]	Dz Oz I do recall seeing the reports Oz Of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. O: At any time when you were	 [1] Oz [2] A: I do not know them. [3] Q: Do you have any personal notes [4] on this case? [5] A: I don't believe so, no. 	Page 52
[1] [2] [3] [4] [5] [6]	Oz Oz I do recall seeing the reports Of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were Example a did you request that	 [1] Oz [2] A: I do not know them. [3] Q: Do you have any personal notes [4] on this case? [5] A: I don't believe so, no. [6] The notes I had I included in my 	Page 52
[1] [2] [3] [4] [5] [6] [7]	Page 50 Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel cond you competing additional	 in this case? <i>Oz</i> A: I do not know them. Q: Do you have any personal notes on this case? A: I don't believe so, no. The notes I had I included in my note to Dr. — to Mr.Jackson on November 19th, 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8]	Oz Oz I do recall seeing the reports Oz of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were Page 50	 [1] Oz [2] A: I do not know them. [3] Q: Do you have any personal notes [4] on this case? [5] A: I don't believe so, no. [6] The notes I had I included in my [7] note to Dr. — to Mr.Jackson on November 19th, [8] 1999. 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9]	Oz Oz I do recall seeing the reports Of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given?	 in this case? <i>Oz</i> A: I do not know them. Q: Do you have any personal notes on this case? A: I don't believe so, no. The notes I had I included in my note to Dr. — to Mr. Jackson on November 19th, 1999. Q: In your experience what is the 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Oz Oz I do recall seeing the reports Of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional other than what you were	 in this case? <i>Oz</i> A: I do not know them. Q: Do you have any personal notes on this case? A: I don't believe so, no. The notes I had I included in my note to Dr. — to Mr.Jackson on November 19th, 1999. Q: In your experience what is the incidents of reexploration for postoperative 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	Page 50 Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MB< LACKSON: L don'tramember	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]	Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don' tremember	 in this case? <i>Oz</i> A: I do not know them. Q: Do you have any personal notes on this case? A: I don't believe so, no. The notes I had I included in my note to Dr. — to Mr. Jackson on November 19th, 1999. Q: In your experience what is the incidents of reexploration for postoperative bleeding complications in patients who have undergone aortic valve replacement? 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	Oz Oz I do recall seeing the reports Of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don' tremember that you asked for anything additional	 in this case? (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	Page 50 Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don' tremember that you asked for anything additional in terms of materials.	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don'tremember that you asked for anything additional in terms of materials. A: I don't believe so, no.	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [14] [15] [16]	<i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don't remember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they ware done by the two physicians Smith and	 in this case? (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [11] [12] [13] [14] [15] [16] [17]	<i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don't remember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and	 [1] Oz [2] A: I do not know them. [3] Q: Do you have any personal notes [4] on this case? [5] A: I don't believe so, no. [6] The notes I had I included in my [7] note to Dr. — to Mr.Jackson on November 19th, [8] 1999. [9] Q: In your experience what is the [9] or incidents of reexploration for postoperative [1] bleeding complications in patients who have [2] undergone aortic valve replacement? [3] A: Between 3 and 5 percent. [4] Q: And in your practice have you [5] taken patients back for reexploration because [6] of postoperative bleeding? [7] A: I have. 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don'tremember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. O: And the depositions that you've	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? (7) A: I have. (8) Q: And what percentage of the (9) patients that you'yataken hack have apprendiced and the patients have have have have apprendiced and the patients have have have have apprendiced and the patients have have have have apprendiced and the patients have have have have have apprendiced and the patients have have have have have apprendiced and the patients have have have have have apprendiced and the patients have have have have have have have have	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	<i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don't remember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. Q: And the depositions that you've been provided have you read all those	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? (7) A: I have. (8) Q: And what percentage of the (9) patients that you'vetaken back have come 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [15] [16] [17] [18] [19]	<i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don'tremember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. Q: And the depositions that you've been provided, have you read all those	 in this case? (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (1) incidents of reexploration for postoperative (1) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? (7) A: I have. (8) Q: And what percentage of the (9) patients that you'vetaken back have come (9) through reoperation neurologically intact? 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21]	Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don'tremember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. Q: And the depositions that you've been provided, have you read all those depositions?	 in this case? (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? (7) A: I have. (8) Q: And what percentage of the (9) patients that you'vetaken back have come (9) through reoperation neurologically intact? (11) A: Most have survived the 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [13] [14] [15] [16] [17] [16] [17] [20] [21] [22]	Oz I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don't remember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. Q: And the depositions that you've been provided, have you read all those depositions? A: I have. Q: In formulating your opinions in	 (1) Oz (2) A: I do not know them. (3) Q: Do you have any personal notes (4) on this case? (5) A: I don't believe so, no. (6) The notes I had I included in my (7) note to Dr. — to Mr.Jackson on November 19th, (8) 1999. (9) Q: In your experience what is the (9) incidents of reexploration for postoperative (11) bleeding complications in patients who have (2) undergone aortic valve replacement? (3) A: Between 3 and 5 percent. (4) Q: And in your practice have you (5) taken patients back for reexploration because (6) of postoperative bleeding? (7) A: I have. (8) Q: And what percentage of the (9) patients that you'vetaken back have come (9) through reoperation neurologically intact? (11) A: Most have survived the (2) reoperation. 	Page 52
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [13] [13] [15] [15] [16] [17] [20] [21] [22] [22] [24]	Page 50 <i>Oz</i> I do recall seeing the reports of the studies done. Q: Have you reviewed any echo film? A: I do not believe so, no. Q: At any time when you were reviewing materials, did you request that defense counsel send you something additional other than what you were originally given? A: I did not require additional records. MR. JACKSON: I don't remember that you asked for anything additional in terms of materials. A: I don't believe so, no. I was given depositions as they were done by the two physicians, Smith and Minore, but nothing else. Q: And the depositions that you've been provided, have you read all those depositions? A: I have. Q: In formulating your opinions in this case, did you refer to any medical	 11 Oz [2] A: I do not know them. [3] Q: Do you have any personal notes [4] on this case? [5] A: I don't believe so, no. [6] The notes I had I included in my [7] note to Dr. — to Mr.Jackson on November 19th, [8] 1999. [9] Q: In your experience what is the [9] or incidents of reexploration for postoperative [1] bleeding complications in patients who have [2] undergone aortic valve replacement? [3] A: Between 3 and 5 percent. [4] Q: And in your practice have you [5] taken patients back for reexploration because [6] of postoperative bleeding? [7] A: I have. [8] Q: And what percentage of the [9] patients that you'vetaken back have come [9] through reoperation neurologically intact? [1] A: Most have survived the [2] reoperation. [3] There are some groups that are [4] higher risk than others but most will survive 	Page 52

	Pa	nge 53		Page 55
[1]	Oz		1] Oz	-
[2]	Q: What would make them high risk?		2] replacement surgery utilizing minimally	
[3]	A: Patients who have significant		3] invasive techniques?	
[4]	degree of right heart failure is one exanyle,		4] A: I do.	
[5]	because they are fairly difficult to manage.		^{5]} Q : And how many of those have you	
[6]	Q: In what way?		6j done in the last week or month, whatever would	
[7]	A: They tend to decompensate very		7] be easiest for you to approximate?	
[8]	quickly in that they will start dropping their		a) A: I probably do one of those a	
[9]	blood pressure and will be difficult to		9] month.	
[10]	maintain as they suffer progressive right leart		^{o]} I think that operation is a	
[11]	failure.		1] wonderful one in the correct indications, but	
[12]	Q: Okay. Take any precautions when		2] if the patient needs bypass surgery in addition	
[13]	you know someone has right ventricular		\mathfrak{g} to the aortic valve, or if they're — if they	
[14]	problems?		4] require an additional procedure like another	
[15]	A: Sometimes we don't close the		5] valve, then I think it is a difficult operation	
[16]	chest at the fist operation to avoid pressure		e to do, so we use the more conventional	
[17]	on the right ventricle.		7) traditional sternotomy.	
[18]	I here is drugs that we will		B) Q : Now, James Long had what I	
[19]	relatively recent drug that was not available		9) believe was described in the operative report	
[20]	in 1006		of as a minimally invasive procedure with a	
[21]	0: Do patients with right		i) transverse sternotomy between the second and	
[22]	ventricular problems have close watching for		2] third interspaces.	
[23]	signs of decompensation after aortic value		¹³ Have you utilized that surgical	
[25]	replacement?		replacements?	
- · · ·			3 ICDIdeements.	
	 Pa	oge 54		Dage 56
[1]	Pa Oz	age 54	[1] O z	Page 56
[1]	Pa Oz A: They warrant the same careful	nge 54	Image: Image of the second sec	Page 56
[1] [2] [3]	Pa Oz A: They warrant the same careful observation that all patients desire. They are	nge 54	 [1] Oz [2] A: I have used one very similar to (a) that that we've modified. But it is 	Page 56
[1] [2] [3] [4]	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage.	age 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. 	Page 56
[1] [2] [3] [4] [5]	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close	age 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done 	Page 56
[1] [2] [3] [4] [5] [6]	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then?	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? 	Page 56
 [1] [2] [3] [4] [5] [6] [7] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close	age 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management.	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [10] transverse sternotomy considered a minimally 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct?	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [10] transverse sternotomy considered a minimally [11] invasive procedure? 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do.	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [10] transverse sternotomy considered a minimally [11] invasive procedure? [21] A: It is considered minimally 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [10] transverse sternotomy considered a minimally [11] invasive procedure? [21] A: It is considered minimally [3] invasive and I have done the operation with 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [1] invasive procedure? [2] A: It is considered minimally [3] invasive and I have done the operation with [4] that approach. 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve?	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [1] invasive procedure? [2] A: It is considered minimally [3] invasive and I have done the operation with [4] that approach. [5] Q: Is there a particular surgical 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [10] transverse sternotomy considered a minimally [11] invasive procedure? [2] A: It is considered minimally [13] invasive and I have done the operation with [14] that approach. [15] Q: Is there a particular surgical [16] approach that you favor in doing minimally 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday.	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [1] invasive procedure? [2] A: It is considered minimally [3] invasive and I have done the operation with [4] that approach. [5] Q: Is there a particular surgical [6] approach that you favor in doing minimally [7] invasive valve replacements? 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Pa <i>Oz</i> <i>A</i> : They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? <i>A</i> : They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? <i>A</i> : I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? <i>A</i> : Well, I did one yesterday and I did one on Monday. Q: Okay. <i>A</i> : So L do them foiduferemently.	nge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach. <i>Q</i>: Is there a particular surgical approach that you favor in doing minimally invasive valve replacements? A: For the aortic or mitral 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently.	nge 54	 [1] Oz [2] A: I have used one very similar to [3] that that we've modified. Rut it is [4] essentially that operation. [5] Q: When's the last time you've done [6] that type of operation? [7] A: Within the last three weeks. [8] Q: Have you done minimally invasive [9] using that transverse sternotomy or is [1] transverse sternotomy considered a minimally [1] invasive procedure? [2] A: It is considered minimally [3] invasive and I have done the operation with [4] that approach. [5] Q: Is there a particular surgical [6] approach that you favor in doing minimally [7] invasive valve replacements? [8] A: For the aortic or mitral [9] position? 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	Dz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently. It's one of the most common operations I do. O: Several times a week an average	ıge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach. <i>Q</i>: Is there a particular surgical approach that you favor in doing minimally invasive valve replacements? <i>A</i>: For the aortic or mitral position? <i>Q</i>: For the aortic. 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently. It's one of the most common operations I do. Q: Several times a week an average would you say?	ıge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach. <i>Q</i>: Is there a particular surgical approach that you favor in doing minimally invasive valve replacements? <i>A</i>: For the aortic. <i>Q</i>: For the aortic. <i>A</i>: I generally start a transverse 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently. It's one of the most common operations I do. Q: Several times a week an average would you say? A: Yes I think I do about a	nge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach that you favor in doing minimally invasive valve replacements? A: For the aortic. <i>Q</i>: For the aortic. <i>A</i> I generally start a transverse incision and then stop in the middle and then 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	<i>Oz A:</i> They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently. It's one of the most common operations I do. Q: Several times a week an average would you say? A: Yes, I think I do about a hundred a year, So it's about two a week.	nge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach. <i>Q</i>: Is there a particular surgical approach that you favor in doing minimally invasive valve replacements? A: For the aortic or mitral position? C: For the aortic. A I generally start a transverse cut up to the neck. 	Page 56
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] 	Pa Oz A: They warrant the same careful observation that all patients desire. They are just more difficult to manage. Q: So they would require close management then? A: They do require close management. Q: Now, Doctor, I think you told me that you do do aortic vaive replacement surgery in your practice, correct? A: I do. Q: And refresh my memory, did you say how often in the last week or month you've done an aortic valve? A: Well, I did one yesterday and I did one on Monday. Q: Okay. A: So I do them fairly frequently. It's one of the most common operations I do. Q: Several times a week an average would you say? A: Yes, I think I do about a hundred a year. So it's about two a week, Q: Do you currently do aortic valve	ıge 54	 <i>Oz</i> A: I have used one very similar to that that we've modified. Rut it is essentially that operation. <i>Q</i>: When's the last time you've done that type of operation? A: Within the last three weeks. <i>Q</i>: Have you done minimally invasive using that transverse sternotomy or is transverse sternotomy considered a minimally invasive procedure? A: It is considered minimally invasive and I have done the operation with that approach. <i>Q</i>: Is there a particular surgical approach that you favor in doing minimally invasive valve replacements? A: For the aortic or mitral position? C: For the aortic. A I generally start a transverse incision and then stop in the middle and then cut up to the neck. So I take a little wedge of the 	Page 56

[22] want to do a minimally invasive approach.

[24] is for an isolated aortic valve operation are

[25] there contraindications to the minimally

But to clarify, if the question

[23]

			1,200	
	Page 5	7		Page 59
[1]	Oz	[1	Oz Oz	Iuge oo
[2]	0: And is there a reason why you	12	invasive approach used by Dr Cosgrove and	
(3)	favor that particular procedure?	13	others I believe the answer is no	
[4]	A: If I have a problem with my	10	0: Doctor is it true that when a	
[5]	exposure during the course of the operation it	1	new valve new aortic valve is placed that	
161	affords me the ability to convert it to a	10	there's frequently a problem with blood	
[0]	traditional sternotomy	[0]	pressure being too high?	
101	O. Are there any disadvantages to	[[/.	A: That's correct	
[0] [0]	using a transverse sternotomy similar to what	[8]	Ω : And is that because of the fact	
101	was described in James Long's operative report?	[9]	that the ventricle the left ventricle has	
[10]	A : I don'tknow how much of a	[10]	hypertrophied because of the steposis?	
[11]	disadvantage it is but you divide the mammary	[11]	A: It's partially related to that	
[12]	artery at least on one side frequently to do	[12]	A: It spartially related to that,	
[13]	that procedure and that artery comptimes is of	[13]		
[14]	value in petients who need burges surgery	[14]	Q: what else is it related to	
[15]	O: Are there any particular	[15]	beside that?	
[16]	Q. Ale there any particular	[16]	A: The baroreceptors that regulate	
[17]	hy minimally investive techniques as opposed to	[17]	blood pressure are — need to communicate with	
[18]	full median stem stems?	[18]	the heart muscle to coordinate your blood	
[19]	I think you mentioned one you	[19]	pressure.	
[20]	would do a full stormatory if you also peeded	[20]	And in patients with severe	
[21]	to do human automatic	[21]	aortic stenosis, that communication system is	
[22]	But are there any other	[22]	faulty because it's been misled for so long by	
[23]	indications for doing cortic value replacements	[23]	the diseased valve.	
[24]	huminimally invocing techniques?	[24]	Q: Do the majority of your aortic	
[25]	by minimary invasive techniques :	[25]	valve replacement patients require epinephrine	
	Page5	31		Page 60
[1]	Oz	[1]	Oz	
[2]	A: The major indications are	[2]	support to maintain their blood pressure at 90	
[3]	individuals who are fairly big and for whom	[3]	or above systolic?	
[4]	you're concerned that the sternum will not heel	[4]	A: At the — this is a cultural	
[5]	well after surgery. And there are some	[5]	thing, but in my institution we use Levophed	
[6]	patients who feel strongly about the cosmetic	[6]	instead of epinephrine. That is our usual	
[7]	benefits of a smaller incision.	[7]	first drug, and our second drug is Primacor.	
[8]	Those tend to be the two more	[8]	We do use drugs, it just doesn't	
[9]	prevalent reasons why we do it.	[9]	have to be epinephrine.	
[10]	Q: And are there any	[io]	Q : Okay, and let me rephrase my	
[11]	contraindications for doing aortic valve	[11]	question then.	
[12]	replacement by minimally invasive techniques in	[12]	Do the majority of your aortic	
[13]	a patient that has been cleared for full median	[13]	valve replacement patients require Levophed and	
[14]	sternotomy valve replacement aside from if	[14]	Primacor after surgery to maintain their blood	
[15]	you're going to do CABG with it?	[15]	pressure at least 90 systolic?	
[16]	A: There are a variety of other	[16]	A: NO.	
[17]	operations that you could also need to do on	[17]	Q: How often would you say that you	
[18]	the patient.	[18]	would be required to utilize two vasopressors	
(19]	For example, a mitral valve	(19]	to maintain an aortic valve replacement	
[20]	operation or a maze operation.	[20]	patient's blood pressure at 90 systolic?	
[21]	That would also lead you to not	[21]	A: Primacor is not, strictly	

[22] speaking, a vasopressor, it's an inotropic.

- [23] By that I mean its primary
- [24] function is not to constrict the vasculature
- [25] but to stimulate the heart function.

	Page 67		D 00
[1]	rage of		Page 63
	And aninanhring when we use it		
[4]	is also used primarily for that purpose We	[2] This six nours due to a variety of	
[3]	don't use epinephrine as a vasoconstrictor	[3] Inflaminatory chemicals that are released in the	
[4]	although at high doses it will serve that role	[4] bloodstream as a result of the operation.	
[5]	although at high doses it will serve that fole	[5] Q: While at six hours after surgery	
[6]	also.	[6] would you expect that the aortic valve	
[7]	So I would say probably	^[7] replacement patient's cardiac index would be	
[8]	15 percent of our cases are on a vasopressor	[a] close to what it was in surgery?	
[9]	like Levopned and some type of an inotropic	[9] A: Not necessarily, I would have	
[10]	agent like Primacor or epinephrine.	10] to put the whole picture together, including	
[11]	Q: Would you agree that when a	11) the central venous pressure, what medications	
[12]	postoperative cardiac surgery patient exhibits	12] they're on, and if there's other information	
[13]	hemodynamic instability, prudence demands you	13] that's of merit.	
[14]	not only treat the instability but you look for	^{14]} For example, patient who is	
[15]	the cause of the instability?	15] waking up or not, these are all issues that	
[16]	A: Prudence clearly would indicate	16] will impact that number quite dramatically.	
[17]	that you look for causes, But the causes,	Q: When a patient's cardiac index	
[18]	generally speaking, in this kind of a patient	18] decreases, doesn't the coronary profusion also	
[19]	are only identified by treating the problem.	191 go down?	
[20]	It's not so much that you have a	A: When the cardiac index reduces,	
[21]	clear test that can tell you exactly what's	21] is released — decreases, the coronary	
[22]	going on, but rather in the course of treating	22) profusion may or may not go down depending on	
[23]	the problem the concoction of solutions you	²³ the blood pressure and the intraventricular	
[24]	come up with will often reveal what the	24] pressure.	
[25]	problem — the underlying problem was.	^{25]} In addition, as the cardiac	
	Page 62		Page 64
[1]	Page 62 OZ	[1] OZ	Page 64
(1) (2)	Page 62 OZ Q: What information does cardiac	 [1] OZ [2] index decreases, the energy consumption by the 	Page 64
[1] [2] [3]	Page 62 OZ Q: What information does cardiac index give you about a patient'sheart	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. 	Page 64
[1] [2] [3] [4]	Page 62 OZ Q: What information does cardiac index give you about a patient's heart function?	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes 	Page 64
[1] [2] [3] [4] [5]	Page 62 OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, 	Page 64
[1] [2] [3] [4] [5] [6]	Page 62 OZ Q: What information does cardiac index give you about a patient'sheart function? A: Cardiac index provides information that one by one is not of that much	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? 	Page 64
[1] [2] [3] [4] [5] [6] [7]	OZQ: What information does cardiacindex give you about a patient's heartfunction?A: Cardiac index providesinformation that one by one is not of that muchvalue but for trending purposes can be	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] 	Page 62OZQ: What information does cardiacindex give you about a patient's heartfunction?A: Cardiac index providesinformation that one by one is not of that muchvalue but for trending purposes can beindicative of whether the primary issue is the	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	DZQ: What information does cardiacindex give you about a patient'sheartfunction?A: Cardiac index providesinformation that one by one is not of that muchvalue but for trending purposes can beindicative of whether the primary issue is theheart or the body.	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	DZQ: What information does cardiacindex give you about a patient's heartfunction?A: Cardiac index providesinformation that one by one is not of that muchvalue but for trending purposes can beindicative of whether the primary issue is theheart or the body.Q: So looking at a series of	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As - if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As - if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Page 62OZQ: What information does cardiacindex give you about a patient's heartfunction?A: Cardiac index providesinformation that one by one is not of that muchvalue but for trending purposes can beindicative of whether the primary issue is theheart or the body.Q: So looking at a series ofcardiac indexes is valuable from theperspective of the clinician to determine if	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct?	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes.	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As - if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [16] [16] [17] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery?	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Page 62 OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the cliniciant o determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don' thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at the very end of the operation is probably	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 20] reasonable description. 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Vage 62 OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at the very end of the operation is probably reflective of the early course.	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As - if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don'thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 20] reasonable description. 21] Q: So if a patient's - an aortic 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Vage 62 OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at the very end of the operation is probably reflective of the early course. But immediately coming after —	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don' thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 20] reasonable description. 21] Q: So if a patient's — an aortic 22] valve patient has a falling cardiac index, does 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	OZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at the very end of the operation is probably reflective of the early course. But immediately coming after — coming off the heart lung machine the index is	 [1] OZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don' thave catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 20] reasonable description. 21] Q: So if a patient's — an aortic 22] valve patient has a falling cardiac index, does 23] that suggest that there may be a problem with 	Page 64
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [14] [15] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	Vage 62 CZ Q: What information does cardiac index give you about a patient's heart function? A: Cardiac index provides information that one by one is not of that much value but for trending purposes can be indicative of whether the primary issue is the heart or the body. Q: So looking at a series of cardiac indexes is valuable from the perspective of the clinician to determine if there's a problem with the patient, correct? A: It could be of value, yes. Q: Does a patient's cardiac index in surgery correlate in any way with expectations for the cardiac index at some point after the surgery? A: I would say that the index at the very end of the operation is probably reflective of the early course. But immediately coming after — coming off the heart lung machine the index is often not that predicative, and we expect in	 [1] CZ [2] index decreases, the energy consumption by the [3] heart usually decreases also. [4] Q: Well, if the cardiac index goes [5] down and the blood pressure also goes down, [6] does the coronary profusion go down? [7] A: As — if the intraventricular [8] pressure stays stable, yes. [9] Q: And what parameters do you look 10] at to find out if the intraventricular pressure 11] is stable? 12] A: Well, we don't have catheters 13] that will comfortably measure that. 14] We generally assume that it will 15] trend down with the patient's blood pressure. 16] But if you're asking me as a 17] scientist, it's a more complicated question 18] than what the actual blood pressure is. But it 19] tends to be, for a thumbnail sketch purposes, a 20] reasonable description. 21] Q: So if a patient's — an aortic 22] valve patient has a falling cardiac index, does 23] that suggest that there may be a problem with 24] cardiac function? 	Page 64

10 02 11 02 2 things you have to think about in your 3 So if the profusion pressure to 3 cardiac index within with you like to see 3 So if the profusion pressure to 40 Q: Is there a preferred range for 3 So if the profusion pressure to 50 proticular, you need to be careful about having 9 matter 61 Oct and bio do pressure because they have sature 9 matter 61 Bo proticular, you need to be careful about having 9 and they doon 'tever have brain problems from 62 It have have a vice represence to a high 9 and they doon 'tever have brain problems from 63 Bo proticular, you need to be careful about having 9 and they doon 'tever have brain problems from 64 Surgery, prefer low cardiac indices between 1.8 9 So on a trut about the running 65 Bi protential, Couput faits faiter 9 So we actually will check a 71 The matters in mercury, 9 Q: And what saturation do you a 72 So proteent at 9 So recent, and what saturation do you 73 A: I prefer to keep the saytolic 9 A: 10 precent, and		Page 65		Page 67
g things you have to think about in your g So if the profusion pressure to g differential. g So if the profusion pressure to g differential. g So if the profusion pressure to g differential. g So if the profusion pressure to g differential. g So if the profusion pressure to g or to valve replacement patients maintained? g Which is why in children the g to high abload pressure usually more than too g that. g to be ghan abload pressure is always less than that number of 50 g and they don't ever have brain problems from g to be ghan abload pressure usually more than too g that. g to be ghan abload pressure to a bload mixed venous saturation if we are g operationally for aortic valve g ft the mixed venous saturation if we are g operational state g So for hours and not have any significant g low prever thing if g oabove g ft the mixed or numos side. g p for a patient?The towest systolic you like to g G' and if you are running low mean g pressure abload pressure that you file to g G' and if you are running low mean g pressure abload you meet by systolic you like to g G' and if you are running low mean g pressure abload you meet by systolic you like to g	[1]	Oz	[1] Oz	
9 Gifferential. 9 0 8 10 10 10 9 0 16 16 16 16 16 16 9 0 16	[2]	things you have to think about in your	So if the profusion pressure to	
9Q: Is there a preferred range for9and is valve replacement patients maintained?9acritical walve replacement patients maintained?9Saturated with blood, then it doesn't really9acritical walve replacement patients maintained?9Saturated with blood, then it doesn't really9acritical walve replacement patients maintained?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?9Nich is why in children the9bar on the patient statistical?1Nich is why in children the9bar on the patient statistical?1Nich is why in children the9bar on the patient stati	[3]	differential.	¹² the head is enough to keep the capillaries	
g cardiac index within which you like to see g matter. g cardiac index within which you like to see g matter. g and it valve replacement patients maintained? g matter. g by contricular, you need to be cardful about having g matter. g bot ohigh abood pressure because they have suture g matter. g by contribution of the systeme. g concerned about that number. g matter. g concerned about that number. g matter. g concerned about that number. g matter. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that number. g concerned about that numper. g concerned about that numper.	[4]	Q: Is there a preferred range for	⁽⁴⁾ saturated with blood, then it doesn't really	
g aortic valve replacement patients maintained? g g aortic valve surgery in g g and the with seven surgery in g g in the state with seven surgery in g g in the state with seven seven seven in problems from g g in the state with seven s	[5]	cardiac index within which you like to see	isi matter.	
7 A: With aortic valve surgery in 7 pressure is always less than that number of 50 8) particular, you need to be careful about having 9 pressure is always less than that number of 50 9) too high ablood pressure because they have suture 9 that they don't ever have brain problems from 9) too high ablood pressure because they have suture 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9) Torsmill bleed if exposed to a high 9 So we actually will check a 9 10 0 9 So we actually will check a 9 10 0 0 10 10 9 10 0 0	[6]	aortic valve replacement patients maintained?	Which is why in children the	
ii) particular, you need to be careful about having iii) and they don't even have brain problems from iii) low ablood pressure usually more than too iii) iii) low ablood pressure usually more than too iiii) iiii) low ablood pressure usually more than too iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	[7]	A: With aortic valve surgery in	pressure is always less than that number of 50	
The problem of the system is a block pressure because they have sutureThe the state of the system is a block pressure block a structureThe pressure is a block pressure because they have sutureThe mixed venous system saturationThe surgery prefer low cardiac indices between 1.8The mixed venous saturationThe surgery prefer low cardiac indices between 1.8The mixed venous saturationThe surgery prefer low cardiac indices between 1.8The mixed venous saturationTo mixed venous saturationThe mixed venous saturationTo provide the system is go aboveThe mixed venous saturationTo prefer low cardiac output falls afterThe surgery situated on the venous side.The pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure at you would you agree the systolicThe add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe pressure above 90 fl can.The add if you are running low meanThe add coutput latter are pressure at you would you agree the structure of the venous side.The pressure above 90 fl can. <td>[8]</td> <td>particular, you need to be careful about having</td> <td>and they don't ever have brain problems from</td> <td></td>	[8]	particular, you need to be careful about having	and they don't ever have brain problems from	
10Instant will bleed if exposed to a high10instant will bleed if exposed to a high11instant will bleed if exposed to a high12perssure.13So we actually will check a14instant will bleed if exposed to a high15instant will bleed if exposed to a high16Do you have a bottom line for17including for heatient at?18A: I prefer to keep the bystolic19By archick exposed to a will bleed19So archick exposed to a will bleed10So archick exposed to a will bleed11So archick exposed to a will bleed <tr< td=""><td>[9]</td><td>too high a blood pressure usually more than too</td><td>(9) that</td><td></td></tr<>	[9]	too high a blood pressure usually more than too	(9) that	
in lines that will bleed if exposed to a high imixed venous oxygen saturation if we are is pressure. is concerned about that number. is pressure. is pressure. is pressure. is pressure. is pressure about atransion is concerned about that number. is pressure about atransion is concerned about that number. is pressure about atransion is concerned about that number. is pressure about atransion is concerned about that number. is pressure about atransion is concerned about that number. is pressure about atransion is concerned about that number. is pressure fails below pressure free is concerned about that number. is pressure fails below pressure free is concerned about that numbre. is pressure fails below for. is pressure fails below fore. <	[10]	low a blood pressure because they have suture	So we actually will check a	
19 pressure. 19 D 1 generally, for aortic valve 19 D 2 generally, for aortic valve 10 D 2 generally, for aortic valve 11 S 30 for hours and not have any significant 11 increased risk of neurological damage. 12 C And what saturation do you 13 Vant 50 percent. 14 increased risk of neurological damage. 15 A 1 prefer to keep the systolic 19 Particip resource above 90 if 1 can. 19 Particip resource above 90 if 1 can. 19 Particip resource needed to maintain cerebral 19 Particip resource needed to maintain cerebral 19 Particip resource of the systolic 19 Particip resouronave bis free of	[11]	lines that will bleed if exposed to a high	11 mixed venous oxygen saturation if we are	
19 Sb I generally, for aortic valve 18 19 Sb I generally, for aortic valve 18 19 suggery, prefer low cardiac indices between 1.8 18 19 suggery, prefer low cardiac indices between 1.8 18 19 lower, never letting it go above 19 19 O.D oy ou have a bottom line for 19 19 low ou have a bottom line for 10 19 keep the patient at? 11 10 keep the patient at? 11 10 keep the patient at? 11 10 keep the systolic 11 10 pressure above 90 if 1 can. 11 10 D D 11 OZ 11 11 D D 11 D D 12 D D 14 A: Yes. 10 D 15 patient and how reactive their head yessels 11 D 16 articial pressure needed to maintain cerebral 11 Page 60 Page 60 Page 60 10 D D <td>[12]</td> <td>pressure.</td> <td>2 concerned about that number.</td> <td></td>	[12]	pressure.	2 concerned about that number.	
14 surgery prefer low cardiac indices between 1.8 15 16 is acceptable, you can have a blood pressure of 15 30 for hours and not have any significant 16 00 consider to be adequate? 17 150-millimetersin mercury. 7 C: And what saturation do you 18 Q: Do you have a bottom line for 9 A: So percent. 19 De pressure that you like to maintain 9 A: So percent. 19 Perfor to keep the systolic 9 A: So percent. 19 Perfor to keep the systolic output falls after 9 C: And if you are running low mean 19 Perfor to keep the systogen needs to 9 Page 66 10 OZ 1 OZ 11 De you are unning low mean 9 arterial pressures, is that a test you would 10 OZ 1 OZ 11 DZ 1 OZ 12 A: If it's the minimal level of mean 9 concurred that I was having end organ injury, 11 DZ 1 OZ 1 A: If it was low enough that I was 13	[13]	So I generally, for a ortic valve	131 If the mixed venous saturation	
TypeSolutionSolutionTypeCSolutionSolutionTypeCDo you have a bottom line forSolutionSolutionTypeCDo you have a bottom line forSolutionSolutionTypeFor a patient at?SolutionSolutionSolutionTypeFor a patient at?SolutionSolutionSolutionTypeFor a cardiac output falls afterSolutionSolutionSolutionTypePrefer to keep the systolicSolutionSolutionSolutionTypeFor a cardiac output falls afterSolutionSolutionSolutionTypePrefer to keep the systolicSolutionSolutionSolutionTypePrefer to keep the systolicSolutionSolutionSolutionTypePrefer to keep the systolicSolutionSolutionSolutionTypePrefer to keep the systolicSolutionSolutionSolutionTypePressolutionSolutionSolutionSolutionTypePressolutionSolutionSolutionSolutionTypePressolutionSolutionSolutionSolutionTypePressolution	 [14]	surgery, prefer low cardiac indices between 1.8	14] is acceptable, you can have a blood pressure of	
18 lower.never letting it go above increased risk of neurological damage. 17 150-millimetersin mercury. G 18 for a patient 17 G 19 the blood pressure that you like to maintain G 19 the patient at? G 19 A: I prefer to keep the systolic H 19 A: I prefer to keep the systolic H 19 arterial pressures, is that a test you would H 19 arterial pressures, is that a test you would H 10 OZ I OZ 11 OZ I OZ 10 Natics the minimal level of mean Sconcerned that I was having end organ injury, 14 A: It depends on the age of the Sconcerned that I was having end organ injury, 19 A: It depends on the age of the Sconcerned that I was that is one of the tests 19 recovery room. I's aunit designed for 12 10 Pressure fails below 50, is there an increased F's aunit designed for 12 11 Proswer all shelber 50, is there an increased F's aunit designed for 12 19 A: It i's for a prolonged period I	[15]	and 2.5. And I try to keep the blood pressure	50 for hours and not have any significant	
150-millimetersin mercury. 7 Q : And what saturation do you 18 C: Do you have a bottom line for a consider to be adequate? 19 the blood pressure that you like to maintain a consider to be adequate? 19 the blood pressure that you like to maintain a consider to be adequate? 19 A: I prefer to keep the systolic a trail pressure, sis that a test you would 19 Q: I' a cardiac output falls after a trail pressure, sis that a test you would 10 DZ a trail pressure, sis that a test you would 11 DZ a trail pressure, sis that a test you would 11 DZ a trail pressure, sis that a test you would 11 DZ a trail pressure, sis that a test you would 11 DZ a trail pressure, sis that a test you would 12 DZ a trail pressure, sis that a test you would 13 DZ A: If i t was low enough that I was 14 DZ a trail was low enough that I was 15 a trail pressure, and that would run. a trail would run. 16 A: It depends on the age of the a trail would run. 17 Pressor a trail would run.	[16]	lower, never letting it go above	increased risk of neurological damage.	
 a C: Do you have a bottom line for b consider to be adequate? c C: A consider to be adequate? f i consider to the sets of the sets? f i consider to the adet of the adet adet of the adet of	[17]	150-millimetersin mercury.	7 Q : And what saturation do you	
in the blood pressure that you like to maintain that for a patient? The lowest systolic you like to the patient at? is twant 50 percent. is keep the patient at? is aturated on the venous side. is atterial pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressures, is that a test you would is pressure above 90 if 1 can. is atterial pressure atteriat at the atterial pressure atteriate the atterial pressure atteriate the atterial pressure atteriate the atterial pressure atteriate atte	[18]	Q: Do you have a bottom line for	a) consider to be adequate?	
geg for a patient? The lowest systolic you like to in large of the patient at? geg A: I prefer to keep the systolic in saturated on the venous side. geg Pressure above 90 if I can. in arterial pressures, is that a test you would geg O: If a cardiac output falls after in vents 50 percent of your blood geg O: If a cardiac output falls after in vents 50 percent of your blood geg O: If a cardiac output falls after in vents 50 percent of your blood geg O: If a cardiac output falls after in vents 50 percent of your blood geg of the systolic in routinely do for a patient to check on the geg of the systolic in the systoli in the systolic in the systolic in the sy	[19]	the blood pressure that you like to maintain	a A: 50 percent.	
[2] keep the patient at? 1: prefer to keep the systolic [2] A: I prefer to keep the systolic 2: And if you are running low mean [2] pressure above 90 if I can. 3: arterial pressures, is that a test you would [2] Q: And if you are running low mean [3] arterial pressures, is that a test you would [3] arterial pressure, is that a test you would [3] arterial pressure, is that a test you would [4] A: Yes. [5] Q: What's the minimal level of mean [6] A: It depends on the age of the [7] protision? [8] A: It depends on the age of the [9] A: It depends on the age of the [9] A: It depends on the age of the [9] A: It scalled the open heart [9] A: It scalled the open heart [9] A: It scalled the open heart [9] C: And if the mean arterial [9] C: It areason free of blockages, then [14] for someone who is free of [15] Pressure falls below 50, is there an increased [16] Q: And if the mean arterial <td< td=""><td>[20]</td><td>for a patient? The lowest systolic you like to</td><td>¹⁰ I want 50 percent of your blood</td><td></td></td<>	[20]	for a patient? The lowest systolic you like to	¹⁰ I want 50 percent of your blood	
Part A: I prefer to keep the systolic Partial pressure above 90 ff 1 can. Part Q: If a cardiac output falls after Parterial pressures, is that a test you would Part Q: If a cardiac output falls after Parterial pressures, is that a test you would Part Part Part Part Part Part Part Part	[21]	keep the patient at?	saturated on the venous side.	
image: pressure above 90 if I can. image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If a cardiac output falls after image: arterial pressures, is that a test you would pail 0: If arterial pressure arterial optic pail 0: What's the minimal level of mean image: arterial pressure present pail of arterial pressure needed to maintain cerebral image: arterial pressure present pail pressure after of image: arterial pressure arterial pail or arterial pressure arterial image: arterial pressure arterial pail paint and how reactive their	[22]	A: I prefer to keep the systolic	Q : And if you are running low mean	
gai Q: If a cardiac output falls after xi routinely do for a patient to check on the gai surgery, would you agree the surgeon needs to xi routinely do for a patient to check on the gai surgery, would you agree the surgeon needs to xi routinely do for a patient to check on the gai surgery, would you agree the surgeon needs to xi routinely do for a patient to check on the gai surgery, would you agree the surgeon needs to xi routinely do for a patient to check on the gai surgery, would you agree the surgeon needs to y routinely do for a patient to check on the gai to the subscience y enous saturation? [2] investigate whether the fall is due to cardiac [2] A: If it was low enough that I was [3] to the head, that is one of the tests [3] concerned that I was having end organ injury, [4] A: Yes. [4] colding to the head, that is one of the tests [5] Q: What's the minimal level of mean [5] that I would run. [6] are. [6] Q: When a acrdiac surgery patient [7] profusion? [7] leaves a surgical suite at Columbia [8] patient and how reactive their head vessels [9] ak: It depends on the age of the [9] patient and how reactive their head [7] resourd designed for 12 [9] or someone who is free of [7] If's a unit designed for 12 <t< td=""><td>[23]</td><td>pressure above 90 if I can.</td><td>3) arterial pressures, is that a test you would</td><td></td></t<>	[23]	pressure above 90 if I can.	3) arterial pressures, is that a test you would	
gas surgery, would you agree the surgeon needs to is) venous saturation? Page 65 [1] OZ 1 OZ [2] investigate whether the fall is due to cardiac [3] A: If it was low enough that I was 9 [3] tamponade? [4] A: If it was low enough that I was 9 concerned that I was having end organ injury, 4 [4] A: Yes. 9 A: If depends on the age of the 9 0.2 What's the minimal level of mean 9 A: It depends on the age of the 9 Personation and the resonation and the resonatis in the resonation and the resonation and the resonation and the	[24]	Q: If a cardiac output falls after	^{14]} routinely do for a patient to check on the	
Page 66Page 66[1]OZ1OZ[2] investigate whether the fall is due to cardiac[2] A: If it was low enough that I was[3] tamponade?[4] A: Yes.[4] A: Yes.[5] C: What's the minimal level of mean[6] arterial pressure needed to maintain cerebral[7] profusion?[7] profusion?[7] leaves a surgical suite at Columbia[8] A: It depends on the age of the[8] Presbyterian, what type of unit do they go to?[9] A: It depends on the age of the[9] A: It scalled the open heart[10] are.[11] t's a unit designed for 12[11] coronary disease, if we can assume their head[2] hours of support through the evening and that[13] vessels are also free of blockages, then[3] will allow patients who do well to be[14] deally I would like a mean pressure greater[4] expeditiously moved up to the floor.[15] than 50 to keep the head well profused.[9] A: If it's for a prolonged period I[16] risk for brain damage?[1] A: There is, that's correct.[17] yes.[2] What do you mean by "prolonged"?[2] A: What do you mean by "prolonged"?[2] A: The reason I' mhesitating is I' m[2] A: Bes concerned about the actual pressure than[3] A: The reason I' mhesitating is I' m[4] less concerned about the actual pressure than[4] less concerned about the actual pressure than[4] less concerned about the actual pressure than[5] A: The reason I' mhesitating is I' m[6] A: Bit scale the actual pressure than[6] A: It is a conterned about the actual pressure than <t< td=""><td>[25]</td><td>surgery, would you agree the surgeon needs to</td><td>5 venous saturation?</td><td></td></t<>	[25]	surgery, would you agree the surgeon needs to	5 venous saturation?	
[1] OZ 1] OZ [2] investigate whether the fall is due to cardiac [2] A: If it was low enough that I was [3] tamponade? a) concerned that I was having end organ injury, [4] A: Yes. a) concerned that I was having end organ injury, [5] Q: What's the minimal level of mean [5] that I would run. [6] arterial pressure needed to maintain cerebral [6] Q: When a cardiac surgery patient [7] profusion? [7] leaves a surgical suite at Columbia [8] A: It depends on the age of the [8] Presbyterian, what type of unit do they go to? [9] patient and how reactive their head vessels [9] A: It is called the open heart [10] are. [1] Is a unit designed for 12 [12] coronary disease, if we can assume their head [9] will allow patients who do well to be [14] deally I would like a mean pressure greater [4] expeditiously moved up to the floor. [15] than 50 to keep the head well profused. [9] A: It it'sfor a prolonged period I [16] risk for brain damage? [9] A: It it'sfor a prolonged period I [17] yes. [9] What do you mean by "prolonged"? [18] will allow patients the only type of patients that [19] wes. [9] A: If it'sfor a prolonged period I [10] think there would be a risk for b		Page 66		Page 68
[2] investigate whether the fall is due to cardiac[2] A: If it was low enough that I was[3] tamponade?[4] A: Yes.[5] concerned that I was having end organ injury,[4] A: Yes.[6] concerned that I was having end organ injury,[5] Q: What's the minimal level of mean[6] that I would run.[6] arterial pressure needed to maintain cerebral[7] profusion?[7] profusion?[8] A: It depends on the age of the[8] A: It depends on the age of the[9] Presbyterian, what type of unit do they go to?[9] patient and how reactive their head vessels[9] A: It's called the open heart[10] are.[11] For someone who is free of[11] For someone who is free of[11] It's a unit designed for 12[12] coronary disease, if we can assume their head[9] would like a mean pressure greater[14] ideally I would like a mean pressure greater[4] expeditiously moved up to the floor.[15] than 50 to keep the head well profused.[9] Q: Is there just one of those open[16] risk for brain damage?[9] A: Sixteen.[17] pressure falls below 50, is there an increased[9] A: Sixteen.[18] think there would be a risk for brain injury,[9] A: Sixteen.[19] wes.[9] Q: What do you mean by "prolonged"?[10] A: The reason I'mhesitating is I'm[3] A: Generally, yes.[20] What do you mean by "prolonged"?[3] A: Generally, yes.[21] bess concerned about the actual pressure than[4] They're by that I also	[1]	OZ	1] OZ	
[8] tamponade? 9] concerned that I was having end organ injury, [4] A: Yes. 9] concerned that I was having end organ injury, [5] Q: What's the minimal level of mean 9 [6] arterial pressure needed to maintain cerebral 9 [7] profusion? 9 [8] A: It depends on the age of the 9 [9] patient and how reactive their head vessels 9 [10] are. 9 [11] For someone who is free of 1 [12] coronary disease, if we can assume their head 9 [13] vessels are also free of blockages, then 9 [14] Hould like a mean pressure greater 9 [15] that 50 to keep the head well profused. 9 [16] Q: And if the mean arterial 9 [17] pressure falls below 50, is there an increased 7 [18] thisk for brain damage? 9 [19] wes. 9 [20] What do you mean by "prolonged"? [21] Q: What do you mean by "prolonged"? [22] A: The reason I 'm hesitating is I'm [24] less concerned about the actual pressure than	[2]	investigate whether the fall is due to cardiac	[2] A: If it was low enough that I was	
[4] A: Yes.4] including to the head, that is one of the tests[5] Q: What's the minimal level of mean5] that I would Yun.[6] arterial pressure needed to maintain cerebral6] Q: When a cardiac surgery patient[7] profusion?7] leaves a surgical suite at Columbia[8] A: It depends on the age of the9[9] patient and how reactive their head vessels9[10] are.1[11] coronary disease, if we can assume their head[12] coronary disease, if we can assume their head[13] vessels are also free of blockages, then[14] teally I would like a mean pressure greater[15] than 50 to keep the head well profused.[16] Q: And if the mean arterial[17] pressure falls below 50, is there an increased[18] risk for brain damage?[19] A: If it's for a prolonged period I[19] yes.[21] yes.[22] Q: What do you mean by "prolonged"?[23] A: The reason I'mhesitating is I'm[24] less concerned about the actual pressure than[24] less concerned about the actual pressure than	[3]	tamponade?	3] concerned that I was having end organ injury,	
[5] Q: What's the minimal level of mean\$ that I would run.[6] arterial pressure needed to maintain cerebral\$ that I would run.[7] profusion?[7] leaves a surgical suite at Columbia[8] A: It depends on the age of the[9] Patient and how reactive their head vessels[9] patient and how reactive their head vessels[9] A: It's called the open heart[10] are.[9] recovery room.[11] For someone who is free of[1] It'sa unit designed for 12[12] coronary disease, if we can assume their head[2] hours of support through the evening and that[13] vessels are also free of blockages, then[3] will allow patients who do well to be[14] ideally I would like a mean pressure greater[4] expeditiously moved up to the floor.[16] Q: And if the mean arterial[9] heart recovery units?[17] pressure falls below 50, is there an increased[7] A: There is, that's correct.[19] A: If it's for a prolonged period I[9] A: Sixteen.[20] think there would be a risk for brain injury,[9] A: Sixteen.[21] yes.[22] Q: What do you mean by "prolonged"?[23] A: The reason I'm hesitating is I'm[3] A: Generally, yes.[24] less concerned about the actual pressure than[4] They're — by that I also	[4]	A: Yes.	4] including to the head, that is one of the tests	
[6] arterial pressure needed to maintain cerebral[6] Q: When a cardiac surgery patient[7] profusion?[7] leaves a surgical suite at Columbia[8] A: It depends on the age of the[9] Presbyterian, what type of unit do they go to?[9] patient and how reactive their head vessels[9] A: It's called the open heart[10] are.[9] recovery room.[11] For someone who is free of[11] It's a unit designed for 12[12] coronary disease, if we can assume their head[2] hours of support through the evening and that[13] vessels are also free of blockages, then[3] will allow patients who do well to be[14] ideally I would like a mean pressure greater[4] expeditiously moved up to the floor.[15] than 50 to keep the head well profused.[6] Q: Is there just one of those open[16] Q: And if the mean arterial[7] k: fi it's for a prolonged period I[17] yres.[9] A: If it's for a prolonged period I[19] A: If it's for a prolonged period I[9] A: Sixteen.[10] yes.[11] ess concerned about the actual pressure than[22] Q: What do you mean by "prolonged"?[23] A: Generally, yes.[24] less concerned about the actual pressure than[4] They're by that I also	[5]	Q: What's the minimal level of mean	5] that I would run.	
[7] profusion?7] leaves a surgical suite at Columbia[8] A: It depends on the age of the9Presbyterian, what type of unit do they go to?[9] patient and how reactive their head vessels9A: It's called the open heart[10] are.9A: It's called the open heart[11] For someone who is free of1It's a unit designed for 12[12] coronary disease, if we can assume their head2hours of support through the evening and that[13] vessels are also free of blockages, then3will allow patients who do well to be[14] ideally I would like a mean pressure greater4expeditiously moved up to the floor.[15] than 50 to keep the head well profused.9A: There is, that's correct.[16] Q: And if the mean arterial9heart recovery units?[17] pressure falls below 50, is there an increased7A: There is, that's correct.[16] isk for brain damage?9A: Sixteen.[17] yes.9A: Sixteen.[19] A: If it's for a prolonged period I9[20] think there would be a risk for brain injury,9[21] yes.1surgery patients the only type of patients that[22] Q: What do you mean by "prolonged"?9[23] A: The reason I'mhesitating is I'm9[24] less concerned about the actual pressure than4[24] less concerned about the actual pressure than4[24] less concerned about the actual pressure than4	[6]	arterial pressure needed to maintain cerebral	^{6]} Q: When a cardiac surgery patient	
[8]A: It depends on the age of thea) Presbyterian, what type of unit do they go to?[9]patient and how reactive their head vessels9)A: It's called the open heart[10]are.9)A: It's called the open heart[11]For someone who is free of10It's a unit designed for 12[12]coronary disease, if we can assume their head2)hours of support through the evening and that[13]vessels are also free of blockages, then3) will allow patients who do well to be[14]ideally I would like a mean pressure greater4)expeditiously moved up to the floor.[15]than 50 to keep the head well profused.5)Q: Is there just one of those open[16]Q: And if the mean arterial6)heart recovery units?[17]pressure falls below 50, is there an increased7)A: There is, that's correct.[19]A: If it's for a prolonged period I9)A: Sixteen.[20]think there would be a risk for brain injury,9)Q: And are postoperative cardiac[21]yes.1surgery patients the only type of patients that[22]Q: What do you mean by "prolonged"?9)A: Generally, yes.[23]A: The reason I'mhesitating is I'm9)A: Generally, yes.[24]less concerned about the actual pressure than4)They're by that I also	[7]	profusion?	ر Ieaves a surgical suite at Columbia	
[9] patient and how reactive their head vessels[9] A: It's called the open heart[10] are.[11] For someone who is free of[11] It's a unit designed for 12[11] For someone who is free of[11] It's a unit designed for 12[12] coronary disease, if we can assume their head[13] vessels are also free of blockages, then[14] ideally I would like a mean pressure greater[14] ideally I would like a mean pressure greater[14] expeditiously moved up to the floor.[15] than 50 to keep the head well profused.[16] Q: And if the mean arterial[16] Q: And if the mean arterial[17] pressure falls below 50, is there an increased[16] risk for brain damage?[2] How many beds are in that unit?[17] pressure falls below 50, is there an increased[2] How many beds are in that unit?[19] A: If it's for a prolonged period I[2] Q: How many beds are in that unit?[20] think there would be a risk for brain injury,[2] Q: And are postoperative cardiac[21] yes.[22] Q: What do you mean by "prolonged"?[23] A: The reason I'mhesitating is I'm[3] A: Generally, yes.[24] less concerned about the actual pressure than[4] They're - by that I also	[8]	A: It depends on the age of the	8] Presbyterian, what type of unit do they go to?	
[10] are.oj recovery room.[11] For someone who is free of11 It's a unit designed for 12[12] coronary disease, if we can assume their head2) hours of support through the evening and that[13] vessels are also free of blockages, then3) will allow patients who do well to be[14] ideally I would like a mean pressure greater4) expeditiously moved up to the floor.[15] than 50 to keep the head well profused.5) Q: Is there just one of those open[16] Q: And if the mean arterial6) heart recovery units?[17] pressure falls below 50, is there an increased7) A: There is, that's correct.[18] risk for brain damage?9) A: If it's for a prolonged period I[19] A: If it's for a prolonged period I9) A: Sixteen.[20] think there would be a risk for brain injury,9) Q: And are postoperative cardiac[21] yes.11 surgery patients the only type of patients that[22] Q: What do you mean by "prolonged"?2) are in that unit?[23] A: The reason I'm hesitating is I'm3) A: Generally, yes.[24] less concerned about the actual pressure than4) They're by that I also	[9]	patient and how reactive their head vessels	9] A: It's called the open heart	
It is (11)For someone who is free of (12)It is a unit designed for 12(12)coronary disease, if we can assume their head (13) vessels are also free of blockages, then 	[10]	are.	oj recovery room.	
 (12) coronary disease, if we can assume their head (13) vessels are also free of blockages, then (14) ideally I would like a mean pressure greater (15) than 50 to keep the head well profused. (16) Q: And if the mean arterial (17) pressure falls below 50, is there an increased (18) risk for brain damage? (19) A: If it's for a prolonged period I (19) think there would be a risk for brain injury, (11) yes. (12) Q: What do you mean by "prolonged"? (12) Q: What do you mean by "prolonged"? (13) A: The reason I'mhesitating is I'm (14) I bese concerned about the actual pressure than (15) the second about the actual pressure than (16) Q: And are postoperative cardiac (17) Pressure falls below 50, is there an increased (18) The reason I'mhesitating is I'm (19) A: The reason I'mhesitating is I'm (19) A: Descent about the actual pressure than (10) Product a pressure than (11) Product a pressure than (12) Product a pressure than (13) Product a pressure than (14) Product a pressure than (15) Product a pressure than (15) Product a pressure than (16) Product a pressure than (17) Pressure falls below 50, is there an increased (18) Product a pressure than (19) Product a pressure than (10) Product a pressure than (11) Product a pressure than (12) Product a pressure than (12) Product a pressure than (13) Product a pressure than (14) Product a pressure than (15) Product a pressure than (16) Product a pressure than (17) Product a pressure than (18) Product a pressure than (18) Product a pressure than (18	[11]	For someone who is free of	1] It's a unit designed for 12	
 (13) vessels are also free of blockages, then (14) ideally I would like a mean pressure greater (15) than 50 to keep the head well profused. (16) Q: And if the mean arterial (17) pressure falls below 50, is there an increased (18) risk for brain damage? (19) A: If it's for a prolonged period I (19) think there would be a risk for brain injury, (19) Q: What do you mean by "prolonged"? (19) A: The reason I'm hesitating is I'm (19) A: The reason I'm hesitating is I'm (19) A: The reason I'm hesitating is I'm (10) Q: What I also (11) Pressure falls below for the actual pressure than (12) Pressure falls below for the actual pressure than (13) will allow patients who do well to be (14) expeditiously moved up to the floor. (15) Q: Is there just one of those open (16) heart recovery units? (17) A: There is, that's correct. (18) Pressure falls below 50, is there an increased (19) A: If it's for a prolonged period I (10) Q: And are postoperative cardiac (11) surgery patients the only type of patients that (12) are in that unit? (13) A: Generally, yes. (14) less concerned about the actual pressure than (15) Pressure falls below for the floor. (16) Pressure falls below for the floor. (17) Pressure falls below for the floor. (18) Pressure falls below for the floor. (19) Pressure falls below for the floor. (19) Pressure falls below for the floor. (10) Pressure falls below for the floor. (10) Pressure falls below for the floor. (11) Pressure falls below for the floor. (12) Pressure falls below for the floor. (13) Pressure falls below for the floor. (14) Pressure falls below for the floor. (15) Pressure falls below for the floor. (15) Pressure falls below for the fl	[12]	coronary disease, if we can assume their head	2] hours of support through the evening and that	
 (14) Ideally I would like a mean pressure greater (15) than 50 to keep the head well profused. (16) Q: And if the mean arterial (17) pressure falls below 50, is there an increased (18) risk for brain damage? (19) A: If it's for a prolonged period I (20) think there would be a risk for brain injury, (21) yes. (22) Q: What do you mean by "prolonged"? (23) A: The reason I'mhesitating is I'm (24) less concerned about the actual pressure than (14) expeditiously moved up to the floor. (15) Q: Is there just one of those open (16) heart recovery units? (17) A: There is, that's correct. (18) Prolonged period I (19) A: If it's for a prolonged period I (19) A: If it's for a prolonged period I (19) A: There are not provide the actual pressure than (19) A: The reason I'mhesitating is I'm (24) less concerned about the actual pressure than (25) A: The reason I'mhesitating is I'm (26) Less concerned about the actual pressure than (27) A: The reason I'mhesitating is I'm (28) Less concerned about the actual pressure than (29) A: The reason I'mhesitating is I'm (20) A: The reason I'mhesitating is I'm (21) Less concerned about the actual pressure than (22) A: The reason I'mhesitating is I'm (23) A: Generally, yes. (24) Less concerned about the actual pressure than (25) A: The reason I'mhesitating is I'm (26) A: The reason I'mhesitating is I'm (27) A: The reason I'mhesitating is I'm (28) Less concerned about the actual pressure than (29) A: Generally, yes. (21) Less concerned about the actual pressure than (22) A: The reason I'mhesitating is I'm (23) A: Generally, yes. (24) Less concerned about the actual pressure than (25) A: The reason I'mhesitating is I'm (2	[13]	vessels are also free of blockages, then	3] will allow patients who do well to be	
 (15) than 50 to keep the head well profused. (17) pressure falls below 50, is there an increased (18) risk for brain damage? (19) A: If it's for a prolonged period I (19) A: If it's for a prolonged period I (20) think there would be a risk for brain injury, (21) yes. (22) Q: What do you mean by "prolonged"? (23) A: The reason I'm hesitating is I'm (24) less concerned about the actual pressure than (15) Q: Is there just one of those open (16) heart recovery units? (17) A: There is, that's correct. (18) Q: How many beds are in that unit? (19) A: If it's for a prolonged period I (19) A: If it's for a prolonged period I (10) Q: And are postoperative cardiac (11) surgery patients the only type of patients that (12) are in that unit? (13) A: Generally, yes. (14) They're - by that I also 	[14]	ideally I would like a mean pressure greater	4] expeditiously moved up to the floor.	
 Q: And if the mean arterial [16] Q: And if the mean arterial [17] pressure falls below 50, is there an increased [18] risk for brain damage? [19] A: If it's for a prolonged period I [20] think there would be a risk for brain injury, [21] yes. [22] Q: What do you mean by "prolonged"? [23] A: The reason I'm hesitating is I'm [24] less concerned about the actual pressure than [25] A. The reason I'm hesitating is I'm [26] heart recovery units? [27] A. There is, that's correct. [28] Q: How many beds are in that unit? [29] A. The reason I'm hesitating is I'm [20] A. Generally, yes. [21] The reason I'm hesitating is I'm [22] A. The reason I'm hesitating is I'm [23] A. Generally, yes. [24] Less concerned about the actual pressure than [25] A. The reason I'm hesitating is I'm [26] How many beds are in that unit? [27] A. The reason I'm hesitating is I'm [28] A. Generally, yes. [29] A. The reason I held here a here	[15]	than 50 to keep the head well profused.	5] Q: Is there just one of those open	
 [17] pressure fails below 50, is there an increased [18] risk for brain damage? [19] A: If it's for a prolonged period I [20] think there would be a risk for brain injury, [21] yes. [22] Q: What do you mean by "prolonged"? [23] A: The reason I'm hesitating is I'm [24] less concerned about the actual pressure than [27] A: There is, that's correct. [28] G: How many beds are in that unit? [29] A: The reason I'm hesitating is I'm [20] A: Generally, yes. [21] The pressure than [22] A: The reason I'm hesitating is I'm [23] A: Generally, yes. [24] Less concerned about the actual pressure than [25] A: The pressure than [26] A: The pressure than [27] A: The pressure than [28] A: The pressure than [29] A: The pressure than [20] A: The pressure than [20] A: The pressure than [21] The pressure than [22] A: The pressure than [23] A: Generally, yes. [24] The pressure than [25] A: The pressure than 	[16]	Q: And if the mean arterial	6) heart recovery units?	
 [19] A: If it's for a prolonged period I [20] think there would be a risk for brain injury, [21] yes. [22] Q: What do you mean by "prolonged"? [23] A: The reason I'm hesitating is I'm [24] less concerned about the actual pressure than [25] C: How many beds are in that unit? [26] G: How many beds are in that unit? [27] Q: What do you mean by "prolonged"? [28] A: The reason I'm hesitating is I'm [29] A: Generally, yes. [20] A: The view of the actual pressure than [20] A: The view of the actual pressure than [21] The view of the actual pressure than [22] A: The view of the actual pressure than [23] A: Generally, yes. [24] The view of the actual pressure than 	[17]	pressure fails below 50, is there an increased	7 A: There is, that's correct.	
 [19] A. In it stor a protonged period I [20] think there would be a risk for brain injury, [21] yes. [22] Q: What do you mean by "prolonged"? [23] A: The reason I'm hesitating is I'm [24] less concerned about the actual pressure than [25] A. The reason I'm hesitating is I'm [26] Less concerned about the actual pressure than [27] A. The reason I'm hesitating is I'm [28] A. Generally, yes. [29] A. Sixteen. [20] Q: And are postoperative cardiac [20] I surgery patients the only type of patients that [21] surgery patients the only type of patients that [22] are in that unit? [23] A. Generally, yes. [24] They're — by that I also 	[18]	risk for for a professed seried L	B) Q: How many beds are in that unit?	
[20] think there would be a fisk for brain injury,0] Q: And are postoperative cardiac[21] yes.1] surgery patients the only type of patients that[22] Q: What do you mean by "prolonged"?2] are in that unit?[23] A: The reason I'mhesitating is I'm3] A: Generally, yes.[24] less concerned about the actual pressure than4] They're by that I also	[19]	A. II It STOP a protonged period 1 think there would be a risk for brain injury	9) A: Sixteen.	
[21] yes.1] surgery patients the only type of patients that[22] Q: What do you mean by "prolonged"?2] are in that unit?[23] A: The reason I'm hesitating is I'm3] A: Generally, yes.[24] less concerned about the actual pressure than4] They're by that I also	[20]	unink there would be a fisk for brain injury,	oj Q: And are postoperative cardiac	
[22] Q. What do you mean by prolonged 1 [23] A: The reason I'm hesitating is I'm [24] less concerned about the actual pressure than [24] Item in that unit? [24] Item in that unit? [24] Item in that unit? [25] A: Generally, yes. [26] A: Generally, yes. [27] A: They're by that I also	[21]	ycs. O: What do you mean by "prolonged"?	1] surgery patients the only type of patients that	
[24] less concerned about the actual pressure than a) A: Ochcrany, yes. [24] less concerned about the actual pressure than b) b)	[22]	Q. What do you mean by prototiged ?		
4) They re- by that Taiso	1001	A: The reason I'm besitating is I'm	2 are in that unit: $\mathbf{a} = \mathbf{A}$: Generally yes	
[25] the profusion, and they're not the same thing.	[23] [24]	A: The reason I'mhesitating is I'm less concerned about the actual pressure than	3] A: Generally, yes.	

	Page 69		Page 71
(1 1	Oz	[1] Oz	- 3 -
[2]	that require cardiac pulmonary bypass.	^[2] patient's heart.	
[3]	Q: Who provides the medical	0: And can you have a localized	
[4]	coverage for the open heart recovery unit?	14) tamponade, say from a clot that impairs heart	
151	A: There's an anesthesiologist who	function regionally?	
[6]	will take a call and the senior	Δ : You can	
[7]	anesthesiologist is the medical coverage.	\sim 0: And in general terms in what	
181	0. Do attending surgeons provide	[/] Q. Find in general terms, in what	
[0]	services in the ICU?	\mathbf{a} : It prevents blood from entering	
1011	A : They will come by and round on	y the heart or flowing through the right heart so	
(14)	the nations	the left heart becomes empty	
6.0	They're used more as consultants	in the left heart becomes empty.	
[12]	than primary decision makers	12 Q. Does the heart rate in any way,	
[13]	0: Do you have surgical residents	A. It can be in come patients And	
[14]	or fellows on 24 hour call for the open heart	A. It can be in some patients. And	
[15]	recovery unit?	is they will sometimes develop a faster heart	
[16]	A: We have them available for the	16 rate.	
[17]	A. We have them available for the	17 Q. Typicany in a patient that	
[18]	they aren't recovery unit 24 hours a day, but	18) develops cardiac tamponade, does their heart	
[19]	O: Do the purses if there's a	19) rate increase in most patients?	
[20]	Q. Do the nurses it there s a	20] A. I would say in most patients	
[21]	problem in the unit first can the	21] probably, yes.	
[22]	mesodure?	22] Although every one of our	
[23]	A: Thet's correct	23) patients is on a beta blocker usually, so we	
[24]	A. Indi sconeci. O: And I take it there's no	24] don't really rely on heart rate to make that	
051			
[23]		25 diagnosis.	
[23]	Page 70	F	Page 72
[1]	Page 70	[1] Oz	Page 72
[1] [2]	Page 70 Oz intensiveness other than the anesthesiologist	[1] Oz [2] Q: And what would be the cause of	Page 72
[1] [2] [3]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis?	[1] Oz [2] Q: And what would be the cause of [3] the cardias: tamponade during the first 12 hours	Page 72
[1] [2] [3] [4]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are	[1] Oz [2] Q: And what would be the cause of [3] the cardias: tamponade during the first 12 hours [4] after cardiac surgery?	Page 72
[1] [2] [3] [4] [5]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness.	 Indentified and the second s	Page 72
[1] [2] [3] [4] [5] [6]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than	Imaginary Oz [1] Oz [2] Q: And what would be the cause of [3] the cardias: tamponade during the first 12 hours [4] after cardiac surgery? [5] A: Right ventricular ischemia, [6] which would result in swelling of the fight	Page 72
[11 [2] [3] [4] [5] [6] [7]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about,	 [1] Oz [2] Q: And what would be the cause of [3] the cardias: tamponade during the first 12 hours [4] after cardiac surgery? [5] A: Right ventricular ischemia, [6] which would result in swelling of the fight [7] heart.And if there's a small chest cavity, 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a	 (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis?	 (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A : Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A : That's correct.	 Indentified as the second state of th	Page 72
[11 [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now,Doctor, I'm going to be	 Indentified as the set of the set o	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac	 (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A : Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A : That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition	 25 unagnosis. (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now,Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade	Image: Provide the series of the series o	Page 72
[1] [2] [3] [4] [5] [6] [7] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now,Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after	 Indentified and the second s	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery.	 Indentified and the second s	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A : Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A : That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may	 Indentosis. 25) unagnosis. 21) Oz (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to (14) bleeding, how much accumulation of blood around (15) the heart is necessary before tamponade begins (16) affecting cardiac function? (17) A: This is a question we frequently 	Page 72
[11] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now,Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's	Image: second	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about.	 Indentosis. (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to (14) bleeding, how much accumulation of blood around (15) the heart is necessary before tamponade begins (16) affecting cardiac function? (17) A: This is a question we frequently (18) ask the residents, and there is no answer to (19) that. It depends on how much space you have 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18] [19] [20]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A : Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A : That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about. First off, can you tell me what	 Indentosis. (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (2) obvious ones that come to mind. (3) Q: When tamponade is due to (4) bleeding, how much accumulation of blood around (5) the heart is necessary before tamponade begins (6) affecting cardiac function? (7) A: This is a question we frequently (8) ask the residents, and there is no answer to (9) within the pericardial sack. 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13] [14] [15] [16] [17] [16] [17] [20] [21]	Page 70 <i>Oz</i> intensiveness other than the anesthesiologist that is in the unit on a regular basis? A : Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A : That's correct. Q: Now,Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about. First off, can you tell me what "cardiactamponade" is?	 Indenoisis. (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to (14) bleeding, how much accumulation of blood around (15) the heart is necessary before tamponade begins (16) affecting cardiac function? (17) A: This is a question we frequently (18) ask the residents, and there is no answer to (19) that. It depends on how much space you have (20) within the pericardial sack. (21) So a patient who comes with a 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [18] [20] [21] [22]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about. First off, can you tell me what "cardiac tamponade" is? A: Cardiac tamponade a build up of	 Indentosis. (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to (14) bleeding, how much accumulation of blood around (15) the heart is necessary before tamponade begins (16) affecting cardiac function? (17) A: This is a question we frequently (18) ask the residents, and there is no answer to (19) that. It depends on how much space you have (20) within the pericardial sack. (21) So a patient who comes with a (22) huge heart, like a transplant patient, would 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [14] [15] [16] [17] [18] [20] [21] [22] [23]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about. First off, can you tell me what "cardiac tamponade" is? A: Cardiac tamponade a build up of pressure on the heart that prevents it from	 Indentosis. Imaginosis. 	Page 72
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [14] [15] [15] [20] [21] [22] [23]	Page 70 Oz intensiveness other than the anesthesiologist that is in the unit on a regular basis? A: Well the anesthesiologists are intensiveness. Q: That's what I meant. Other than the anesthesiologist that you talked about, there's no one else assigned to that unit on a regular basis? A: That's correct. Q: Now, Doctor, I'm going to be asking you some questions regarding cardiac tamponade, and for purposes of this deposition my questions are limited to cardiac tamponade that occurs within the first 12 hours after cardiac surgery. I realize that tamponade may occur under other circumstances, but that's what we're going to be speaking about. First off, can you tell me what "cardiac tamponade a build up of pressure on the heart that prevents it from adequately filling with venous blood and	Image: Provide the series of the series of the cardias: tamponade during the first 12 hours (1) Oz (2) Q: And what would be the cause of (3) the cardias: tamponade during the first 12 hours (4) after cardiac surgery? (5) A: Right ventricular ischemia, (6) which would result in swelling of the fight (7) heart. And if there's a small chest cavity, (8) then the heart can be pushed down by the (9) sternum bone. Bleeding is the most common (10) cause. (11) I guess those are the two most (12) obvious ones that come to mind. (13) Q: When tamponade is due to (14) bleeding, how much accumulation of blood around (15) the heart is necessary before tamponade begins (16) affecting cardiac function? (17) A: This is a question we frequently (18) ask the residents, and there is no answer to (19) that. It depends on how much space you have (10) Xo a patient who comes with a (12) So a patient who comes with a (13) So a patient who comes with	Page 72

			- ,
	Page 73		Page 75
[1]	Oz	[1] Oz	0
[2]	swollen right heart from perioperative ischemia	ra diagnosing tamponade, but trends within the	
() (3)	might have almost no blood, and they're	^[2] chest tube output can be of use.	
[4]	physically just limited by the amount of space	(1) O: What kind of trends?	
(5)	in the heart.	\mathbf{A} : For example if a patient never	
(6)	0: Would you agree that following	bled from the chest tube their chest tube	
ניין	cardiac surgery there should be a high level of	output has been low in the OR and	
1/1	vigilance for signs and symptoms of cardiac	m postoperatively it would be upcommon for them	
[8]	temponede when accessing the patient in the	[8] postoperativery, it would be uncommon for them	
[9]	postoperative ICU2	[9] to tamponade, since the clest tubes usually	
[10]		of work early on after any open heart procedure.	
[11]	A. lagree.	1] Q. Would you agree that reduced	
[12]	Q. And would you agree that time is	2) chest tube dramage may in some instances be a	
[13]	of the essence in treating acute tamponade	3) sign of cardiac tamponade?	
[14]	after cardiac surgery?	[4] A: Yes.	
[15]	A: Tagree.	5] Q : And if blood clots occlude a	
[16]	Q: Can cardiac tamponade de a	6) chest tube and drainage backs up into the chest	
[17]	A: It can be	7) for a period of time, can that result in	
[18]	A: It can be.	⁸] cardiac tamponade in some instances?	
[19]	Q: And now could that occur?	9 A: Yes.	
[20]	A: II, for example, the brood that	20] Q: If the blood clots occluding the	
[21]	had clotted around the neart is displaced and	in chest tube are disiodged, would that be an	
[22]	removed by the chest tubes. Or if you opened	2) example of transient cardiac tamponade?	
[23]	one of the plural spaces and the blood can	3 A: It could be.	
[24]	escape into a plural space, then the tamponade	[4] Q: Doctor, what would be the	
[25]	can resolve fisell.	^{15]} prome or findings that would cause you to	
	Page 74	_	Page 76
[1]	Oz .		
[2]	Q: Now if cardiac tamponade is	2] suspect cardiac tamponade after cardiac	
[3]	present for a period of time and then the	3] surgery?	
[4]	tamponade is relieved by medical intervention,	A: There's some physical exam	
[5]	does cardiac function always immediately return	5] criteria that are apparent.	
[6]	to pretamponade levels?	6] The patients will often develop	
[7]	A: It generally does but not	ז a reddish, purplish hue of their head as the	
[8]	always.	a) head engorges with blood because of the	
[9]	These patients are often having	9] tamponade.	
[10]	multiple things done to them at the same time.	oj They will develop what's called	
[11]	So they may not look perfect after you're done.	1] a pulses paradoxicus, which is a change in	
[12]	Q: What type of things are you	2] blood pressure between when you inhale and	
[13]	reterring to, Doctor?	3) exhale.	
[14]	A: For example, these patients	And this can be apparent in	
[15]	often get a fair amount of fluid to treat them.	5) patients on a ventilator who when they get air	
[16]	Or likely cause for their hypotension, which is	⁶] pushed into them by the ventilator will have	
[17]	vasodilation of their systemic circulation.	7) further compression of the heart and it will	
[18]	So they often have a lot of	s reflect in that $-$ in a reduction of blood	
[19]	extra fluid within their vascular tree and that	9) pressure for those periods.	
[20]	can leave you with an elevated central venous	oj There are some additional	
[21]			
• •	pressure, even after you relief the tamponade.	1) studies that have been argued to be of benefit	
[22]	Q: Would you agree that the amount	1] studies that have been argued to be of benefit 2] in the literature, but most clinicians	
[22] [23]	Q: Would you agree that the amount of chest tube drainage is not a primary factor	 1) studies that have been argued to be of benefit 2) in the literature, but most clinicians 3) recognize that the only real way you can 	
[22] [23] [24]	Q: Would you agree that the amount of chest tube drainage is not a primary factor in diagnosing cardiac tamponade?	 studies that have been argued to be of benefit in the literature, but most clinicians recognize that the only real way you can diagnose tamponade, if you really think that's 	

ţ

		Page 77			Page 79
[1]	Oz		[1]	Oz	
[2]	chest.		[2]	no tamponade.	
[3]	Q: We've already talked about		[3]	Or a patient who has heart	
[4]	tachycardia may be seen with cardiac tamponade.		[4]	failure.	
[5]	What about hemodynamic		151	0: And when you are coming to a	
[6]	parameters? Any changes in hemodynamic		[6]	clinical diagnosis of cardiac tamponade, the	
[7]	parameters that may be consistent with or may		171	things that we just talked about do they all	
[8]	add to the suggestion of cardiac tamponade?		(81	have to be present before cardiac tamponade can	
[9]	A: If you have an equalization in		[0]	be diagnosed?	
[10]	the left and right side pressures on		101	Δ · No	
[11]	catheterization, which is difficult to do in an		[14]	0: And Doctor would another sign	
[12]	ICU setting, that is one of the signs that we		1121	that would be consistent with cardiac tamponade	
[13]	look at.		(12)	be the gradual increasing requirements for	
[1-2]	That is more for chronic		[10]	inotrons or pressor support?	
(15)	tamponade not the area of questions that you		(14)	A : This is something that is seen	
(16)	wanted me to pursue		[15] [16]	with patients with tamponade but in many other	
1101	For this particular case we		[10]	conditions as well	
[17]	would look at central venous pressure as an		117	O: So Doctor how do you actually	
[10]	index of whether or not we have inhibition of		[18]	diagnose cardiac tamponade in a postoperative	
[20]	blood flowing through the heart		[10]	cardiothoracic patient?	
(21)	0: What do you look at in		[20]	A: Beside the physical exam issues	
[22]	particular with the central venous pressure		[21] [22] [that we have discussed Llook at the chest	
[23]	that might suggest or be consistent with		[22] [23] [tube output for particular patients who had a	
[24]	tamponade after surgery?		[23]	large amount of chest tube output suddenly stop	
1951	A : A patient who has no real reason		[24]	and have no output for several hours	
<u>[_0]</u>		Daga 7.9	1		D
[1]		Page 78	[41]		Page 80
[1]	OZ	Page 78	[1]	Oz	Page 80
[1] [2]	OZ to have right heart failure who develops a CVP	Page 78	[1] [2]	<i>Oz</i> I look at the central venous	Page 80
[1] [2] [3]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be	Page 78	[1] [2] [3]]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more then 20 and whether in addition to that finding	Page 80
[1] [2] [3] [4]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about.	Page 78	[1] [2] [3]] [4] 1	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding	Page 80
[1] [2] [3] [4] [5]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output would that he consistent with	Page 78	[1] [2] [3]] [4] ¹ [5] ¹	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index.	Page 80
[1] [2] [3] [4] [5] [6]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade?	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure	Page 80
[1] [2] [3] [4] [5] [6] [7]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade?	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure.	Page 80
[1] [2] [3] [4] [5] [6] [7] [8]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon.	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation	Page 80
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 9	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to each the types out are if I app	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has.	Page 78	 [1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 4 10] 4 	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac	Page 78	 [1] [2] [3]] [4] 1 [5] 1 [6] [7] 3 [8] [9] 1 [11] 3 	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic	Page 80
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 9 (0] 9 11] 3 12] 3	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings,I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating more for recursion	Page 80
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more	Page 78	 [1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [6] [7] 3 [8] [9] 4 [10] 4 [11] 5 [12] 5 [13] 1 	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration.	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q : How about falling cardiac output, would that be consistent with tamponade? A : Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more	Page 78	 [1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [6] [7] 3 [8] [9] 9 [10] 9 [11] 5 [12] 1 [13] 1 [14] 	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common.	Page 78	 [1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 9 10] 9 11] 5 [15] 1 	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients?	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 5 [8] [9] 9 [10] 9 [11] 9 [12] 5 [13] 1 [14] 15]] 16]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained follows within the institution who are	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q : How about falling cardiac output, would that be consistent with tamponade? A : Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A : Hypotension is a fairly late manifestation of tamponade but it can occur as	Page 78	[1] [2] [3]] [4] 1 [5] ⁷ [6] [7] 3 [6] [7] 3 [10] 1 [2] 3 [11] 3 [12] 1 [12]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are hare avery minute of avery day, and they 're	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 9 [10] 9 [11] 1 [8] 1 [15]] [16] [17] 1 [18] 1 [18] 1	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're your well againped to take back	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. O: How about enlarged cardiac	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [6] [7] 3 [6] [7] 3 [6] [7] 3 [7] 3 [6] 11] 9 [7] 1 [19] 7	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. Q: How about enlarged cardiac contour on a cheet y ray is that sometimes	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 5 [6] [7] 5 [6] [7] 7 [6] [7] 7 [10] 1 [10] 1	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are people who have had often a decade of training in the field of support, and so they take the	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. Q: How about enlarged cardiac contour on a chest x-ray, is that sometimes sean with cardiac tamponade?	Page 78	[1] [2] [3]] [4]1 [5] [7]3 [6] [7]3 [6] [7]3 [6] [7]3 [1]3 [1]3 [1]3 [1]3 [1]3 [1]3 [1]3 [1	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are people who have had often a decade of training in the field of surgery, and so they take the patients back	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. Q: How about enlarged cardiac contour on a chest x-ray, is that sometimes seen with cardiac tamponade? A: It is comatimes seen with	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [8] [9] 9 [10] 9 [11] 9 [12] 3 [13] 1 [14] [15]] [16] 1 [17] 1 [18]] [19] 7 [20]] [21] 1 [22]]	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are people who have had often a decade of training in the field of surgery, and so they take the patients back.	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [12] [13] [14] [15] [16] [17] [18] [20] [21] [22] [23]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. Q: How about enlarged cardiac contour on a chest x-ray, is that sometimes seen with cardiac tamponade? A: It is sometimes seen with cardiac tamponade. It is more often seen with	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 3 [6] [7] 3 [7] 3	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always.We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are people who have had often a decade of training in the field of surgery, and so they take the patients back. I'malways alerted before they	Page 80
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [15] [16] [17] [18] [20] [21] [22] [23] [24]	OZ to have right heart failure who develops a CVP above 20 will be the kind of patient I would be concerned about. Q: How about falling cardiac output, would that be consistent with tamponade? A: Tamponade is a real chameleon. It can be involved in almost any problem the patient has. So although falling cardiac output is clearly an area that, or finding that you can associate with tamponade, there are many other explanations for that which are more common. Q: How about hypotension? A: Hypotension is a fairly late manifestation of tamponade, but it can occur as well. Q: How about enlarged cardiac contour on a chest x-ray, is that sometimes seen with cardiac tamponade? A: It is sometimes seen with cardiac tamponade. It is more often seen with a patient who has blood around their heart but	Page 78	[1] [2] [3]] [4] 1 [5] 7 [6] [7] 5 [6] [7] 5 [6] [7] 7 [6] [7] 7 [10] 1 [10] 1	<i>Oz</i> I look at the central venous pressure to identify whether or not it's more than 20 and whether in addition to that finding we have a drop in our cardiac index. And usually associated with that a reduction of blood pressure. And if I find that constellation of findings, I don't do any more tests, I will either try to suck the tubes out, see if I can stabilize the patient with fluids and inotropic support, and if I can't, then I return them to the operating room for reexploration. Q: Is that something that you personally do on your patients? A: Not always. We have very well trained fellows within the institution who are here every minute of every day, and they're very well equipped to take back — these are people who have had often a decade of training in the field of surgery, and so they take the patients back. I'malways alerted before they go back, and I'm kept aware of what's going on while they're in the concerting rear	Page 80

_		·	·
	Page 81		Page 83
[1]	Oz		i uge oo
rcı	If they need my assistance I	²¹ me as the policy in your unit in regard to	
[3]	come in and if they don't then they will do	^[2] ne as the poney in your unit in regard to	
[4]	the whole operation.	^[6] did that particular policy go into effect?	
(6)	O: But if they go down and see a	A: The word "policy" probably isn't	
[3] [6]	nation that they think needs to go back to	(5) A. The word poncy probably isn't	
[0]	surgery they make a phone call to you and at	a decision on the part of the surgical staff to	
1/1	least let you know what's going on?	[7] decision on the part of the surgical start to	
[0]	A: Ves they do	[8] not ask for these echoes when the issue of	
[9]	A. Tes, mey uo. 0: Dector would you agree that the	g tamponade is raised and do not give much	
[10]	information provided by an echocardiogram is	of credence to observations made. Echoes nappen	
[11]	useful to the physician in amining at a	1) to be done when we renot aware.	
[12]	diagnosis of cordina temponodo?	[2] Q. And, again, 1 masking you as to	
[13]	A: We have accord acting	3) when that decision or pattern of practice came	
[14]	A: we have ceased getting	4] into effect?	
[15]	echocardiograms, and I repeat, we no longer get	A: It sbeen a trend for us for at	
[16]	the second decision of	6] least the last five years.	
[17]	tamponade because they have been misleading to	7 And came into being because of	
[18]	us so onen.	a) the increasing number of mechanical heart	
[19]	Q. And why is that:	9) patients we were doing.	
[20]	A. Decause the echocaldiogram	^{20]} So it sprobably around 1996, in	
[21]	usually is of a minied quality in a patient	in that range, 97.1 hat's when we were doing a	
[22]	It will frequently show what	²] lot of mechanical devices for the first time.	
[23]	it will frequently show what	[3] Q: What you're describing for me is	
[24]	appears to be a little bit of clot around the	²⁴ you were getting some false negatives from the	
[25]	heart, because the clot that's causing the		
	Page 82		Page 84
01			
[2]	damage is actually on the backside of the	2] A: Correct.	
[3]	neart or at least in a view that can the seen	^{3]} Q: You weren't having a problem	
[4]	So we've had numerous asses	4] with false positives in which there were echo	
[5]	So we ve had humerous cases,	5] correlates of tamponade that turned out not to	
[6]	sometimes catastrophic cases, where we were	6) be tamponade, correct?	
[7]	there was no tamponade and in fact	A: Generally speaking, correct.	
[8]	So the training of this	⁸] We did have cases where we were	
[9]	so the training at this	9) assured there was lots of blood around the	
[10]	nistitution is for acute tamponade	of neart and when we got in there wash t.	
[11]	Or Dester you would agree though	1] And that was usually because the	
[12]	Q. Doctor, you would agree, mough,	2) lungs were next to the heart and the	
[13]	indications of cardiac tamponada, correct?	3) pericardium was thickened. A variety of	
[14]	A: Abcolutely And I find tham to	4) different reasons but —	
[15]	A. Absolutery. And I find them to be more valuable late after surgery to diagnose	5] Q. were you finding that the	
[10]	temponedes that are more slowly accumulating in	6) echocardiograms were showing correlates of	
[17]	nature	7) tamponade but when you got in there was no	
[10]	0: And when did you — when did —	by tamponaue:	
[100]	vou're speaking of what's being done at	y A. we had some index case of that	
[20]	Columbia When did you arrive at this decision	u_j but that was not the major $-\pi was - \pi syou$	
[20]	that you would not be doing echoes on patients?	is stated earlier, the major concern was the	
[22]	Δ : We do echoes on natients but	z_1 opposite, but we did have that — we have that z_2 episode as well	
[24]	don't do it looking for tamponade	$a_1 = 0$. Doctor what are the echo	
()		m completes of condicatemponed of	
(251	U: Well, what you just described to	1 51 COFFEIALES OF CARCHAC TAMDONAGE /	

	Page 85			Page 87
[1]	Oz	[1]	Oz	-
[2]	A: Usually you will see fluid	[2]	cardiac surgery chest film, would you agree it	
[3]	around the heart, evidence of a compression of	[3]	should heighten the concern for cardiac	
[4]	the right ventricle. Sometimes in late	[4]	tamponade?	
[5]	tamponade compression of the left ventricle.	151	A: It's not a matter of disagreeing	
[6]	Q: Do you see some interventricular	[6]	with the comment, but it's such a ubiquitous	
[7]	septum displacement?		finding I no longer pay any attention to it.	
[8]	A: You can, although that's	101	O: How about the patient is	
[9]	frequently seen with univentricular failures as	[9]	hemodynamically unstable and then there is	
[10]	well so it becomes a less reliable index for	[10]	mediastinal widening seen on a chest f i i	
[11]	us.	[11]	would that raise the concern for tamponade?	
[12]	Q: Can there be some dilation of	[12]	A: It would.	
[13]	the inferior vena cava?	1131	Q : Does hypovolemia tend to mask	
[14]	A: Yes, if you have a highly	1141	some of the typical hemodynamic trends seen in	
[15]	trained echo technician. because that's who	151	cardiac tamponade?	
[16]	does these echoes in the middle of the night,	161	A: Hypovolemia?	
[17]	then you look at the hepatic veins they will	17	0: Yes.	
[18]	often comment on that.	181	A: Hypovolemia will make the	
[19]	But you already know that from	19]	patient much less stable in that setting.	
[20]	the CVP. So they are telling you data that you	201	O: Would it mask any of the things	
[21]	already know.	21]	that you as a clinician would look for to	
[22]	Q: In a postoperative ICU at	22]	diagnose tamponade?	
[23]	Columbia, how long does it take to have a	231	A: It would influence the central	
[24]	transesophageal echo done if the physician	24]	venous pressure.	
[25]	feels it's needed, how long does it take to	251	Q: In what ways?	
	•		•	
	Page 86	1		Page 88
[1]	Page 86 Oz	[1]	Oz	Page 88
[1]	Page 86 Oz have it done?	[1]	<i>Oz</i> A: If you're hypovolemic you're CVP	Page 88
[1] [2] [3]	Page 86 <i>Oz</i> have it done? A: If we have physicians like the	[1] [2] [3]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower	Page 88
[1] [2] [3] [4]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can	[1] [2] [3] [4]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were	Page 88
[1] [2] [3] [4] [5]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually.	[1] [2] [3] [4] [5]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded.	Page 88
[1] [2] [3] [4] [5]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and	[1] [2] [3] [4] [5] [6]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be	Page 88
[1] [2] [3] [4] [5] [6] [7]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take	[1] [2] [3] [4] [5] [6] [7]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were	Page 88
[1] [2] [3] [4] [5] [6] [7] [8]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo	[1] [2] [3] [4] [5] [6] [7] [8]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded.	Page 88
[1] [2] [3] [4] [5] [6] [7] [8] [9]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done.	[1] [2] [3] [4] [5] [6] [7] [8] [9]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i> : If a cardiothoracic surgery	Page 88
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist	[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i> : If a cardiothoracic surgery patient develops cardiac tamponade in the first	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes?	[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i> : If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it'slater in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an	(1) (2) (3) (4) (5) (6) (7) (8) (9) (9) 10) 11] 12]	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i> : If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention?	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there.	(1) (2) (3) (4) (5) (6) (7) (8) (9) (9) 10) 11) 12] 12] 13)	<i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i> : If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes.	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14]	 Dz A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. Q: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 14]	 <i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i>: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [16] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it'slater in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16]	 Oz A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. Q: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab.	[1] [2] [3] [4] [5] [6] [7] [6] [7] [6] 10] 11] 12] 13] 14] 15] 16] 17]	 Oz A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. Q: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. 	Page 88
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 14] 15] 16] 17] 18]	 <i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i>: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you 	Page 88
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19]	 Oz A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. Q: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you open their chest at the bedside. But that 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it typically take to complete a transesophageal	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20]	 Oz A: If you're hypovolemic you're CVP will	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it typically take to complete a transesophageal echo?	[1] [2] [3] [4] [5] [6] [7] [6] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21]	 <i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i>: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you open their chest at the bedside. But that introduces as whole series of potential postoperative complications including 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it'slater in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it typically take to complete a transesophageal echo? A: Fifteen minutes, from the moment	[1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21] 22]	 <i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i>: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you open their chest at the bedside. But that introduces as whole series of potential postoperative complications including infection. 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it typically take to complete a transesophageal echo? A: Fifteen minutes, from the moment you start.	[1] [2] [3] [4] [5] [6] [7] [8] [9] [0] [10] [11] [12] [13] [13] [13] [14] [15] [16] [17] [18] [17] [20] [21] [22] [23]	 <i>Oz</i> A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. <i>Q</i>: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you open their chest at the bedside. But that introduces as whole series of potential postoperative complications including infection. MS. TOSTI: Doctor, I want to 	Page 88
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	Page 86 Oz have it done? A: If we have physicians like the ICU attending in the ICU at that moment, we can get the echo within an hour. Usually. If it's later in the evening and there is no ICU attending in-house, it can take us probably closer to two hours to get an echo done. Q: So your ICU anesthesiologist doesn't perform echoes? A: He does but he doesn't have an echo machine there. So during the daytime we have to take the echoes from the OR and bring them over. At nighttime they come from the echo lab. Q: And if the equipment and a trained person's available, how long does it typically take to complete a transesophageal echo? A: Fifteen minutes, from the moment you start. Q: Now if a new finding of	[1] [2] [3] [4] [5] [6] [7] [6] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21] 22] 23] 24]	 Oz A: If you're hypovolemic you're CVP will — central venous pressure, will be lower than perhaps what it would be if you were tamponading and were adequately volume loaded. Your cardiac output will be lower than what it would be if you were adequately volume loaded. Q: If a cardiothoracic surgery patient develops cardiac tamponade in the first 12 hours after surgery, does treatment usually involve immediate surgical intervention? A: Usually, yes. Q: And is it usually considered an emergency situation? A: It depends on the patient's hemodynamic status. If it's a true emergency you open their chest at the bedside. But that introduces as whole series of potential postoperative complications including infection. MS. TOSTI: Doctor, I want to take a couple minute break right here 	Page 88

Page 89Page 99Page 99[1]Oz[1]Oz[2] about your report. So I would just[2] most common cardiac valve lesions in the United[3] ask you to take maybe five minutes or[3] States?[4] so and then we'll come back. Okay?[4] A: It is.[5] MR. JACKSON: Jeanne, how much[6] Q: And if there is no other[6] longer? Is it just the report or do[7] rate for people who undergo replacement[7] you have more?[7] rate for people who undergo replacement[8] more here.[9] population after surgery?[10] MR. JACKSON: What does that[10] A: It gets close to the general[11] mean?[11] population. But if patients have severe left[12] what the Doctor is going to be[3] muscle, which is usually associated with severe[13] what the Doctor is going to be[3] muscle, which is usually associated with severe[14] haffway through right now.[6] O: Does it approach normal survival.[15] halfway through right now.[7] rates?[16] halfway through right now.[9] A: It gets close to it, but[17] THE WITNESS: Is the five-minute[7] rates?[18] MS. TOSTI: For me.[9] A: It gets close to it, but[19] MS. TOSTI: For me.[9] A: It gets close to it, but[10] MS. TOSTI: For me.[9] A: It gets close to it, but[10] MR. JACKSON: Jeanne, before you[1] what the probably die twice as frequently.[11] what the Doctor is going to be[1] numeric strenges, then they never reach the[13] what the Doctor is going to be[3] muscle, which is usually associated with se	e 91
11121312about your report. So I would just[2] most common cardiac valve lesions in the United13ask you to take maybe five minutes or[3] States?14so and then we'll come back. Okay?[4] A: It is.15MR. JACKSON: Jeanne, how much[5] Q: And if there is no other16longer? Is it just the report or do[6] underlying medical problem, does the survival17you have more?[7] rate for people who undergo replacement18more here.[9] population after surgery?19MR. JACKSON: What does that[9] A: It gets close to the general19more here.[9] population. But if patients have severe left19MS. TOSTI: Well, I don't know[2] ventricular hypertrophy or thickening of the19what the Doctor is going to be[3] numsle, which is usually associated with severe14answering here, but I still have quite[4] aortic stenosis, then they never reach the19halfway through right now.[6] Q: Does it approach normal survival17THE WITNESS: Is the five-minute[7] rates?18bit more of or you?[8] A It gets close to it, but19MS. TOSTI: For me.[9] approach is a dangerous term because I would10MS. TOSTI: For me.[9] approach is a dangerous term because I would10MS. TOSTI: For me.[9] approach is a dangerous term because I would10MS. TOSTI: For me.[9] A It gets close to it, but11guarden for you?[1] A It gets close to it, but <td< th=""><th></th></td<>	
[2] about your report. So I would just[2] most common cardiac valve lesions in the United[3] ask you to take maybe five minutes or[4] so and then we'll come back. Okay?[5] MR. JACKSON: Jeanne, how much[6] longer? Is it just the report or do[6] underlying medical problem, does the survival[7] you have more?[7] rate for people who undergo replacement[8] MS. TOSTI: I have quite a bit[9] approach the survival rate for the general[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[10] A: It gets close to the general[11] mean?[11] population. But if patients have severe left[12] MS. TOSTI: Well, I don't know[2] muscle, which is usually associated with severe[14] awsering here, but I still have quite[3] normal survival.[15] a bit more. I'mprobably more than[4] oc for me.[16] halfway through right now.[5] Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute[7] rates?[18] MS. TOSTI: For me.[9] A: It gets close to it, but[19] MS. TOSTI: For me.[9] A: It gets close to it, but[10] MS. TOSTI: For me.[9] Witness: Okay. Thank you.[20] THE WITNESS: Okay. Thank you.[9] A: It gets close to it, but[21] MS. TACKSON: Jeanne, before you[9] WIt he baseline death rate is sort of low.	
[5] ask you to take maybe five minutes or[5] States?[4] so and then we'll come back. Okay?[6] A: It is.[5] MR. JACKSON: Jeanne, how much[6] underlying medical problem, does the survival[6] longer? Is it just the report or do[6] underlying medical problem, does the survival[7] you have more?[7] rate for people who undergo replacement[8] MS. TOSTI: I have quite a bit[9] approach the survival rate for the general[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[10] A: It gets close to the general[11] mean?[11] population. But if patients have severe left[12] MS. TOSTI: Well, I don't know[2] ventricular hypertrophy or thickening of the[13] the population rule of the survival.[6] Q: Does it approach normal survival.[14] halfway through right now.[6] Q: Does it approach normal survival[15] THE WITNESS: Is the five-minute[7] rates?[16] MS. TOSTI: For me.[9] A: It gets close to it, but[17] THE WITNESS: Okay. Thank you.[9] A: It gets close to it, but[18] MR. JACKSON: Jeanne, before you[9] MR. JACKSON: Jeanne, before you	
[4] so and then we'll come back. Okay?[4] A: It is.[5] MR. JACKSON: Jeanne, how much[5] Q: And if there is no other[6] longer? Is it just the report or do[6] underlying medical problem, does the survival[7] you have more?[7] rate for people who undergo replacement[8] MS. TOSTI: I have quite a bit[9] approach the survival rate for the general[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[10] A: It gets close to the general[11] mean?[11] population. But if patients have severe left[12] MS. TOSTI: Well, I don't know[2] ventricular hypertrophy or thickening of the[13] awering here, but I still have quite[4] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than[5] Q: Does it approach normal survival[16] MS. TOSTI: For me.[6] Q: Does it approach is a dangerous term because I would[16] MS. TOSTI: For me.[6] A: It gets close to it, but[17] THE WITNESS: Okay. Thank you.[9] A: It gets close to it, but[18] MR. JACKSON: Jeanne, before you[9] A: It gets close to it, but	
[5]MR. JACKSON: Jeanne, how much[5]Q: And if there is no other[6]longer? Is it just the report or do[6]underlying medical problem, does the survival[7]you have more?[7]rate for people who undergo replacement[8]MS. TOSTI: I have quite a bit[9]approach the survival rate for the general[9]more here.[9]population after surgery?[10]MR. JACKSON: What does that[9]population. But if patients have severe left[11]mean?[11]population. But if patients have severe left[12]MS. TOSTI: Well, I don't know[2]ventricular hypertrophy or thickening of the[13]answering here, but I still have quite[4]aortic stenosis, then they never reach the[14]answering here, I'mprobably more than[6]Q: Does it approach normal survival[16]halfway through right now.[6]Q: Does it approach normal survival[16]MS. TOSTI: For me.[9]A: It gets close to it, but[16]MS. TOSTI: For me.[9]A: It gets close to it, but[17]THE WITNESS: Okay. Thank you.[9]A: It gets close to it, but[20]THE WITNESS: Okay. Thank you.[9]But the baseline death rate is sort of low.	
[6] longer? Is it just the report or do[6] underlying medical problem, does the survival[7] you have more?[7] rate for people who undergo replacement[8] MS. TOSTI: I have quite a bit[9] approach the survival rate for the general[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[11] population. But if patients have severe left[11] mean?[12] ventricular hypertrophy or thickening of the[13] what the Doctor is going to be[3] muscle, which is usually associated with severe[14] answering here, but I still have quite[4] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than[6] Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute[7] rates?[18] break for me or for you?[8] A: It gets close to it, but[19] MS. TOSTI: For me.[9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.[9] break they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you[9] But the baseline death rate is sort of low.	
[7] you have more?[7] rate for people who undergo replacement[8] MS. TOSTI: I have quite a bit[9] approach the survival rate for the general[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[9] population. But if patients have severe left[11] mean?[12] MS. TOSTI: Well, I don't know[13] what the Doctor is going to be[3] muscle, which is usually associated with severe[14] answering here, but I still have quite[4] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than[6] Q: Does it approach normal survival[16] halfway through right now.[7] rates?[17] THE WITNESS: Is the five-minute[9] approach is a dangerous term because I would[19] MS. TOSTI: For me.[9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.[9] But the baseline death rate is sort of low.	
[8]MS. TOSTI: I have quite a bit[9]approach the survival rate for the general[9]more here.[9]population after surgery?[10]MR. JACKSON: What does that[9]A: It gets close to the general[11]mean?[11]population. But if patients have severe left[12]MS. TOSTI: Well, I don't know[2]ventricular hypertrophy or thickening of the[13]what the Doctor is going to be[3]muscle, which is usually associated with severe[14]answering here, but I still have quite[4]aortic stenosis, then they never reach the[15]a bit more. I'mprobably more than[5]normal survival.[16]halfway through right now.[6]Q: Does it approach normal survival[17]THE WITNESS: Is the five-minute7]rates?[18]break for me or for you?[3]A: It gets close to it, but[19]MS. TOSTI: For me.[9]approach is a dangerous term because I would[20]THE WITNESS: Okay. Thank you.[21]But the baseline death rate is sort of low.	
[9] more here.[9] population after surgery?[10] MR. JACKSON: What does that[10] A: It gets close to the general[11] mean?[11] population. But if patients have severe left[12] MS. TOSTI: Well, I don't know[12] ventricular hypertrophy or thickening of the[13] what the Doctor is going to be[13] muscle, which is usually associated with severe[14] answering here, but I still have quite[14] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than[5] normal survival.[16] halfway through right now.[6] Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute[7] rates?[18] break for me or for you?[8] A: It gets close to it, but[19] MS. TOSTI: For me.[9] approach is a dangerous term because I would[20] THE WITNESS: Okay.Thank you.[9] bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you[11] But the baseline death rate is sort of low.	
MR. JACKSON: What does thatIojA: It gets close to the general[11] mean?Iiij population. But if patients have severe left[12] MS. TOSTI: Well, I don't knowIvertricular hypertrophy or thickening of the[13] what the Doctor is going to beIvertricular hypertrophy or thickening of the[14] answering here, but I still have quiteIvertricular hypertrophy or thickening of the[15] a bit more. I'mprobably more thanIvertricular hypertrophy or thickening[16] halfway through right now.Ivertricular hypertrophy or thickening[17] THE WITNESS: Is the five-minuteIvertricular hypertrophy or thickening[18] break for me or for you?Ivertricular hypertrophy or thickening[19] MS. TOSTI: For me.Ivertricular hypertrophy or thickening[20] THE WITNESS: Okay. Thank you.Ivertricular hypertrophy or thickening of the[21] MR. JACKSON: Jeanne, before youIvertricular hypertrophy or thickening of the[21] MR. JACKSON: Jeanne, before youIvertricular hypertrophy or thickening of the	
[11] mean?[11] population. But if patients have severe left[12] MS. TOSTI: Well, I don't know[13] ventricular hypertrophy or thickening of the[13] what the Doctor is going to be[13] muscle, which is usually associated with severe[14] answering here, but I still have quite[14] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than[16] halfway through right now.[16] halfway through right now.[17] THE WITNESS: Is the five-minute[17] THE WITNESS: Is the five-minute[17] rates?[18] MS. TOSTI: For me.[19] MS. TOSTI: For me.[19] MS. TOSTI: For me.[19] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.[10] bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you[11] But the baseline death rate is sort of low.	
MS. TOSTI: Well, I don't know12) ventricular hypertrophy or thickening of the(13) what the Doctor is going to be13) muscle, which is usually associated with severe(14) answering here, but I still have quite14) aortic stenosis, then they never reach the(15) a bit more. I'mprobably more than5) normal survival.(16) halfway through right now.6)Q: Does it approach normal survival(17) THE WITNESS: Is the five-minute7) rates?(18) break for me or for you?8)A: It gets close to it, but(19) MS. TOSTI: For me.9) approach is a dangerous term because I would(20) THE WITNESS: Okay. Thank you.9) bet that they probably die twice as frequently.(21) MR. JACKSON: Jeanne, before you11) But the baseline death rate is sort of low.	
[13] what the Doctor is going to be13] muscle, which is usually associated with severe[14] answering here, but I still have quite14] aortic stenosis, then they never reach the[15] a bit more. I'mprobably more than5] normal survival.[16] halfway through right now.6] Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute7] rates?[18] MS. TOSTI: For me.9] A: It gets close to it, but[19] MS. TOSTI: For me.9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.9) bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you11] But the baseline death rate is sort of low.	
 answering here, but I still have quite a bit more. I'mprobably more than a bit more. I'mprobably more than b halfway through right now. THE WITNESS: Is the five-minute the five-minute the or for you? MS. TOSTI: For me. THE WITNESS: Okay. Thank you. MR. JACKSON: Jeanne, before you the mathematical state of the state of th	
[15] a bit more. I'mprobably more than5] normal survival.[16] halfway through right now.6] Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute7] rates?[18] break for me or for you?8] A: It gets close to it, but[19] MS. TOSTI: For me.9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.9] bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you9] But the baseline death rate is sort of low.	
[16] halfway through right now.6]Q: Does it approach normal survival[17] THE WITNESS: Is the five-minute7] rates?[18] break for me or for you?8]A: It gets close to it, but[19] MS. TOSTI: For me.9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.9) bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you11) But the baseline death rate is sort of low.	
THE WITNESS: Is the five-minute71 rates?[10] break for me or for you?81 A: It gets close to it, but[11] MS. TOSTI: For me.91 approach is a dangerous term because I would[120] THE WITNESS: Okay, Thank you.90 bet that they probably die twice as frequently.[121] MR. JACKSON: Jeanne, before you91 But the baseline death rate is sort of low.	
[18] break for me or for you?B]A: It gets close to it, but[19] MS. TOSTI: For me.9] approach is a dangerous term because I would[20] THE WITNESS: Okay. Thank you.9] bet that they probably die twice as frequently.[21] MR. JACKSON: Jeanne, before you9] But the baseline death rate is sort of low.	
MS. TOSTI: For me.9] approach is a dangerous term because I would[20]THE WITNESS: Okay. Thank you.9) bet that they probably die twice as frequently.[21]MR. JACKSON: Jeanne, before you9) But the baseline death rate is sort of low.	
THE WITNESS: Okay, Thank you.10bet that they probably die twice as frequently.[21]MR. JACKSON: Jeanne, before you11But the baseline death rate is sort of low.	
MR. JACKSON: Jeanne, before you II But the baseline death rate is sort of low.	
[22] break, I have the CV laying here. Why So it's not that it's a high	
[23] don't we have it marked as Exhibit 5 [23] death rate necessarily, but it is significantly	
[24] and I'llattach it. I'llget you a [34] more than the average patient or average	
25] copy also.	
Page 90 Pag	e 92
13 Oz 11 Oz	
[2] MS. TOSTI: That sounds good. [2] Q: Doctor, would you agree that	
[3] MR. JACKSON: We'llhave a copy [3] it's very important for a medical expert to be	
[4] attached to the transcript. [4] unbiased when reviewing and rendering an	
[5] MS. TOSTI: Okay, I'llbe back [5] opinion in a medical legal matter?	
[6] in five minutes. [6] A: Of course.	
THE WITNESS: Should we leave 7 Q: Now, you have before you, I	
(8)the phone open?8)believe, what has been marked as Plaintiff's	
[9] MR. JACKSON: Go ahead and leave 9] Exhibit 1, which I think you have identified as	
(10) it open.of your report in this case; is that correct?	
[11]THE VIDEO OPERATOR: The time is1]A: That's correct.	
[12] 4:25 p.m., we're off the record. Q : And that's a letter that you	
(Whereupon, Curriculum Vitae of 3) wrote to Mr. Jackson dated November 19th, 1999,	
[14] Mehmet C. Oz, M.D., updated March 29,4] correct?	
[15] 2002, was marked as Plaintiff's 5] A: That's correct.	
[16] Exhibit 5 for identification, as of [1] Q: Was this the only report that	
[17] this date.) 7] you provided to defense counsel?	
(18) (Recesstaken) THE VIDEO OPEDATOR: We are head	
[19] THE VIDEO OPERATOR: we are back 9] yes.	
[20] on the record, the time is 4:45 p.m. $[0]$ Q: And tell me what the assignment	
BY MS. 10511: 1] was that you were given relative to this case?	
2] Q. Doctor, we regoing get to your [2] A: It was to decide whether the	
as a questions for you	
4] U: And does your report of Is a ortic stenosis one of the	

ş

		Page 93			Page 95
[1]	oz		[1]	Oz	0
[2]	that you currently hold concerning this case?		[2]	correct?	
[3]	A: I believe so, yes.		[3]	A: That's correct.	
[4]	Q: Do you have any corrections that		[4]	Q: Did the fact that you consider	
[5]	you want to make to your report before we get		[5]	Cleveland Clinic to be a world leader in	
[6]	started?		[6]	minimally invasive operations and that they	
[7]	A: I noticed while rereading it		7	have numerous publications and peer review	
[8]	today I had one or two typographic errors,		[8]	articles influence your opinions in this case	
[9]	tense was wrong and one verb, but these are not		[9]	inanyway?	
[10]	substantive,I don't believe.		101	A: I don't believe this case	
[11]	Q: Do you intend to do any		[11]	revolved around whether the minimally invasive	
[12]	additional work or review any additional		121	operation was appropriate or not. In fact it	
[13]	materials in this case before the time of		13]	seemed to me the critical issue was whether his	
(14]	trial?		14]	postoperative management was appropriate.	
[15]	A: I was not planning on it. It		151	So I don't think this is a	
[16]	would probably be worthwhile to see the nurses'		16]	critical point for my review. It happens to be	
[17]	depositions, but nothing else.		17]	a true statement that they were well versed in	
[18]	Q: In your opinion was James Long		18]	the management and performance of patients who	
[19]	an appropriate candidate for the type of		19]	were getting minimally invasive operations.	
[20]	minimally invasive valve replacement surgery		201	Q: Did your opinion of the	
[21]	that he underwent?		21)	Cleveland Clinic's expertise in this area in	
[22]	A: I believe so, yes.		22]	any way influence your opinions as to whether	
[23]	Q: Now in your report I believe at		23]	Cleveland Clinic met the standard of care	
[24]	paragraph 3 it says, in regard to the Cleveland		24]	postoperatively for this patient?	
[25]	Clinic that, "ThisCenter is world leader in		25]	A: Absolutely not. I based that on	
		Page 94			Page 96
[1]	Oz	Page 94	[1]	Oz	Page 96
[1] [2]	<i>Oz</i> minimally invasive operations and has numerous	Page 94	[1] [2]	<i>Oz</i> the hard data provided me, particularly in the	Page 96
[1] [2] [3]	<i>Oz</i> minimally invasive operations and has numerous publications and peer review journals outlining	Page 94	[1] [2] [3]	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet.	Page 96
[1] [2] [3] [4]	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results."	Page 94	[1] [2] [3] [4]	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an	Page 96
[1] [2] [3] [4] [5]	<i>Oz</i> minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included	Page 94	[1] [2] [3] [4]	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with	Page 96
[1] [2] [3] [4] [5] [6]	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report?	Page 94	[1] [2] [3] [4] [5] [6]	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it?	Page 96
 [1] [2] [3] [4] [5] [6] [7] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive	Page 94	[1] [2] [3] [4] [5] [6] [7]	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection.	Page 96
[1] [2] [3] [4] [5] [6] [7] [8]	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer.	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it.	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena.	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate.	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 	Oz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [16] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations?	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [12] [13] [14] [15] [16] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation,	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Oz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before	Page 94	 [1] [2] [4] [5] [6] [7] [8] [9] [10] [12] [13] [14] [15] [16] [17] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed.	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [12] [13] [14] [15] [16] [17] [18] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct?	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [10] [12] [13] [14] [15] [16] [17] [18] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely.	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don'thave any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line of the fourth paragraph. Should have been	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely. Q: What is your understanding as to	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don'thave any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line of the fourth paragraph. Should have been "been".	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely. Q: What is your understanding as to the cause of bleeding during James Long's first	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don'thave any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in ninmally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line of the fourth paragraph. Should have been "been".	Page 94	 [1] [2] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely. Q: What is your understanding as to the cause of bleeding during James Long's first surgery when James Long had to be placed back	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in minimally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line of the fourth paragraph. Should have been "been".	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21] 22] 23] 	<i>Oz</i> the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely. Q: What is your understanding as to the cause of bleeding during James Long's first surgery when James Long had to be placed back on cardiopulmonary bypass?	Page 96
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	Dz minimally invasive operations and has numerous publications and peer review journals outlining their superb results." Can you tell me why you included that statement in your report? A: I think minimally invasive surgery is used as an advertisement by many centers, and I wanted to make it clear this was not a center that was hyping an operation that they do rarely and don't have any real expertise in. In fact they had been demonstrated leaders in the arena. Q: And did you have a source for your comment that this was the world leader in inminally invasive operations? A: The lack of the word "a"before world leader is one of the two typos I noticed. The other being the word "be" in the sixth line of the fourth paragraph. Should have been "been". Q: And prior to the time that you rendered opinions in this case, you had the opinion that Cleveland Clinic was a world.	Page 94	 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [12] [13] [14] [15] [16] [17] [18] [19] [21] [22] [22] [22] [22] [22] 	Dz the hard data provided me, particularly in the intensive care flow sheet. Q: If you were asked to act as an expert against Cleveland Clinic in a case with merits, would you do it? MR. JACKSON: Objection. Go ahead, Doctor, you can answer. A: If the case had merits and I had the time to do it, I would do it. I have acted on the plaintiff's side in the past when I thought it was appropriate. Q: And you would agree that regardless of Cleveland Clinic's reputation, Cleveland Clinic's reputation, Cleveland Clinic and its employee were required to meet the standard of care, correct? A: Absolutely. Q: What is your understanding as to the cause of bleeding during James Long's first surgery when James Long had to be placed back on cardiopulmonary bypass?	Page 96

	Page 97	Page	99
[1]	Oz	[1] OZ	
[2]	suture line of the homograph that was bleeding	[2] think about frequently.	
[3]	and that it had been repaired with a suture.	[3] Q : Is that an unusual occurrence to	
[4]	Q: And what was the likely cause of	[4] have the tissue pull — to have a stitch pull	
[5]	that bleeding?	[5] through the tissue after this type of surgery?	
[6]	A: When you do this operation you	[6] Is that something that is unusual?	
[7]	have to match two sites that don't ideally	A: Can you define unusual as a	
[8]	measure equal to each other. So you may have a	[8] percent? I'd say it probably happens in	
[9]	3, 4, 5-millimeter, sometimes sonometer	[9] 5 percent of cases.	
[10]	difference in the orifice of one hole that	In fact, there's a company	
[11]	needs to be matched to the tube that you're	1) called CryoLife which makes a product called	
[12]	putting on it. And so as you place your	2) BioGlue that is probably used for that exact	
[13]	sutures you need to make up that difference.	3) indication more than any other. And it is a	
[14]	And sometimes while making it up	4) synthetic material that is placed over the	
[15]	there's a discrepancy and sometimes the tissues	5] suture line, so if it does happen to pull	
[16]	don't come together as you like them and they	6) through, this material can fill in the gaps so	
[17]	can have bleeding.	7] there's no bleeding.	
[18]	Q : Do you recall what Dr. Cosgrove	BI So it's at least common enough	
[19]	said he thought occurred in regard to the	g that a company has made money selling a product	
[20]	surgery?	o to treat it.	
[21]	A: I never discussed with	Q: Would there be a heightened	
[22]	Dr. Cosgrove, and in the operative note I just	2 concern for postoperative bleeding in a patient	
[23]	have what the official document said.	³ who has experienced a stitch rupture or pull	
[24]	Q : But you read his deposition,	^{14]} through?	
[25]	correct?	^{15]} A: Well, the concern about	
	Page 98	Page 1	00
[1]	Oz	[1] OZ	
[2]	A: I did, but I don't recall what	[2] postoperative bleeding is not so much related	
[3]	he said regarding that specific operation.	(3) to whether there was a suture that pulled	
[4]	Q: Okay. You don't recall him	4 through, but whether you had trouble f i g it.	
[5]	saying anything about a stitch rupturing or	51 So while fixing that you made	

	[4] through, but whether you had trouble 1 1 g h
[5] saying anything about a stitch rupturing or	_{5]} So while fixing that you made
[6] pulling through during the first surgery as	[6] some place else bleed, or your impression was
[7] being the Likely cause of that initial bleed?	[7] the whole thing was falling apart, then you're
[8] A: I don't recall that, but that is	B] correct in assuming there would be some
Image: style="text-align: center;">image: style="text-align: center;"/>image: style="	(9) heightened suspicion.
[10] The tissues can sometimes be a	ol But if the patient's hole was
[11] bit friable, and if you pull on the suture,	1] fixed, whatever the cause, whether pulled
[12] which is a thin string, it can act like a piano	2) through or the suture broke or you didn't
[13] string and pull through tissue.	3) oppose the tissues ideally, and you're able to
[14] Q: Has that ever happened to you	4] deal with it in a way that results in a hourly
[15] during an aortic valve replacement surgery	5] chest tube output that is low, by that I mean
[16] where the suture pulled through the tissue?	6] less than 200 to 300 ccs for the first hour or
[17] A: Absolutely.	7] two, then I would not have a high degree of
[18] Q : How many times have you seen	8] concern.
[19] that happen?	g Q: Would it have been prudent for
[20] A : I had it happen once this year.	oj Dr. Cosgrove to tell the medical providers
[21] I don't keep track of those types of things.	giving care to James Long in the postoperative
[22] It is a continuously occurring	^{12]} ICU that this occurred and that he should be
[23] concern, because the aortic tissue and	(3) watched for possible signs of additional

[23]	concern,	because	the	aortic	tissue	and	
------	----------	---------	-----	--------	--------	-----	--

- [24] particularly with the homograph, the root of
- [25] aorta is friable, and so it is something we

:5]

^{24]} bleeding?

A: If it was my case, I would not

1

(1) Qz (1) Qz (2) have done that, (3) have done that, <t< th=""><th></th><th></th><th>Page 101</th><th></th><th></th><th>Page 103</th></t<>			Page 101			Page 103
	[1]	Oz		[1]	OZ	
psDecause when you tell people topsWhat in regard to the CVP (a) treat your patient differently, they vary from(b) work so well that if syour normal treatment(c) minutes to you that he had moderate right(c) work so well that if syour normal treatment(c) minutes to you that he had moderate right(c) minutes to you that he had moderate right(c) work so well that if syour normal treatment(c) minutes to you to the operating room after this(c) minutes to you that he had moderate right(c) works because you alter your regiment.(c) minutes to you alter your regiment.(c) moutes that if is moderate(c) works because you alter your regiment.(c) moutes that if is moderate(c) maintaining it at 17, but if is neaks up from(c) moutes that if the patient that norming he(c) maintaining it at 17, but if is neaks up from(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that if the patient's(c) maintaining it at 17, but if is moderate(c) moutes that	[2]	have done that.		[2]	of 17-millimeters in mercury."	
[a] treat your patient differently,they vary from[b] heard your patient differently, they vary from[c] indicates to you that he had moderate right[a] the normal treatment strategy that happens to[b] heard dysfunction?[c] work so well that it's your normal treatment[1] Strategy.[c] AL it think the average patient[c] coming out of the operating room after this[2] This is true whether you're[c] AL it think the average patient[c] coming out of the operating room after this[3] This is true whether you're[c] So 17 is not a crazily high[c] rooming out of the operating room after this[3] This is true whether you're[c] So 17 is not a crazily high[c] rooming out of the operating room after this[3] If they — if the surgeon were[c] patient would have.[c] patient would have.[3] If they — if the surgeon were[c] patient would have.[c] And you note that it's "moderate[4] or purboely kept the blood pressure very low for[c] fraght heart dysfunction".[c] And you note that it's "moderate[6] maintaining if at 17, but if its meaks up from[c] And you note that it's "moderate[7] and if you're deal with the[c] And you verside work to realing upundity[8] And if you're deal with the[c] was the dual of the aware.[9] And if you're deal with the[c] was it is the basis for saying[9] oper pretinent, in your opinion, then there is no[c] was the dual at the aware.[9] And if you're deal with the[c] was it is the basis for saying[9] oper pretinent, in your opinion, then there is no[c] that you are within striking range of what I <t< td=""><td>[3]</td><td>Because when you tell people to</td><td></td><td>[3]</td><td>What in regard to the CVP</td><td></td></t<>	[3]	Because when you tell people to		[3]	What in regard to the CVP	
g (a) hormal treatment strategy that happens to (b) heart dysfunction? (a) work so well that it'syour normal treatment (c) At think the average patient (c) strategy. (c) At think the average patient (c) a point that you 're (c) At think the average patient (c) a point that you want (c) operation would have a CVP that's in the 12 to (c) b the team to manage this patient (c) operation would have. (c) a sparately than the norm, the next morning he (c) and there 's no problem. (c) a sparately than the norm, the next morning he (c) And there 's no problem. (c) a point sing bleeding. And that could hur (c) And were 's no problem. (c) and you note that it's 'moderate (c) And were 's no problem. (c) and you note that it's 'moderate (c) And were 's no problem. (c) and you note that it's 'moderate (c) And were 's no problem. (c) and you note that it's 'moderate (c) And were 's no problem. (c) bledding and you have a concern about it, you (c) And were 's no problem. (c) bledding and you have a concern about it, you (c) And were 's no problem. (c) bledding and you have a stitch (c) And were 's no problem. (c) Doctor. if you 'we delive want (c) And ware within striking range of what I <	[4]	treat your patient differently, they vary from		[4]	indicates to you that he had moderate right	
[9] work so well that if 'syour normal treatment[9] A: Think the average patient[7] strategy.[7] coming out of the operating room after this[9] This is true whether you're[9] Origination would have a CVP that's in the 12 to[9] dealing with AVB patient that you want[9] So 17 is not a crazily high[10] do whose because you alter your regiment.[11] They — if the surgeon were[12] They — if the surgeon were[12] patient would have.[13] to the the team to manage this patient[14] And ther's is no problem with[14] separately than the norm, the next morning he[14] maintaining it at 17, but if it sneaks up from[16] may still be intubated, perhaps they would have[19] To 25, that's a problem.[16] may still be intubated, perhaps they would have[19] What is the basis for saying[17] refer theam of manage of the patient's[19] What is the basis for saying[18] A they are no firm numbers that[11] mimeters in any or view of the operating room and it's no[29] A they are out has a stich[20] Dealing and you have a concern about it, you[20] A they are out the tissue is friable.[21] the tart any are of firshabe.[21] a full the cause is because the[22] would call severe right heart dysfunction,[22] A they are an ethis patient[23] A that a new finding for[23] sense in messing up a very effective and[24] that.[24] sense in messing up a very effective and[26] At the cause is because the[26] Out through because the tissue is friable.[27] At the tart any control.[27] finble tissue was in that one spot.then it[28] A	[5]	the normal treatment strategy that happens to		[5]	heart dysfunction?	
79 strategy. (7) coming out of the operating room after this 91 dealing with AVP patient that you want (9) for ange. 101 yowrse because you alter your regiment. (9) So 17 is not a crazily high 101 yowrse because you alter your regiment. (9) So 17 is not a crazily high 102 worse because you alter your regiment. (9) So 17 is not a crazily high 103 worse because you alter your regiment. (9) So 17 is not a crazily high 103 worse because you alter your regiment. (9) And ther's no problem with 103 separately than the norm, the next morning he (9) C And you note that it's "moderate 103 for a crazing blecing, And that could have (9) C And you note that it's "moderate 104 go So 17 is noderate (7) The dead systemicotion". 104 bedding and you have a concern about it, you (9) What is the basis for saying 104 bedding and you have a stich (9) (17) for moderate and, in fact, 105 polent in the operating room and it's no (9) (17) for finitheard sysfunction". 10	[6]	work so well that it's your normal treatment		(6)	A: I think the average patient	
gThis is true whether you'reproduct of the second s	[7]	strategy.			coming out of the operating room after this	
[9] dealing with a VIP patient that you want[9] Is frange.(19) do worse because you aller your regiment.[9] They $=$ if the surgeon were(1) moder but it is higher than the average(19) do worse because you aller your regiment.(1) moder but it is higher than the average(2) patient would have.(10) do worse because you aller your regiment.(1) moder but it is higher than the average(2) patient would have.(10) do worse because you allow pressure very low for(1) france (1) france	[8]	This is true whether you're		(8)	operation would have a CVP that's in the 12 to	
(10) special care taking care of, because they often(10) worse because you alter your regiment.(11) number but it is higher than the average(11) do worse because you alter your regiment.(11) number but it is higher than the average(12) number but it is higher than the average(12) to fell the team to manage this patient(13) And there's no problem with(14) separately than the norm, the next morning he(14) And there's no problem with(15) maximizing it at 17, but if it senaks up from(14) To 25, that's a problem.(16) his kidney, maybe, or it would require use of(14) Mat is the basis for saying(16) his kidney, maybe, or it would require use of(17) right heart dysfunction".(19) his kidney, maybe, or it would require use of(19) At the patient's(19) becking and you have a concern about it, you(19) What is the basis for saying(19) problem in the operating room and it's no(19) Base and you have a stich(19) Q to roug opinion, then there is no(19) would call sever right heart(19) excessful system.(11) of(11) Ge(11) Ge(12) would patie use of is in the acase of isk that that can(19) would call sever right neart(10) current in the again, the only area of(11) Ge(11) finable then i's a possibility.(11) Ge(12) may not be.(12) At an approximation would heart(13) may not be.(11) Ge(14) max an the ond pray are of(11) Ge(15) mithere an increased risk that that can(12) At an approximation would heart(13) may not be.(13) may not be.(14) may appr	[9]	dealing with a VIP patient that you want		191	15 range.	
It is downed because you after your regiment.It is higher than the averageIf they if the surgeon wereIt haumber but it is higher than the averageIf they if the surgeon wereIt animetro that it is higher than the averageIf they if the surgeon wereIt animetro that it is higher than the averageIf they if the surgeon wereIt animetro that it is higher than the averageIf they if the surgeon wereIt animetro that it is higher than the averageIf they if the surgeon wereIt animetro that it is is moderateIf purposely kept the blood pressure very low forIf It animetro that it is moderateIf and you have a concern about it, youIf if is moderate and, in fact,If they animetro the operating room and it's noIf if is moderate and, in fact,If they anie the operating room and it's noIf that,If they anie the operating room and it's noIf they are ofIf they are of operating room and it's noIf they are are noIf they are of its suce is friable,If they are are inIf they are aning in the operating room and it's noIf they are are inIf they are aning in the operating room and it's noIf they are are in the operating room and it's noIf they are aning in the operating room and it's noIf they are are inIf they are aning in the operating room and it's noIf they are are inIf they are aning in a very effective andIf they are are inIf they are aning in the operating room and it's noIf they are are inIf they are aning in the operating room and it's noIf they are aning in </td <td>[10]</td> <td>special care taking care of, because they often</td> <td></td> <td>1101</td> <td>So 17 is not a crazily high</td> <td></td>	[10]	special care taking care of, because they often		1101	So 17 is not a crazily high	
ip: If they — if the surgeon were ip:	(11)	do worse because vou alter vour regiment.		(11)	number but it is higher than the average	
(1) patch Would have(14) separately than the norm, the next morning he(14) separately than the norm, the next morning he(15) may still be intubated, perhaps they would have(16) purposely kept the blood pressure very low for(17) fear of causing bleeding. And that could hurt(17) fear of causing bleeding. And that could hurt(18) fix didey, maybe, or it would require use of(19) drugs that can have other side effects.(19) bleeding and you have a concern about it, you(19) bleeding and you have a concern about it, you(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(19) bleeding and you have a concern about it, sou(11) bleeding and you have a concern about it, sou(11) bleeding and you have a concern about it, sou(11) bleeding and you have a soutch(11) bleeding and you have a stich(19) bleeding the tissue is frable,(11) successful system.(11) gle heat dystinction,(12) cle bleeding and you have a firshele,(13) successful system.(14) successful system.(15) cle bleeding and you avery effective and(15) successful system.(16) public heat dist that can(17) the cause is because the(18) corcur again?(19	(12)	If the v if the surgeon were		(12)	nation would have	
(i)Final action of the sector matrix is present with the sector matrix is in the control with the sector matrix is in the control with the sector matrix is in the sector matrix is interest interes	(13)	to tell the team to manage this patient		(12)	And there's no problem with	
101 optimizing intermining interminiation intermining interminiation interminiatinterminiatinterminiation interminiation interminiation i	[14]	separately than the norm the next morning he		[10]	maintaining it at 17 but if it speaks up from	
[16] mity statice inductor, permitting mity statice matrix [16] mity statice matrix [17] fear of causing bleeding. And that could hurt [17] fear of causing bleeding. And that could hurt [18] mity statice matrix [19] fraction (11) (11) (11) (11) (11) (11) (11) (11	(15)	may still be intubated perhaps they would have		[14]	17 to 25 that's a problem	
[16] Jeppeory acpt me to solve that it is place to the fail it is moderate [17] fear of casing bleeding. And that could hurt [18] Wat is the basis for saying [19] drugs that can have other side effects. [20] So I think if the patient's [21] bleeding and you have a concern about it, you [22] And if you'vedealt with the [24] problem in the operating room and it's no [24] problem in the operating room and it's no [24] problem in the operating room and it's no [26] longer pertinent to the postoperative care in [27] differentiate mild from moderate and, in fact, [28] oblic pertinent to the postoperative care in [29] occor, if you have a stitch [3] gue coccs, fully system. [3] Q. Doctor, if you have a stitch [3] poll through because the tissue is friable, [7] is if there an increased risk that that can [9] occur again? [9] octar again, the only area of [11] But again, the only area of [12] frable tissue by any not be. [13] may not be. [14] If in fact, it really wasn't [15] role of pressure suddenly skyrocketed to [16] wou torqued the aorta while looking around, or [17] how tonge acev planations would not need <	[10]	purposely kept the blood pressure very low for		[15]	• And you note that it's "moderate	
(1) fease of classing backing intervalue from the first of stating in the diverse in would require use of the phase for saying its is the basis for saying its is the basis for saying its is the basis for saying its is moderate and, in fact, is would be it the team and make them aware. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) So I think if the patient's (2) What can have other side effects. (2) And if you's vedealt with the (2) would vet to do a calculation of right (3) longer pertinent to the postoperative care in (3) Went (3) W	[10]	fear of causing bleeding And that could hurt		[16]	Q: And you note that it's moderate	
[16] mix Nature , introduction require use of regiment as opposed to mild? [16] mix Nature , introduction regiment as opposed to mild? [17] mix Nature , introduction regiment as opposed to mild? [18] mix Nature , introduction regiment as opposed to mild? [19] drugs that can have other side effects. [20] So I think if the patient's [21] bleeding and you have a concern about it, you [22] should tell the team and make them aware. [23] And if you've dealt with the [24] problem in the operating room and it's no [25] longer pertinent to the postoperative care in [26] Qt Qt Qt [27] this patient, in your opinion, then there is no [3] sense in messing up a very effective and [4] structers if you have a stitch [5] Q: Doctor, if you have a stitch [6] Q: Ulthrough because the tissue is friable. [7] isn'there an increased risk that that can [7] isn'there an increased risk that that can [8] A: If the cause is because the [9] out ray obe. [19] that gain, the only area of [11] that gain, the only area of [12] friable tissue but you pulled up on it hard or [13] may not be. [14] If, in fact, it rea	11/1	his kidney maybe or it would require use of			What is the basis for saving	
[10] diags that where there is notes that expression in the operating room and it's no [23] And if you've dealt with the [24] problem in the operating room and it's no [25] longer pertinent to the postoperative care in [26] Weight and the expression in the operating room and it's no [27] this patient, in your opinion, then there is no [29] A stift the raw opinion, then there is no [20] A stift the expression in the expressi	[10]	drugs that can have other side effects		[18]	it's moderate as opposed to mild?	
[20] Definition for the part of the	[19]	So I think if the patient's		[19]	At There are no firm numbers that	
[21] bickling and you have a concern and make them aware. [23] should tell the team and make them aware. [23] should tell the team and make them aware. [23] hourd tell the team and make them aware. [23] hourd tell the team and make them aware. [24] broblem in the operating room and it's no [25] longer pertinent to the postoperative care in [26] longer pertinent to the postoperative care in [27] bit a CVP of 17 is high enough [28] sould call severe right heart dysfunction, [29] pull through because the tissue is friable, [30] occur again? [31] or team increased risk that that can [32] or tagain,? [33] ray not be. [34] this friable tissue was in that one spot, then it [31] may not be. [32] trable tissue but you pulled up on it hard or [34] our ergensing up or the east while looking around, or [35] a Color, if you have a sitch [36] occur again? [39] occur again,? [30] occur again,? [31] may not be. [32] friable tissue was in that one spot, then it [31] may not be. [32] may not be. [34] our cat again,? [35] may not be. <t< td=""><td>[20]</td><td>bleeding and you have a concern about it you</td><td></td><td>[20]</td><td>A. There are no firm numbers that</td><td></td></t<>	[20]	bleeding and you have a concern about it you		[20]	A. There are no firm numbers that	
[23] Modif effort chain and where. [22] you have of uo a calculation of right [23] And if you've dealt with the [22] you have of uo a calculation of right [24] problem in the operating room and it's no [25] onger pertinent to the postoperative care in [25] But a CVP of 17 is high enough [25] longer pertinent to the postoperative care in [26] mathematic thematic thematic thematic train and it's no [26] mathematic train and it's no [26] And Very of postoperative care in [26] mathematic train and it's no [27] the postoperative care in [28] and CVP of 17 is high enough [27] this patient, in your opinion, then there is no [3] ense in messing up a very effective and [3] would call severe right heart dysfunction, [4] which is, I'd say, 23-25 range of millimeters [3] Q: Doctor, if you have a stitch [3] would call severe right heart dysfunction, [4] which is, I'd say, 23-25 range of millimeters [4] with using in the cause is because the [5] mercury. So that's why I termed it moderate. [6] Q: And was this a new finding for [7] isn'there an increased risk that that can [8] A: To have a CVP of 17? [9] Q: The moderate right heart [10] transport be. [9] Q: The moderate right neart [11] Is that a new finding. Not an [12] triable tissue was in that one spot, then it [13] uncommon fiding after an a aortic valve [14] fr, i	[21]	should tell the team and make them aware		[21]	vou have to do a calculation of right	
[23] Find in your recent with the spectrating room and it's no [24] problem in the operating room and it's no [25] longer pertinent to the postoperative care in [26] Wentriching stoke work to rearry quantify [26] problem in the operating room and it's no [26] Wentriching stoke work to rearry quantify [26] problem in the operating room and it's no [27] Wentriching stoke work to rearry quantify [26] problem in the operating room and it's no [28] Wentriching stoke work to rearry quantify [27] problem in the operating room and it's no [28] Wentriching stoke work to rearry quantify [28] Denger pertinent to the postoperative care in [29] Wentriching stoke work to rearry quantify [29] Denger pertinent to the postoperative care in [29] Wentriching stoke work to rearry quantify [29] Operative stoke work to rearry quantify [29] Wentriching stoke work to rearry quantify [20] The problem in the postoperative date operative care in [29] Wentriching stoke work to rearry quantify [20] Operative stoke work to rearry quantify [20] Wentriching stoke work to rearry quantify [20] Problem in the postoperative date and work is properative work to rearry quantify [20] Wentriching stoke work to rearry quantify [21] Introduction the postoperative date and port in the or [21] The case is because the [22] Wentriching stoke work to reary indicate in pour [22] Operative	[22]	And if you've dealt with the		[22]	you have to do a calculation of right	
[25] longer pertinent to the opstoperative care in [26] But a CVP of 17 is high enough Page 102 Date a CVP of 17 is high enough Oz [1] Of [26] this patient, in your opinion, then there is no [27] this patient, in your opinion, then there is no [28] that you are within striking range of what I [3] sense in messing up a very effective and [29] would call severe right heart dysfunction, [4] which is, I'd say, 23-25 range of millimeters [5] Q: Doctor, if you have a stitch [6] Q: And was this a new finding for [7] James Long? [8] occur again? [9] A: If the cause is because the [9] Q: The moderate right heart [10] tissue is friable, then it's a possibility. [11] But again, the only area of [12] friable tissue was in that one spot, then it [13] may not be. [14] If, in fact, it really wasn't [15] Q: Now, his preoperative [14] If, in fact, it really wasn't [15] Q: Now, his preoperative [16] echocardiogram that was done the day before [17] indicates that he had normal right ventricle [18] 200-millimeters in mercury and caused bleeding, [19] A: That's correct. [20] Q: Now, you indicate in your [21] A: Two thirds of stunned or injured	[23]	problem in the operating room and it's no		[23]	that	
Page 102 Page 102 Oz Page 102	[24]	problem in the operating room and it sho		[24]		
Oz(1)Of(2)(1)Of(3)sense in messing up a very effective and(3)(4)successful system.(3)(5)Q:Doctor, if you have a stitch(3)(6)pull through because the tissue is friable,(7)(7)isn'tthere an increased risk that that can(7)(8)occur again?(9)(9)A:If the cause is because the(10)tissue is friable, then it's a possibility.(10)(11)But again, the only area of(11)(12)friable tissue was in that one spot, then it(12)(13)may not be.(13)(14)If, in fact, it really wasn't(13)(15)friable tissue but you pulled up on it hard or(13)(14)Q2)Our aque dhe aorta while looking around, or(13)(14)Q20-millimeters in mercury and caused bleeding,(11)(12)than any of those explanations would not need(12)(13)torue postoperative bleeding.(14)(14)Q0-millimeters in mercury and caused bleeding.(14)(15)or postoperative bleeding.(14)(15)or postoperative bleeding.(14)(14)or postoperative bleeding.(14)(15)or postoperative bleeding.(19)(11)A: That's correct.(11)(12)New approximation would not need(12)(13)or postoperative bleeding.(13)(14)or postoperative bleed	(20)	longer pertinent to the postoperative care in		100.03	Dut o CVP of 17 is high anough	
[2] this patient, in your opinion, then there is no[3] that you are within striking range of what I[3] sense in messing up a very effective and[3] would call severe right heart dysfunction,[4] successful system.[4] which is, I'd say, 23-25 range of millimeters[5] Q: Doctor, if you have a stitch[5] mercury. So that's why I termed it moderate.[6] pull through because the tissue is friable,[6] Q: And was this a new finding for[7] isn't there an increased risk that that can[6] Q: And was this a new finding for[7] isn't there an increased risk that that can[6] Q: And was this a new finding for[7] isn't there an increased risk that that can[6] Q: The moderate right heart[9] A: If the cause is because the[9] Q: The moderate right heart[10] tissue is friable, then it's a possibility.[11] Is that a new finding for him?[12] friable tissue was in that one spot, then it[12] A: It was a new finding. Not an[13] may not be.[14] operation, But it was a new finding for him.[14] If, in fact, it really wasn't[15] Q: Now, his preoperative[16] you torqued the aorta while looking around, or[15] Q: Now, his preoperative[16] than any of those explanations would not need[17] indicates that he had normal right ventricle[18] than any of those explanations would not need[20] wou to vare postoperative bleeding.[19] Q: Now, you indicate in your[21] A: Two thirds of stunned or injured	[25]	longer pertinent to the postoperative care in	Page 102	[25]	But a CVP of 17 is high enough	
 [a) sense in messing up a very effective and [a) sense in messing up a very effective and [4] successful system. [5] Q: Doctor, if you have a stitch [6] pull through because the tissue is friable, [7] isn'tthere an increased risk that that can [8] occur again? [9] A: If the cause is because the [9] It is that a new finding for him? [9] A: If the cause is because the [9] Q: The moderate right heart [10] dysfunction that you are referring to. [11] Is that a new finding. Not an [13] uncommon fiding after an aortic valve [14] If, in fact, it really wasn't [15] friable tissue but you pulled up on it hard or [16] extra transformeters in mercury and caused bleeding, [17] the blood pressure suddenly skyrocketed to [18] over postoperative bleeding. [19] A: That's correct. [20] W: Now, you indicate in your [21] Now, you indicate in your 	[25]	longer pertinent to the postoperative care in <i>Oz</i>	Page 102	[25]	But a CVP of 17 is high enough	Page 104
 [4] successful system. [5] Q: Doctor, if you have a stitch [6] pull through because the tissue is friable, [7] isn't there an increased risk that that can [8] occur again? [9] A: If the cause is because the [10] tissue is friable, then it's a possibility. [11] But again, the only area of [12] friable tissue was in that one spot, then it [13] may not be. [14] If, in fact, it really wasn't [15] friable tissue but you pulled up on it hard or [16] you torqued the aorta while looking around, or [17] the blood pressure suddenly skyrocketed to [17] the blood pressure suddenly skyrocketed to [18] 20-millimeters in mercury and caused bleeding, [19] than any of those explanations would not need [20] wow, you indicate in your [21] O'Now, you indicate in your [22] A: Two thirds of stunned or injured 	[25]	<i>Oz</i> <i>Oz</i>	Page 102	[25]	But a CVP of 17 is high enough Of that you are within striking range of what I	Page 104
 (i) when solve a stream of the second stre	[25]	<i>Oz</i> <i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and	Page 102	[25] (1) (2)	But a CVP of 17 is high enough <i>OE</i> that you are within striking range of what I would call severe right heart dysfunction	Page 104
 (a) The transformation of the tissue is friable, (b) Interpretation of the tissue is friable, (c) The moderate right heart (c) dysfunction that you are referring to. (c) dysfunction	[25] [2] [3]	<i>Oz</i> <i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system.	Page 102	[25] [1] [2] [3]	<i>Of</i> that you are within striking range of what I would call severe right heart dysfunction, which is I'd say 23-25 range of millimeters	Page 104
[6] G. That was any a new finding for[7] isn't there an increased risk that that can[7] isn't there an increased risk that that can[8] occur again?[9] A: If the cause is because the[10] tissue is friable, then it's a possibility.[11] But again, the only area of[12] friable tissue was in that one spot, then it[13] may not be.[14] If, in fact, it really wasn't[15] friable tissue but you pulled up on it hard or[16] wu torqued the aorta while looking around, or[17] the blood pressure suddenly skyrocketed to[17] than any of those explanations would not need[19] wu torpostoperative bleeding.[10] wu torpostoperative bleeding.[11] over postoperative bleeding.[22] Q: Now, you indicate in your[22] Q: Now, you indicate in your	[25] [2] [3] [4]	<i>Oz</i> <i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. O: Doctor. if you have a stitch	Page 102	[25] [1] [2] [3] [4]	Def Def that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate	Page 104
 (i) some three an increased risk that can be approximated in the can be can be can be approxi	[25] [2] [3] [4] [5]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable.	Page 102	[25] [1] [2] [3] [4] [5] [6]	Def that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for	Page 104
 [9] A: If the cause is because the [9] A: If the cause is because the [9] Q: The moderate right heart [10] dysfunction that you are referring to. [11] But again, the only area of [12] friable tissue was in that one spot, then it [13] may not be. [14] If, in fact, it really wasn't [15] friable tissue but you pulled up on it hard or [16] you torqued the aorta while looking around, or [17] the blood pressure suddenly skyrocketed to [18] 200-millimeters in mercury and caused bleeding, [19] than any of those explanations would not need [10] A: That's correct. [20] we necessarily to have a heightened concern [21] Q: Now, you indicate in your [22] Q: Now, you indicate in your 	[25] [2] [3] [4] [5] [6]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can	Page 102	[25] (1) (2) (3) (4) (5) (6) (7)	<i>Of</i> that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q : And was this a new finding for Lames Long?	Page 104
[5]Fit is the endate in boundation in the endate in given in the endate in the	[25] [2] [3] [4] [5] [6] [7] [8]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again?	Page 102	[25] [1] [2] [3] [4] [5] [6] [7]	Of that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 172	Page 104
 But again, the only area of If a dystanction that you are referring to: But again, the only area of If a dystanction that you are referring to: Is that a new finding for him? If a dystanction that you are referring to: Is that a new finding for him? If a dystanction that you are referring to: Is that a new finding for him? It was a new finding. Not an In uncommon fiding after an aortic valve In uncommon fiding after an aortic valve<td> [25] [2] [3] [4] [5] [6] [7] [8] [9] </td><td><i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'there an increased risk that that can occur again? A: If the cause is because the</td><td>Page 102</td><td>[25] (1) (2) (3) (4) (5) (6) (7) (8)</td><td><i>Of</i> that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? O: The moderate right heart</td><td>Page 104</td>	 [25] [2] [3] [4] [5] [6] [7] [8] [9] 	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'there an increased risk that that can occur again? A: If the cause is because the	Page 102	[25] (1) (2) (3) (4) (5) (6) (7) (8)	<i>Of</i> that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? O: The moderate right heart	Page 104
 [11] The block of the second of the	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again? A: If the cause is because the tissue is friable, then it's a possibility.	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9]	<i>Of</i> that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to	Page 104
 [14] If, in fact, it really wasn't [15] friable tissue but you pulled up on it hard or [16] you torqued the aorta while looking around, or [17] the blood pressure suddenly skyrocketed to [17] the blood pressure suddenly skyrocketed to [17] than any of those explanations would not need [19] than any of those explanations would not need [19] than any of those explanations would not need [19] A: That's correct. [20] me necessarily to have a heightened concern [21] over postoperative bleeding. [22] Q: Now, you indicate in your [23] A: Two thirds of stunned or injured 	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again? A: If the cause is because the tissue is friable, then it's a possibility. But again the only area of	Page 102	[25] (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (14)	Def Of that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him?	Page 104
[14]If, in fact, it really wasn't[14] operation, But it was a new finding for him.[15]friable tissue but you pulled up on it hard or[16] vou torqued the aorta while looking around, or[17][16]you torqued the aorta while looking around, or[16] echocardiogram that was done the day before[17]the blood pressure suddenly skyrocketed to[17] indicates that he had normal right ventricle[18]200-millimeters in mercury and caused bleeding,[18] size and normal function.[19]than any of those explanations would not need[19][20]me necessarily to have a heightened concern[20][21]over postoperative bleeding.[21][22]Q: Now, you indicate in your[22][22]A: Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	<i>Oz</i> this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again? A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot then it	Page 102	[25] (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding Not an	Page 104
 [14] Operation, But it was a new finding for him. [15] friable tissue but you pulled up on it hard or [16] you torqued the aorta while looking around, or [17] the blood pressure suddenly skyrocketed to [18] 200-millimeters in mercury and caused bleeding, [19] than any of those explanations would not need [19] me necessarily to have a heightened concern [20] me necessarily to have a heightened concern [21] over postoperative bleeding. [22] Q: Now, you indicate in your [23] A: Two thirds of stunned or injured 	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]	OzOzthis patient, in your opinion, then there is no sense in messing up a very effective and successful system.Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again?A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot, then it may not be	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	Def Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve	Page 104
 [16] You torqued the aorta while looking around, or [17] the blood pressure suddenly skyrocketed to [18] 200-millimeters in mercury and caused bleeding, [19] than any of those explanations would not need [19] menecessarily to have a heightened concern [20] me necessarily to have a heightened concern [21] over postoperative bleeding. [22] Q: Now, you indicate in your [23] A: Two thirds of stunned or injured 	[25] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	Image: Description of the postoperative care in Oz this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again? A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot, then it may not be. If, in fact, it really wasn't	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	But a CVP of 17 is high enough OF that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation. But it was a new finding for him	Page 104
 [16] Genoted and while foold growth, of the block pressure suddenly skyrocketed to [17] the blood pressure suddenly skyrocketed to [18] 200-millimeters in mercury and caused bleeding, [19] than any of those explanations would not need [19] A: That's correct. [20] me necessarily to have a heightened concern [21] over postoperative bleeding. [22] Q: Now, you indicate in your [23] A: Two thirds of stunned or injured 	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13] [14]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isn'tthere an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard or	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	But a CVP of 17 is high enough Of that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now his preoperative	Page 104
[19] 200-millimeters in mercury and caused bleeding,[19] than any of those explanations would not need[20] me necessarily to have a heightened concern[21] over postoperative bleeding.[22] Q: Now, you indicate in your[22] A: Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isn'tthere an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around or	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before	Page 104
[19] than any of those explanations would not need[19] A: That's correct.[20] me necessarily to have a heightened concern[20] Q: So what occurred that caused him[21] over postoperative bleeding.[21] now to have this right ventricular dysfunction?[22] Q: Now, you indicate in your[22] A: Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [12]	OzOzthis patient, in your opinion, then there is no sense in messing up a very effective and successful system.Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again?A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot, then it may not be. If, in fact, it really wasn't friable tissue but you pulled up on it hard or you torqued the aorta while looking around, or the blood pressure suddenly skyrocketed to	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]	But a CVP of 17 is high enough Of that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle	Page 104
[19] Har scorrect.[20] me necessarily to have a heightened concern[21] over postoperative bleeding.[22] Q: Now, you indicate in your[22] Q: Now, you indicate in your[22] A. That scorrect.[23] Q: So what occurred that caused him[24] now to have this right ventricular dysfunction?[25] A. Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isn'tthere an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around, orthe blood pressure suddenly skyrocketed to200-millimeters in mercury and caused bleeding	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [19]	Def Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle	Page 104
[21] over postoperative bleeding.[21] now to have this right ventricular dysfunction?[22] Q: Now, you indicate in your[22] A: Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13] [14] [15] [16] [17] [18]	OzOzthis patient, in your opinion, then there is no sense in messing up a very effective and successful system.Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again?A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot, then it may not be. If, in fact, it really wasn't friable tissue but you pulled up on it hard or you torqued the aorta while looking around, or the blood pressure suddenly skyrocketed to 200-millimeters in mercury and caused bleeding, than any of those explanations would not need	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13] [14] [15] [15] [17] [18]	Dut a CVP of 17 is high enough Of that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct	Page 104
[22] Q: Now, you indicate in your [22] A: Two thirds of stunned or injured	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isn'tthere an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around, orthe blood pressure suddenly skyrocketed to200-millimeters in mercury and caused bleeding,than any of those explanations would not needme necessarily to have a heightened concern	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	Def that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct.	Page 104
	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [18] [19] [20]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isin'tthere an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around, orthe blood pressure suddenly skyrocketed to200-millimeters in mercury and caused bleeding,than any of those explanations would not needme necessarily to have a heightened concernover nostoperative bleeding	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [15] [15] [16] [17] [18] [19] [20] [20]	Def that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct. Q: So what occurred that caused him	Page 104
report I believe in paragraph 3 the last	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21]	Oz Oz this patient, in your opinion, then there is no sense in messing up a very effective and successful system. Q: Doctor, if you have a stitch pull through because the tissue is friable, isn'tthere an increased risk that that can occur again? A: If the cause is because the tissue is friable, then it's a possibility. But again, the only area of friable tissue was in that one spot, then it may not be. If, in fact, it really wasn't friable tissue but you pulled up on it hard or you torqued the aorta while looking around, or the blood pressure suddenly skyrocketed to 200-millimeters in mercury and caused bleeding, than any of those explanations would not need me necessarily to have a heightened concern over postoperative bleeding.	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [14] [15] [16] [17] [18] [19] [20] [21]	Def Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct. Q: So what occurred that caused him now to have this right ventricular dysfunction?	Page 104
124) sentence. "His initial hemodynamics revealed	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [16] [17] [18] [20] [21] [22] [22]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isn'there an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around, orthe blood pressure suddenly skyrocketed to200-millimeters in mercury and caused bleeding,than any of those explanations would not needme necessarily to have a heightened concernover postoperative bleeding.Q: Now, you indicate in yourreport. I believe in paragraph 3 the last	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [18] [20] [21] [22]	Def Off that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct. Q: So what occurred that caused him now to have this right ventricular dysfunction? A: Two thirds of stunned or injured heart muscle after heart surgery is from the	Page 104
moderate right heart dysfunction with the CVP	[25] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [17] [20] [21] [22] [23] [24]	OzOzthis patient, in your opinion, then there is nosense in messing up a very effective andsuccessful system.Q: Doctor, if you have a stitchpull through because the tissue is friable,isin'there an increased risk that that canoccur again?A: If the cause is because thetissue is friable, then it's a possibility.But again, the only area offriable tissue was in that one spot, then itmay not be.If, in fact, it really wasn'tfriable tissue but you pulled up on it hard oryou torqued the aorta while looking around, orthe blood pressure suddenly skyrocketed to200-millimeters in mercury and caused bleeding,than any of those explanations would not needme necessarily to have a heightened concernover postoperative bleeding.Q: Now, you indicate in yourreport, I believe in paragraph 3, the lastsentence. "Hisinitial hemodynamics revealed	Page 102	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [20] [21] [22] [23]	Def that you are within striking range of what I would call severe right heart dysfunction, which is, I'd say, 23-25 range of millimeters mercury. So that's why I termed it moderate. Q: And was this a new finding for James Long? A: To have a CVP of 17? Q: The moderate right heart dysfunction that you are referring to. Is that a new finding for him? A: It was a new finding. Not an uncommon fiding after an aortic valve operation, But it was a new finding for him. Q: Now, his preoperative echocardiogram that was done the day before indicates that he had normal right ventricle size and normal function. A: That's correct. Q: So what occurred that caused him now to have this right ventricular dysfunction? A: Two thirds of stunned or injured heart muscle after heart surgery is from the right ventricle. Because it is the chamber	Page 104

ì

	Dogo 10	,		
[1]	rage to:	' ,	11 07	Page 107
121	most from the lights of the OR		\sim	
[2]	And so even when you're trying		2 Q. So the fact that he went from 17 a down to 13 to 18 after initially being in	
[0] [4]	to keep the heart cold which you need to do to		a there that still leads you to believe he had	
[7]	preserve it during the period you stop the		a right moderate dusfunction?	
[0]	heart the right heart becomes warm then can		5 Inght moderate dystanction?	
[0]	suffer injury		6) A. I beneve ne nad moderate right	
[/]	In addition the right coronary		/ neart dysfunction infinediately after surgery	
[8]	artemy compared off the control of the most enterior	[⁸] which got better for an hour or two, and then	
[9]	attery comes on the aorta as the most anterior		9] over the next few nours, which is — again, is	
[10]	And when sin which is often	1	of not uncommon, began to exhibit evidence with	
[11]	And when air, which is often	1	11 elevated CVP.	
[12]	Found in the nearts of these patients is	1:	2] Q: Would that be cause for concern	
[13]	ejected through the aorta, it will go to the	1:	in a patient who has undergone aortic valve	
[14]	nighest place, because air flows. So the air	14	^{4]} replacement surgery to see that CVP starting to	
[15]	will almost always go to the right coronary	1	5] climb?	
[16]	artery and stun the right heart.	10	A It is a cause for concern and	
[17]	So those are two of the most	17	7 needs to be monitored.	
[18]	common explanations for why the most common	18	Q : Okay. And that should be	
[19]	postoperative dysfunction we see is right heart	19	monitored by the physician caring for the	
[20]	dysrunction.	20	of patient in the ICU?	
[21]	Q: So Dr. Cosgrove and	21	A: Generally in our ICU the nurses	
[22]	Dr. Muenlebach should have been aware that	22	y will keep track of the numbers, like a CVP,	
[23]	James Long was exhibiting moderate right heart	23	i until they reach past what their comfortable	
[24]	dysfunction when they visited the ICU at, looks	!4	with.	
[25]		2	in this patient's case I think	
61	Page 106		n 0-	Page 108
[1]	UZ	10		
[2]	A. well, by 1850 his central velicus	[2	e it was rational to wait until the CVP came back	
[3]	renge of normal		b) to what it was when he first got to the	
[4]	Tange of horman.	[4	a) recovery room, which was 17, and at that	
[5]	So either — and if I was in the	(5	5) juncture, which was from this chart look likes	
[6]	well meybe he get a little bit air in his	[6	around 1930, the CVP increased further past 17	
[/]	went, maybe ne got a fittle oft an fittles	[7	and they started to use some medications to	
[8]	the system because he's heat down to normal	[8	b) treat it.	
[9]	O: So the moderate right heart	[9	Q: And what do you need to treat a	
[10]	Q: So the moderate right heart dusfunction improved one way, cleared up?		by CVP that is going up as a result of right	
[11]	A: It seems to have improved	1	Ventricular dyslunction?	
[12]	hassuss = judging by the central vanous	2	g A: well, a drug that is very	
[13] (14]	pressure	3	b) typically used for that purpose is epinephrine.	
(14)	0: Is there anything else that	4	bad right heart dysfunction before he went to	
[15]	indicates to you that he had this right heart		surgery?	
1171	dysfunction that you're describing other than		A: Based on the preoperative	
1191	what you've already stated?		echocardiography no	
[10]	A: No but that is the most common		MS TOSTI: I'm editing some	
[201	way we would make a diagnosis	100	things out of here so just give me a	
[21]	O: And if he did not have what	14	n minute	
[22]	you're terming as right heart dysfunction you	: ,,	m MB JACKSON: As long as you're	
[53]	would expect the CVP to be in the range of 12		a doing that take as much time as you	
[24]	to 15. correct?	:0	u like	
(~ 1)	A: That's correct.		Q : Now Doctor did the right heart	

}

		Page 109	_	Page 111
[1]	Oz		[1] Oz	-
[2]	dysfunction that you described place James Long		[2] dysfunction on arrival to the ICU?	
[3]	at any increased risk for any particular type		[3] MR. JACKSON: Are you referring	
[4]	of postoperative complication?		[4] to depos, records?You said	
[5]	A: The complications of right heart		[5] "records" Jeanne, I don't know what	
[6]	failure include malprofusion to the kidneys,		[6] you're —	
[7]	the head, and the liver in particular.		MS. TOSTI: Well, I will expand	
[8]	Q: And aside from starting		[8] that.	
[9]	epinephrine, are there any other measures that		^[9] The medical records that you	
[10]	can be taken to reduce the risk from this		ng reviewed as well as the depositions.	
[11]	complication?		11] MR. JACKSON: Okay.	
[12]	A: I believe in 1996 you could use		^{12]} And just to save time, I don't	
[13]	Primacor, but the ideal treatment actually is		isj remember if you asked Dr. Cosgrove	
[14]	nitric oxide which was not available then.		4] that. If you're saying you did, can	
[15]	Q: Now, Doctor, I believe in page 2		15] you point us out to it?	
[16]	paragraph 2 of your report you indicate that		MS. TOSTI: I'm asking him if in	
[17]	you felt that James Long was prone to		וז his review he found anything that	
[18]	tamponade; is that correct?		^{18]} indicated that Dr. Cosgrove was aware	
[19]	A: I'm <i>sorry</i> , the second paragraph?		9 of Mr. Long's moderate right	
[20]	Q: Page 2 you indicate that he was		in ventricular dysfunction on arrival to	
[21]	prone to tamponade; is that correct?		n the ICU?	
[22]	MR. JACKSON: Where are you		MR. JACKSON: Okay, and I'm	
[23]	reading that from?		3] asking you if that was discussed in	
[24]	MS. TOSTI: Second paragraph on		¹⁴ his deposition, can you point us to it	
[25]	page 2 about a little more than		is and save some time.	
		-		
		Page 110		Page 112
[1]	OZ	Page 110	[1] Oz	Page 112
[1] [2]	oz halfway through.	Page 110	[1] Oz [2] And if you're saying you're not	Page 112
[1] [2] [3]	oz halfway through. MR. JACKSON: Okay.	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — 	Page 112
[1] [2] [3] [4]	oz halfway through. MR. JACKSON: Okay. A: I do see that, yes.	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS.TOSTI: I do not have 	Page 112
[1] [2] [3] [4] [5]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of 	Page 112
[1] [2] [3] [4] [5] [6]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct?	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. 	Page 112
[1] [2] [3] [4] [5] [6] [7]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart foilure independent of and organ dusfunction	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS.TOSTI: I do not have Dr. Cosgrove's deposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction organize at right for tamponado, bacquese their	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove'sdeposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [8] believe that was asked, but go ahead, 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS.TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [8] believe that was asked, but go ahead, [9] Doctor. 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space so	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove's deposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove'sdeposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's deposition but I do not recall specifically if that was asked and so I would have to raview 	Page 112
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. O: And so in James Long's case it	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [8] believe that was asked, but go ahead, [9] Doctor. [0] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade: is	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove's deposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's deposition but I do not recall specifically if that was asked, and so I would have to review it. 	Page 112
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct?	Page 110	 Definition of the second sec	Page 112
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes L believe so	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove's deposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's deposition but I do not recall specifically if that was asked, and so I would have to review it. And within the chart itself there was no clear evidence that he wrote down or documented that he was concerned about right 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. O: Did you fmd any indication in	Page 110	 [1] Oz [2] And if you're saying you're not [3] going to do that — [4] MS.TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [9] believe that was asked, but go ahead, [9] Doctor. [9] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review [3] it. [4] And within the chart itself [5] there was no clear evidence that he wrote down [6] or documented that he was concerned about right 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove	Page 110	 11 Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove'sdeposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [8] believe that was asked, but go ahead, [9] Doctor. [9] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review [3] it. [4] And within the chart itself [5] there was no clear evidence that he wrote down [6] or documented that he was concerned about right [7] heart dysfunction. 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right	Page 110	 In the second second	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right ventricular dysfunction on arrival to the ICU?	Page 110	 11 Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [8] believe that was asked, but go ahead, [9] Doctor. [9] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review [3] it. [4] And within the chart itself [5] there was no clear evidence that he wrote down [6] or documented that he was concerned about right [7] heart dysfunction. [8] I must say that's not unusual, [9] as this type of finding is fairly common and [9] would not usually warrant a separate note to 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18] [19] [20] [21]	OZ halfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right ventricular dysfunction on arrival to the ICU? MR. JACKSON: Say that again,	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove'sdeposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's deposition but I do not recall specifically if that was asked, and so I would have to review it. And within the chart itself there was no clear evidence that he wrote down or documented that he was concerned about right heart dysfunction. I must say that's not unusual, as this type of finding is fairly common and would not usually warrant a separate note to document it. 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [20] [21] [22]	 balfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right ventricular dysfunction on arrival to the ICU? MR. JACKSON: Say that again, please? 	Page 110	 <i>Oz</i> And if you're saying you're not going to do that — MS. TOSTI: I do not have Dr. Cosgrove's deposition in front of me and I did not take his deposition. MR. JACKSON: Okay. I don't believe that was asked, but go ahead, Doctor. A: I've read Dr. Cosgrove's deposition but I do not recall specifically if that was asked, and so I would have to review it. And within the chart itself there was no clear evidence that he wrote down or documented that he was concerned about right heart dysfunction. I must say that's not unusual, as this type of finding is fairly common and would not usually warrant a separate note to document it. Q: Okay. And the same question in 	Page 112
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [18] [19] [20] [21] [22] [23]	 balfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right ventricular dysfunction on arrival to the ICU? MR. JACKSON: Say that again, please? Q: Did you find any indications in 	Page 110	 11 Oz [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove's deposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [9] believe that was asked, but go ahead, [9] Doctor. [9] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review [3] it. [4] And within the chart itself [5] there was no clear evidence that he wrote down [6] or documented that he was concerned about right [7] heart dysfunction. [8] I must say that's not unusual, [9] as this type of finding is fairly common and [9] would not usually warrant a separate note to [1] document it. [2] Q: Okay.And the same question in [3] regard to Dr. Muehlebach. 	Page 112
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	 balfway through. MR. JACKSON: Okay. A: I do see that, yes. Q: Okay. So in your opinion James Long was prone to tamponade; is that correct? A: Patients with right heart failure independent of end organ dysfunction are also at risk for tamponade, because their heart is already enlarged and they don't have as much room within the pericardial space, so less blood can cause tamponade. Q: And so in James Long's case it was your opinion he was prone to tamponade; is that correct? A: Yes, I believe so. Q: Did you fmd any indication in the records that you reviewed that Dr. Cosgrove was aware of Mr. Long's moderate right ventricular dysfunction on arrival to the ICU? MR. JACKSON: Say that again, please? Q: Did you find any indications in the records you reviewed that Dr. Cosgrove was 	Page 110	 11 <i>Oz</i> [2] And if you're saying you're not [3] going to do that — [4] MS. TOSTI: I do not have [5] Dr. Cosgrove'sdeposition in front of [6] me and I did not take his deposition. [7] MR. JACKSON: Okay. I don't [9] believe that was asked, but go ahead, [9] Doctor. [9] A: I've read Dr. Cosgrove's [1] deposition but I do not recall specifically if [2] that was asked, and so I would have to review [3] it. [4] And within the chart itself [5] there was no clear evidence that he wrote down [6] or documented that he was concerned about right [7] heart dysfunction. [9] I must say that's not unusual, [9] as this type of finding is fairly common and [9] would not usually warrant a separate note to [1] document it. [2] Q: Okay. And the same question in [3] regard to Dr. Muehlebach. [4] Did you fmd any indications in 	Page 112

	Page 113	 Pa	ge 115
[1]	Oz	[1] Oz	e
[2]	that Dr. Muehlebach was aware that Mr. Long had	121 was at 2310.	
[3]	moderate right ventricular dysfunction on	When his blood pressure started	
[4]	arrival to the ICU?	4) to drop with a CVP of 19 despite being on	
151	A: I'm just looking at the ICU	adequate doses, in fact, increasing doses of	
[6]	notes from the residents and Dr. Muehlebach to	a cardiac infusions	
[7]	see what he wrote.	$\overline{\Omega}$ O: So when his blood pressure at	
101	Again. I don't recall the	1850 hour fell to I believe it was 75 or 46	
(0) (01	deposition well enough to remember if he was	and his cardiac index dropped to 2.0 you	
[6] [01]	asked that or commented on it	j didn't consider that to be unstable	
(14)	If you don't mind give me one	the hemodynamically?	
(12)	second I want to look at his note	A: Well be ween't on much support	
(13)	(Pause)	12 A. Wen, he wash ton inden support	
[14]	You know Ljust don't see If	us strict defiition of blood pressure that is	
[(**]	you show it to me Excuse me one second I'm	¹⁴ strict definition of blood pressure that is	
[10]	just looking for the actual notes from the -	(s) when you turn a patient over or a patient	
[10]	this was the — before this there were notes	suddenly sits up, they often drop their blood	
[17]	MR JACKSON: Okay	m pressure to this degree as well soon after	
[10]	Go ahead Jeanne I'll try to	b) pressure to this degree as well soon after	
[19]	find that If you have something else	But I don't really equate that	
(21)	to ask	y with a life threatening process unless it's not	
[22]	BY MS. TOSTI:	and a me uncatering process uncess it shot	
 mai	0: Doctor what the does the term	Ω = Ω : Okay Well how about between	
[23]	"hemodynamicallyunstable" mean?	1050 hour and 2130 hour when he had the two	
[24]	A : It means that one of the	²⁴ 1950 hour and 2150 hour when he had the two	
[25]			
[4]	Page 114	Pa _į	ge 116
0			
[2]	pressures in the patient, either within the	^[2] weren'table to get his blood pressure up to 90	
[3]	neart or within the system, is not stable.	[3] systolic as had been ordered, would he have	
[4]	Q: Does that have to be over a	[4] been hemodynamically unstable, in your opinion,	
[5]	A: No is could have and donly on	[5] during that period of time?	
[6]	A: No, it could happen suddenly or	[6] A: well, again, you know, he is on	
[7]	it could be over a period of time.	[7] a very low dose of epi and not a high dose of	
[8]	Q: Okay, And now would you	[8] Levophed either, so once he got up to a dose	
[9]	determine that a patient was nemodynamically	[9] here in drips of 10.66, and which is when his	
[10]	unstable / what is it that you look at /	of blood pressure came up, anything after that	
[11]	A: The typical units I would focus	11] that he drops his blood pressure on a	
[12]	On are lablic blood pressure.	12] reasonable dose of I think appropriate	
[13]	Q: Meaning it goes up and goes	13] inotropic support would concern me.	
[14]		[4] Q: What is your understanding as to	
[15]	A: Exactly.	15] what he was receiving as far as the Levophed	
[16]	Q: Okay.	ig during the period of time when his blood	
[17]	A. And offen associated with that,	17 pressure was below 90 systolic degining at	
[18]	MP LACKSON: Is this the	18] 1950 nour, what — now much Levophed is it your	
[19]	With JACAJON. 15 UIIS UIC	19 understanding ne was receiving?	
[20]	assessment: 0: And in your opinion was lames	20] A: Well, I believe the small	
[21]	w. And in your opinion was jaines	21] numbers may be mic dosage, but we don't use	
[22]	he was in the poston ICU?	22) Incrogram dosing at this institution. With	
[23]	Δ : The only time that he became	23 Levopned we go by the drops of the fluid.	
[24]	unstable I would consider him being unstable	⁽⁴⁾ Uninke, for example, a drug like Primacor, we	
		A MERICAN A THE THE ATT THE ATT THE ATT A	

-

_

	Page 117		Page 119
[1]	Oz	[¹] Oz	0
[2]	So for us the dose that he was	[2] vasodilating after surgery who are experiencing	
[3]	finally at of 10.66 drops per minute, and it	^[3] the complex milieu mix of cytidines and other	
[4]	looks like it's 4 milligrams and 250 ccs, would	[4] inflammatory mediators that tend to peak at six	
[5]	for us be a significant dose.	[5] hours, six to 12 hours after surgery, will	
[6]	That would be the highest dose	[6] experience these kind of events.	
[7]	we would go to roughly comfortably, practice	[7] I can personally recall dozens	
[8]	seeking an alternative drug to use, which they	[8] of patients, not just one or two, dozens of	
[9]	had already started, or searching for other	[9] patients who required high dose vasoconstrictor	
[10]	explanations.	ing support who had no explanation ever found and	
[11]	Q: Now you're aware of the nurses'	1] by the next morning were off their drugs and	
[12]	testimony as well as the documentation under	2] doing fine.	
[13]	the significant events that the Levophed was	^{3]} MR. JACKSON: Jeanne, the	
[14]	turned up to 40 drops per minute, correct?	4) videographer needs to change his tape,	
[15]	A: Where does it say that in the	s se hold on a second.	
[16]	significant events?	6] HE VIDEO OPERATOR: Time the	
[17]	Q: In the $-$ if you're looking at	7] 5:1 μ p.m., we are off the record.	
[18]	the flow sheet, in the center section of the	aj (Recess taken)	
[19]	flow sheet where it has significant events	9 THE VIDEO OPERATOR: The time is	
[20]	columns?	2015 p.m., we are back on the record.	
[21]	A: Yes, I do see that.	BY MS. TOSTI:	
[22]	Q: Okay, it was turned up to 40	2] Q: Doctor, my question to you,	
[23]	drops?	³ though, was during the time when he was on	
[24]	A: Yes, and Dr. Muenlebach was made	³⁴ increasing doses of the Levophed and his blood	
[25]	aware.	is pressure was below 90 systolic do you believe	
-			
	Page 118		Page 120
[1]	Page 118 Oz	1] Oz	Page 120
[1] [2]	Page 118 Oz Q: And also in the nurse's	1] Oz 2] that he was hemodynamically unstable?	Page 120
[1] [2] [3]	Page 118 <i>Oz</i> Q: And also in the nurse's depositions I think they made reference to that	1] Oz 2] that he was hemodynamically unstable? 3] A: If one — from a strict	Page 120
[1] [2] [3] [4]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact.	1] Oz 2] that he was hemodynamically unstable? 3] A: If one — from a strict 4] definition of the term, I believe you would say	Page 120
[1] [2] [3] [4] [5]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high	1] Oz 2] that he was hemodynamically unstable? 3] A: If one — from a strict 4] definition of the term, I believe you would say 5] he was hemodynamically unstable, but not with	Page 120
[1] [2] [3] [4] [5] [6]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you —	1] Oz 2] that he was hemodynamically unstable? 3] A: If one — from a strict 4] definition of the term, I believe you would say 5] he was hemodynamically unstable, but not with 6] the tonnotation that we have an unstable	Page 120
[1] [2] [3] [4] [5] [6] [7]	Page 118 <i>Oz</i> Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of L averbad	1) Oz 2) that he was hemodynamically unstable? 3] A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the tonnotation that we have an unstable 7) patient with impending disaster. And that's an mismortant differentiation	Page 120
[1] [2] [3] [4] [5] [6] [7] [8]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose?I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to	1] Oz 2] that he was hemodynamically unstable? 3] A: If one — from a strict 4] definition of the term, I believe you would say 5] he was hemodynamically unstable, but not with 6] the tonnotation that we have an unstable 7] patrent with impending disaster. And that's an 8] important differentiation.	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it we would start	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the connotation that we have an unstable 7) patient with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) when I use the term "hemodynamic 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it	 1) Oz 2) that he was hemodynamically unstable? 3] A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the tonnotation that we have an unstable 7) patient with impending disaster. And that's an 8] important differentiation. 9] When I use the term "hemodynamic 9] When I use the term "hemodynamic 9] instability,"as when many physicians use that 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. O: Well then back to my original	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the tonnotation that we have an unstable 7) patient with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]	Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the connotation that we have an unstable 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 	Page 120
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time WDCD	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the tonnotation that we have an unstable 7) patient with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting despite the fact there was a 	Page 120
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he	 1) Oz 2) that he was hemodynamically unstable? 3] A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the to onnotation that we have an unstable 7] patient with impending disaster. And that's an 8] important differentiation. 9] When I use the term "hemodynamic 9] instability,"as when many physicians use that 1) term, there is that connotation. 2] And that is why many physicians 3] would not have called this a hemodynamically 4] unstable setting, despite the fact there was a 5] low blood pressure with increasing inotropic 	Page 120
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the connotation that we have an unstable 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 1) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the tonnotation that we have an unstable 7) patient with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6) support. 7) Q: At 2330 hour which I believe is 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [12] [13] [14] [15] [16] [17] [18]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals?	 1) Oz 2) that he was hemodynamically unstable? 3] A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 6) the to onnotation that we have an unstable 7] patient with impending disaster. And that's an 8] important differentiation. 9] When I use the term "hemodynamic 9] instability,"as when many physicians use that 1) term, there is that connotation. 2] And that is why many physicians 3] would not have called this a hemodynamically 4] unstable setting, despite the fact there was a 5] low blood pressure with increasing inotropic 6] support. 7] Q: At 2330 hour, which I believe is a) the last entry on the flow sheet, would you 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A: It is appropriate to be	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6) support. 7) Q: At 2330 hour, which I believe is 8) the last entry on the flow sheet, would you 9) agree that that mean arterial pressure of 45 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [13] [14] [15] [16] [17] [18] [19] [20]	Page 118 Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A: It is appropriate to be concerned that the Levophed dose increased over	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 1) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6] support. 7) Q: At 2330 hour, which I believe is 8) the last entry on the flow sheet, would you 9) agree that that mean arterial pressure of 45 9) would indicate hemodynamic instability? 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21]	Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A: It is appropriate to be concerned that the Levophed dose increased over an hour and a half period the way it did.	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the connotation that we have an unstable 7) patient with impending disaster. And that's an a) important differentiation. 9) When I use the term "hemodynamic o) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6] support. 7) Q: At 2330 hour, which I believe is a) the last entry on the flow sheet, would you 9) agree that that mean arterial pressure of 45 o) would indicate hemodynamic instability? 1) A: I would agree, ves. 	Page 120
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [221 	Oz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A: It is appropriate to be concerned that the Levophed dose increased over an hour and a half period the way it did. If there was an easily	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 6) the to onnotation that we have an unstable 7) patient with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6] support. 7) Q: At 2330 hour, which I believe is 8] the last entry on the flow sheet, would you 9] agree that that mean arterial pressure of 45 9] would indicate hemodynamic instability? 1) A: I would agree, yes. 2] It would — there is no cardiac 	Page 120
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	Dz Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A: No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A: It is appropriate to be concerned that the Levophed dose increased over an hour and a half period the way it did. If there was an easily identified solution or explanation for this,	 1) Oz 2) that he was hemodynamically unstable? 3] A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the * onnotation that we have an unstable 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 1) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6] support. 7) Q: At 2330 hour, which I believe is 8] the last entry on the flow sheet, would you 9] agree that that mean arterial pressure of 45 9] would indicate hemodynamic instability? 1) A: I would agree, yes. 2] It would — there is no cardiac 3] index at that time. The cardiac index, which I 	Page 120
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [14] [15] [14] [15] [20] [21] [22] [23] [24]	Page 118 <i>Oz</i> Q: And also in the nurse's depositions I think they made reference to that fact. And do you consider that a high dose or a small dose? I think before you — A : No, it's a high dose of Levophed. And if I had an easy solution to why he was requiring it, we would start addressing it. Q: Well then back to my original question was: Do you think that he was hernodynamically unstable during the time wnen his blood pressure was below 90 systolic and he was receiving that increasing dose of Levophed the nurses had testified they were turning it up at several intervals? A : It is appropriate to be concerned that the Levophed dose increased over an hour and a half period the way it did. If there was an easily identified solution or explanation for this, then that certainly should be sought.	 1) Oz 2) that he was hemodynamically unstable? 3) A: If one — from a strict 4) definition of the term, I believe you would say 5) he was hemodynamically unstable, but not with 6) the was hemodynamically unstable, but not with 7) patrent with impending disaster. And that's an 8) important differentiation. 9) When I use the term "hemodynamic 9) When I use the term "hemodynamic 9) instability,"as when many physicians use that 1) term, there is that connotation. 2) And that is why many physicians 3) would not have called this a hemodynamically 4) unstable setting, despite the fact there was a 5) low blood pressure with increasing inotropic 6] support. 7) Q: At 2330 hour, which I believe is 8] the last entry on the flow sheet, would you 9) agree that that mean arterial pressure of 45 9) would indicate hemodynamic instability? 1) A: I would agree, yes. 2) It would — there is no cardiac 3) index at that time. The cardiac index, which I 4) know you know, from the period of hypotension 	Page 120

	cycland Child Foundation		
	Page 121		Page 123
[1]	0z	ſ1] 07	1 450 120
[2]	above. So the patient was being adequately	and if you look at their flow sheets they are	
(3)	profused throughout that time.	and in you look at them in the sheets, mey are	
[4]	When the mean pressure dropped	a night	
(51	to 45 . I suspect the cardiac index probably	$_{15}$ 0 : Now also in paragraph 4 you	
(61	dropped as well, and at that time the patient's	indicate I think it's about in the third line	
(7)	clearly hemodynamically unstable.	⁷⁷ "During this period the CVP did not change.	
[8]	O: When James Long was admitted to	although cardiac output had diminished to a	
191	ICU, what was the reason he was placed on	still acceptable index of 2.0."	
[10]	nitroprusside?	Why did the cardiac index $-$ I'm	
(11]	A: Nitroprusside is frequently	11 sorry. What is the significance of that to you	
[12]	needed, as we discussed briefly earlier, in	in that the CVP did not change?	
[13]	patients with aortic stenosis because they have	A: I don't think there was evidence	
[14]	a disharmony between the pressures sensed by	4) at that time of tamponade or worsening right	
[15]	the aortic system and the pressures delivered	is heart failure.	
[16]	by the left ventricle after aortic stenosis	Now if the cardiac index had	
[17]	surgery.	¹⁷ dropped, then one could argue that you're being	
[18]	Q: And so in this case would one of	^{18]} mislead that the CVP would have gone up if the	
[19]	the effects of that particular drug be to bring	¹⁹ index had remained stable.	
[20]	down his pressure?	^{20]} But in this setting we have a	
[21]	A: It would have two roles; it	stable output and we have a stable CVP, so from	
[22]	would bring down the systemic blood pressure,	2] my perspective we have a stable patient.	
[23]	and also bring down the pulmonary pressures	Q: Why did the cardiac index go	
[24]	which could help reduce the CVP.	$\frac{1}{24}$ down to 2.0, though, at - first at 1850 hour?	
[25]	Q: Now I believe in paragraph 4 of	A: Well the patient, it is noted,	
	Page 122		Page 124
[1]	0r	[1] Oz	
[2]	your report on page 1 you indicate that 1910	[2] had begun to wake up. I don'thave that exact	
[3]	hour Levophed was started slowly increasing	[3] time. But that could be one factor why it	
[4]	dosage until 2130. And you said this was a	[4] would have been higher. In fact, it could also	
[5]	very common occurrence after cardiopulmonary	5] explain why it would go down if the pressure	
[6]	bypass.	iej had gone up.	
[7]	Is it a very common occurrence	[7] In addition, the muscle, which	
[8]	in patients with left ventricular hypertrophy	[8] is preserved in a cold fashion during surgery,	
[9]	who undergo aortic valve replacements?	^[9] swells postoperatively.	
[10]	A: Absolutely, 1 his is true of all	$o_{\rm I}$ And, in fact, as a historical	
[11]	patients who undergo bypass.	1] vignette, cardioplegia, which is the solution	
[12]	Patients with aortic stenosis	2] we use to preserve our hearts in all heart	
[13]	the issue I mentioned before shout blood	3] surgery, was developed specifically for a ortic	
[14]	negeure requision	4) valve surgery, because the early surgeons had	
[15]	So for them in particular they	5] Such a high moltanty from heart muscle that	
[16]	are often and when they vasodilate unable to	b) was thick and couldn't be preserved.	
(18)	compensate so we see this	y so these patients typically get	
[1:0]	0: Do most aortic valve replacement	\mathbf{a} hours after surgery and because of that	
[201	patients require Levophed in the immediate	i rigidity they don't let blood come into them	
[21]	postoperative period?	11 and they are unable to maintain the usual	
[22]	A: In my institution most are on	2) outputs you would think they would have after	
[23]	low dose of Levophed in the early postoperative	3) the operation.	
[24]	period and we dance between Levophed and	\mathbf{Q} : So he started off with an index	
[25]	nitroglycerin, which is our usual vasodilator,	\mathfrak{s}_{1} of 3.3 and then went down to 2.0.	

	P	age 125		Page 127
[†]	Oz		[1] Oz	
[2]	Is that the typical course for		[2] And when that happens it is very common, and	
[3]	an aortic valve replacement patient?		[3] any ICU expert will have — will remember a	
[4]	A: It think it is typical that it		[4] case from that day, much less that week, where	
[5]	drops. A drop from 3.3 to 2.0 is more than		[5] the patient was turned and dumped sometimes 4	
[6]	usual, but the drop itself is not uncommon.		[6] or 500 ccs of fluid.	
[7]	Q: And 2.0 in this patient you		[7] So we don't get worried about	
[8]	would consider to be an acceptable?		^[8] that degree of drainage at three hours	
[9]	A: Yes.		9 postoperatively.	
[10]	Q: Why did James Long have		10] Q: Is it concerning the fact that	
[11]	escalating chest tube drainage of 50 ccs, a		11] it's escalating from 50 to 100 to 250 ccs in	
[12]	hundred, then 250 ccs drainage?		12] the fist two hours that he's in the ICU?	
[13]	A: A couple of possible reasons.		A: I wouldn't be concerned by that.	
[14]	Once you get a little bit of blood in the		14) You see that frequently.	
[15]	pericardial space it creates fibrinolysis,		^{15]} The usual index for us, this	
[16]	which is a breakdown of clot.		16] institution, is to drain more than 200 ccs for	
[17]	So, in fact, once you have some		17 five hours in a row. That — that's the index	
[18]	blood, it will stimulate other blood to leak		18] we use to define when we think someone is	
[19]	out.		^{19]} having a bleeding issue.	
[20]	In addition, in a patient who		And so there he's not there. In	
[21]	has a CVP that's in the 15 range, they will		21] fact, he doesn't met that criteria at any point	
[22]	have some ooze of water more than blood into		22] 'tilthe very end.	
[23]	the pericardial space, so one of the questions		23] Q: Now, I believe on page 1 in that	
[24]	is how bloody was the chest tube output, was it		^{24]} fourth paragraph you state that, "Thetotal	
[25]	blood from the heart coming out or was it just		25] chest tube output which had been very	
			· · ·	
	P	age 126		Page 128
[1]	P Oz	age 126	[1] Oz	Page 128
[1] [2]	P Oz drainage from edema and other changes that	age 126	(1) Oz (2) reasonable, 500 ccs until this time, suddenly	Page 128
[1] [2] [3]	P Oz drainage from edema and other changes that occur after surgery.	age 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and 	Page 128
[1] [2] [3] [4]	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which	age 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating 	Page 128
[1] [2] [3] [4] [5]	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning net so much because of the absolute number	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." 	Page 128
[1] [2] [3] [4] [5] [6]	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] O: When was the decision made to 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] actum him to surgery? 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very	Page 126	 (1) Oz (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (4) A: Well the patient was 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly and the most likely reason is that	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] return him to surgery? [1] A: Well, the patient was [2] transferred at 2330 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] (13) 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had	Page 126	 (1) Oz (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (11) A: Well, the patient was (2) transferred at 2330. (3) (Interruption) 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	<i>Oz</i> drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain	Page 126	 (1) Oz (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (11) A: Well, the patient was (2) transferred at 2330. (3) (Interruption) (4) THE WITNESS: Can I hold for one 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out.	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] return him to surgery? [1] A: Well, the patient was [1] transferred at 2330. [3] (Interruption) [4] THE WITNESS: Can I hold for one [5] second? 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out.	Page 126	 (1) Oz (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (11) A: Well, the patient was (12) transferred at 2330. (13) (Interruption) (14) THE WITNESS: Can I hold for one (15) second? (16) MR. JACKSON: Take a break, 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13] [14] [16] [17] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ∖ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] Q: When was the decision made to [9] R: Well, the patient was [11] A: Well, the patient was [2] transferred at 2330. [3] (Interruption) [4] THE WITNESS: Can I hold for one [5] second? [6] MR. JACKSON: Take a break, [7] Jeanne. 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct?	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [10] return him to surgery? [11] A: Well, the patient was [12] transferred at 2330. [13] (Interruption) [14] THE WITNESS: Can I hold for one [15] second? [16] MR. JACKSON: Take a break, [17] Jeanne. [18] THE WITNESS: One minute call. 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could.	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] return him to surgery? [11] A: Well, the patient was [12] transferred at 2330. [13] (Interruption) [14] THE WITNESS: Can I hold for one [15] second? [16] MR. JACKSON: Take a break, [17] Jeanne. [18] THE WITNESS: One minute call. [19] THE VIDEO OPERATOR: The time is 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ↓ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could. But frequently these patients	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [9] return him to surgery? [1] A: Well, the patient was [2] transferred at 2330. [3] (Interruption) [4] THE WITNESS: Can I hold for one [5] second? [6] MR. JACKSON: Take a break, [7] Jeanne. [8] THE WITNESS: One minute call. [9] THE VIDEO OPERATOR: The time is [20] 5:25 p.m., we're off the record. 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ∖ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could. But frequently these patients will be moved for the first time at that third	Page 126	 [1] Oz [2] reasonable, 500 ccs until this time, suddenly [3] increased to 250 over the next hour and [4] prompted a decision to return to the operating [5] room for reexploration." [6] He had 250 ccs drainage recorded [7] at 2210 hour, correct? [8] A: He did. [9] Q: When was the decision made to [1] A: Well, the patient was [2] transferred at 2330. [3] (Interruption) [4] THE WITNESS: Can I hold for one [5] second? [6] MR. JACKSON: Take a break, [7] Jeanne. [8] THE WITNESS: One minute call. [9] THE VIDEO OPERATOR: The time is [20] 5:25 p.m., we're off the record. [1] (Recess taken) 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ↓ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could. But frequently these patients will be moved for the first time at that third hour period, or they'll start to wake up, and	Page 126	 (1) Oz (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (11) A: Well, the patient was (2) transferred at 2330. (3) (Interruption) (4) THE WITNESS: Can I hold for one (5) second? (6) MR. JACKSON: Take a break, (7) Jeanne. (8) THE WITNESS: One minute call. (9) THE WIDEO OPERATOR: The time is (2) 5:25 p.m., we're off the record. (1) (Recess taken) (2) THE VIDEO OPERATOR: We'reback 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ↓ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could. But frequently these patients will be moved for the first time at that third hour period, or they'll start to wake up, and when they do they will actually push fluid that	Page 126	 (1) <i>Oz</i> (2) reasonable, 500 ccs until this time, suddenly (3) increased to 250 over the next hour and (4) prompted a decision to return to the operating (5) room for reexploration." (6) He had 250 ccs drainage recorded (7) at 2210 hour, correct? (8) A: He did. (9) Q: When was the decision made to (10) return him to surgery? (11) A: Well, the patient was (2) transferred at 2330. (3) (Interruption) (4) THE WITNESS: Can I hold for one (5) second? (6) MR. JACKSON: Take a break, (7) Jeanne. (8) THE WITNESS: One minute call. (9) THE VIDEO OPERATOR: The time is (2) 5:25 p.m., we're off the record. (1) (Recess taken) (2) THE VIDEO OPERATOR: We're back (3) on the record, the time is 5:26 p.m. 	Page 128
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	P Oz drainage from edema and other changes that occur after surgery. The increase to 250, which occurred over the next hour, is more concerning not so much because of the absolute number, because 250 ccs is a very respectable output for the third hour after surgery. But it is less common that you'llhave so little output early on and then have a 250 cc drainage. But we also see this very commonly, and the most likely reason is that the tubes opened up and allowed fluid that had been accumulating for an hour or two to drain out. ↓ Q: Okay. If that's occurring and the fluid is backing up in the tubes, you could have a tamponade situation, correct? A: You could. But frequently these patients will be moved for the first time at that third hour period, or they'll start to wake up, and when they do they will actually push fluid that was collecting passively, not under pressure	Page 126	 <i>Oz</i> reasonable, 500 ccs until this time, suddenly increased to 250 over the next hour and prompted a decision to return to the operating room for reexploration." He had 250 ccs drainage recorded at 2210 hour, correct? A: He did. Q: When was the decision made to return him to surgery? A: Well, the patient was transferred at 2330. (Interruption) THE WITNESS: Can I hold for one second? MR. JACKSON: Take a break, Jeanne. THE WITNESS: One minute call. THE VIDEO OPERATOR: The time is 5:25 p.m., we're off the record. (Recess taken) THE VIDEO OPERATOR: We'reback on the record, the time is 5:26 p.m. BY MS. TOSTI: 	Page 128

[19] paragraph 4 on page 1 says that, "Soonafter

[21] 2345, the anesthesia team reported a sudden

[25] regard to where you got that information? I

[22] drop in the blood pressure to 40 millimeters of

[20] arrival, I believe it's the surgical suite at

I want to ask you, Doctor, in

[23] mercury."

[24]

	Page	29		Page 131
[1]	Oz		(1) Oz	J
[2]	Based on your review of the		(2) don't know if that's an error in your report or	
[3]	records, when was the decision made to return		[3] not.	
[4]	James Long to surgery for reoperation?		$\mu_{\rm I}$ I know there's a clinical note	
(5)	A: It looks likes 2330 was the		^[4] that indicates that there was a mean arterial	
161	actual transfer time, and the decision seems to		$[\mathfrak{s}]$ pressure of 40 and I'm wondering where you	
171	have been made around that moment as well.		$r_{\rm T}$ found a blood pressure of 40 ?	
(A1	O: And the bleeding that occurred		Λ : I believe it was from the actual	
[0] [0]	that you referred to in paragraph 4 of your		an anesthesia flow sheet I'miust looking for	
[0]	report was at - recorded at 2210 hour		[9] anestnesia now sheet. I mjust looking for	
[10]	correct?			
[11]	A: Ves it was		THE WITNERS So is this the	
[12]	A. 105, it was.		12] IHE WIINESS: So is this the	
[13]	Q. And you believe that was what		(3) return to the operating room? This is	
[14]	prompted the decision to take him back to		14] the first operation; isn'tit?	
[15]	surgery was that 250 cc of chest tube drainage?		15] MR. JACKSON: Yes.	
[16]	A. I think the 250 cc of dramage		16] THE WITNESS: One second while I	
[17]	neightened the awareness of the team that there		[7] find the actual information here.	
[18]	might actually be ongoing bleeding.		(Pause)	
[19]	And then when he dropped his		19] I'm sorry, there's three	
[20]	blood pressure to below 90 at the 2310, despite		20] anesthesia sheets here, I'm trying to	
[21]	being on an increasing dose of Levophed,		21] find which one is the actual,	
[22]	because by then he was up to 13 drops, that, I		22] Q: I have one that I'm looking	
[23]	think, prompted the team to commit to transfer		23] at —	
[24]	the patient to the OR.		A: Mean arterial pressure of 40 ,	
[25]	And, in fact, that's noted, I		25] that's correct.	
	Page 1	30		Page 132
[1]	Oz		[1] Oz	
[2]	believe it's at 2330 when they say the chest		[2] Q: I'masking if there was any	
[3]	tube output is increased to 350 ccs.		[3] other place that you found that his blood	
[4]	Q: Now, James Long had a recorded		[4] pressure went down to 40 systolic?	
[5]	mean arterial pressure of 45 before he left the		[5] A: No, but when you have a mean	
[6]	ICU.		[6] arterial pressure down below 40, or in that	
[7]	Would you agree that his cardiac		[7] range, the value of systolic versus diastolic	
[8]	function was already severely compromised		[8] becomes unimportant because there's not much a	
[9]	before he ever arrived in the OR for		^[9] pulse pressure.	
[10]	reexploration?		For example, someone who has a	
[11]	A: Perhaps not cardiac function,		1] blood pressure of 40 , a mean arterial pressure	
[12]	just to be precise, but the profusion of blood		121 of 40, will have a blood pressure maybe of	
[13]	to his body was inadequate at that point.		13] 45\35.	
[14]	He could have a normal heart		There's not — you don't get a	
(15]	function, but because there's no blood coming		s wide pulse pressure because there is no room	
[16]	into the heart, he might not be able to pump		6) for the pressure to be wide.	
[17]	the blood to the body.		Q: In regard to what you recorded	
[18]	Q: Your report also in that		in your record here, though, are you correcting	

20]

23]

24]

22] 40.

(Indicating)

19] that to be a mean arterial pressure of 40?

in to correct that to mean arterial pressure of

25] James Long suffered neurologic complications as

A: If it'sokay, yes, I would like

Q: Now, it's your opinion that

		Page 133		Page 135
[1]	Oz		[1] Oz	
[2]	a result of hypotension that occurred at 2345		[2] Q: On line M?	
[3]	hours; is that correct?		[3] A: Yes.	
[4]	A: It is.		[4] Q: Is at 2130, correct.	
[5]	Q: Now, according to your report		A: Normally our institution we	
[6]	you believe that the hypotension occurred at		[6] chart hourly, so the next charting I would have	
[7]	2345 as a result of sudden hemorrhage from the		[7] done after 2130 was 2230. But you're correct,	
[ai	aortic anastomosis, correct?		[8] it looks like they charted at 2210.	
[9]	A: That's correct.		So the bleeding started, again,	
[10]	Q: And that this process started at		sometime after 2130, because we know at that	
[11]	2130 hour, correct?		11 point there was only 50 ccs of blood and	
[12]	A: I actually don't know. By 2130		121 started before 2210 not 2230.	
[13]	it has 50 ccs, 2210 is where he starts — when		0: Okay And the sentence portion	
[14]	he puts out 250 ccs.		14) of your report that says, "Butcould not be	
[15]	Q: I'm referring to paragraph 2 of		¹⁵ reliably diagnosed until 2230," are you making	
[16]	your report, page 2, and I believe you		a change in that to 2210 then?	
[17]	indicated in your report that hypotension was		17] A: Yes.	
[18]	at 2345 resulting from a sudden hemorrhage in		\mathbf{Q} : So that's another correction in	
[19]	aortic anastomosis and this process started at		your report, correct?	
[20]	2130.		A: As mild as it seems, it should	
[21]	A: I wrote that because the last		21] be corrected, yes.	
[22]	noted chest tube output was at 2130. So the		Q: Now what you're saying occurred	
[23]	next number reports for the following hour, so		23] at 2210 that would have allowed diagnosis is	
[24]	we don'tknow whatever moment it started, but		^{24]} the output of 250 ccs of drainage.	
60	we know it started after 2120 and manifested		w A weathing also that moved have	
[25]	we know it started after 2150 and maintested		25 Anything else that would have	
[25]	we know it started after 2150 and mannested	Page 134	25 Anything else that would have	Page 136
[25]	or	Page 134	[1] Oz	Page 136
[25] [1] [2]	<i>or</i> itself by 2230.	Page 134	 [1] Oz [2] allowed for diagnosis at that point? 	Page 136
[25] [1] [2] [3]	<i>or</i> itself by 2230. So my point here was that that	Page 134	 Anything else that would have [1] Oz [2] allowed for diagnosis at that point? [3] A: Well, at that point the patient 	Page 136
[25] [1] [2] [3] [4]	<i>or</i> itself by 2230. So my point here was that that process which started at 2130 could not be	Page 134	 Anything else that would have [1] Oz [2] allowed for diagnosis at that point? [3] A: Well, at that point the patient [4] was actually looking better in some ways. The 	Page 136
[25] [1] [2] [3] [4] [5]	<i>or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is	Page 134	 Anything else that would have [1] Oz [2] allowed for diagnosis at that point? [3] A: Well, at that point the patient [4] was actually looking better in some ways. The [5] cardiac index was up to 2.9, the CVP had 	Page 136
[25] [1] [2] [3] [4] [5] [6]	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have	Page 134	 Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — 	Page 136
[25] [1] [2] [3] [4] [5] [6] [7]	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output.	Page 134	 Anything else that would have [1] Oz [2] allowed for diagnosis at that point? [3] A: Well, at that point the patient [4] was actually looking better in some ways. The [5] cardiac index was up to 2.9, the CVP had [6] remained at 19 from the previous — the 2130 — [7] 2150 reading. 	Page 136
[25] [1] [2] [3] [4] [5] [6] [7] [8]	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient 	Page 136
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9]	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at	Page 134	 Anything else that would have Anything else that would have [1] Oz [2] allowed for diagnosis at that point? [3] A: Well, at that point the patient [4] was actually looking better in some ways. The [5] cardiac index was up to 2.9, the CVP had [6] remained at 19 from the previous — the 2130 — [7] 2150 reading. [8] So in many ways the patient [9] looked like he was turning around and in the 	Page 136
 [25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230.	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230?	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a 	Page 136
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is.	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a (3) sudden hemorrhage from the aortic anastomosis, 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a (3) sudden hemorrhage from the aortic anastomosis, (4) and the process began sometime between 2130 and 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a (3) sudden hemorrhage from the aortic anastomosis, (4) and the process began sometime between 2130 and (5) 2210, which you corrected, and it could not be 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (12) (13) (14) (15) (16)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from.	Page 134	 Anything else that would have Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a (3) sudden hemorrhage from the aortic anastomosis, (4) and the process began sometime between 2130 and (5) 2210, which you corrected, and it could not be (6) reliably diagnosed until 2210. 	Page 136
(1) (2) (3) (4) (5) (6) (7) (10) (10) (11) (12) (13) (14) (15) (16) (17)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. 	Page 136
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (2) your report here is you said that he had a (3) sudden hemorrhage from the aortic anastomosis, (4) and the process began sometime between 2130 and (5) 2210, which you corrected, and it could not be (6) reliably diagnosed until 2210. (7) A: That's correct. (8) Q: So it should have been reliably 	Page 136
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well their flow sheets are	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. (18) Q: So it should have been reliably (19) diagnosed at 2210 that he was having hemorrhage 	Page 136
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well, their flow sheets are	Page 134	 Anything else that would have Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. (18) Q: So it should have been reliably (19) diagnosed at 2210 that he was having hemorrhage (10) from his aortic anastomosis, correct? 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (14) (15) (14) (15) (14) (15) (14) (17) (18) (19) (20) (21) (21)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well, their flow sheets are different than ours. But I will — when I look	Page 134	 Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (10) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. (18) Q: So it should have been reliably (19) diagnosed at 2210 that he was having hemorrhage (20) from his aortic anastomosis, correct? (21) A: No, not correct. (21) Well Unclinent that's a basic 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (14) (15) (16) (17) (18) (19) (20) (21) (22)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well, their flow sheets are different than ours. But I will — when I look at this I see a number written at 2210, you're	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. (18) Q: So it should have been reliably (19) diagnosed at 2210 that he was having hemorrhage (10) from his aortic anastomosis, correct? (11) A: No, not correct. (12) Q: Well, I believe that's what 	Page 136
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (15) (15) (15) (15) (15) (15) (22) (23) (22) (23) (23) (23) (23) (24) (25)	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well, their flow sheets are different than ours. But I will — when I look at this I see a number written at 2210, you're correct. The previous number I think is written at 2130 time't it?The 50 accuirs	Page 134	 Anything else that would have Anything else that would have (1) Oz (2) allowed for diagnosis at that point? (3) A: Well, at that point the patient (4) was actually looking better in some ways. The (5) cardiac index was up to 2.9, the CVP had (6) remained at 19 from the previous — the 2130 — (7) 2150 reading. (8) So in many ways the patient (9) looked like he was turning around and in the (9) right direction. (11) Q: But from what you've written in (12) your report here is you said that he had a (13) sudden hemorrhage from the aortic anastomosis, (14) and the process began sometime between 2130 and (15) 2210, which you corrected, and it could not be (16) reliably diagnosed until 2210. (17) A: That's correct. (18) Q: So it should have been reliably (19) diagnosed at 2210 that he was having hemorrhage (10) from his aortic anastomosis, correct? (11) A: No, not correct. (12) Q: Well, I believe that's what (13) you've written in your report here, Doctor. 	Page 136
(1) [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [17] [20] [21] [22] [23] [24]	<i>Or</i> itself by 2230. So my point here was that that process which started at 2130 could not be reliably diagnosed until 2230 because that is the next time that the nurses would have charted his chest tube output. The bleeding had to have occurred before 2230 because it was logged at 2230. Q: So it's your opinion that it occurred sometime between 2130 and 2230? A: It is. Q: But the bleeding actually occurred at 2210, that's at line O.So I'm not understanding where the 2230 is coming from. And that 20 — at line O is the record of what the nurses measured for the previous hour, A: Well, their flow sheets are different than ours. But I will — when I look at this I see a number written at 2210, you're correct. The previous number I think is written at 2130; isn't it?The 50 ccs is written for 2130?	Page 134	 Anything else that would have Anything else that would have <i>Q</i> allowed for diagnosis at that point? A: Well, at that point the patient was actually looking better in some ways. The cardiac index was up to 2.9, the CVP had remained at 19 from the previous — the 2130 — 2150 reading. So in many ways the patient looked like he was turning around and in the right direction. Q: But from what you've written in your report here is you said that he had a sudden hemorrhage from the aortic anastomosis, and the process began sometime between 2130 and 2210, which you corrected, and it could not be reliably diagnosed until 2210. A: That's correct. Q: So it should have been reliably diagnosed at 2210 that he was having hemorrhage from his aortic anastomosis, correct? A: No, not correct. Q: Well, I believe that's what you've written in your report here, Doctor. A: No, I didn't say that. You 	Page 136

ł

_				
		Page 137		Page 139
[1]	Oz		[1] Oz	
[2]	sentence. What I said is very clear.		[2] what happened to James Long that this 2150 ccs	
[3]	This process started at 2130 but		[3] that the nurses recorded at line O at 2210 was	
[4]	could not be reliably diagnosed until 2210.		[4] the result of bleeding from his distal	
[5]	That's the earliest anyone could have possibly		[5] anastomosis?	
[6]	thought to make this diagnosis.		[6] A: I believe what caused that	
[7]	It doesn't mean you should have		bleeding over that 40-minute period was from	
[8]	made the diagnosis then, in fact, I would make,		^[8] the distal anastomosis, which subsequently	
[9]	and I think a very convincing argument that		became clear when once they had reexplored the	
(10)	most heart surgeons experienced in this field		in patient.	
(11)	would agree with, if they had expertise in this		0: Is it likely that the 250 ccs of	
(12)	area, that a patient who puts out 250 ccs from		chest tube drainage that the nurses recorded at	
(13)	a chest tube but has a higher than before		12 line F which is 1930 hour also was bleeding	
[14]	cardiac index on a stable inotropic regiment		(4) from that distal anastomosis?	
(15)	with otherwise no evidence of a sudden ailment		A: I don't believe so because most	
[16]	is probably not acutely bleeding		arterial bleeders from a major structure Like	
(47)	It is my opinion in retrospect		the ports once they start they don't stop	
[17] (10]	and it's always much easier in hindsight he		again	
1101	probably started to bleed at that time		so it would be extremely	
[10]	And I make that based on		y unlikely especially for that size of a	
(20)	knowledge the surgical team probably had at		$\frac{1}{2}$ bleeder that could generate 250 ccs in 40	
(221	2345 too but no practitioner in this field		minutes to generate 250 ccs suddenly stop and	
(23) (52)	would have been aware of		w over the payt two hours only yield 100 ccs more	
[20]	O : Well but to the words that		s of blood	
[24] [25]	you've chosen to put into your report says that		4) of blood.	
[]	you veenosen to put into your report suys that			
	0	Page 138		Page 140
[1]	0z		[1] Oz	
[2]	it could be reliably diagnosed — it could not		[2] tamponading at that time you wouldn't expect to	
[3]	be reliable diagnosed until 2210.		[3] see drainage or much drainage come out of those	
[4]	And so how could it be reliably		[4] tubes, correct?	
[5]	diagnosed at 2210?		[5] A: If he was tamponading and the	
[6]	A: Well, there is no way they could		iej tubes were clogged, he would not.	
[7]	have possibly diagnosed it until 2210. That is		[7] But I would have expected a more	
[8]	the earliest possible time that anyone would		^[8] significant elevation in the CVP at that time.	
[9]	have ever had an inkling that this patient was		[9] Q: Well, we do see an elevation up	
[10]	bleeding and needed to go back to the operating		of to 20, correct?	
[11]	room.		1] A: Correct, but then with no clear	
[12]	Q: And I understand that, but I'm		2] explanation that number drops back down to 17	
[13]	asking at 2210, how could it reliably be		³¹ at line N, which is when he again put out only	
[14]				
[15]	diagnosed that he was bleeding from his aortic		4] 50 ccs.	
• •	diagnosed that he was bleeding from his aortic anastomosis?		 41 50 ccs. 50 a diligent individual caring 	
[16]	diagnosed that he was bleeding from his aortic anastomosis?A: I don't think you could know		 4] 50 ccs. 5] So a diligent individual caring 6] for this patient would say patient's only put 	
(16] [17]	diagnosed that he was bleeding from his aortic anastomosis?A: I don't think you could know it's an aortic anastomosis, I think you could		 4] 50 ccs. 5] So a diligent individual caring 6] for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 	
(16] [17]	diagnosed that he was bleeding from his aortic anastomosis?A: I don't think you could know it's an aortic anastomosis, I think you could know that the process of bleeding started and		 41 50 ccs. 50 a diligent individual caring 61 for this patient would say patient's only put 71 out 50 ccs over the last hour but my CVP drop 81 3-millimeters of mercury. That doesn't fit the 	
(16] (17] [19]	 diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis, I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. 		 4) 50 ccs. 5) So a diligent individual caring 6] for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 8] 3-millimeters of mercury. That doesn't fit the 9] diagnosis of tamponade. 	
(16] (17] [19] [20]	 diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis, I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. Whether it is aortic anastomosis 		 4] 50 ccs. 5] So a diligent individual caring 6] for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 8] 3-millimeters of mercury. That doesn't fit the 9] diagnosis of tamponade. 0] Q: Was he having tamponade 	
(16] (17] [19] [20] [21]	diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis,I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. Whether it is aortic anastomosis distally or proximally or cardioplegia site or		 4) 50 ccs. 5) So a diligent individual caring 6] for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 8] 3-millimeters of mercury. That doesn't fit the 9] diagnosis of tamponade. 0] Q: Was he having tamponade 1] physiology causing his hypotension following 	
(16] (17] [19] [20] [21] [22]	diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis, I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. Whether it is aortic anastomosis distally or proximally or cardioplegia site or sternal wound vein, that I don't think you		 4) 50 ccs. 5) So a diligent individual caring 6) for this patient would say patient's only put 7) out 50 ccs over the last hour but my CVP drop 8) 3-millimeters of mercury. That doesn't fit the 9) diagnosis of tamponade. 0) Q: Was he having tamponade 1) physiology causing his hypotension following 2) 250 ccs drainage at 1930 hour? 	
(16] (17] [19] [20] [21] [22] [23]	diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis,I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. Whether it is aortic anastomosis distally or proximally or cardioplegia site or sternal wound vein, that I don't think you could determine until you went inside the		 4) 50 ccs. 5) So a diligent individual caring 6) for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 8] 3-millimeters of mercury. That doesn't fit the 9] diagnosis of tamponade. 0] Q: Was he having tamponade 1] physiology causing his hypotension following 2] 250 ccs drainage at 1930 hour? 3] A: Well, again, the CVP - the 	
 (16) (17) (19) (20) (21) (22) (23) (24) 	diagnosed that he was bleeding from his aortic anastomosis? A: I don't think you could know it's an aortic anastomosis,I think you could know that the process of bleeding started and was diagnosed — diagnosable at 2210. Whether it is aortic anastomosis distally or proximally or cardioplegia site or sternal wound vein, that I don't think you could determine until you went inside the chest.		 4) 50 ccs. 5) So a diligent individual caring 6] for this patient would say patient's only put 7] out 50 ccs over the last hour but my CVP drop 8] 3-millimeters of mercury. That doesn't fit the 9] diagnosis of tamponade. 0] Q: Was he having tamponade 1] physiology causing his hypotension following 2] 250 ccs drainage at 1930 hour? 3] A: Well, again, the CVP — the 4] patient bled 250 ccs, or I should say the 	

!

		Page 141			Page 143
[1]	Oz		[1]	OZ	- ge - e
[2]	the CVP didn't change really. You know, it		[2]	pressure had done at, for example, 2130, and	
[3]	went down 1-millimeterof mercury then up 2		[3]	they would have told me well it's dropped down	
[4]	over the — over that next hour.		[4]	to 17 from 20.	
[5]	So it's not a clear tamponade		[5]	I would have asked them have you'	
[6]	progression or regression.		[6]	increased the dose dramatically, they would	
[7]	Q: Do you have an opinion one way		[7]	have said we went up to a drop or two over the	
[8]	or the other whether he was having tamponade		[8]	last hour of our Levophed and didn't change the	
[9]	physiology during that hypotensive episode		[9]	epinephrine.	
[10]	following the 250 cc drainage at the 1930 hour?		[10]	I would have asked what the	
[11]	A Are you asking me in retrospect?		[11]	blood pressure was, they would have told me it	
[12]	Q: I'm asking as an expert in this		[12]	was $86/54$ and coming up.	
[13]	case whether you have an opinion one way or the		(13)	And I would have said what's the	
[14]	other whether he was exhibiting tamponade		[14]	chest tube output this hour, and they would	
[15]	physiology during that time period?		[15]	have said 50 ccs, and I would said I don't	
[16]	A: Well, I think this patient had		[16]	believe it.	
[17]	an element of right heart failure and		[17]	But what they probably would	
(18]	relatively small amount of blood collecting		[18]	have told me, if they got an echo –	
[19]	around the heart could have pushed that patient		[19]	Q: I'm sorry, I didn't hear what	
[20]	in either direction.		[20]	you said.	
[21]	Whether or not that's what was		[21]	A: What the echo probably would	
[22]	happening here or the fact that they lost 250		[22]	have shown is poor windows, difficult to	
[23]	ccs of blood caused hypotension which required		[23]	visualize, some blood around the heart, maybe	
[24]	fluid resuscitation, or whether this was just		[24]	tamponade.	
[25]	evolution of that stiff ventricle that we		[25]	That's what the traditional echo	
[25]	evolution of that stiff ventricle that we	Page 142	[25]	That'swhat the traditional echo	Page 144
[25]	evolution of that stiff ventricle that we Oz	Page 142	[25]	That's what the traditional echo <i>Oz</i>	Page 144
[25] [1] [2]	evolution of that stiff ventricle that we <i>Oz</i> talked about earlier is pure conjuncture on my	Page 142	[25] [1] [2]	That's what the traditional echo <i>Oz</i> report will read. Because it's a hedged report	Page 144
[25] [1] [2] [3]	<i>Oz</i> talked about earlier is pure conjuncture on my part.	Page 142	[25] [1] [2] [3]	That's what the traditional echo <i>Oz</i> report will read. Because it's a hedged report that in every way possible is telling you they	Page 144
[25] [1] [2] [3] [4]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was	Page 142	[25] [1] [2] [3] [4]	That's what the traditional echo <i>Oz</i> report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad,	Page 144
[25] [1] [2] [3] [4] [5]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can	Page 142	[25] [1] [2] [3] [4] [5]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good.	Page 144
[25] [1] [2] [3] [4] [5] [6]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was	Page 142	[25] [1] [2] [3] [4] [5] [6]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also	Page 144
[25] [1] [2] [3] [4] [5] [6] [7]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night.	Page 142	[25] [1] [2] [3] [4] [5] [6] [7]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 10]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had?	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half.	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo.	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo. For example, if you think the	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [8] [9] 10] 11] 12] 13] 14]	Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo. For example, if you think the patient threw a clot to one of their coronary	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [9] 10] 11] 12] 13] 14] 15]	That's what the traditional echo Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo. For example, if you think the patient threw a clot to one of their coronary arteries, which happens, or if you think that	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [9] 10] 11] 12] 13] 14] 15] 16]	DzOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air emboli	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the ICU, if he had an echocardiogram done prior to 2110 and it abound avidence of fluid	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17]	DescriptionOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air embolior other causes, the EKG should shift and youwould expect to be able to the block shift and you	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the ICU, if he had an echocardiogram done prior to 2110 and it showed evidence of fluid	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [7] [6] [10] 11] 12] 13] 14] 15] 16] 17] 18]	That's what the traditional echo Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo. For example, if you think the patient threw a clot to one of their coronary arteries, which happens, or if you think that they're experiencing ischemia from air emboli or other causes, the EKG should shift and you would expect to be able to tell that with a	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18] [19]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the ICU, if he had an echocardiogram done prior to 21 10 and it showed evidence of fluid accumulating around the heart or correlates of tamponade physiology would that he an adacueto	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [7] [6] [7] [12] 13] 14] 15] 16] 17] 18] 19]	DescriptionOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air embolior other causes, the EKG should shift and youwould expect to be able to tell that with aprogressive declining cardiac index, no matter	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [13] [14] [15] [16] [17] [18] [19] [20]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the ICU, if he had an echocardiogram done prior to 21 10 and it showed evidence of fluid accumulating around the heart or correlates of tamponade physiology, would that be an adequate basis to return him to surgery for	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20]	That's what the traditional echo Oz report will read. Because it's a hedged report that in every way possible is telling you they have difficulty seeing, and maybe it's bad, maybe it's good. Q: Doctor, doesn't an echo also provide you with some information regarding the cardiac function that may be helpful in dealing with a patient that has labile blood pressure such as James Long had? A: Yes, but there are other ways of making that diagnosis without getting an echo. For example, if you think the patient threw a clot to one of their coronary arteries, which happens, or if you think that they're experiencing ischemia from air emboli or other causes, the EKG should shift and you would expect to be able to tell that with a progressive declining cardiac index, no matter what you do. And in this patient we didn't see any of that avidance	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21]	<i>Oz</i> talked about earlier is pure conjuncture on my part. So I don'tknow what was happening, and I don'tthink anyone can reliably say they know for sure what was happening at 20 hours that night. I think it gets a little bit clear when we progress down to 2210 and the events that occurred over the subsequent hour and a half. Q: Now, given James Long's prolonged hypotension where they were increasing the doses of Levophed and the epinephrine and his 400 ccs of chest tube drainage in the first two hours of being in the ICU, if he had an echocardiogram done prior to 21 10 and it showed evidence of fluid accumulating around the heart or correlates of tamponade physiology, would that be an adequate basis to return him to surgery for teexploration?	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [7] [6] [7] [6] [10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21]	DzOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air embolior other causes, the EKG should shift and youwould expect to be able to tell that with aprogressive declining cardiac index, no matterwhat you do. And in this patient we didn't seeany of that evidence.It's not that an echo can't	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [12] [13] [14] [15] [15] [16] [17] [18] [20] [21] [22]	OzOztalked about earlier is pure conjuncture on mypart.So I don'tknow what washappening, and I don'tthink anyone canreliably say they know for sure what washappening at 20 hours that night.I think it gets a little bitclear when we progress down to 2210 and theevents that occurred over the subsequent hourand a half.Q: Now, given James Long'sprolonged hypotension where they wereincreasing the doses of Levophed and theepinephrine and his 400 ccs of chest tubedrainage in the first two hours of being in theICU, if he had an echocardiogram done prior to21 10 and it showed evidence of fluidaccumulating around the heart or correlates oftamponade physiology, would that be an adequatebasis to return him to surgery forreexploration?A: If they called me and said this	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [6] [7] [6] [7] [6] [7] [6] [7] [1] [2] [3] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	DescriptionOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air embolior other causes, the EKG should shift and youwould expect to be able to tell that with aprogressive declining cardiac index, no matterwhat you do. And in this patient we didn't seeany of that evidence.It's not that an echo can'tprovide more information but the real question	Page 144
[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24]	colution of that stiff ventricle that weOztalked about earlier is pure conjuncture on mypart.So I don'tknow what washappening, and I don'tthink anyone canreliably say they know for sure what washappening at 20 hours that night.I think it gets a little bitclear when we progress down to 2210 and theevents that occurred over the subsequent hourand a half.Q: Now, given James Long'sprolonged hypotension where they wereincreasing the doses of Levophed and theepinephrine and his 400 ccs of chest tubedrainage in the first two hours of being in theICU, if he had an echocardiogram done prior to21 10 and it showed evidence of fluidaccumulating around the heart or correlates oftamponade physiology, would that be an adequatebasis to return him to surgery forreexploration?A: If they called me and said thispatient is tamponading based on an echo. I	Page 142	[25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 10] 11] 12] 13] 14] 15] 16] 17] 18] 19] 20] 21] 22] 23] 24]	DescriptionOzreport will read. Because it's a hedged reportthat in every way possible is telling you theyhave difficulty seeing, and maybe it's bad,maybe it's good.Q: Doctor, doesn't an echo alsoprovide you with some information regarding thecardiac function that may be helpful in dealingwith a patient that has labile blood pressuresuch as James Long had?A: Yes, but there are other ways ofmaking that diagnosis without getting an echo.For example, if you think thepatient threw a clot to one of their coronaryarteries, which happens, or if you think thatthey're experiencing ischemia from air embolior other causes, the EKG should shift and youwould expect to be able to tell that with aprogressive declining cardiac index, no matterwhat you do. And in this patient we didn't seeany of that evidence.It's not that an echo can'tprovide more information, but the real questionthat, you know. I want to ask any heart surgeon	Page 144

		Page 145		Page 147
	[1] 02		[1] Oz	
}	[2] what you did, and I don't think an experienced		[2] start your drip an hour or two later.	
	^[3] practitioner in this field would have changed		[3] It's not really critical because	
	[4] their actions based on an echo result.		[4] the Amicar half life is probably in the	
	[5] Q: Why was Mr. Long placed on		[5] six-hour range. So that's why many of us just	
	[6] Amicar?		[6] give a one time bolus in the OR and don't	
	[7] A: When patients, as I mentioned		[7] bother dripping it. You give it a one-time	
	(B) earlier, bleed into the pericardial space, that		[8] shot and that's all they need for the entire	
	^[9] blood stimulates fibrinolysis, which is a break		[9] case.	
	[10] down of an already existing clot, and that's		10] Q: Do you know whether he got a	
	[11] one of the reasons that someone who has a		11] bolus in the OR?	
	^[12] suture line which was dry initially would later		A: I'd have to go back and check.	
	[13] suddenly start to bleed.		13] I suspect they would mention it.	
	[14] So we place patients in many		[4] It is the standard of care at	
	[15] institutions on Amicar because it is an		15] most cardiac centers today to give either	
	[16] inhibitor of that fibrinolytic process.		is] Amicar or aprotinin before every case.	
	[17] Q: And was that in response to his		Every patient should be on some	
	[18] first 50 cc and 100 cc chest tube output after		18] type of an antifibrinolytic agent. Amicar is	
	[19] going into the ICU?		19] relatively inexpensive, so it is the fist line	
	[20] A: No, because those numbers are		20] drug for most patients.	
	pi1 quite small.		I don't know if the Cleveland	
	[22] I suspect it was added after the		2] Clinic was doing that by protocol back then, I	
	[23] 250 cc loss of fluid from the chest tube at		3] would suspect they were, but I don't know.	
	[24] line G, and, in fact, it looks from my chart		^{24]} Q: Why did James Long develop	
	[25] like they started the Amicar at around 2030,		²⁵ bleeding from the distal suture line?	
		Page 146	111 07	Page 148
	m which is about an hour later than that		\mathbf{A} : A couple possibilities One was	
$\widetilde{H}_{1}^{(1)} \widetilde{\mathbb{W}}$	[2] which is about all nour fater than that.		[2] A. A couple possibilities. One was	
	(i) sheet it shows that the holus was given earlier		[3] that because of blood that had accumulated in	
	in the evening at looks like line D which is		^[4] Inscripting the was experiencing normorysis, and	
	[5] In the evening at, rooks like line <i>D</i> , when is		by that seals the small holes or the interstices	
	\mathbf{A} : Yes you're absolutely right		between the sutures will start to bleed	
	a They gave 10 grams of bolus I don't usually		An alternative hypothesis is	
	in do that		in that he tore the distal suture line as he had	
	100 At this institution we don't		or torn the proximal one during the operation in	
	(11) rebolus Amicar. There are some hospitals which		the first operation and — but those are the —	
	(12) continue Amicar as part of their protocol into		a probably the two most common causes	
	(13) the ICU. I don't know if the Cleveland Clinic		$_{21}$ O: Is it likely he was bleeding	
	[14] does that. That's a protocol we have to check		4) from that suture line from the time he left	
	15 separately.		5) surgery the first time?	
	And if they are one of those		A: As I said, I think that's	
	[17] institutions their usual protocol would be		7 difficult to imagine because these arterial	
	[18] 10 grams in the OR, and then 10 grams again		a) bleeders, once they start they don't usually	
	[19] when they get to the ICU.		g stop and they bleed the magnitude that this	
	[20] So this may have been part of		of patient reveals after 2210. They all bleed	
	[21] that protocol, but I don't know.		1] 250,350,500, in that range. They won't bleed	
	[22] Q: At what point would a drip be		2] 100 to 200 an hour for arterial bleeders	
	[23] hung?		3 usually. It's a much more significant amount	
	[24] A: Well, usually when you give the		4] ofdrainage.	
	[25] bolus that's effective for about an hour. You		sl And this patient's course. both	

}.

	Ра	age 149		Page 151
[1]	OZ		[1] Oz	
[2] [3] [4] [5]	the hypotension but also the amount of blood that they had put out, dramatically increases, and after this 2210 period it would appear from the notes, so I think this was a separate event.		 [2] Q: When you have a mean arterial [3] pressure of 45 in the ICU, shouldn'ta prudent [4] cardiac surgeon realize the patient is [5] decompensating? [6] A: It's not a matter whether he's 	
[7] [8] [9] [10] [11]	Q: Isn'tit highly unusual to havebleeding from two separate suture lines?A: Not necessarily, because thepatient's tissue is the patient's tissue andthat's the most important variable in this kind		 [7] decompensating, he's decompensating which is [8] why he is going to the operating room, but at [9] the very out of this discussion we broached the 10] topic of judgment on how you address this 11] process. 	
[12] [13] [14] [15] [16]	of bleeding. If patients have difficult to sew through tissue, for whatever reason it is fragile, it will be fragile on both sides of the suture line.		 If you — if this patient gets his chest opened in an unsterile environment at the bedside in the ICU and then subsequently develops — as you know, the homograph is directly exposed to the outside environment, it 	
[17] [18] [19] [20] [21]	Q: Do you have an opinion in this case whether he had fragile tissue that caused this bleeding to occur?A: I have no opinion on that.Q: Did you give any consideration		 is the most anterior structure of the heart. So when you open the chest and the dust from the curtain settles in the wound and you're unsterile attempts to get the chest open without, by the way adequate lighting to 	
[22] [23] [24] [25]	in your review as to suturing technique in the surgery?A: I did not because I don't think that was really the crux of the issue here.		 22) see what is going on any way, is accomplished 23] and you manage by some miracle to get your 24] unsterile fingers on the hole in the aorta, you 25] have now condemned him to a separate set of 	
			1	
741	Pa	ge 150		Page 152
[1]	Pay Oz	ge 150	[1] OZ	Page 152
[1] [2]	Pag Oz Whatever technique was used by the surgeon he's obviously used it in cases	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] be current allowed armont 	Page 152
[1] [2] [3]	Pag Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [3] So most hospitals would 	Page 152
[1] [2] [3] [4]	Pag Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] profer = most surgeons would prefer to get the 	Page 152
[1] [2] [3] [4] [5]	Pag Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment which 	Page 152
 [1] [2] [3] [4] [5] [6] [7] 	<i>Oz</i> Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR where they have light on their side 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Oz</i> Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	<i>Oz</i> Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	Dz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same. So I can't make that	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] 	Dz Dz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same. So I can't make that statement.	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	Dz Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same.So I can't make that statement. Q: Okay.I believe your report	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [2] But that is not usually when you have a blood 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Dz Dz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same.So I can'tmake that statement. Q: Okay.I believe your report indicates that there was a sudden	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [2] But that is not usually when you have a blood [3] pressure of any kind. That usually is prudent 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	Dz Dz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same. So I can't make that statement. Q: Okay.I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	Dz Vhatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same.So I can't make that statement. Q: Okay.I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct?	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly [15] have no time to go anywhere. 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	Dar Dar Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his. And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [2] But that is not usually when you have a blood [3] pressure of any kind. That usually is prudent [4] when you have no blood pressure and you clearly [5] have no time to go anywhere. [6] Q: Well, I don't think that you 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph.	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly [15] have no time to go anywhere. [16] Q: Well, I don't think that you [17] answered the question that I asked. 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	Page Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his. And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph. A: This is at 22 = 2345?	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly [15] have no time to go anywhere. [16] Q: Well, I don't think that you [17] answered the question that I asked. [18] Your report indicates that this 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Determine the surgeon of the surgeon of the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his. And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph. A: This is at 22 - 2345? Q: That's the middle of the paragraph. The sudden decompensation occurring	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [2] But that is not usually when you have a blood [3] pressure of any kind. That usually is prudent [4] when you have no blood pressure and you clearly [5] have no time to go anywhere. [6] Q: Well, I don't think that you [7] answered the question that I asked. [8] Your report indicates that this [9] was a sudden decompensation that occurred 15 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	Page Dz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his. And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph. A: This is at 22 = 2345? Q: That's the middle of the paragraph. The sudden decompensation occurring 15 minutes after transfer	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly [15] have no time to go anywhere. [16] Q: Well, I don't think that you [17] answered the question that I asked. [18] Your report indicates that this [19] was a sudden decompensation that occurred 15 [20] minutes after transfer and would not have been 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Date And the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his. And maybe it's the same. So I can't make that statement. Q: Okay. I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph. A: This is at 22 - 2345? Q: That's the middle of the paragraph. The sudden decompensation occurring 15 minutes after transfer. A: That's correct.	ge 150	 [1] OZ [2] problems which can be equally fatal as the one [3] he eventually underwent. [4] So most hospitals would [5] prefer — most surgeons would prefer to get the [6] patient to a more controlled environment, which [7] is the OR, where they have light on their side, [8] they have suction on their side, they have [9] trained nurses on their side. [10] There are some times when [11] opening the chest in the ICU is appropriate. [12] But that is not usually when you have a blood [13] pressure of any kind. That usually is prudent [14] when you have no blood pressure and you clearly [15] have no time to go anywhere. [16] Q: Well, I don't think that you [17] answered the question that I asked. [18] Your report indicates that this [19] was a sudden decompensation that occurred 15 [20] minutes after transfer and would not have been [21] Anticipated. 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	Determination of the second paragraph. The sudden decompensation occurring 15 minutes after transfer. A: That's correct: A: A: That's correct: A: A: That's correct: A: A: That's correct: A: A: That's correct:	ge 150	 (1) OZ (2) problems which can be equally fatal as the one (3) he eventually underwent. (4) So most hospitals would (5) prefer — most surgeons would prefer to get the (6) patient to a more controlled environment, which (7) is the OR, where they have light on their side, (8) they have suction on their side, they have (9) trained nurses on their side. (10) There are some times when (11) opening the chest in the ICU is appropriate. (12) But that is not usually when you have a blood (13) pressure of any kind. That usually is prudent (14) when you have no blood pressure and you clearly (15) have no time to go anywhere. (16) Q: Well, I don't think that you (17) answered the question that I asked. (18) Your report indicates that this (19) was a sudden decompensation that occurred 15 (20) minutes after transfer and would not have been (21) Now wouldn'tyou agree that if (22) Now wouldn'tyou agree that if 	Page 152
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	Page 102 Oz Whatever technique was used by the surgeon, he's obviously used it in cases before, and been able to get patients through this operation. There are as many different ways of doing these operations as there are surgeons doing them. So it becomes difficult for me to argue that my way is better than his.And maybe it's the same. So I can't make that statement. Q: Okay.I believe your report indicates that there was a sudden decompensation 15 minutes after transfer of the patient to the OR, correct? On the top of page 2 in the second paragraph. A: This is at 22 = 2345? Q: That's the middle of the paragraph. The sudden decompensation occurring 15 minutes after transfer. A: That's correct. Q: And that would not be anticipated by you nor most cardiac surgeons?	ge 150	 (1) OZ (2) problems which can be equally fatal as the one (3) he eventually underwent. (4) So most hospitals would (5) prefer — most surgeons would prefer to get the (6) patient to a more controlled environment, which (7) is the OR, where they have light on their side, (8) they have suction on their side, they have (9) trained nurses on their side. (10) There are some times when (11) opening the chest in the ICU is appropriate. (12) But that is not usually when you have a blood (13) pressure of any kind. That usually is prudent (14) when you have no blood pressure and you clearly (15) have no time to go anywhere. (16) Q: Well, I don't think that you (17) answered the question that I asked. (18) Your report indicates that this (19) was a sudden decompensation that occurred 15 (10) minutes after transfer and would not have been (11) anticipated. (12) Now wouldn't you agree that if (13) somebody has a 45 mean arterial pressure in the (14) ICU that it would be anticipated that the 	Page 152

		· · · · · ·	
]	Page 155
[1]	OZ	[1] 02	
[2]	them up to the OR that you should be expecting	Q: In the hospital chart, the OR	
[3]	that there may be continued decompensation?	[3] report.	
[4]	A: It's not an issue whether you	\mathbf{A} . I was just looking at it a	
(5)	expect decompensation Lthink I did answer	second ago let me hull it un again please	
[0]	this it's a question of how sudden will it he	y you meen the tuned note on the	
[0]	If you think you can keen a	bandwritten note?	
[7]	processing of 45 for the 20 minutes let's say		
[8]	that it takes you to get into the operating	[8] Q: The typed OR report.	
[9]	that it takes you to get into the operating	[9] A: Give me one second here.	
[10]	room, on a table and prepped, which I think	oj (Pause)	
[11]	most practitioners would reel they could	Q: I'mreterring to the one that	
[12]	accomplish, then it's the more prudent way to	2] was for the reoperation, the exploration.	
[13]	go.	A: Yes, I have it in front me.	
[14]	And my comment in this	4] Q: Okay. In the first paragraph	
[15]	statement, in the point of this statement, was	5] under the brief history —	
[16]	that the 15-minute period during which the	6] A: Yes.	
[1.7]	decompensation from 45 to – depending on how	Q: — Muehlebach indicates that he	
[18]	the data is interpreted, no palpable blood	B) had chest tube drainage that was minimal and	
[19]	pressure, or difficult to assess blood pressure	9) then abruptly drained 350 ccs from his chest	
[20]	from the time it occurs, is more rapid than	ing tube within 15 minutes.	
[21]	most practitioners would have anticipated.	Would you agree that that is	
[22]	Q: Now, Doctor, you make a	2] excessive bleeding and that that should have	
[23]	reference on page 2 in paragraph 2 as to the	s warranted an immediate trip to the OR?	
[24]	fact that the patient was taken to surgery	A: I agree, and as you said in the	
[25]	within an hour.	5] next line, the patient was immediately taken to	
	Page 154	I	Page 156
[1]	Oz	1] Oz	ugeroo
121	At Columbia Presbyterian when a	a operating room	
(=) [3]	poston patient is hemorrhaging does it take an	\sim 0: The 250 plus another 100 that	
[4]	hour to get them back into surgery?	a occurred within 15 minutes is recorded at line	
151	A : Frequently but it depends	$r_{\rm I}$ O at 2210?	
[6]	again how much they're hemorrhaging	$\sigma \Delta V_{\alpha}$	
[0]	A patient who has put out 250	\mathbf{r} \mathbf{O} : Is it your opinion that this	
(0)	a patient who has put out 250	7 Q. B. it your opinion that this	
[0] (0]	get anesthesis in from home, get the cell saver	a patient went to surgery within an nour?	
(10) [a]	system booked up, get the patient actually	9 A. NO, It looks like it look all	
[10]	bundled up with the drips and moved to the	of nour and 20 minutes to get to surgery.	
6.0	operating room and transferred to the new OR	1] Q. Doctor, he had a mean atternal	
[12]	table that hour period is the norm	2) pressure of 45 before leaving the unit.	
[[3]	O: And if it was considerably more	3] Would you agree that a mean	
[14]	Q. And if it was considerably more	4) arterial pressure in that range placed James	
[15]	olieeding than that, would you expect it to be	5] Long at risk for brain injury?	
[15]	At Of a surger there are times and here	6] A: I have had numerous patients who	
[17]	A: Of course there are times when we'll just pack them as fast as we can take	7) nave had, without atheroscierosis of their head	
[18]	the risks that we may pull things out in	B) vessels, who had that blood pressure for an	
[19]	the first statistic may pull things out in the second set them even there in 10 ar 15	9) nour or longer and not had any neurologic	
[20]	minutes	of sequerae at all.	
[21]	11111111115.	1) Q. Are more some patients that	
[22]	Q: Did you read Dr. Mueniebach s	2] will have neurological sequelae when the mean	
[23]	A: In his demosition on the	3) arterial pressure is down to 45?	
[24]	A: In his deposition of the	4] A: I believe there would be, and	
	hognital about?	- $+$ 1	

_

		Page 157		Page 159
[1]	Or		[1] OZ	Ū
[2]	lead to that but, yes, it's — some will.		(2) Q: After he had his reoperation,	
[3]	Q: Now your report also referred to		[3] did he have any evidence of right heart	
[4]	tamponade physiology.		[4] dysfunction?	
[5]	Does that differ from what we		[5] A: You have the — where is the	
[6]	have been talking about as far as tamponade?		[6] post — is this the CVP of — is the post — I	
[7]	A: Which — I say it several times.		[7] want the flow sheet when he gets back to the	
[8]	Is it, again, that second paragraph on the		[8] ICU.	
[9]	second page?		[9] Yeah, he does, actually, and	
[10]	Q: You've mentioned — well, there		I = I noted it not in the report but when I	
[11]	is in the second paragraph in the $-$ on the		1] read it the first time, and this is very, very	
[12]	second page does indicate sudden blood loss		2] common.	
[13]	causes tamponade physiology, and I'm asking –		Because when patients get a lot	
[14]	we've been talking about cardiac tamponade and		4) of fluid, as he did, it takes them a while to	
[15]	I'm wondering what you mean by a "tamponade		5] digest that fluid, so to speak. It hangs	
[16]	physiology"?		6] around in their intravascular space, it leads	
[17]	A: Tamponade physiology in this		7] to changes in their lung resistance, and will	
[18]	setting to me means inadequate profusion		8] give them transient elevations in central	
[19]	pressure caused by blood accumulating around		9) venous pressure.	
[20]	the heart.		What you see at 2:30 in the	
[21]	Q: In your opinion James Long did	-	¹¹ morning is a CVP of 20, which is a number	
[22]	have an accumulation of blood around his heart		$\frac{12}{2}$ that — that was the worst it got	
[23]	that then caused him to go into cardiac		r_{3} preoperatively, and continues to $-$ in that	
[24]	decompensation?		vein and drops a few millimeters over the next	
[25]	A: That's my summary of what		six hours.	
	~~	Page 158		Page 160
[1]	or	Page 158	[1] Oz	Page 160
[1] [2]	Or happened, yes.	Page 158	[1] Oz [2] Q: So based on his central venous	Page 160
[1] [2] [3]	<i>Or</i> happened, yes. Q: And do you have an opinion as to	Page 1 58	Oz [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of	Page 160
[1] [2] [3] [4]	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started?	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? 	Page 160
[1] [2] [3] [4] [5]	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it 	Page 160
[1] [2] [3] [4] [5] [6]	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's 	Page 160
[1] [2] [3] [4] [5] [6] [7]	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology f ist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the L avenhed	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. O: But my question was when did it	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [9] Do you have any criticisms of 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of (4) the pursing care that lames Long received while 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start if you can tell me?	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] be was in the ICU? 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well if L define tamponade	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] O: Are you critical of the nurses 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body.	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point.	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation.	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation, because that's when he first got blood around	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. [9] There did not seem to be lot of concern over 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation, because that's when he first got blood around his heart, so those first few corpuscles of	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. [9] There did not seem to be lot of concern over [1] whether or not left-heart dysfunction was the 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation, because that's when he first got blood around his heart, so those first few corpuscles of blood were accumulating hours earlier.	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. [9] There did not seem to be lot of concern over [1] whether or not left-heart dysfunction was the [2] biggest problem here. 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation, because that's when he first got blood around his heart, so those first few corpuscles of blood were accumulating hours earlier. But it only created a problem	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. [9] There did not seem to be lot of concern over [1] whether or not left-heart dysfunction was the [2] biggest problem here. [3] The PA pressures had been 	Page 160
 [1] [2] [3] [4] [5] [6] [7] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	<i>Or</i> happened, yes. Q: And do you have an opinion as to when this tamponade physiology fist started? A: I think that it became critical to this patient at 2310. Because that's when a blood pressure which had been fairly stable for the prior hour dropped down below 90 again and when they went up on the Levophed. Q: But my question was when did it first sort?When did the tamponade fist — physiology fist start, if you can tell me? A: Well, if I define tamponade physiology by a tamponade condition that causes inadequate flood flow or some optimal blood flow, better stated, to the rest of the body, then that would be the right time point. When did it start?The moment they opened his chest at the fist operation, because that's when he first got blood around his heart, so those first few corpuscles of blood were accumulating hours earlier. But it only created a problem for this patient that I think was an urgent one	Page 158	 [1] Oz [2] Q: So based on his central venous [3] pressure you feel he continued to have signs of [4] right ventricular dysfunction after surgery? [5] A: Well, we don't really call it [6] right ventricular dysfunction, we use — it's [7] right-sided circulatory dysfunction. [8] But the sort of the lay [9] equivalent would be right heart failure. [0] Q: Do you have any criticisms of [1] the nursing care that James Long received while [2] he was in the ICU? [3] A: No. [4] Q: Are you critical of the nurses [5] for failing to take pulmonary artery pressures [6] for the last two hours and 20 minutes that he [7] was in the ICU? [8] A: No, because the cardiac index is [9] really telling you what you needed to know. [9] There did not seem to be lot of concern over [1] whether or not left-heart dysfunction was the [2] biggest problem here. [3] The PA pressures had been [4] measured prior to that. The cardiac index was 	Page 160

Cl	eveland Clinic Foundation		May	16, 2002
	Ρασε	161		Page 163
[1]	Oz	101	(1) O 7	1 age 105
[2]	measured up 'til 2210		I should say measuring — not	
(3)	0: But for the last hour and 20		⁽²⁾ writing down the PA pressures would have been	
[4]	minutes you have no idea what his cardiac index		accentable	
(T) (5)	was correct?		Because the PA pressures were	
[0]	A: That's correct		because the mapitor easily readable by	
[0] [7]	I suspect at 2200 or so		a probably on the monitor, easily readable by	
[/]	although I don't know exactly how the packaging		m don't think charting it you know every time	
[0]	is done they were focusing their efforts on		(s) don't tillik charting it, you know, every tille	
(40)	moving him		y CLI for four or five hours is that critical any	
[10]	So it would not be uncommon for			
[11]	the last 20 minutes to a helf hour for them not		1) more.	
[12]	the last 20 minutes to a han nour for them not		2] Q : Doctor, isn't one of the reasons	
[13]	Or World wells of numbers present.		3) why they are written down so you can observe	
[14]	Q: would pulmonary aftery pressures		4) trends in the PA pressures?	
[15]	nave provided any additional information		5] A: Of course, and they did write	
[16]	A Net state a sint success of a		6) them down for several hours.	
[17]	A: Not at that point any more, no.		7] But you observe trends. If	
[18]	Q: In your ICU now often do the		8) there is no trend, if it's a flat line, there	
[19]	nurses do pulmonary artery pressures on		9) is no significant benefit to the patient, which	
[20]	A: When there first some to the ICH		o is ultimately their goal, or continuing to	
[21]	A: when they first come to the ICU		i) chart a number that is not changing.	
[22]	they will do it every hour or so, but once you		²²] This patient's PA pressure when	
[23]	get past the early period and there's some		3) they came to the ICU was 28/10, and when they	
[24]	comfort level around the fact there's no major		stopped recording them it was 33/21.	
[25]	shift in them, then they II start charting them		¹⁵ These are essentially the same	
	Page	162		Page 164
[1]	Oz		[1] Oz	
[2]	every few hours instead of every hour.		[2] number, and they didn't vary more than 2 or	
[3]	Q: And in this instance the nurses		[3] 3-millimeters of mercury in between that time.	
[4]	stopped doing pulmonary artery pressures during		Q: So why bother writing them down	
[5]	the time period when his blood pressure was		[5] at all?	
[6]	below 90 systolic with epinephrine running and		A: You should write them early.We	
[7]	Levophed running.		would actually probably over this period have	
[8]	In your opinion was that		B) charted it three or four times, not ten times,	
[9]	appropriate for the nurses to stop doing the		9) which is what they did.	
[10]	pulmonary artery pressures when this patient		_{o]} But for the reason you said,	
[11]	had labile blood pressure?		1] appropriately state, you want to trend, follow	
[12]	A: Well, the pressures were		2) trends over time.	
[13]	increasing, actually, and the last measured		3] And so, you know, monitoring it	
[14]	pulmonary arterial pressure which was, I		4] or, you know, writing it down, I should say,	
[15]	believe, at 2050 was done at a time when the		s every two or three hours is probably a	
[16]	blood pressure was on the upswing.		ej reasonable thing to do.	
[17]	It was 10-millimeters more than		η I don't think writing it down	
[18]	it had been 20 minutes earlier, and it		nore frequently than that is going to have any	
[19]	continued to improve from there with no real		9 impact. Especially on a patient who seem to	
[20]	reason over the next two hours to think that		oj be improving.	
[21]	there was anything going on except good things		Q: This patient had a portable	
[22]	for this patient.		2] chest x-ray that was done, I believe, around	
[23]	In our ICU, as I suspect in		1819 hour, around 6:19 p.m.	

- In our ICU, as I suspect in [23]
- [24] their's, measuring the PA pressures would have
- [25] been less important.

:4]

Do you have an opinion as to

s whether a repeat chest film should have been

	Page 16	5 Page 167
[1]	ΟZ	[1] OZ
[2]	done on him?	2 accumulated around your heart or you're
(31	A: It would not have been any	a experiencing significant injury to your right
[4]	benefit, and I feel strongly that it would not	at heart.
151	have been worthwhile.	$\frac{1}{10}$ $\frac{1}{10}$ Do you have an opinion as to
[6]	And in our ICU we would never	(5) Whether James Long was hypovolemic while in the
[0] [7]	have done it.	IS whether fames Long was hypovolenne while in the
181	Q : If a repeat had been done and it	re A: I do not believe be was
[9]	showed mediastinal widening, would that finding	w hypovolemic because his CVP was high
[10]	having raised a concern for cardiac tamponade?	[9] hypovolenne occause his CVP — if he
[443	A : Not necessarily because the CVP	0 Q. Okay. And it has 0 $T = 1$ he
1121	had increased a little bit from the earlier	rij was hypovolenne and mey were giving inin gi fluids would that mask some of the hemodynamic
1.21	chest x-ray so his right heart would swell	z changes that go along with cardiac tamponade?
(1.0)	and that could look bigger	a) Changes that go along with cardiac tamponade:
(145)	The pericardial space in these	4 M. JACKSON. Objection, asked
[10]	patients is often you know swollen up	si and answered, rod went through an
[10] H 71	postoperatively and they often have fluid	m MS TOSTI: Dector would you
1141	around their heart postoperatively so we don't	n answer my question please?
[10]	place much attention on the chest x-ray	\mathbf{A}_{i} answer my question, prease :
[10]	The radiologic studies in these	y recall from the first time was you're giving
[20]	patients are done for the doctor to feel better	is fluid to someone who is hypovolemic will that
[22]	usually They generally don't play a major	influence your ability to diagnose tamponade:
[23]	role in assisting us or convincing us in how	is that correct?
[24]	to act on our patients.	n = 0: L'intalking about James Long
1051	0: What's your opinion as to the	4] Q. T multing uboutburnes Long.
1201	Q. What syour opinion as to the	5 In this case, if he was hypovolemic, would it
[20]	Q. What syour opinion as to the	5] In this case, if he was hypovolemic, would it
[25]	Q. what syour opinion as to the Page 16	5 In this case, if he was hypovolemic, would it 6 Page 168
[1]	Page 16 Oz typical chest tube output for a patient that	5 In this case, if he was hypovolemic, would it Page 168 11 OZ 2 mask finds of cardiac tamponade?
[25] [1] [2]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would	 5 In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? a: I don't thirtk it actually masks
[1] [2] [3]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis?	 5 In this case, if he was hypovolemic, would it Page 168 1) OZ 2] mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him I think it would actually reveal tamponade
[25] [1] [2] [3] [4]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MB. JACKSON: I'm going to	 5 In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don't think it actually masks 4] him, I think it would actually reveal tamponade 5) earlier
[1] [2] [3] [4] [5] [6]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don't thirk it actually masks 4) him, I think it would actually reveal tamponade 5] earlier. a) Because hypovolemic patients do
[1] [2] [3] [4] [5] [6]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already.	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4] him, I think it would actually reveal tamponade 5] earlier. 6] Because hypovolemic patients do 7] not tolerate tamponade. They decompensate much
[1] [2] [3] [4] [5] [6] [7] [8]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead. Doctor.	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 21 mask finds of cardiac tamponade? 33 A: I don'tthink it actually masks 41 him, I think it would actually reveal tamponade 51 earlier. 63 Because hypovolemic patients do 77 not tolerate tamponade. They decompensate much 84 more quickly And in fact the first
 [25] [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthirk it actually masks 4) him, I think it would actually reveal tamponade 5] earlier. 6] Because hypovolemic patients do 7] not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so
[1] [2] [3] [4] [5] [6] [7] [8] [9] (10]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5] earlier. 6] Because hypovolemic patients do 7] not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so 9] that they recover and they can tolerate, you
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage.and then over the next two hours or	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6] Because hypovolemic patients do 7) not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so 9] that they recover and they can tolerate, you 11 know, going back to the operating room or at
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6] Because hypovolemic patients do 7) not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9) treatment for tamponade is to give fluid so 9) that they recover and they can tolerate, you 1) know, going back to the operating room or at 2) least whatever other test you think you want to
 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] 	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6] Because hypovolemic patients do 7) not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so 0] that they recover and they can tolerate, you 1] know, going back to the operating room or at 2] least whatever other test you think you want to a) do before you go back to the operating room.
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100	 5 In this case, if he was hypovolemic, would it Page 168 1) OZ 2 mask finds of cardiac tamponade? 3 A: I don'tthink it actually masks 4 him, I think it would actually reveal tamponade 5 earlier. 6 Because hypovolemic patients do 7 not tolerate tamponade. T hey decompensate much a) more quickly. And, in fact, the first 9 treatment for tamponade is to give fluid so 10 that they recover and they can tolerate, you 11 know, going back to the operating room or at 21 least whatever other test you think you want to 31 do before you go back to the operating room. 41 O: Doctor, should the nurses have
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level.	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 21 mask finds of cardiac tamponade? 33 A: I don'tthink it actually masks 41 him, I think it would actually reveal tamponade 51 earlier. 61 Because hypovolemic patients do 77 not tolerate tamponade. T hey decompensate much 61 more quickly. And, in fact, the first 62 treatment for tamponade is to give fluid so 63 that they recover and they can tolerate, you 64 they recover and the operating room. 65 to before you go back to the operating room. 66 to before you go back to the operating room. 67 Doctor, should the nurses have 69 been milking or squeezing James Long's chest
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6] Because hypovolemic patients do 7] not tolerate tamponade. They decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so 9] that they recover and they can tolerate, you 1] know, going back to the operating room or at 2] least whatever other test you think you want to 3] do before you go back to the operating room. 4] Q: Doctor, should the nurses have 5] been milking or squeezing James Long's chest 6] tubes at regular intervals to keep them free
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [12] [13] [14] [15] [16] [17]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage, and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 21 mask finds of cardiac tamponade? 3] A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5] earlier. 6] Because hypovolemic patients do 7] not tolerate tamponade. T hey decompensate much 8] more quickly. And, in fact, the first 9] treatment for tamponade is to give fluid so 0] that they recover and they can tolerate, you 1] know, going back to the operating room or at 2] least whatever other test you think you want to 3] do before you go back to the operating room. 4] Q: Doctor, should the nurses have 5] been milking or squeezing James Long's chest 6] tubes at regular intervals to keep them free 7] from clots?
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3) A: I don'tthink it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6] Because hypovolemic patients do 7) not tolerate tamponade. They decompensate much a) more quickly. And, in fact, the first 9) treatment for tamponade is to give fluid so 10) that they recover and they can tolerate, you 11) know, going back to the operating room or at 2) least whatever other test you think you want to 3) do before you go back to the operating room. 4) Q: Doctor, should the nurses have 5) been milking or squeezing James Long's chest 6] tubes at regular intervals to keep them free 7) from clots? 8] A: There's been discussion about
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade?	 5) In this case, if he was hypovolemic, would it Page 168 1) OZ 2) mask finds of cardiac tamponade? 3) A: I don't think it actually masks 4) him, I think it would actually reveal tamponade 5) earlier. 6) Because hypovolemic patients do 7) not tolerate tamponade. They decompensate much a) more quickly. And, in fact, the first 9) treatment for tamponade is to give fluid so 10) that they recover and they can tolerate, you 11) know, going back to the operating room or at 2) least whatever other test you think you want to 3) do before you go back to the operating room. 4) Q: Doctor, should the nurses have 5) been milking or squeezing James Long's chest 6) tubes at regular intervals to keep them free 7) from clots? 8) A: There's been discussion about 9) the value of milking chest tubes in our ICUs
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage, and then over the next two hours or three hours with a drop down to in the range of 100 to 125.And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade? A: I don'tthink the diastolic	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 2 mask finds of cardiac tamponade? 3 A: I don'tthink it actually masks 4 him, I think nt would actually reveal tamponade 5 earlier. 6 Because hypovolemic patients do 7 not tolerate tamponade. They decompensate much a) more quickly. And, in fact, the first 9 treatment for tamponade is to give fluid so 10 that they recover and they can tolerate, you 11 know, going back to the operating room or at 2) least whatever other test you think you want to 31 do before you go back to the operating room. 41 Q: Doctor, should the nurses have 5 been milking or squeezing James Long's chest 61 tubes at regular intervals to keep them free 71 from clots? 83 A: There's been discussion about 93 the value of milking chest tubes in our ICUs 93 since I was a resident; and 50 me nurses do it,
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18] [19] [20] [21]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead,Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage,and then over the next two hours or three hours with a drop down to in the range of 100 to 125. And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there 's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade? A: I don'tthink the diastolic blood pressure is all that helpful, but the CVP	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 2 mask finds of cardiac tamponade? 3 A: I don'tthink it actually masks 4 him, I think it would actually reveal tamponade 5 earlier. 6 Because hypovolemic patients do 7 not tolerate tamponade. They decompensate much 8 more quickly. And, in fact, the first 9 treatment for tamponade is to give fluid so 10 that they recover and they can tolerate, you 11 know, going back to the operating room or at 2 least whatever other test you think you want to 3 do before you go back to the operating room. 4 Q: Doctor, should the nurses have 5 been milking or squeezing James Long's chest 6 tubes at regular intervals to keep them free 7 from clots? 8 A: There's been discussion about 9 the value of milking chest tubes in our ICUs 9 since I was a resident; and 30 me nurses do it, 1) some don't.
[1] [2] [3] [4] [5] [6] [7] [8] [7] [8] [10] [11] [12] [12] [13] [12] [13] [14] [15] [15] [16] [17] [18] [20] [21] [22]	Page 16 Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage, and then over the next two hours or three hours with a drop down to in the range of 100 to 125. And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade? A: I don'tthink the diastolic blood pressure is all that helpful, but the CVP can be helpful.	 5 In this case, if he was hypovolemic, would it Page 168 11 OZ 2 mask finds of cardiac tamponade? 3 A: I don'tthink it actually masks 4 him, I think it would actually reveal tamponade 5 earlier. 6 Because hypovolemic patients do 7 not tolerate tamponade. T hey decompensate much e) more quickly. And, in fact, the first e) treatment for tamponade is to give fluid so e) that they recover and they can tolerate, you 1) know, going back to the operating room or at 2) least whatever other test you think you want to a) do before you go back to the operating room. 4] Q: Doctor, should the nurses have 5) been milking or squeezing James Long's chest e) tubes at regular intervals to keep them free 7) from clots? g A: There's been discussion about e) the value of milking chest tubes in our ICUs e) since I was a resident; and some nurses do it, f) some don't. g) I've never personally felt
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [16] [17] [18] [19] [20] [21] [22] [23]	Q: what syoul opinion as to the Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage, and then over the next two hours or three hours with a drop down to in the range of 100 to 125. And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade? A: I don't think the diastolic blood pressure is all that helpful, but the CVP can be helpful. And if your CVP was seven and	 5 In this case, if he was hypovolemic, would it Page 168 Page 168 OZ mask finds of cardiac tamponade? a A: I don'tthink it actually masks him, I think it would actually reveal tamponade earlier. Because hypovolemic patients do not tolerate tamponade. 1 hey decompensate much more quickly. And, in fact, the first treatment for tamponade is to give fluid so that they recover and they can tolerate, you know, going back to the operating room or at least whatever other test you think you want to do before you go back to the operating room. Q: Doctor, should the nurses have been milking or squeezing James Long's chest tubes at regular intervals to keep them free from clots? A: There's been discussion about the value of milking chest tubes in our ICUs since I was a resident; and some nurses do it, some don't. I've never personally felt convinced that milking them makes all that much
[1] [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24]	Q: what syoul opinion as to the Oz typical chest tube output for a patient that has undergone this type of surgery?What would you expect on a hourly basis? MR. JACKSON: I'm going to object. I think you have been through that already. But go ahead, Doctor. A: I would expect for the first three hours to have around 200 ccs an hour of drainage, and then over the next two hours or three hours with a drop down to in the range of 100 to 125. And then after that, after the sixth or seventh hour to drip down below 100 and stay at that level. Q: If there's a rise in the CVP pressure and diastolic blood pressure, does that — is that sometimes an indicator of bleeding in cardiac tamponade? A: I don't think the diastolic blood pressure is all that helpful, but the CVP can be helpful. And if your CVP was seven and all of a sudden it was 20, that's a pretty good	 5 In this case, if he was hypovolemic, would it Page 168 Page 168 OZ mask finds of cardiac tamponade? A: I don'tthink it actually masks him, I think nt would actually reveal tamponade earlier. Because hypovolemic patients do not tolerate tamponade. They decompensate much more quickly. And, in fact, the first treatment for tamponade is to give fluid so that they recover and they can tolerate, you know, going back to the operating room or at least whatever other test you think you want to do before you go back to the operating room. Q: Doctor, should the nurses have been milking or squeezing James Long's chest tubes at regular intervals to keep them free from clots? A: There's been discussion about the value of milking chest tubes in our ICUs since I was a resident; and 50me nurses do it, some don't. I've never personally felt convinced that milking them makes all that much of a difference. Because they don't clot in

	Page 16	9		Page171
[1]	Oz	[1	1] Oz	
[2]	chest. And so applying high degree of negative	[2	y which hospital it is, attending staff in the	
[3]	suction transiently, sort of shutters the chest	[3	ICU at night, they will play a role obviously	
[4]	tube and, you know, potentially could dislodge	[4	as well.	
[5]	some clot.	[5	Q: My question was in regard to	
[6]	But it actually hurts patients	[6	j James Long in this case. So who do you feel	
[7]	quite a bit if they're beginning to awaken, and	[7	y was responsible for that management?	
[8]	we generally do not do it.	[8	A: It would seem to be	
[9]	Q: For your patients in the ICU do	[9	Dr. Muehlebach and the two nurses who were in	
[10]	the nurses do it on your patients?	10	y charge of Mr. Long will be the ones who take	
[11]	A: Not generally, no.	11	primary responsibility.	
[12]	Q: Is that a choice that is made by	12	Q : What about Dr. Hernandez?	
[13]	the individual surgeon?	13	THE WITNESS: He was the	
[14]	A: No, it's made by the nurses.	14	resident; wasn't he?	
[15]	Q: That they want the nurses to do	15	MR. JACKSON: Yes.	
[16]	that?	16	A: Dr. Hernandez as well would be	
[17]	A: No, it's not made by the	17	involved in observing it.	
[18]	surgeon, it's made by the nurses. This is part	18	But I'm trying to, as most of us	
[19]	of their art.	19	do, identify the point person, the decision	
[20]	And if they feel milking the	20]	maker on the team. And I think that would have	
[21]	chest tubes helps them keep better track of	21] been Muehlebach more than Hernandez, if I	
[22]	what is going on, you know, then we let them do	22	remember their hierarchy correctly.	
[23]	that.	23	Q: Did Dr. Yared have any	
[24]	Q: Now I believe your report	24]	responsibilities for managing this patient in	
[25]	indicates on page 2 in paragraph 3 that	25	the postoperative ICU in regard to his surgical	
	Page 17	, 🗌		Page 172
[1]	Oz	[1]] Oz	
[2]	additional testing could have delayed the	[2]	1 problems, chest tube drainage?	
(3)	return to the operative suite.	(3)	\mathbf{A} : I don't believe so, no.	
[4]	What test are you referring to?	[4]	I don't think that's how their	
[5]	A: Echocardiograms, chest x-rays.	151	ICU runs, but that is an institution specific	
[6]	Q: What point in time are you	(6)	process, and I really can't make a judgment on	
[7]	referring to them delaying the return to the	17	that.	
[8]	operative suite?	[8]	Q : When James Long had 250 ccs of	
[9]	A: After 2230 or so.	[9]	output from his chest tube at 2210 hour, should	
[10]	When people became — when	10	he have been seen by a physician at the	
[11]	Dr. Muehlebach became aware it seem at 2250	11	bedside?	
[12]	that there had been a significant increase in	12	A: No, because his blood pressure	
[13]	chest tube output, so certainly from the time a	(3)	was continuing to be stable.	
[14]	physician was clearly aware there was a chest	[4]	As I mentioned for the first	
[15]	tube drainage issue, the wrong move would have	15]	250, it would not have been uncommon for him to	
[16]	been to order a bunch of tests and go back to	16	periodically dump fluid out of those chest	
[17]	sleep and await the results of these studies.	17	tubes.	
[18]	Q: Who in your opinion from a	18]	Without other evidence that	
[19]	medical perspective was responsible for	19	there was something going on that was	
[20]	monitoring James Long while he was in the ICU?	20]	detrimental to his well being, he should have	
[21]	A: It's a shared responsibility	21]	been seen on the regular rounds that would	
[22]	between the nurse who is $-$ and other members	22]	occur. But there was no urgency of it	
[23]	of her team taking care of the patient and the	23]	happening right then.	
[24]	resident or house staff involved in the care.	24]	In fact, at 2250 his blood	
[25]	If there are still, depending	251	pressure was as high as it had been at 2210 .	

	Page 173		Page 175
[1]	Oz	[1] Oz	C
[2]	Q: Now would you agree that when a	(2) operating room when it became less clear to me	
[3]	serious complication occurs early in the	(3) that he had any profusion pressure.	
[4]	postoperative period that the surgeon has a	I say that having been in this	
[5]	duty to keep the patient's family informed	s setting many times, and when you're	
[6]	regarding the patient's condition?	for transferring drips and lines and all the other	
[7]	MR. JACKSON: Objection.	¹⁷¹ things that are happening when you transport a	
[8]	Go ahead, Doctor.	a patient, there are periods of time when you	
[9]	A: I'll tell you our protocol. I	¹⁹ really just don'tknow what the blood pressure	
[10]	generally avoid calling patient's families	101 is.	
[11]	between 10, 11 and 6:30, 7 in the morning, an	0: Do you have an opinion as to	
[12]	I don't call them — unless there is something	121 what point in time James Long's condition was	
[13]	that I need to let them know that was clearly	131 irreversible, in other words, his brain damage	
[14]	bad for the patient, like they died, because	14) was not going to $-$ it was going to take place.	
[15]	with the example of postoperative bleeding, it	151 there was no treatment that was going to	
[16]	awakens everybody, it alarms the family, they	161 reverse it?	
[17]	don't go back to sleep again, and they spend	A: I suspect that it was the five	
[18]	the entire evening fretting over what in most	18) to seven minute period around 2345.	
[19]	cases is an uneventful reexploration and	0: Now if James Long had recovered	
[20]	solution that is handled by the surgical team.	^{20]} from his aortic valve surgery neurologically	
[21]	So the first thing the next	211 intact, do you have an opinion as to his likely	
[22]	morning I will call the family and try to catch	22] life expectancy?	
[23]	them at home, usually around seven in the	A: From what I could read in the	
[24]	morning, and alert them to the fact that we	²⁴) chart, although I never met him, obviously, I	
[25]	went back to the operating room, that if things	25] would have expected him to have a reasonable	
	Page 174		Page 176
[1]	OZ	[1] Oz	
[2]	are okay they're okay, and here's our game plan		
[3]	for the following day	[2] The expectancy. These nomographs will usually	
	for the following day.	[2] last 15 years before the need to reoperate.	
[4]	Q: Do you do that personally if	 [2] Interexpectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the - and most of 	
[4] [5]	Q: Do you do that personally if you're the one that does the reoperation or if	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the - and most of [5] the patients who have these homographs, I would 	
[4] [5] [6]	Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten 	
[4] [5] [6] [7]	Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery?	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed 	
[4] [5] [6] [7] [8]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [6] for this indication. 	
[4] [5] [6] [7] [8] [9]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 	
[4] [5] [6] [7] [8] [9] [10]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 	
[4] [5] [6] [7] [8] [9] [10] [11]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 	
[4] [5] [7] [8] [9] [10] [11] [12]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 	
[4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [16] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] 	Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James Long suffered neurologic complications as a 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 20] occurred in the late evening hours of his day 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] 	Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James Long suffered neurologic complications as a result of hypotension?	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 20] occurred in the late evening hours of his day 21] of surgery,8/20/96. 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [14] [15] [16] [17] [18] [19] [20] [21] [22] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James Long suffered neurologic complications as a result of hypotension? A: Yes. Q: Do you have an opinion as to 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 20] occurred in the late evening hours of his day 21] of surgery,8/20/96. 22] Q: Now, Doctor, did you have an 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James Long suffered neurologic complications as a result of hypotension? A: Yes. Q: Do you have an opinion as to 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 20] occurred in the late evening hours of his day 21] of surgery,8/20/96. 22] Q: Now, Doctor, did you have an 23] opportunity to review the limited autopsy that 	
 [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] 	 Q: Do you do that personally if you're the one that does the reoperation or if it was your patient initially for the first surgery? A: I generally call myself out of etiquette, but there have been times when I have been tied up in another case already or an emergency that I've asked the member of my team to do so. Q: And would you agree that the surgeon should respond in a reasonably prompt manner to inquiries made by the immediate family of a patient that has suffered a complication from surgery? A: Yes. Q: Is it your opinion that James Long suffered neurologic complications as a result of hypotension? A: Yes. Q: Do you have an opinion as to when James Long's brain damage occurred? 	 [2] The expectancy. These homographs will usually [3] last 15 years before the need to reoperate. [4] And most of the — and most of [5] the patients who have these homographs, I would [6] say more than 85 percent, will be alive at ten [7] years after the operation, if they're placed [8] for this indication. [9] Q: Do you have an opinion as to 10] whether his death was preventible? 11] A: I don't believe his death was 12] preventible by humans acting on the knowledge 13] that they had and with the experience that they 14] probably have gained over years working with 15] these patients. 16] Q: Do you have an opinion as to 17] what caused his death? 18] A: I believe it was sudden 19] hemorrhage associated with tamponade which 20] occurred in the late evening hours of his day 21] of surgery,8/20/96. 22] Q: Now, Doctor, did you have an 23] opportunity to review the limited autopsy that 24] was done on James Long'sheart? 	

_	evenine entitle i oundation		
	Page 177		Page 179
[1]	Oz	[1] Oz	
[2]	first reviewed this. I will look at it again.	ra urine output while he was in the ICU?	
[3]	I don't recall anything unusual about it.	A : Well as I'm sure you know.	
[4]	Q : And is there anything in that	(a) Lasix is called that because it lasts six	
151	autopsy that is of importance to you in	5 hours	
[6]	formulating your opinions in this case?	So although the initial impact	
 [7]	A : Well the hypertrophy of the	is early it will increase urine output for up	
[1] [8]	heart is an issue we talked about earlier and	is to six hours	
[0]	I won't go into again There is literature on	\mathbf{a} \mathbf{a}: So in regard to this patient's	
[10]	the role of hypertrophy in curtailing life	y urinary output if the nationt was temponading	
[10]	expectancy that is pertinent to this gentleman	u as you said he was at the end of his ICU stay	
101	The fact that he had a	i as you said he was at the end of his CO stay,	
[12]	mechanical bridge in his left anterior	z; the fact that he was sum having unne output	
[10]	descending artery I don't think is as relevant	a related to the Lexiv?	
1151	The rest of the report was	4) Telated to the Lasix: \mathbf{A} : Not any more after 2210 I	
(10)	hasically a weighing of different organs and	5 A. Not any more after 2210.1	
[10]	documentation of what his body looked like	$\frac{1}{7}$ A0-minute period and that's a superb amount of	
(17) (18)	without any real evidence that I think impacts	y urinary output that long after arriving at the	
(19) (19)	on my thoughts in this case	a ICI	
1001	Q : Now, over the course of time	$a_{\rm m}$ And so I think that was what he	
[20]	that James Long was in the ICU, his hematocrit	y was really doing He had fluid on board he	
[22]	hemoglobin were dropping, and I believe there's	a was able to urinate he was adequately	
[23]	a series of four values that appear on the	profused and we don't really have any evidence	
[24]	right-hand side of the flow sleet in one of the	is produced, and we don't reary have any evidence	
[25]	last columns there.	MS. TOSTI: We'realmost	
<u> </u>	Page 178		Page 180
[1]	Oz	1] Oz	Fage 100
(2)	Would that decrease that is	a finished here Doctor let me just do	
141 [3]	recorded in the hemoglobin and hematocrit be	a quick look at my notes	
[0] [4]	suggestive of bleeding in this national's case?	(Pause)	
151	A : It would suggest that there was	BY MR. JACKSON:	
161	bleeding, but only as the process got later in	s. O: Doctor are you critical of any	
[7]	the evening.	τ of the medical care that was rendered to lames	
(8)	The initial hematocrit and the	at Long?	
[9]	hematocrit that was then at 1910 were both in	A: I'm not, and I did look at this	
[10]	the mid 30s, which reflects really no bleeding.	or chart critically because most 50-year-old men	
[11]	effectively.	1) having heart surgery don't die. But I find no	
	So only at – I don't know if	a place in here where I would have the acted	
[13]	these hematocrits were the times when they were	a) differently.	
[14]	sent or when they were received, but at 2110	0: Have we covered all of the	
[15]	they report a hematocrit that is still over 30,	5 opinions that you currently hold on this case?	
[16]	which is quite good for an open-heart surgical	\mathbf{A} : This is $-$ of the six	
[17]	patient.	7 depositions I've been involved with this has	
[18]	Many of our patients are — have	B) clearly been the most thorough, so I want to	
[19]	hematocrits in the low 20s at this juncture, so	en credit you for that.	
[20]	this gentleman did not have the kind of	I - everything that I ever	
[21]	bleeding that would worry me that much, on	1 thought about this case has been revealed	
[22]	average.	2) during this deposition, I believe.	
[23]	Q : Now, Doctor, this patient did	Q: And are there any opinions that	
[24]	receive some Lasix intraoperatively.	4] we haven't discussed that you hold in regard to	

- [24] receive some Lasix intraoperatively.
 - Would that have an effect on his [25]

5] this case that you plan to provide at trial?

-

	Page 181		-	Page 183
[1]	Oz	[1] [2]	CERTIFICATE	
[2]	A: None that I've thought of yet.	[3]	STATE OF NEW YORK)	
[3]	MS. TOSTJ: Welt, Doctor, if you)SS	
[4]	should arrive at any new opinions that	[4] [5]	COUNTY OF NEW YORK)	
[5]	you tend to offer at trial, I'd	[6]	I, LINDA D NOTO, a Certdied	
[6]	appreciate it if you please let	[7]	Shorthand Reporter, Registered	
[7]	defense counsel know, and I would then	[8]	Professional Reporter and Notary Public within and for the State of New York do	
[8]	reserve the right to continue your	[]o]	hereby certify	
[9]	deposition relative to any new	[11]	I reported the proceedings in the	
[10]	opinions that you have.	[12]	within entitled matter, and that the	
[11]	With that, I think your	[13]	such proceedings.	
[12]	deposition is completed, and I thank		I further certify that I am not	
[13]	you for your time.	[16]	related, by blood or marriage, to any of the parties in this matter and that I am	
[14]	THE WITNESS: Thank you very	[17]	in no way interested in the outcome of	
[15]	much.	[19]	this matter	
[16]	(Discussion off the record)	[20]	IN WITNESS WHEREOF, I have hereunto	
[17]	THE WITNESS: Could I read the	[21]	set my hand this 27 th day a liviay, 2002	
[18]	deposition when you complete it?	[23]		
119)		10.41	LINDA D NOTO, C S R , R P R.	
[20]	(Continued next page; no	[24]	License Number 001002 - N Y.	
[21]	deletions.)	1251		
[22]				
[23]				
[24]				
[25]				
	Page 182			
[1]	Oz			
[2]	THE VIDEO OPERATOR: The time is			
[3]	6:21 p.m., we're off the record. This			
[4]	ends our deposition for today.			
[5]				
[6]	(Time noted: 6:21 p.m.)			
[7]				
[8]				
[9]				
(1V) (44)	MEHMET C.OZ MD			
[11]	Similar C.O.S. M.D.			
(13)	Sworn and subscribed to before me, this			
[10]	day of . 2002.			
[14]	,,,,,,,,,,,,,,_,			
[15]				
[16]	Notary Public			
[17]	5			
[18]				
[19]				
[20]				
[21]				
[22]				
[23]				
[24]				
[25]				

[1]	1]	
[2]	2] May 16,2002	
[3]		
[4]	WITNESS PAC	
157	MEHMETC UZ, MD.	
[0]	By Me Tosti 4	
161		
[7]		
•••	Plaintiff's	
181	B) FOR IDENT. DESCRIPTION	PAGE
[9]	1 Two-page letter written to	7
	Mr. Jackson summarizing the	
[10]	views of Dr Oz of this case	
• •	dated November 19,1999	
[11]	1	
	2 Portions d the chart from the	7
[12]	admission of James Long from	
	8/20/96 to 9/13/96	
[13]		_
	3 Deposition of Jeffrey Vender	7
[141	1	7
	4 Large packet containing	1
[15]	different individuals	
[16]	including Dr. Cosgrove	
[]	Dr Muehlebach, Dr. Hernande	Z
(17)	1 and several of the nurses	-
[18]	5 Curriculum Vitae of Mehmet C	. 90
	Oz, M.D., updated March 29,	
[19]	2002	
[20]	REQUEST FOR DOCUM	ENTS
[21]] PAGE DESCRIPTION	
[22]] 13 I'm going to make a reque	st
	for any billings that the	
[23]	Doctor has made on this ca	se.
[24]] 24 Current copy of the curricu	lium
051	Vitae of Menmet C. OZ, M.D	
[25]	J	

}

Christopher S. Long v. Cleveland Clinic Foundation

1	124:25; 125:5, 7 2.5 65:15	30 178:15 300 100:16	9	added 145:22 addition 31:7; 55:12;
1 7:13;8:9;9:23;92:9; 122:2;127:23;130:19	2.9 136:5 20 78:3; 80:4; 134:17; 140:10; 142:7; 143:4;	30s 178:10 33/21 163:24 350 130:3; 148:21; 155:19	9/13/96 7:17;8:14 90 21:5;60:2, 15, 20;	63:25; 80:4; 105:8; 124:7; 125:20 additional 50:8, 10, 13;
1-millimeter 141:3	153:8 ; 156:10; 159:21; 160:16; 161:3, 12:162:18;	4	65:23;116:2, 17;118:15; 119:25;129:20;158:8;	55:14;76:20;93:12,12; 100:23;161:15;170:2
10 41:21;146:8, 18, 18;	166:24	1	162:6 96-year-old 16:5	additions 24:15; 25:5
154:20;173:11 IO-millimeters 162:17	148:22; 166:10	4 8:6, 21; 9:14, 23; 97:9;	97 83:21	addressing 118:11
10.66 116:9; 117:3	200-millimeters 102:18	117:4;121:25;123:5; 127:5;129:9;130:19	99 24:18	adequate 67:18;115:5;
100 41:12; 47:8; 127:11; 139:23: 145:18: 148:22:	182:13	40 117:14, 22; 130:22; 131:6 7, 24:132:4, 6, 11	A	adequately70:24; 88:5,
156:3; 166:13, 14	2030 145:25	12, 19, 22; 139:21	.	8;121:2;179:22 administrative 41:19,22
10032 5: 18 11 173:11	205 178:19	40-minute 139:7;179:17 400 40:25:142:15	AATS 35:6	admission7:16;8:13
12 68:11; 70:15; 72:3;	2110 142:18; 178:14	45 37:4; 120:19; 121:5;	ability 48(5;57:6;167:22 able 6:10;13(8;30:19;	admitted 121:8
88:11;103:8;106:23; 119:5:124:18	2130 115:24; 122:4; 133:11, 12, 20, 22, 25;	130:5;151:3;152:23; 153:8, 17:156:12, 23	100:13;116:2;130:16;	advertisement 94:8 advice 36:2
125 166:13	134:4, 12, 24, 25; 135:4, 7, 10:126:6 14:127:2:142:2	45\35 132:13	above 60:3; 65:16, 23;	affect 71:8
13 106:3; 107:3; 129:22 15 41:23: 61:8: 103:9:	2150 136:7; 139:2	46 115:8 4:25 90:12	78:3;121:2	affected 71:13
106:24; 107:3; 125:21;	22 150:18	4:45 90:20	absolute 126:6	affords 57:6
150:14, 21; 152:19; 154:20; 155:20; 156:4;	2200 161:7 2210 128:7: 129:10:	Б	Absolutely 82:15; 95:25; 96:19:98:17:122:10:	again 20:11; 24:2; 41:11; 43:16: 47:4: 83:12: 102:8.
176:3 15 minuto153:16	133:13; 134:15, 22; 135:8,		146:7	11;107:9;110:21;113:8;
150-millimeters 65:17	137:4; 138:3, 5, 7, 13, 19;	5 9:17; 52:13; 89:23;	Abstracted 8:17 academic 42:2,7	140:13, 23; 146:18; 154:6;
158 26:13	139:3;142:9;148:20; 149:4:156:5:161:2:	90: 16;99:9 5-millimeter 97:9	academics 41:20	155:5;157:8;158:8; 167:19;173:17;177:2,9
17 103:10, 14, 15, 25;	172:9, 25; 179:15	50 66:15, 17; 67:7, 15, 19,	acceptable 67:14;123:9; [25:8;163:4	against 24:3; 35:8; 96:5
104:8; 107:2; 108:4, 6; 140:12:143:4	2230 134:2, 5, 9, 10, 12, 16;135:7, 12, 15;170:9	133:13; 134:24; 135:11;	accepting 51:11, 18	age 66:8 agent 61:10: 147:18
17-millimeters103:2	2250 170:11; 172:24	140:14, 17;143:15; 145:18	accomplish153:12 sccomplished151:22	ago 18:17; 30:8; 32:24,
177 5:17 1819 167:23	2310 115:2;129:20;	50-year-old 180:10	according4:20;23:22;	24;33:25;34:13;155:5 agree 10:9;61:11;65:25;
1830 105:25;106:2;	158:6, 25 2330 120:17: 128:12:	500 127:6; 128:2; 148:21 52 41:2	133:5 iccumulated 148:3;	73:6, 11, 12, 15; 74:22;
146:6 1850 115:8:123:24	129:5;130:2	5:14 119:17	167:2	92:2;96:15;120:19,21;
19 7:12; 8:11; 115:4;	2345 130:21; 133:2, 7, 18; 137:22: 150:18; 175:18	5:15 119:20 5:25 128:20	26:14; 142:19; 157:19;	130;7;137;11;152;22; 155:21,24;156:13;173:2;
136:6 1910 122:2:178:9	24 69:18	5:26 128:23	158:22 iccumulation 72:14:	174:13 agreed 15:7
1930 108:6; 139:13;	24-hour 69:15 25 103:15	6	57:22	ahead 30:6; 90:9; 96:8;
140:22;141:10 1950 115:24:116:18	250 117:4; 125:12; 126:4,	U	ICCURATE 43:15	112:8; 113:19; 166:8; 173:8
1990s 38: 16	7, 10; 127:11; 128:3, 6; 129:15, 16;133:14;	\$047:8	icted 16:17; 40:5, 6;	ailment 137:15
1992 27:10 1993 28:15	135:24; 137:12; 139:11, 21, 22: 140:22, 24, 25:	5:19 164:23 5:21 182:3.6	rcting176:12	air 76:15;105:11,14,14; 106:7;144:16
1994 27:11; 47:17	141:10, 22; 145:23;	3:30 173:11	iction 5:3	alarms 173:16
1995 47:17 1996 45:3: 53:21:83:20:	172:8, 15; 179:16		tctions 145:4 tctual 23:13: 37:12:	alerted 80:23
109:12	28/10 163:23	/	9:25;64:18;66:24;	alive 176:6
1999 7:12; 8:11; 14:2; 19:25; 52:8; 92:13, 25	29th 24:21	7 173:11	19.10, 129.0, 191.0, 17, 1	allegation 21:17; 23:7 allegations 23:14
19th 52:7; 92:13, 25	2:30 159:20	75 41:12, 24; 115:8 7th 24:18	ictually 20:13; 37:19, 24; 7:10; 79:18; 82:2:	illeged 44:17
2	3	~	09:13; 126:23; 129:18;	illegedly 21:23 allow 68:13
		8	46:3; 154:10; 159:9;	allowed 21:15; 126:13;
2 7:18; 8:12; 109:15, 16, 20, 25:132:15, 16:141:2:	3 7:22;8:19;52:13;93:24; 9 7:9:102:23:169:25	3/20/96 7:17:8:14:	62:13;163:7;164:7; 68:3,4;169:6	135:23;136:2 illuded120:25
150:16;153:23, 23;164:2;	3-millimeters 140:18;	176:21	cute 73:13; 82:10	ilmost 45:19; 73.3;78:9;
1 69:25 2.0 115:9;123:9, 24;	164:3 3.3124:25:125:5	36/54 143:12	idd 77:8	ilong 167:13

Mehmet C. Oz, M.D. May 16, 2002

alter 101:11	93:19;95:12,14;96:14;	assuming 100:8	becomes 71:11; 85:10;	119:24; 120:15; 121:22;
altered 48:6	116:12:118:19:152:11:	assured 82:7:84:9	105:6:132:8:150:8	122:14; 124:20; 125:14,
	162:9	athorecelerooic 156/17	heds 68.18	18, 18, 22, 25; 129:20;
alternative 11/:8;148:8	appropriately 164 11	atheroscierosis 150:17	bodoido 99.10.151.14	130:12, 15, 17, 22; 131:7;
although 22:20;33:16;	appropriately 104.11	attach 89:24	Deuside 88:19; 151:14;	132:3.11.12:135:11:
46:11;49:19;61:5;71:22;	approximate 41:10; 55:7	attached 90:4	1/2:11	139:24:141:18, 23:
78:11;85:8;115:13;	approximately 13:25;	attempt 27.13	began 107:10; 136.14	143:11, 23:144:9:145:9
123:8;161:8;175:24;	14:23, 25; 40:22, 25; 41:7	attempts 151,20	beginning 116.17;169:7	148.3.149.2.152.12 14
179:6	aprotinin 147:16		begins 72:15	153.18 19.156.18
always 45:19:67:7:74:5.	arbitrarily 18:20	attending 69:8; 86:4, 7;	bogun 12/12	157.12 10 22.158.7 15
8:80:16 23:105:15	area 19:20:30:24:77:15:	171:2		20, 22, 162, 5, 11, 16
120:25:137:18	78.12.95.21.102.11	attention 87:7; 165:19	benalt 5:2;15:4	166.17 21.172.12 24
	137.12	attorney 10:15, 16, 21:	believes 36:18	175.0
	21026 27.4	21:6.14	below 66:17; 116:17;	
ambiguous 44:4		author 26:14	118:15; 119:25; 129:20;	bloodstream 63:4
American 27:9, 10; 35:7	arena 94:15	autopov 176/22, 25	132:6; 158:8; 162:6;	bloody 125:24
Amicar 145:6, 15, 25;	argue 123:17; 150:9		166:14	Board 27:4, 5, 10, 11;
146:11, 12; 147:4, 16, 18	argued 16:8; 76:21	1//3	benefit 16:12;76:21;	179:21
amount 31:9; 73:4;	argument 137:9	available 23:12; 53:20;	163:19;165:4	boards 40:3
74:15.22:79:24:141:18:	argumentative 35:21	69:17:86 19;109:14	benefits 58.7	body 62:9:130:13.17:
148:23:149:2:179:17	around 19:18:28:19:	Avenue 5:17	beside 9.8.13-18-39-13-	158:16:177:17
analyze 48:13	30:9: 39:8: 46:11: 72:14:	average 54:21; 91:24, 24;	59.15.79.21	bolus 146.4 8 25.147.6
anastomosis 122,8,10	73:21:78:25:81:24:	103:6.11;178:22	bet 91:20	11
	83:20:84:9:85:3:95:11:	avoid \$3:16:173:10	bet 91.20	hono 56:25:72:0
130(13, 20; 138(15, 17, 20; 120, 7, 20; 120, 7, 0, 14)	102:16:108:6:129:7:	avaidance (4:22	beta /1:23	
139:5, 8, 14	136:9:141:19:142:19:		better 40:21; 107:8;	DOOK 26:9, 19;43:4, 5, 6
anesthesia 130:21;	143:23:145:25:157:19,	avoided 36:19	136:4; 150:9; 158:16;	books 43:13, 15, 19
131:9, 20; 154:9	22;158:20;159:16;	await 170:17	165:21; 169.21	both 27:12; 28:21; 37:6;
anesthesiologist69:5,	161:24;164:22,23;	awaken 169:7	big 35:4; 58:3	123:3;148:25;149:15;
7, 22; 70:2, 7; 86:10	165:18;166:10;167:2;	awakens 173,16	bigger 165:14	178:9
anesthesiologists70:4	168:25; 173:23; 175:18	aware 80.24.83.11.	biggest 160:22	bother 147:7; 164:4
aneurism 15:13, 15, 16,	arrangements 40:2	101.22.105.22.110.19	billings13:12	bottom 65:18
17	arrival 110:20:111:2 20:	25.111.18.113.2.117.11	bills 12:20	brain 66:18, 20:67:8:
Angelique 9.5	113.4.130.20	25:137:23:170:11.14		156:15:174:24:175:13
answered 152:17	arrive 82:21:181:4	awareness 129.17	BioGiue 99:12	hreak 88:24:89:18-22
	arrived 120:0	awareness 129.17	Dit 13:15; 81:24; 88:25;	128.16.145.9
enterior 10//25/105/0/		away 47:10	89:8, 15; 98:11; 106:7;	breakdown 125:16
151.17.177.12	arriving81:12;179:18	10.0	125:14;142:8;165:12;	breast 45.00
	Art 26:21; 169:19	B		Diedst 45:42
	arterial 66:6, 16; 67.23;		bled 75.6;140:24	Brian 43:11
152:21, 24; 155:21	120 19;130:5;131:5,24;	hack 20.16.33.20.45 3.	bleed 65:11;98:7;100:6;	bridge 177:13
anticoagulation36:9	132 6, 11,19, 21; 139:16;	52:15 19:80:19 22 24	137 19;145:8, 13; 148:7,	brief 155:15
antifibrinolytic 147:18	14817, 22; 151:2; 152:23;	81:6:89:4:90:5, 19:96:22:	19,20, 21	briefly 121:12
aorta 98:25; 102:16;	156 11,14, 23; 162:14	106:9:108:2:115:22:	bleeder 139:21	bring 6:23:11:17:29:16:
105:9, 13; 139:17; 151:24	arteries 144:15	118:12:119:20:128:22.	bleeders 139:16;148:18,	86:15:121:19, 22, 23
Aortic 15:16, 17; 35:12,	artery 16:10; 57:13, 14;	25:129:14:138:10:	22	brisk35:19
12; 41:5; 52:12; 53:24;	105:9, 16; 106:8; 160:15;	140:12:147:12, 22:154:4;	bleeding 19:20; 22:23,	broached 151/9
54:10, 15, 25; 55:13, 24;	161:14, 19; 162:4, 10;	159:7; 168:11, 13; 170:16;	25;31:9, 15, 16, 19; 32:5,	broke 100.10
56:18, 20; 57:17, 24;	177:14	173:17, 25	19, 20; 52:11, 16; 72:9, 14;	DIOKE 100:12
58:11, 24; 59:5, 21, 24;	article 26:13	backing 126:17	96:21;97:2,5,17;99:17,	brought 33:15
60:12, 19; 63:6; 64:21;	articles 25:14, 18, 22;	backs75:16	22;100:2,24;101:17,21;	build 70:22
65:6, 7, 13; 90:25; 91:14;	26:7: 50:25:95:8	backside 82.2	102:18, 21; 127:19; 129:8,	built 29:20
98:15, 23; 104:13; 107:13;	aside 11:9:29:9:33:23:	bad 1 4 4 4 4 1 72 1 4	18;134:8, 14; 135:9;	bunch 17 0:16
121:13, 15, 16; 122:9, 12,	34:14:39:4, 11:51:5:	ball 144;4;175;14	137:16; 138:10, 14, 18;	bundled 154:11
19;124:13;125:3;135:8,	58:14:109:8	Dalls 31:13	139:4, 7, 13;147:25;	business 5:15
19,150,15,20,156,14,17,	assess 153:19	bare 53:23	140:15, 149:0, 14, 19,	Bynass 26:18:44:23:
20,101:20,175:20	assessing 73:9	baroreceptors 59:16	172,15,155,22,100,19,	45.8.47:5.55:12:57.15
apart 100:7	assessment 11/120	based 41:25; 95:25;	1/5.15,178.4, 0, 10, 21	22:69:2:96:23:122:6.11
apparent76:5, 14		108 17;129:2;137:20;	blockages 66:15	
appear 149:4; 177:23	assigned 70.8	138:2 5 ;142:24;145:4;	DIOCKER 71:23	C
appearance 21:3	assignment 51:18;92:20	160 2	blood 36:20; 53:9; 52:6,	L L
appears 81:24	assist 31:2, 4, 18	baseline 91:21	17,18;60:2,14,20;63:23;	
applying 169:2	assistance81:2	basically 177:16	54:5, 15, 18; 65:9, 10, 15,	C 4:17; 5:14; 12:5; 90:14;
appointment 42.2.7	assisting165:23	basis 6:18; 10:16; 70:3. 9:	19;67:4, 14, 20; 70:24;	182:11
annreciate 181%	associate 78:13	103:18;142:21;166:4	(119) / 2114, 25) / 35, 20, 22.75.15 20.76.0 10 10.	CABG 58:15
approach ##101.0	associated 80:6:91:13:	beating 45:14:47:4.10	23; / 2.1 2; 40; /0:0; 12; 18; 77:20: 78:25: 20:7: 24:0:	calculation 103:22
appi vacii 44:0; 22:44;	114:17:176:19	became 114:24: 139:9:	101.16.102.17.110.12	call 45:12:69:6.15.21
91·8 16 19	Association 35.7	158.5;170:10.11:175.2	114:12:115:3 7.14 17	22:81:7:104:3:128:18
Appropriate 25:11:	assume 6.9.64.14.66.12	become 18:3	116:2. 10. 11. 16:118:15:	160:5; 173:12, 22; 174:8
uphing 6 22:11				,

alter-call (2)

Min-U-Script®

Christopher S. Long v. Cleveland Clinic Foundation

-

Christopher S. Long v. **Cleveland Clinic Foundation**

called 24.6: 26.17, 20:	
	caring 107 19 140-15
27.16.20.2.25.6.68.0	
2/:10; 20.5; 55.0, 00.9;	Carret-Boyes 43:11
76:10;99:11,11;12013;	case 4:5: 7:11: 8:10: 9:
142:23; 179:4	11.18.12.15 22.13.4
calling 173.10	-11.10, 12.10, 24, 10.3, -0.4, 10.3, -0.4, 10.10, 12.10, 10.10, 10.2, -0.0,
	24;14:16, 21; 15:5, 7, 9
came 19:15; 21:25;	10, 14, 24, 16:3, 11, 18;
33:17:83:13.17:108:2;	17:5; 19:10, 15, 17, 23;
116.10.162.73	20.7 13 24.21.2 5 7
110.10,105.25	10.25.20 22.26.2 6
can 6:14; 10:8; 13:3, 5,	18;25:20, 25; 20:5, 0;
23, 25; 14; 12; 16; 20; 23; 7.	38:6, 7; 48:21; 49:15;
10 10 11 11 43 3 7	50:24;51:8,10,11,25;
	52.4.77.17.84.19:92.1
47.23;49:7;61:21;62:7;	21.02.2 12.04.22.05.
65:23;66:12;67:14;	21;95:2, 15;94:20, 95:0
70:20:71:3.6.14:72:8:	10;96:5, 10;100:25;
73 16 18 23 25 74 20	107:25; 110:13; 121:18
75,10,10,20,20,74.20,	127:4:141:13:144:25:
/3.5, 17, 70, 14, 25, 70, 9,	147.9 16.149.18.167.
13, 18; 79:8; 80:10; 85:8,	171.6.174.10.177.6.1
12;86:4,7;94.5;96:8;	1/1:0;1/4:10,1//:0,1
97:17:98:10, 12:99:7, 16:	178:4;180:15,21,25
101-19-102-7-105-6-	cases 13:18:14:22, 24
100.10.110.12.111.14	25.16.21 24.18.6 18.
109:10, 110:12, 111:14,	10.10 10.20.10 22.23
24;119:7;128:14;142:5;	19:19, 19; 20:19, 22; 22
152:2; 153:7; 154:18;	5, 10, 11, 14, 22; 23:2, 4
158 12 163 13 166 22	15, 18; 40:17, 18, 20, 25
160.10	41.3.47.8 11.61.8.82
108:10	6.04.9.00.0.140.2.
Canada 35:24	0;84:8;99:9;150:5;
candidate 93-19	173:19
	catastrophic 15:13:83
capacity 17:10; 40:7	oatch 172,22
capillaries 67:3	Calcil 175.22
oordigo 17, 2:6 12, 22;	Catherine 9:5
	catheterization77.11
23:3, 5; 26:20; 37:23;	
40:14;43:11,22;46:2,23;	catheters 64:12
49:23; 61:12; 62:2, 5, 11,	cause 61:15:72:2, 10;
15 17 63 7 17 20 25:	74.16.75.25.96.21.97
64.4 22 24.65.5 14 24.	D8:7:100:11:102:0:
119.9.4.66.69 (11.6.17.69.09.	
((1,2),(0,(-20),(0,2),(0,12))	107,100.11,102.2,
66:2; 68:6, 20; 69:2; 70:12,	107:12, 16; 110:12
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3,	107:12, 16; 110:12 caused 102:18; 104:20
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2,	107:12, 16; 110:12 caused 102:18; 104:20 139:6:141:23: 149:18:
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24: 75:13, 18, 22; 76:2,	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23:176:17
66:2;68:6,20;69:2;70:12, 14,16,21,22;71:18;72:3, 4,16;73:7,8,14,16;74:2, 5,24;75:13,18,22;76:2, 2:77:4,8:78:5,11,20,22	107:12, 16;110:12 caused 102:18;104:20 139:6;141:23;149:18; 157:19, 23;176:17
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24:70:6, 8, 12, 10:80:5;	107:12, 16;110:12 caused 102:18;104:20 139:6;141:23;149:18; 157:19, 23;176:17 causes 61:17, 17;
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5;	107:12, 16; 110:12 caused 102:18; 104:2(139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14
6:2; 65:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17
66:2; 68:6; 20; 69:2; 70:12, 14, 16; 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5; 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121, 5, 123:8, 10, 16, 23;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11:13(5; 137; 14)	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 14:4:8, 10:147; 15:150; 24:	107:12, 16; 110:12, caused 102:18; 104:20, 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13
6:2; (6:2; (6:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13
6:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 160; 18, 160; 18, 160; 160; 160; 160; 160; 160; 160; 160;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7
$\begin{array}{l} 6:2; 68:6, 20; 69:2; 70:12, \\ 14, 16, 21, 22; 71:18; 72:3, \\ 4, 16; 73:7, 8, 14, 16; 74:2, \\ 5, 24; 75:13, 18, 22; 76:2, \\ 2; 77:4, 8; 78:5, 11, 20, 22, \\ 24; 79:6, 8, 12, 19; 80:5; \\ 81:13; 82:14; 83:3; 84:25; \\ 87:2, 3, 15; 88:6, 10; 91:2; \\ 115:6, 9; 120:22, 23; \\ 121.5, 123:8, 10, 16, 23; \\ 130:7, 11; 136:5; 137:14; \\ 144:8, 19; 147:15; 150:24; \\ 151:4; 157:14, 23; 160:18, \\ 24; 161:4; 165:10; 166:19; \\ \end{array}$	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16;
6:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10:145:18, 18, 23
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23
6:2; (8:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117
6:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21	<pre>>>,107;12,16;110:12 caused 102:18;104:20 139;6;141:23;149:18; 157;19,23;176:17 causes 61:17,17; 144:17;148:12;157:13 158:14 causing 81:25;101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10;129:15,16; 141:10;145:18,18,23 ccs 72:23;100:16;117 125:11,12;126:7;127:1</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14:134:24:
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardiopulmonary 44:23;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 cs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 125:11, 24:137*12; 1280
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardiopulmonary 44:23; 45:8; 96:23; 122:5	<pre>>b(7);12,16;110:12 caused 102:18;104:20 139:6;141:23;149:18; 157:19,23;176:17 causes 61:17,17; 144:17;148:12;157:13 158:14 causing 81:25;101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10;129:15,16; 141:10;145:18,18,23 ccs 72:23;100:16;117 125:11,12;126:7;127:9 11,16;128:2,6;130:3; 133:13,14;134:24; 135:11,24;137:12;139</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardiopulmonary 44:23; 45:8; 96:23; 122:5 cardiothoracic 27:6;	<pre>>bit, 100:11, 101:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:2; 45:8; 96:23; 122:5 cardiothoracic 27:6; 40:10, 13;42:14; 79:20;	<pre>>bit, 100:11, 102:13, 107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:3 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142:</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:12; 45:8; 96:23; 122:5 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9	<pre>>bin, 100:11, 101:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 Cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19;</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:12; 45:8; 96:23; 122:5 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18	<pre>>bit, 100:11, 102:13, 107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:25; cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18,	<pre>>bit, 100:11, 102:13, 107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 42, 5; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardiopulmonary 44:23; 45:8; 96:23; 122:5 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18, 25	<pre>>bit, 100:11, 101:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14</pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13;42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11;16:9; 17:9,	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16:22:11, 17, 19: 23:24:	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cave 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:1 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14 cell 154:9 Center 27:22, 24:93:2
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiotoscular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16; 22:11, 17, 19; 23:24; 20:22:92:23:95:23:96:23	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19; 80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10; 91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16; 22:11, 17, 19; 23:24; 29:22; 92:23; 95:23; 96:3, 18:100; 21:10; 10, 21:5;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 Cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 22, 23; 140:14, 12; 122, 24, 25; 141:23; 142; 135:11, 54:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14 cell 154:9 Center 27:22, 24; 93:2 94:10; 117:18
6:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16; 22:11, 17, 19; 23:24; 29:22; 92:23; 95:23; 96:3, 18; 100:21; 101:10, 10, 25;	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 135:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14 cell 154:9 Center 27:22, 24; 93:2 94:10; 117:18 centers 33:14; 94:9;
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13; 42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16; 22:11, 17, 19; 23:24; 29:22; 92:23; 95:23; 96:3, 18; 100:21; 101:10, 10, 25; 147:14; 160:11; 170:23,	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:0 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14 cell 154:9 Center 27:22, 24; 93:2 94:10; 117:18 centers 33:14; 94:9; 147:15
66:2; 68:6, 20; 69:2; 70:12, 14, 16, 21, 22; 71:18; 72:3, 4, 16; 73:7, 8, 14, 16; 74:2, 5, 24; 75:13, 18, 22; 76:2, 2; 77:4, 8; 78:5, 11, 20, 22, 24; 79:6, 8, 12, 19;80:5; 81:13; 82:14; 83:3; 84:25; 87:2, 3, 15; 88:6, 10;91:2; 115:6, 9; 120:22, 23; 121.5, 123:8, 10, 16, 23; 130:7, 11; 136:5; 137:14; 144:8, 19; 147:15; 150:24; 151:4; 157:14, 23; 160:18, 24; 161:4; 165:10; 166:19; 167:13; 168:2 cardial 114:18 cardioplegia 124:11; 138:21 cardioplegia 124:11; 138:21 cardiothoracic 27:6; 40:10, 13;42:14; 79:20; 88:9 cardiovascular 42:18, 25 care 15:5, 11; 16:9; 17:9, 16; 22:11, 17, 19; 23:24; 29:22; 92:23; 95:23; 96:3, 18;100:21; 101:10, 10, 25; 147:14; 160:11; 170:23, 24; 180:7	107:12, 16; 110:12 caused 102:18; 104:20 139:6; 141:23; 149:18; 157:19, 23; 176:17 causes 61:17, 17; 144:17; 148:12; 157:13 158:14 causing 81:25; 101:17 140:21 caution 44:15 cava 85:13 cavity 72:7 cc 126:10; 129:15, 16; 141:10; 145:18, 18, 23 ccs 72:23; 100:16; 117 125:11, 12; 126:7; 127:3 11, 16; 128:2, 6; 130:3; 133:13, 14; 134:24; 135:11, 24; 137:12; 139 11, 21, 22, 23; 140:14, 1 22, 24, 25; 141:23; 142: 143:15; 154:8; 155:19; 166:10; 172:8; 179:16 ceased 81:14 cell 154:9 Center 27:22, 24; 93:2 94:10; 117:18 centers 33:14; 94:9; 147:15 central 63:11:74:20:

caretaker 22:20

159:18:160:2 9;140:15 cerebral 66:6 certainly 118:24; 170:13 1:8:10;9:24; 22; 13:4, 13, certificate 27:9 ;15:3,7,9, certifications 27:8, 13 :3, 11, 18; certified 27:4, 5 challenge 36:2 21:2, 5, 7, 13, challenges 38:3; 41:22 chamber 104:24 chameleon 78:8 4:19:92:10. change 76:11; 119:14; 94:23;95:8, 123:7, 12; 135:16; 141:2; 143:8 13;121:18; changed 144:25; 145:3 changes 48:4; 77:6; 9:18;167:25; 126:2; 159:17; 167:13 0;177:6,19; changing 163:21 charge 18:8, 23; 33:11; ; 14:22, 24,39:9:171:10 chart 7:16; 8:13, 18; 19, 22; 22:2, 108:5;112:14;135:6; 22; 23:2, 4, 8, 145:24; 154:25; 155:2; 18, 20, 25; 163:21; 175:24; 180:10 :61:8:82:5. charted 134:7; 135:8; 164:8 charting 135:6; 161:25; ic15:13;82:6 163:8 charts 24:4 :heck 67:10, 24; 146:14; 147:12 chemicals 63:3 **chest** 45:20, 23; 53:16; 96:21;97:4; 72:7; 73:22; 74:23; 75:3, 6, 5, 9, 12, 16, 16, 21; 77:2; 78:21; 79:22, 24; 87:2, IO; 18;104:20; 38:19;100:15;125:11,24; 126:25; 127:25; 129:15; 130:2; 133:22; 134:7; 137:13; 138:24; 139:12; 2;157:13; 140:25; 142:15; 143:14; 145:18, 23; 148:4; 151:13, 18, 20; 152:11; 155:18, 19; 25; 101:17; 158:19; 164:22, 25; 165:13, 19; 166:2; 168:15, 19;169:2, 3, 21; 170:5, 13, 14:172:2, 9, 16 :hief 32:13 :hildren 67:6 :hoice 169:12 00:16;117:4; :hoose 6:16 26:7;127:6, :hosen 137:25 **Christopher** 4:5 37:12; 139:2, :hronic 77:14 ; 140:14, 17,:irculation 74:17 1:23;142:15; :irculatory 160:7 ;ircumstances 70:18 **City** 5:11 **Civil** 5:6;17:12 :laim 24:3 2,24;93:25; :larify 58:23 :lear 6:22; 21:19; 37:10; 51:21;94:9;112:15; 37:2;139:9;140:11; 41:5; 142:9; 175:2 :leared 58:13; 106:11

88:3;106:2, 13;142:25;

Mehmet C. Oz, M.D. May 16, 2002

173:13:180:18

climb 107:15

clinical 33:10; 40:4;

clinicians 76:22

clogged 140:6

closely 32:6

:lotted 73:21

coated 31:14

141:18

117:7

collected 48:12

collecting 126:24;

32:21;85:23;154:2

:ombined 30:18

:omfort 161:24

134:16;143:12

)4:15;153:14

:ommit129:23

committee 42:9

78:15;91:2;99:18;

105:18, 18;106:19;

:ommonly 126:12

:ommunicate 59:17

:ommunication 59:21

comfortably 64:13;

:ommented 113:10

clot 71:4; 81:24, 25;

closer 86:8

18

13, 22, 25; 29:15, 18;

clearly 61:16; 78:12; companies 38:3: 40:2 121:7:152:14:170:14: company 33:9; 99:10, 19 compensate 122:18 Cleveland 4:6, 16:5:3, 8: complete 48:16; 86:20; 8:15; 19:7; 28:6, 10, 11, 181:18 completed 31:8; 181:12 30:11, 15; 31:5, 21; 32:10, complex 40:19; 119:3 14;33:25;34:10, 16, 18, complicated 64:17 20, 21, 38:16; 40:7; 93:24; complication 109:4, 11;94:24;95:5, 21, 23;96:5, 173:3;174:17 16, 17; 146: 13; 147: 21 complications 22:23; 52:11:88:21;109:5; **Clinic** 4:6, 16; 5:3; 8:16; 132:25; 174:20 28:7, 10, 12, 14, 22, 25; compression 76:17; 29:15, 18; 30:11, 15; 31:6, 85:3,5 21;32:10, 14;34:2, 10, 16, compromised 130:8 18, 20, 21; 38:17; 40:7; concern 84:21; 87:3, 11; 93:25;94:24;95:5,23; 96:5, 17;146:13;147:22 98:23;99:22, 25;100:18; 101:21;102:20;107:12, **Clinic's**95:21;96:16 16;116:13;160:20; 165:10 41:19, 24; 79:6; 131:4 **concerned** 58:4;66:24; clinician 62:12; 87:21 67:12; 68:3; 78:4; 112:16; 118:20; 127:13 concerning 93:2; 126:5; close 18:14; 53:15, 23; 127:10 54:5, 7; 63:8; 69:19; 91:10, concluded 32:22, 23 conclusion 36:5 conclusions 30:20 concoction 61:23 condemned 151:25 125:16;144:14;145:10; condition 158:14; 173:6; 148:5;168:24,25;169:5 175:12 clots 75:15, 20;168:17 conditions 79:17 **conjunction** 30:11, 15 conjuncture 142:2 cold 16:7; 105:4; 124:8 connection 11:18 connections 22:4 connotation 120:6, 11 consider 16:23; 46:15. Columbia 27:22; 32:12; 19;67:18;95:4;114:25; 39:3, 4, 13, 23; 48:9; 68:7; 115:10;118:5;125:8 considerably 154:14 columns 117:20; 177:25 consideration149:21 considered 11:18; 56:10, 12; 88:14 comfortable 107:23 consistent77:7, 23; 78:6;79:12 constellation80:8; **coming** 62:22, 23; 79:5; 156:25 103:7;125:25;130:15; constrict 60:24 consult 16:25 **:omment** 85:18; 87:6; consultants 69:12 consultation 18:9:35:23 consulted 14:4, 6, 7, 18, 25; 15:4; 19:11 **consulting**14:14;39:25; :ommon 54:20; 72:9; 40:6 consults 51:7 consumption 64:2 12:19; 122:5, 7; 126:9; 27:2; 148:12; 159:12 contact 51:12, 19 contacted 19:15, 17, 22; 20:2, 4

Min-U-Script®

contained 7:6; 9:9;

Mehmet C. Oz, M.D. May 16,2002

12:24;43:15 containing 7:25 continue 146:12; 181:8 **continued** 153:3; 160:3; 162:19;181:20 continues 159:23 continuing 163:20; 172:13 continuously 98:22 contour 78:21 contraindications 58:11,25 controlled 152:6 conventional 55:16 convert 57:6 convinced 168:23 convincing 137:9; 165:23 coordinate 59:18 **copy** 24:10, 12, 20, 25; 89:25;90:3 **Coronary** 26:18; 45:11; 47:5;63:18, 21;64:6; 66:12:105:8, 15:106:8; 144:14corpuscles 158:21 **corrected** 135:21; 136:15 correcting 132:18 correction 135:18 corrections 25:5:93:4 correctly 25:21; 171:22 **correlate** 62:16 correlates 82:13; 84:5, 16,25;142:19 correspondence 10:2 Cosgrove 8:3, 23; 9:8; 29:5, 10, 13;32:18;33:3; 34:24, 25; 35:8, 23; 36:10;

37:2, 17, 22; 38:8; 46:19; 59:2;97:18, 22;100:20; 105:21; 110:18, 24; 111:13, 18 Cosgrove's 36:15; 112:5,10 cosmetic 44:20; 58:6 Coumadin 36:20 counsel 4:9, 13; 5:5, 7, 24;6:16, 18;24:13; 50:8; 92:17;181:7 country 19:18; 30:9; 38:4:39:8 couple 11:20;88:24; 90:23;125:13;148:2 course 28:12;40:24; 41:8:57:5:61:22:62:21: 92:6;125:2;148:25; 154:17; 163:15; 177:20 courses 46:5 court 5:10; 7:3, 8; 21:3 coverage 69:4, 7 covered 180:14 crazily 103:10

create 30:19

created 158:23 creates 125:15 credence 83:10 credit 180:19 criteria 76:5:127:21 critical 95:13, 16; 147:3; 158:5; 160:14; 163:10; 180:6 critically 180:10 criticisms 160:10 crux 149:25 **CryoLife** 99:11 cultural 60:4;83:6 curmudgeon 35:21 current 24:14; 40:9 currently 14:13; 20:19, 21; 42:24; 45:6; 46:22; 47:19; 54:25; 93:2; 180:15 curriculum 24:10, 13; 25:4, 14, 23; 26: 11;46:8; 90:13 curtailing 177:10 curtain 151:19 cut 56:23 CV 41:25;89:22 CVP 78:2; 85:20; 88:2; 102:25;103:3,8,25; 104:8; 106:23; 107:11, 14, 22;108:2,6,10;115:4; 121:24; 123:7, 12, 18, 21; 125:21; 136:5; 140:8, 17, 23;141:2;159:6,21; 165:11; 166:16, 21, 23; 167:9.10 cytidines 119:3

D

D4:19;146:5 daily 39:16 damage 66:18;67:16; 82:2:174:24:175:13 dance 122:24 dangerous 91:19 data 33:12, 14;36:10; 48:12;85:20;96:2;153:18 date 4:4; 7:14, 19, 23; 8:7; 13:4; 19:24; 24:14; 25:11; 42:21;43:17;90:17 dated 7:11; 8:11; 19:25; 92:13 David 35:24;37:6 day 69:18; 80:18; 104:16; 127:4;174:3;176:20; 182:13 days 16:6; 21:5; 29:2 daytime 86:14 DC 36:24 deal 100:14 dealing 47:20;101:9; 144:8 deals 47:25 dealt 31:18, 19; 101:23

death 91:21, 23; 176:10, 11.17debate 35:4, 5, 8; 36:16, 23:37:5,14 decade 80:20 **December** 24:18 decide 92:22 decision 69:13;82:21; 83:7, 13; 128:4, 9; 129:3, 6, 14; 171:19 declining 144:19 decompensate 53:7; 168:7 decompensating 151:5, 7, 7; 152:25 decompensation 53:24; 150:14, 20; 152:19; 153:3, 5, 17;157:24 decrease 178:2 decreases 63:18, 21; 64:2,3 defendant 5:3;14:20; 20:7,16 defense 5:24; 6:15, 18; 14:22, 24; 15:25; 16:13, 15;21:2, 6; 24:13; 49:15; 50:8; 92:17; 181:7 define 99:7;127:18; 158:13 Definitely 46:21 definition 43:25; 44:4; 115:14;120:4 degree 53:4; 100:17; 115:18;127:8;169:2 delayed 15:11;170:2 delaying 170:7 deletions 181:21 delivered 121:15 demands 61:13 demonstrated 94:13 Denise 9:4 department 28: 18;42: 10 depending 43:8; 63:22; 153:17;170:25 **depends** 66:8; 72:19; 88:16;154:5 depo 9:9 **depos** 111:4 deposed 14:5; 18:5 deposition 4:7, 25; 5:4, 9, 19; 7:20; 8:19; 11:23; 12:2, 6, 13;15:19;18:12; 49:4, 20; 51:4; 70:13; 97:24;111:24;112:5,6, 11, 25; 113:9; 154:24; 180:22; 181:9, 12, 18; 182:4 depositions 7:25; 8:22; 9:3; 11:21; 12:9, 18; 14:10; **49:2**; **5**0:16, 19, 21; 93:17; 111:10;118:3;180:17 descending177:14 describe 41:14 described 55:19; 57:10;

Christopher S. Long v. Cleveland Clinic Foundation

describing 83:23; 106:17 **description** 23:11:64:20 designed 29:21;44:6; 68:11 desire 18:19; 40:2; 43:9; 54:3 desired 35:19 despite 115:4; 120:14; 129:20 detailed 23:11 determine 62.12;114:9; 138:23 detrimental 172:20 **develop**71:15;76:6, 10; 147:24 developed 16:7; 124:13 development40:4 develops71:18;78:2; 88:10; 151:15 device 32:8; 38:3 devices 30:25; 31:2, 4, 18;38:24;83:22 diagnosable 138:19 diagnose 76:24; 79:19; 82:16;87:22;167:22 diagnosed 23:22; 79:9; 134:5; 135:15; 136:16, 19; 137:4; 138:2, 3, 5, 7, 14, 19 diagnosing74:24;75:2 diagnosis 71:25; 79:6; 31:13; 106:20; 135:23; 136:2; 137:6, 8; 140:19; 144:12 diastolic 132:7; 166:17, 20 **die** 91:20;180:11 died 173:14 differ 157:5 difference 36:11, 14; 97:10, 13; 168:24 **different** 8:2, 22; 19:18; 3:19; 39:7; 44:11, 13, 17; 34:14; 134:21; 150:6; 177:16 differential 65:3 lifferentiate 103:21 **Jifferentiation** 120:8 lifferently 101:4; 180:13 **difficult** 22:5; 53:5, 9; \$4:4:55:15;77:11; 43:22;148:17;149:13; 50:8;153:19 lifficulty 144:4 ligest 159:15 filation 85:12 **liligent** 140:15 liminished 123:8 lirect 22:11, 17 firection 136:10;141:20 lirectly 26:5; 151:16 lirector 18:4: 21:20

lisadvantage 57:12

disadvantages 57:8 disagreeing 87:5 disaster 120:7 discovery 4:25 discrepancy 97:15 discuss 23:9 discussed 38:7; 79:22; 97:21;111:23;121:12; 180:24discussing 33:4 discussion 35:19; 37:20; 38:20;151:9;168:18; 181:16 discussions 34:20 disease 35:13; 45:11, 16; 66:12 diseased 21:14:59:23 disharmony 121:14 dislodae 169:4 dislodged 75:21 dismissal 21:4 dismissed 20:25; 22:15 displaced 73:21 displacement 85:7 distal 139:4, 8, 14; 147:25;148:9 **distally** 138:21 distributed 33:15 **divide** 41:2, 16; 57:12 divided 45:24 Doctor 5:12; 6:23; 7:5; 9:22; 10:3; 11:3, 22; 12:8, 22;13:13, 14; 15:18; 18:8; 24:9, 20; 25:4, 13; 26:10; 27:3; 30:6; 38:25; 40:9; 43:22; 48:17; 54:9; 59:4; 70:11; 74:13; 75:24; 79:11, 18;81:10; 82:12; 34:24; 88:23; 89:13; *20:22;92:2;96:8;102:5;* 108:25; 109:15; 112:9; 113:23; 119:22; 130:24; 136:23; 138:25; 139:25; 144:6;153:22;156:11; 163:12;165:21;166:8; 167:17; 168:14; 173:8; 176:22; 178:23; 180:2, 6; 181:3 **locument** 97:23; 112:21 documentation117:12; 77:17 locumented 112:16 **iollar** 18:21 iollars 18:11, 25 ione 12:21; 16:22; 28:9; 30:14; 33:8; 45:7; 50:3, 17; 4:15; 55:6; 56:5, 8, 13; '4:10, 11; 82:20; 83:11; 15:24; 86:2, 9; 101:2; 04:16;135:7;142:17; 43:2; 161:9; 162:15; 64:22; 165:2, 7, 8, 21; 76:24 losage 116:21, 25; 122:4 **lose** 116:7, 7, 8, 12;

Min-U-Script®

32:25:109:2

Christopher S. Long v. Cleveland Clinic Foundation

117:2, 5, 6, 118:6, 6, 7, 16, 20;119:9;122:23;129:21; 143:6 doses 61:5;115:5, 5; 119:24;142:14 dosing 116.22 down 6:14;63:19, 22; 64:5, 5, 6, 15; 72:8; 81:5; 106:9; 107:3; 112:15; 114:14;115:15;121:20, 22, 23; 123:24; 124:5, 25; 132:4, 6; 140:12; 141:3; 142:9;143:3;145:10; 156:23; 158:8; 163:3, 13, 16; 164:4, 14, 17; 166:12, 14 dozen 5:23;14:8;20:11; 22:2, 10;33:14 dozens 119:7, 8 Dr 4:25; 7:11; 8:3, 3, 4, 23, 24, 24; 9:8, 8, 11, 12, 12; 11:24, 25; 12:3, 5; 29:5, 10, 13; 32: 18; 33: 3; 34: 24, 25;35:8, 23, 24; 36:10, 15; 37:2, 6, 17, 22; 38:8, 10; 46:19; 48:21, 21; 49:11, 12, 16, 16, 20; 51:20, 20; 52:7; 59:2; 97:18, 22; 100:20;105:21; 22; 110:18, 24; 114:13, 18; 112.5,10, 23; 113:2, 6; 117:24;154:22;170:11; 171:9, 12, 16, 23

drain 126:14; 127:16 drainage 74:23; 75:12, 16;125:11, 12;126:2, 10; 127:8; 128:6; 129:15, 16; 135:24; 139:12; 140:3; 3, 22;141:10;142:16; 148:24; 155:18; 166:11; 170:15; 172:2 drained 155:19 dramatically 44:17; 63:16;143:6;149:3 draw 30:19 drip 146:22; 147:2; 166:14 dripping 147:7 **drips** 116:9; 154:11; 175:6 drop 80:5; 115:4, 17; 125:5, 6; 130:22; 140:17; 143:7;166:12 dropped 115:9; 121:4, 6; 123:17;129:19;143:3; 158:8 dropping 53:8; 177:22 drops 116:11, 23; 117:3, 14, 23; 125:5; 129:22; 140:12;159:24 drua 53:20:60:7,7; 108:12;116:24;117:8; 121:19;147:20 drugs 53:18; 60:8; 101:19;119:11 dry 145:12

due 16:8; 18:3; 63:2; 66.2;

72:13 duly 4:18 dump 172:16 dumped 127:5 during 33:8; 57:5; 72:3; 86:14:96:21;98:6,15; 105:5;116:5, 16;118:14; 119:23; 123:7; 124:8; 141:9, 15;148:10;153:16; 162:4;180:22 dust 151:19 duties 41:19 duty 173:5 dysfunction 102:25; 103:5, 17;104:3, 10, 21; 105:19, 20, 24; 106:11, 17, 22; 107:5, 7; 108:11, 15; 109:2; 110:8, 20; 111:2, 20;112:17;113:3;159:4; 160:4, 6, 7, 21 E E139:13 E-D-M-U-N-D-S43:5 earlier 46:9, 12;84:21; 120:25; 121:12; 142:2; 145:8; 146:4; 158:22; 162:18;165:12;168:5; 177:8 earliest 137:5;138:8 early 62:21; 75:10; 122:23;124:14;126:10; 161:23;164:6;173:3; 179:7 easier 137:18 easiest 41:9; 55:7 easily 13:10;115:22; 118:22;163:6 easy 118:9 echo 50:4;82:13;84:4, 24;85:15, 24;86:5, 8, 13, 16, 21; 142:24; 143:18, 21, 25;144:6, 12, 22; 145:4 echocardiogram 81:11, 20; 83:25; 104:16; 142:17 echocardiograms 81:15, 16; 84:16; 170:5 echocardiography 83:3;108:18 echoes 82:11, 22, 23; 83:8, 10; 85:16; 86:11, 15 edema126:2 edematous 16:7 edited 26:9 editing 108:19 Edmunds 43:4 effect 83:4, 14; 178:25 effective 102:3; 146:25 effectively 178:11 effects 101:19;121:19 efficiency 29:20 efforts 161:9 eight 41:3

either 18:15; 47:6; 80:10; 106:5;114:2;116:8; 141:20;147:15 ejected 105:13 EKG 144:17 element 141:17 elevated 74:20; 107:11 elevation 140:8,9 elevations 159:18 else 11:11, 13; 29:9; 50:18; 59:14; 70:8; 93:17; 100:6; 106:15; 113:20; 135:25 emboli 144:16 emergency 88:15, 18; 174:11 employee 96:17 employer 39:2 employers 39:13, 15 employment 34:21 empty 71:11 emulated 30:8 end 62:20; 68:3; 110:8; 127:22;179:11 endeavors 41:23 ended 15:12 ends 182:4 energy 64:2 engorges 76:8 enlarged 78:20;110:10 enough 30:19;67:3; 68:2;99:18;103:25;113:9 entail 42:6 enter 6:16 entering 71:9 entire 9:24; 23:23; 123:3; 147:8; 173:18 entities 39:6 entry 120:18 environment 151:13, 16; 152:6 epi 116:7 epinephrine 59:25:60:6. 9;61:2, 4, 10; 108:13; 109:9;142:15;143:9; 162:6 episode 84:23;141:9 equal 97:8 equalization 77:9 equally 152:2 equate 115:20 equipment 86:18 equipped 80:19 equivalent 160:9 Eric 32:7 error 131:2 errors 93:8 escalating 125:11; 127:11 escape 73:24 especially 139:20; 164:19 essence 73:13

essentially 56:4; 163:25 estimate 41:12 etiquette 174:9 evaluate 81:16 even 22:3; 23:16; 32:24; 69:19; 74:21; 105:3 evening 68:12;86:6; 146:5; 173:18; 176:20; 178:7 event 149:6 events 117:13, 16, 19; 119:6; 142:10 eventually 152:3 everybody 173:16 everyone's 33:12 evidence 85:3; 107:10; 108:14; 112:15; 123:13; 137:15; 142:18; 144:21; 159:3; 172:18; 177:18; 179:23 evolution 141:25 exact 19:24; 20:14; 99:12;124:2 exactly 38:23; 41:12; 61:21;114:15;161:8 exam 76:4; 79:21 **EXAMINATION**4:22 examined 4:20 example 23:18; 26:12; 53:4; 58:19; 63:14; 73:20; 74:14;75:5,22;116:24; 132:10; 143:2; 144:13; 173:15 except 162:21 excessive 155:22 exchange 10:9 Excuse 113:15 exhale 76:13 exhibit 7:7, 13, 18, 22; 8:6, 8, 12;9:13, 17; 89:23; 90:16;92:9;107:10 exhibiting 105:23; 141:14exhibits 8:8;9:20, 23; 48:25;61:12 existing 145:10 exists 45:5 expand 111:7 **expect** 62:24; 63:6; 106:23;140:2;144:18; 153:5; 154:15; 166:4, 9 expectancy 175:22; 176:2;177:11 expectations 62:17 expected 140:7; 175:25 expecting 153:2 expeditiously 68:14 experience 13:15; 52:9; 119:6; 176:13 experienced 99:23; 137:10;145:2 experiencing 119:2; 144:16; 148:4; 167:3 expert 5:2; 12:4; 13:17,

Mehmet C. Oz, M.D. May 16, 2002

21;14:10;15:19;16:17; 17:4, 7, 23; 48:22; 92:3; 96:5;127:3;141:12 expertise 19:21:94:12: 95:21;137:11 experts 12:15, 17;48:20; 49:15; 51:24 **explain** 124:5 explanation 98:9; 118:23; 119:10; 140:12 explanations 78:14; 102:19;105:18;117:10 exploration 155:12 exposed 65:11; 151:16 exposure 57:5 extent 29:12 extra 74:19 extremely 139:19

F

facilities 28:20 fact 46:7; 59:9; 82:7; 94:12; 95:4, 12; 99:10; 102:14;103:21;107:2; 115:5; 118:4; 120:14; 124:4, 10;125:17; 127:10, 21;129:25;137:8;141:22; 145:24;153:24;161:24; 168:8; 172:24; 173:24; 177:12:179:12 factor 74:23, 25; 124:3 failing 160:15 failure 53:4, 11;78:2; 79:4:109:6:110:8: 123:15; 141:17; 160:9 failures 85:9 fair 74:15 Fairly 22:5; 43:18; 53:5; 54:19; 58:3; 78:17; 112:19;158:7 Fall 66:2 Fallen 106:3 **Falling** 64:22; 78:5, 11; 100.7Falls 65:24; 66:17 False 83:24;84:4 Falselv 46:6 **Familiar** 43:10 Families 173:10 Family 23:22; 173:5, 16, 22;174:16 Far 116:15:157:6 Fashion 124:8 Fashions 16:22 Fast 154:18 Faster 71:15 Fatal 152:2 Faulty 59:22 Favor 56:16; 57:3 Fear 101:17 Feasible 45:17 February 49:5

Mehmet C. Oz, M.D. May 16, 2002

fee 18:13, 16, 20; 39:16 feel 25:18, 25; 58:6; 153:11;160:3;165:4,21; 169:20;171:6 feels 6:18:85:25 fell 115:8 fellows 42:12; 69:15; 80:17 fellowship 33:23; 34:5, 8 felt 109:17:168:22 femoral 16:10 fence 35:15.16 few 25:14:43:3;107:9; 158.21;159:24;162:2 fibrin 31:14 fibrinolysis 125:15; 145.9;148:4 fibrinolytic 145:16 field 46:7; 80:21; 137:10, 22:145:3 Fifteen86:22 figure 18:21 file 6:24; 7:4, 7; 9:24; 11:11, 15;12:25; 48:18; 51:5 files 11:4;14:13 fill 99:16 filling 70:24 film 50:4; 87:2, 10; 164:25 films 49:22, 25 finally 117:3 find 13:5; 15:5; 21:6, 16; 23:10; 43:14, 16, 20; 64:10; 80:8; 82:15; 110:17, 23; 112:24; 113:20; 131:17, 21; 180:11finding 78:12; 80.4; 84:15;86:24;87:7;104:6, 11, 12, 13, 14; 112:19; 165:9 findings 33:4; 48:14; 75:25;80:9 finds 168:2 fine 25:12;119:12 fingers 151:24 finished 30:4;180:2 firm 19:12; 103:20 firms 19:18 first 4:18;13:20, 21; 19:22; 20:3; 26:14; 27:13; 47:15; 53:16; 60:7; 63:2; 69:21;70:15, 20; 72:3; 83:22;88:10;96:21;98:6; 100:16;108:3;123:3,24; 124:18; 126:21; 127:12; 131:14; 142:16; 145:18; 148:11, 15; 155:14; 158:4, 11, 11, 12, 19, 20, 21; 159:11; 161:21; 166:9; 167:20;168:8;172:14; 173:21;174:6;177:2 fist 147:19 fit 140:18

83:16; 89:3; 90:6; 127:17; 163:10; 175.17 five-minute 89:17 fixed 100:11 fixing 100:4.5 fiat 163:18 flood 158:15 floor 29:24;68:14 flow 96:3; 117:18, 19; 120:18; 123.2;131:9; 134.20;146:3;158:15,16; 159:7;177:24 flowing 71:10; 77:20 flows 105:14 fluid 74:15, 19; 85:2; 116:23; 126:13, 17, 23; 127:6; 141:24; 142:18; 145:23;159:14,15; 165:17;166:25;167:21; 168:9;172:16;179:21 fluids 80:11;167:12 focus 114:11 focusing 161:9 follow 164:11 following 73:6; 133:23; 140:21;141:10;174:3 follows 4:21 formal 28:12 format 33:20:35:18 formulating 50:23; 177:6 Fort 5:17 forth 42:10 found 105:12; 111:17; 119:10;131:7;132:3 four 8:8; 9:20;11:6; 163:10; 164:8; 177:23 fourth 94:20; 127:24 fragile 149:15, 15, 18 Frankly 18:14 free 66:11, 13; 168:16 frequently 18:18; 42:21; 14.2;54:19; 57:13; 59:6; 72:17;81:23;85:9;91:20; 99:2;118:25;121:11; 126:20; 127:14; 154:5; 164:18 fretting 173:18 friable 98:11, 25; 102:6, 10, 12, 15 front 24:20; 112:5; 155:13 full 5:13; 57:19, 21; 58:13 function 60:24, 25; 62:4; 54:24;71:5, 8; 72:16; 74:5; 104:18;130:8,11,15; 1 14:8: 161:16 funding 42:10 further 76:17:108:6 G \$145:24 jained 176:14

game 174:2 **Gaps** 99:16 gave 146:8 general 22:5; 27:5; 42:12; 43:16; 71:7; 91:8, 10 generally 18:10, 19; 43:18, 20; 56:21; 61:18; 64:14;65:13;68:23;74.7; 84:7; 107:21; 165:22; 169:8, 11; 173:10; 174:8 generate 139:21, 22 gentleman 16:6; 23:25; 177:11;178:20 gets 91:10, 18; 142:8; 151:12;159:7 **given** 12:9; 21:5; 33:19; 50:9, 16;92:21;142:12; 146:4 giving36:2;100:21; 167:11,20 **goal** 163:20 goes 64:4, 5; 114:13, 13 good 90:2;144:5;162:21; 166:24;178:16 gradual 79:13 grams 146:8, 18, 18 **greater** 66:14 greeted 29:23 Gregory 38:10 pround 6:2 group 30:19 **roups** 39:8; 52.23 guess 21:5; 72:11 **1uessing** 23:13 H 1-R-O-B-A-T 9:5 ialf 5:23; 14:8; 20:11; 12:2, 10; 33:14; 118:21; 42:11; 147:4; 161:12 alfway 89:16; 110:2 iandled 173:20 iandwritten155:7 iangs 159:15 appen 24:9;83:10; 8:19, 20; 99:15; 114:6 iappened98:14; 139:2; 58:2 iappening141:22; 42:5,7;172:23;175:7 iappens 95:16; 99:8; 01:5;127:2;144:15 iappy 6:8 ard 96:2; 102:15 ead 13:6;66:9,12, 15; 7:3;68:4;76:7,8;109:7; 56:17 hear 22:7;143:19 Hearn 9:12 heart 16:5: 18:4: 21:20: 26:8;30:25;31:10;35:5;

38:24; 44:23; 45:11, 13, 15; 47:5, 11; 53:4, 10; 59:18;60:25;62:3,9,23; 64:3; 68:9, 16; 69:4, 15, 18:70:23:71:2.4.8.10. 10, 11, 12, 15, 18, 24; 72:7, 8, 15, 22; 73:2, 5, 21 75:10; 76:17; 77:20; 78:2, 25;79:3;81:25;82:3; 83:18; 84:10, 12; 85:3; 102:25; 103:5, 17;104:3, 9, 23, 23; 105:4, 6, 6, 16, 19, 23; 106:10, 16, 22; 107:7; 108:15, 25; 109:5; 110:7, 10;112:17;114:3; 123:15; 124:12, 15; 125:25; 130:14, 16; 137:10;141:17, 19; 142:19; 143:23; 144:24; 151:17;157:20, 22; 158:21; 159:3; 160:9; 161:16; 165:13, 18; 167:2, 4; 176:24; 177:8; 180:11 hearts 105:12:124:12. 18 hedged144:2 heel 58:4 heighten 87:3 heightened 99:21; 100:9; 102:20; 129:17 help 121:24 helpful144:8;166:21,22 helps 169:21 hematocrit 177:21: 178:3, 8, 9, 15 nematocrits 178:13, 19 nemodynamic 61:13; 77:5, 6; 87:14; 88:17; 120:9, 20; 167:12 nemodynamically 87:9; 13:24; 114:9, 22; 115:11; [16:4; 118:14; 120:2, 5]13;121:7 iemodynamics 102:24 iemoglobin177:22; .78:3 iemorrhage 133:7, 18; 36:13, 19;176:19 iemorrhaging 154:3,6 pepatic 85:17 iere's 174:2 lernandez 8:4, 24; 9:11; 71:12, 16, 21 esitating 66:23 iierarchy171:22 **iigh** 53:2; 59:7; 61:5; 5:9, 11; 73:7; 91:22; 00:17; 103:10, 25; 116:7; 18:5, 7; 119:9; 124:15; 67:9; 169:2; 172:25 igher 52:24; 103:11; 24:4;137:13 ighest105:10, 14; 117:6 ighly 85:14; 149:7 indsight 137:18

Christopher S. Long v. Cleveland Clinic Foundation

historical 124:10 history 155:15 hold 93:2;119:15; 128:14; 180:15, 24 hole 97:10;100:10; 151:24 holes 148:6 home 16:6; 154:9; 173:23 homograph 97:2; 98:24; 151:15 homographs 176:2, 5 honorariums 39:11 hooked 154:10 hospital 21:24: 23:21: 24:5; 27:19, 21, 23, 25; 48:10, 11; 154:25; 155:2; 171:2 hospitals 146:11; 152:4 hour 18:11; 19:2; 37:15; 86:5:100:16:105:25: 107:8; 115:8, 24, 24; 116:18; 118:21; 120:17; 122:3; 123:24; 126:5, 8, 14, 22; 128:3, 7; 129:10; 133:11, 23; 134:19; 139:13; 140:17, 22; 141:4, 10;142:10;143:8,14; 146:2, 6, 25; 147:2; 148:22; 153:25; 154:4, 13; 156:8, 10, 19; 158:8; 161:3, 12, 22; 162:2; 164:23; 166:10, 14; 172:9 hourly 100:14; 135:6; 166:4 hours 13:3;63:2, 5; 57:15:68:12:69:18: 70:15; 72:3; 79:25; 86:8; 38:11; 107:9; 119:5, 5; 124:19; 127:8, 12, 17; 133:3; 139:23; 142:7, 16; 158:22; 159:25; 160:16; 162:2, 20;163:10, 16; 164:15; 166:10, 11, 12; 76:20:179:5,8 iouse 170:24 Irobat 9:4 1ue 76:7 1uge 72:22 umans 176:12 tundred 54:24:125:12 tundreds 72:23 tung 146:23 iurt 101:17 iurts 169:6 iypertrophied 59:11 ypertrophy 91:12; 22:8;177:7,10 lyping 94:10 vpotension 74:16; 8:16, 17;120:24;133:2, ,17;140:21;141:23; 42:13; 149:2; 174:21 ypotensive 141:9 iypothesis 148:8 vpovolemia 87:13, 16,

fee · hypovolemia (6)

five 11:6;14:23;22:16;

Min-U-Script®

ired 33:9

Christopher S. Long v. Cleveland Clinic Foundation

hypovolemic 88:2; 167:6, 9, 11, 21, 25; 168:6	23:23; 29:25; 30:25; 63:10; 68:4; 88:21 income 39:21, 24 increase 71:19; 126:4; 170:12; 179:7	145:12; 174:6 injured 104:22 injury 16:10; 45:21, 23; 66:20; 68:3; 105:7; 156:15; 167:3	investigators 32:14; 33:16 involve 19:19; 22:22; 23:2; 34:15; 44:22; 47:6; 88:12	journals 50:25;94:3 judge 21:6, 15 judging 106:13 judgment 151:10;172:6 juncture 108:5;178:19
CU 69:9; 73:10;77:12; 81:16, 22; 85:22; 86:4, 4, 7,10; 100:22; 105.24;	increased 66:17;67:16; 102:7;108:6;109:3; 118:20;128:3;130:3; 143.6:165:12	inkling 138:9 inotropic 60:22; 61:9; 80:11; 116:13; 120:15; 137:14	involved 17:2, 5, 11, 12, 21, 25; 18:3, 18; 22:19, 24; 23:4, 17, 19;30:10; 32:25; 33:13; 34:9, 18;47:19;	jury 20:17
106:6; 107:20, 21; 110:20;	increases 149:3	inotrops 79:14	78:9;170:24;171:17;	
114:23; 121:9; 127:3, 12;	increasing 79:13; 83:18;	inquiries 174:15	involvement 33:2	K-O-C-H 9:12
130:6; 142:17; 145:19;	115:5;118:16;119:24;	inside 138:23; 168:25	involving 16:18; 17:6, 22;	keep 18:13, 14; 35:19; 65:15, 21, 22: 66:15: 67:3:
146:13, 19;151:3, 14; 152:11 24:159:8:160:12.	142:14; 162:13	instability 61:13, 14, 15;	30:17	98:21;105:4;107:22;
17;161:18, 21;162:23;	independent 110:8	instance 23:13:162:3	irreversible 175:13	153:7;168:16;169:21;
163:10, 23; 165:6; 167:7;	index 62:3, 5, 15, 17, 19,	instances 75:12, 18	144:16	1/3:5 kent35:21:80:24:101:16
169:9;170:20;171:3,25; 172:5:177:21:179:2,11	23;63:7,17,20;64:2,4,	instead 60:6;162:2	isolated 58:24	kidnev 101:18
19	84:19; 85:10; 114:18;	institute 18:4; 21:21	issue 35:10, 17;37:23;	kidneys 109:6
ICUs 29:24; 168:19	115:9;120:23, 23; 121:5;	institution 18:2; 21:21,	62:8;83:8;95:13;122:14; 127:10:140:25:153:4:	kind 15:15;61:18;75:4;
idea 28:20; 37:6; 161:4	123:9, 10, 16, 19, 23;	22; 29:20; 32:11; 60:5;	170:15;177:8	78:3;119:6;149:11;
ideal 109:13	137:14; 144:19; 160:18,	122:22; 127:16; 135:5;	issues 16:18;17:2, 12,	kinds 161:13
ideally 66:14;97:7;	24;161:4	146:10; 172:5	22;25:19;26:2;47:20;	Kirklin 43:11
identification7:14, 19.	indexes 62:11	institutions145:15;	ltem 8:19, 21	knowledge 137:21;
23;8:6;90:16	109.16 20.120:20:122:22:	instructions 6:21	items 7:4, 8; 9:22; 11:3	176:12
identified 5:2; 11:10;	123:6;157:12	intact 52:20:175:21		KOCN 9:12
12:15; 26:10; 51:24; 61:19: 92:9: 118:23	indicated 111:18; 133:17	intend 93:11	J	I.
identify 4:9, 12;7:6; 9:2;	indicates 103:4; 104:17;	intensive 96:3		
80:3;171:19	152:18; 155:17; 169:25	intensiveness 70:2, 5	Jack 24:24	lab 86:17
imagine 148:17	Indicating 132:23	interact 33:7	JACKSON 4:11, 15, 15; 7:10: 8:10: 9:10, 25: 10:18	labile 114:12, 18; 144:9;
Immediate 88:12; 122:20:155:23:174:15	indication 99:13; 110:17;	interaction 29(15) 55:22	25;11:5, 10, 12, 19; 12:16,	162:11
immediately 62:22; 74:5;	176:8 indications 55:11:57:17	Interruption 128:13	21;13:8;17:8,14,20;	lack 94:17
107:7;155:25	24;58:2;82:14;110:23;	interspaces 55:22	19:12; 20:5; 21:9; 24:16,	Large 7:24; 8:21; 30:19; 79:24
impact 63:16; 164:19;	112:24	interstices 148:6	49:7, 17; 50:12; 52:7; 89:5,	Lasix 178:24; 179:4, 14
impacts 177:18	indicative 62:8	intervals 118:18; 168:16	10, 21; 90:3, 9; 92:13;	last 34:23, 25; 37:18, 24;
impairs 71:4	indicator 166:18	intervention 74:4;88:12	110:3, 21; 111:3, 11, 22;	54:14; 55:6; 56:5, 7; 83:16;
impending 120:7; 179:24	indices 05:14 individual 91:25:140:15:	interventricular 85:0	112:7; 113:18; 114:19;	140:17; 143:8; 160:16;
imply 45:6	169:13	28:3; 73:24; 75:16; 76:16;	119:13; 128:16; 131:15; 166:5:167:14:171:15:	161:3, 12;162:13; 176.3;
importance 177:5	individuals 8:2, 23; 58:3	83:4, 14, 17;124:20;	173:7; 180:5	177:25
Important 6:4, 12; 92:3; 120:8:149:11:160:25:	inexpensive 147:19	125:22;150:16;157:25; 145:8, 19:146:12:153:9:	James 7:16;45:3;49:23;	late 23:22: 78:17: 82:16:
162:25	infection 23:21; 88:22	154:4, 16;157:23;177:9	55:18; 57:10; 93:18;	85:4; 176:20
impressed 29:19	inflammatory 63:3	intraoperatively 178:24	105:23; 109:2, 17;110:5,	later 86:6; 145:12; 146:2;
impression 29:14; 100:6	119:4	intravascular 159:16	13; 114:21; 121:8; 125:10;	147:2;178:6
improve 44:6, 9; 162:19	influence 87:23; 95:8,	64:7.10	129:4;130:4;132:25; 139:2:142:12:144:10:	law 4.20: 19:12.17
improvement 44:20	22;167:22	introduces 88:20	147:24; 156:14; 157:21;	lawsuit 17:25
improving 44:16; 164:20	29:17: 33:4: 43:14, 19:	intubated 81:22; 101:15	160:11;161:16;167:6,24;	lawsuits 17:15, 19, 22;
in-house86:7	48:18;62:2,6;63:12;	invasive 16:19, 23; 26:8,	172:8; 174:19, 24; 175:12,	18:2
inadequate 130:13;	81:11;130:25;131:17; 144:7,23:161:15	18, 20; 43; 24; 44; 5, 14, 18; 45; 2, 12, 18; 46; 2, 5, 23;	19;176:24;177:21;180:7	law 160.8
157:18; 158:15	informed 173:5	47:11, 16, 21, 25; 48:7;	Jane 48:22	laving 89:22
incident 37:16	infrastructure 29:21	55:3, 20; 56:8, 11, 13, 17;	January 38:2	lead 32:17, 18; 58:21;
incidents 52:10	infusions 115:6	93:20; 94:2, 7, 16, 25;	9:25: 11:20: 17:16: 24:17:	157:2
incision 47:7; 56:22; 58:7	inhale 76:12	95:6,11,19	30:3; 34:4; 49:8, 18;89:5,	leader 93:25; 94:15, 18,
include 44:19; 47:4;	inhibition 77:19	investigate66:2	21;111:5;113:19;119:13; 128:17:167:16	Leaders 94:13
08:25; 109:0 included 21:25: 22:22:	initial 49:4:98:7:102:24	47:24	Jeffrey 7:21; 8:20; 49:16:	leads 70:25; 107:4;
52:6;94:5	178:8;179:6	investigator 32:4, 7, 17,	51:20	159:16
including 8:2, 23, 19:19;	initially12:13;107:3;	19:48:2	John 4:15; 43:11	leak 125:18

Min-U-Script®

Mehmet C. Oz, M.D. May 16, 2002

(7) hypovolemic - leak

Mehmet C. Oz, M.D. May 16, 2002

least 36:16; 47:13; 57:13; 60:15;81:8;82:3;83:16; 99:18:168:12 leave 74:20; 90:7, 9 leaves 68:7 leaving 156:12 **lectures** 42:15 led 32:7 left 21:13; 59:10; 71:11; 77:10;85:5;91:11; 121:16;122:8;130:5; 148:14;177:13 left-heart 160:21 leg 16:7 legal 13:16, 22; 14:3, 15, 18;16:25; 18:9; 19:11; 92:5 Lehigh 38:15 lesions 91:2 less 45:21, 22; 46:16; 66:24;67:7;85:10;87:19; 100:16; 110:12; 126:9; 127:4;162:25;175:2 letter 7:9; 8:9; 19:25; 92:12 letters 11:7 letting 65:16 level 46:20; 66:5; 73:7; 161:24;166:15 levels 74:6 Levophed 60:5, 13;61:9; 116:8, 15, 18, 23; 117:13; 118:8, 16, 20; 119:24; 122:3, 20, 23, 24; 129:21; 142:14; 143:8; 158:9; 162:7license27:15 life 44:7, 10, 16; 115:21; 147:4;175:22;176:2; 177:10 light 152:7 lighting151:21 lights105:2 likely 74:16; 97:4; 98:7; 126:12;138:25;139:11; 148:13;175:21 likes 108:5; 129:5 limit 40:12, 14 limitations 40:17 limited 33:21; 40:10; 70:14; 73:4; 81:21; 176:23 Linda 4:19 line 65:18; 94:19; 97:2; 99:15,123:6;134:15,17; 135:2; 139:3, 13; 140:13; 145:12, 24; 146:5; 147:19, 25;148:9, 14; 149:16; 155:25; 156:4; 163:18 lines 31:15;65:11;148:5; 149:8;175:6 list 28:23; 43.3 literature 50:25; 76:22; 177:9 little13:15;56:24;81:24; 88:25; 106:7; 109:25;

125:14:126:9;142:8; 165:12 liver 109:7 loaded 88:5, 8 localized 71:3 located 32:9 logged 134:9 Long 4:6; 7:16; 37:12, 15; 45:3; 55:18; 59:22; 85:23, 25; 86:19; 93:18; 96:22; 100:21;104:7;105:23; 108:22; 109:2, 17;110:6; 113:2; 114:22; 121:8; 125:10:129:4;130:4; 132:25;139:2;144:10; 145:5; 147:24; 156:15; 157:21;160:11;167:6,24; 170:20; 171:6, 10; 172:8; 174:20;175:19;177:21; 179:18;180:8 Long's 49:23; 57:10; 96:21;110:13, 19, 25; 111:19;142:12;161:16; 168:15; 174:24; 175:12; 176:24longer 40:19;81:15; 87:7; 89:6; 101:25; 156:19 look 61:14, 17; 64:9; 74:11; 77:13, 18, 21; 79:22;80:2;85:17;87:21; 108:5; 113:12; 114:10; 123:2; 134:21; 156:9; 165:14; 177:2; 180:3, 9 looked 136:9; 176:25; 177:17 looking 31:8; 43:18; 62:10;82:24;102:16; 113:5, 16;117:17; 131:9, 22;136:4;155:4 looks 25:11; 105:24; 117:4; 129:5; 135:8; 145:24;146:5;156:9 loss 145:23; 157:12 lost 141:22 lot 74:18; 83:22; 159:13; 160:20 lots 84:9 low 65:10, 14; 67:22; 68:2;70:25;75:7;91:21; 100:15; 101:16; 116:7; 120:15; 122:23; 178:19 lower 65:16;88:3,7 lowest 65:20 lung 44:23; 45:13; 62:23; 68:25;159:17 lungs 84:12 Lyons 49:16; 51:20 M M 135:2 M-c-C-A-R-T-H-Y 32:17 M.D 4:17; 90:14; 182:11 ma'am 19:5

machine 44:24; 45:14;

62:23;86:13 magnitude 44:16;148:19 maintain 53:10;60:2,14, 19;65:19;66:6;124:21 maintained65:6 maintaining103:14 major 35:5; 44:21; 58:2; 84:20, 21; 139:16; 161:24; 165:22 majority 59:24;60:12 maker 171:20 makers 69:13 makes 99:11; 168:23 making97:14;135:15; 144:12malpractice21:22 malprofusion109:6 mammary 57:12 manage 53:5; 54:4; 101:13:151:23 management 54:6, 8; 95:14, 18; 171:7 managing 171:24 manifestation78:18 manifested 133:25 manner 174:15 many 5:22; 11:3; 13:3; 14:3, 9, 13;20:9, 23; 23:15;39:7;40:23;41:7; 44:11, 12, 45: 12, 46:4, 4, 4; 47:2, 11;55:5;68:18; 78:14;79:16;94:8;98:18; 120:10, 12; 136:8; 145:14; 147:5;150:6;175:5; 178:18 March 24:21;90:14 mark 7:3 marked 7:12, 17, 21; 8:5; 9:13, 23; 48:25; 89:23; 90:15:92:8 Mary 48:22 mask87:13, 20;167:12; 168:2 masks168:3 match 97:7 matched 97:11 material 99:14, 16 materials 11:9; 48:24; 50:7, 14; 51:4; 93:13 matter 13:22; 14:15; 15:8; 16:2; 19:4, 11; 67:5; 87:5; 92:5; 144:19; 151:6 matters 10:12, 13, 21; 13:16; 14:4, 18; 17:12; 18:9 maximize 29:21 **May** 4:4; 6:16; 39:12; 63:22, 22; 64:23; 70:17; 74:11:75:12:77:4,7,7; 97:8;101:15;102:13; 116:21;144:8;146:20; 153:3; 154:19 maybe 89:3; 101:18; 106:7;132:12;143:23; 144:4, 5; 150:10

maze 58:20 McCarthy 32:16 mean 21:9; 25:7; 39:16; 43:24; 60:23; 66:5, 14, 16, 22;67:22;89:11;100:15; 113:24; 120:19; 121:4; 130:5; 131:5, 24; 132:5, 11, 19, 21; 137:7; 151:2; 169:20 152:23; 155:6; 156:11, 13, 22;157:15;179:16 meaning 45:2; 114:13 means 44:6; 113:25; 157:18 113:11 meant 70:6 measure 64:13;97:8 measured 134:18; 160:24; 161:2; 162:13 measures 109:9 measuring 162:24; 163:2 mechanical 30:24; 32:7; 36:12, 16, 19; 38:24; 83:18, 22; 177:13 median 57:19; 58:13 mediastinal86:25: 87:10:165:9 mediators119:4 medical 13:15, 22; 14:3, 15, 17;16:25; 20:7; 27:15, 22, 23; 40:9; 42:15, 17, 23; 50:24; 51:13, 13; 69:3, 7; 74:4;91:6;92:3, 5;100:20; 111:9;170:19;180:7 medications63:11; 108:7 medicine 27:4; 41:20, 24 meet 38:13;96:18; 115:13 meeting33:5;35:5 Mehmet 4:7, 17, 25; 5:14; 90:14:182:11 member 174:11 members 170:22 memory 54:13 men 180:10 Menori 48:21; 49:3 mention 147:13 mentioned12:6; 22:9; 33:24; 46:12; 48:24; 57.20;122:14; 145:7; 157:10;172:14 mercury 65:17; 102:18; 103:2;104:5;130:23; 140:18;141:3;164:3 merit 63:13 170:20 merits 96:6, 10 messing102:3 55:6,9 met 22:3, 15; 37:4; 38:12, 19;92:23;95:23;127:21; 175:24 mic 116:21 Michael's27:23; 48:11 microgram116:22, 25

Christopher S. Long v. Cleveland Clinic Foundation

85:16;150:19 might 44:8; 73:3; 77:23; 129:18;130:16 migrate 43:7 mild 103:19, 21; 135:20 milieu 119:3 milking 168:15, 19, 23; milligrams117:4 millimeters104:4; 130:22;159:24 mind 31:23; 72:12; minimal 66:5; 155:18 minimally16:19,23; 26:8, 17, 20; 43:23; 44:5, 13, 18, 25; 45:12, 18; 46:2, 5, 23; 47:11, 16, 21, 25; 48:7; 55:2, 20; 56:8, 10, 12, 16; 57:18, 25; 58:12, 22, 25; 93:20; 94:2, 7, 16, 25:95:6,11,19 Minore 11:24; 12:4; 49:12;50:18 **Minore's** 11:25 minute 34:13; 80:18; 88:24; 90:23; 108:21; 117:3, 14;128:18; 175:18 minutes 37:4; 86:22; 89:3;90:6;139:22; 150:14, 21; 152:20; 153:8; 154:21;155:20;156:4, 10; 160:16; 161:4, 12; 162:18 miracle 151:23 mislead 123:18 misleading81:17 misled 59:22 mitral 56:18;58:19 mix 119:3 mixed 67:11, 13 model 30:7 moderate102:25;103:4, 16,19, 21; 104:5, 9; 105:23; 106:10; 107:5, 6; 110:19, 25; 111:19; 113:3 modest 46:6 modified 56:3 moment 86:4, 22; 129:7; 133:24;158:18 Monday 35:2; 54:17 money 99:19 monitor 163:6 monitored 107:17, 19 monitoring 164:13; month 41:8; 47:3; 54:14; monthly 39:16 nonths 23:20, 25; 37:22 more 21:5; 23:10; 44:7; 46:15; 54:4; 55:16; 58:8; 54:17;65:9,69:12;77:14; 78:14,24;80:3,9;82:16, 17:89:7, 9, 15, 15; 91:24;

99:13; 109:25; 122:13;

i

least - more (8)

Min-U-Script®

mid 20:2:178:10

middle38:15; 56:22;

Christopher S. Long v. Cleveland Clinic Foundation

n nge Transis

and a second

Mehmet C. Oz, M.D. May 16,2002

125.5 22.126.5.127.16	needs 55-12-65-25-81-6	nurse's 118/2	one 11:6:13:18:14:21:	opinions 50:23: 92:25:
120.02.1 (0.7.1 (4.02.	07.11.107.17.110.14		15.3 24.20.24.21.10	94.23.95.8 22.177.6
139:25; 140:7; 144:25;	9/11,10/11,119/14	nurses 8:5, 25; 49:9;	$22\cdot2$ 12 12 22 18 26.16	180:15 23:181:4 10
148:23; 152:6; 153:12, 20;	negative 169:2	69:20;93:16;107:21;	10.25.0, 0, 15, 15, 25.10, 24.10, 10.25.0, 0, 15, 15, 21.10	
154:14;160:25;161:17;	negatives 83:24	117:11; 118:17; 134:6, 18;	19;25:8,9,15,15;51:12,	opportunity 5:25; 29:4;
162:17;163:11;164:2,18;	nogligonco 16:8: 20:7:	139:3, 12; 152:9; 160:14;	17, 18;35:15, 23;43:7;	48:19; 176:23
168:8;171:21;176:6;	11919210 10.8, 20.7,	161:19;162:3,9;168:14,	44:3;46:6,7,9;47:13;	oppose 100:13
179:15	21:18; 25:8	20:169:10.14.15.18;	53:4; 54:16, 17, 20; 55:8,	opposed 57:18:103:19
morning 101.14.119.11	Neither 34:17	171:9	11;56:2; 57:13, 20;62:6,	
150.21.172.11 27 24	neurocognitive 48:4	nursing(),2,12,14,17	6;64:25;68:4, 15;70:8;	opposite 84:22
1)9.21, 179.11, 22, 24	neurologic 132:25	10151199.2, 12.14, 17,	71:22;73:23;77:12;	optimal 158:15
mortality 124:15	156.19.174.20	29:24; 48:22; 115:25;	90:25;93:8,9;94:18;	option 45:12
most 26:25; 52:21, 24;		160:11	97:10;102:12;106:11;	options 44.19
54:20;62:25;71:19,20;	neurological67:16;		113:11, 15, 25; 119:8;	ordor 20, 18, 170,16
72:9, 11;76:22;91:2;	156:22	0	120:3; 121:18; 123:17;	Order 50: 18, 170.10
104:25;105:2,9,17,18;	neurologically 52:20;	v	124:3; 125:23; 128:14, 18;	ordered 116:3
106:19;122:19, 22;	175:20	_	131:16, 21, 22; 141:7, 13;	organ 68:3; 110:8
126:12:137:10:139:15;	New 4:19: 5:10, 11, 17,	O 4:17; 134:15, 17; 139:3;	144:14;145:11;146:16;	organization 33:10
147:15, 20:148:12:	18:21:6.16:30:17:59:5.	156:5	147:6; 148:2, 10;152:2;	organized 35.5
149:11:150:24:151:17:	5 86 24 104 6 11 12 14	oath 6:4	155:9, 11, 158:24; 163:12;	organs 177.16
152:4.5:153:11.21:	154.12.181.4 9	object 166:6	174:5; 177:24	organs 177:18
171:18:173:18:176:4.4:	Nowerk 27:24: 49:11		one-time 147:7	Orifice 97:10
180.10 18	Newark 27:24;48:11	objection 6: 16;96:7;	ones 16-22-21-22-72-12-	original 118:12
movo 170:15	next84:12;101:14;	167:14;173:7	171.10	originally 50:9
	107:9;119:11;126:5;	observation 54:3	1/1.10	others 26.22.52.24.59.3
moved 68:14; 126:21;	128:3;133:23;134:6;	observations 83:10	ongoing 129:18	othorwise 6:0:10:7:
154:11	135:6;139:23;141:4;	observe 20.4 7.163.13	only 14:16; 21:7; 23:6;	127,17
moving 161:10	155:25; 159:24; 162:20;	17	31:3;61:14, 19;68:21;	137:15
much 25:11:28:24:33:7;	166:11; 173:21; 181:20		76:23; 92:16, 18;102:11;	ours 134:21
46:13:57:11:61:20:62:6;	night 85 :16:123:4:142:7:	observed 29:15	114:24;115:15;135:11;	out 13:5; 22:6; 42:21;
72:14, 19: 83:9: 87:19:	171.3	observing171:17	139:23;140:13,16;	43:17; 64:10; 80:10; 84:5;
89:5:100:2:108:23:	nighttime@6:16	obvious 72:12	158:23; 178:6, 12	103:7;108:20;111:15;
110:11:115:12:116:18:		obviously 150.3: 171.3	ooze 125:22	125:19, 25; 126:15, 25;
126:6: 127:4: 132:8:	nitric 53:19;109:14	175.24	onen 32:21:45:10:68:9	133:14; 137:12; 140:3, 13,
137:18:140:3:148:23:	nitroglycerin122:25	17 5.24 ecoludo 75,15	15:69:4 15 18:75:10:	17, 25; 149:3; 151:9;
154:6:165:19:168:7.23:	nitroprusside121:10,	Occlude / 5:15	76:25:88:10:00:8 10:	154:7, 19; 172:16; 174:8
178:21:181:15	11	occluding75:20	151.19 21	outlining 94:3
Muchlehach8:3 2/1:0:8:	None 22:24:23:4:181:2	occur 44:12;70:18;	191.10, 21	output 65:24:75:2 7:
38:10:105:22:112:23:	nor 51:17:150:24	73:19;78:18;102:8;	open-neart 178,18	78.6 12:70.23 24 25
112.2 6.117.24.155.17		126:3;149:19;172:22	opened 73:22;126:13;	70.0, 12, 77.43, 44, 49, 99.6, 100.15, 114.19
170.11.171.0.21	norm 101:14;154:8,13	occurred 21:23:97:19;	151:13;158:19	172.0 21.125.24.126.7
1/0.11,1/1.9,21 Muchlahashiai (.20	normal 91:15, 16; 101:5,	100:22:104:20:126:5;	opening 152:11	0.127/25.120.2.122.27
Widemedach \$154.22	5;104:17, 18; 106:4, 9;	129:8; 133:2, 6; 134:9, 12,	operating 80:13, 25;	124.7.125.74.142.14.
multiple 74:10	115:22;122:13;130:14	15:135:22:142:10;	101:24:103:7:128:4:	1/5.10.166.0.170.12
muscle59:18;91:13;	normally 48:6; 135:5	152:19:156:4:174:24.25:	131:13:138:10:151:8:	172.0, 170.2, 7, 10, 12, 16
104:23;124:7,15	Notary 4:18:182:16	176:20	153:9:154:12:156:2:	1/2.9, 1/9.2, 7, 10, 12, 10, 10
musculoskeletal44:21	note 52:7:07:22:103:16:	occurrence99:3:122:5	168:11. 13:173:25:175:2	
must 112:18	112.20.112.12.131.4	7	operation 16:5:45:14	outputs /0:25; 124:22
muself 106.6.174.9	155.6 7.162.0	occurring()9:22:126:16:	53.16.55.10 15.56.4 6	outset 44:3
mysen 106:6; 1/4:8	133.0, 7, 103.9	000001111g98:22; 120:10;	13:57:5:58:20 20 24:	outside 151:16
	noted 96:24;123:25;	150:20	62:20:63:4:81:4:94:10:	outstanding21:8
N	129:25;155:22;159:10;	occurs 70:15; 153:20;	95.12.97.6.98.3.103.8	DVAL 6:2:62:25:86:16:
	102:0	1/3:3	104:14:124:23:131:14	99:14:102:21:107:9
N11 (0.12	notes 52:3, 6; 113:6, 16,	off 13:6;62:23;70:20;	148.10 11.150.5.154.23	114.4 7.115.16.118.20
N 140:15	17;149:5;180:3	90:12;105:9;119:11,17;	158:19:176.7	124.18.126.5.128.3
name 5:13; 21:25; 26:15	notice16:9	123:3; 124:24; 128:20;	operations (7:5:54:20)	$129.7 23 \cdot 140 \cdot 17 \cdot 141 \cdot 4$
named 20:6, 13, 16;	noticed 93:7:94:18	181:16;182:3		4. 1.42.10: 1.43.7 : 154.20:
51:13	Noto 4:20	offer 181:5	50.17, 00.25, 54.4, 10, 25,	159.24.160.20.162.20
nature 82:18		offered 13:21	93.0, 19, 130.7	164.7 12.166.11.173.18.
nearly 41:13	52-7-02-12 25	official 37:5:97:23	operative 55:19; 57:10;	176.14.177.20:178:15:
nocossarily 22:20:62:0:	32.7,92.13,29	official 37.3, 77.23	96:24;97:22;170:3,8	179.16
60.10.01.22.102.20.	number 7:7;9:16;20:14;	01017(1)24(2)24(14)	OPERATOR 4:2; 90:11,	prido \$2.10.100.1/
1 40.0, 1 65 11	26:11, 13, 19; 63:16; 67:7,	50:17;01:24;02:24;74:9,	19;119:16, 19; 128:19, 22;	JAIGE 35,17,107.14
149.9,103.11	12;83:18;103:11;126:6;	13, 10; 10; 0; 0; 10; 10; 10; 10; 10; 10; 1	182:2	5xygen 67:11
necessary 72:15	155:25;154:22,23;	51:10; 05:18; 101:10;	opinion 92:5; 93:18;	Jz 4:8, 25; 5:14; 7:11;
neck 56:23	140:12;159:21;163:21;	105:11; 114:1/; 115:1/; 123:17:161:19:165:16	94:24;95:20;102:2;	90:14;182:11
need 4:11; 57:15; 58:17;	104:2	122:17;101:18;105:10,	110:5, 14;114:21;116:4;	
59:17;65:8;81:2;97:13;	iumbers 41:11;103:20;		132:24; 134:11; 137:17;	\mathbf{P}
102:19; 105:4; 108:9;	107:22;116:21;145:20;	Unio 5:6	141:7, 13;149:17, 20;	
147:8; 173:13; 176:3	161:13	alder 25:15	156:7; 157:21; 158:3;	
needed 57:21:66:6:	numerous 82:5;94:2;	once 37:22; 38:12; 98:20;	162:8;164:24;165:25;	b.m 90:12, 20; 119:17, 20;
85:25:121:12:138:10:	95:7; 156:16	116:8; 125:14, 17; 139:9.	167:5;170:18;174:19,23;	128:20, 23; 164:23; 182:3,
160:19	nurse 49:6; 170:22	17:148:18:161:22	175:11, 21; 176:9, 16	3
	· · · · · · · · · · · · · · · · · · ·			

Mehmet C. Oz, M.D. May 16, 2002

Christopher S. Long v. Cleveland Clinic Foundation

1

PA 160.23.162.24.162.2	175:8:178:17,23:179:10	personal 43:8; 52:3	Portions 7:15; 8:12	120:15, 19;121:4, 20, 22;
5.14.22	patient's 31:16:36:6:	personally 17:24; 40:23;	position 10:4, 8, 12, 13,	122:15; 124:5; 126:24;
pack 154:18	60:20;62:3, 15;63:7, 17;	41:4;46:22;80:15;119:7;	14, 20, 24; 36:15; 56:19	129:20; 130:5, 22; 131:6,
packaging 161:8	64:15, 21; 71:2; 76:25;	168:22;174:4	positives 84:4	7, 24; 152; 4, 0, 9, 11, 11, 12, 15, 16, 19, 21, 142, 2
packet 7:24:8:21:9:10	88:16;100:10;101:20;	personnel115:25	possession 14:14	11.144.9:151:3:152:13.
page 109:15, 20, 25:	10/25; 121:6; 140:16, 25;	perspective 36:6; 62:12;	possibilities 148:2	14, 23; 153:8, 19, 19;
122:2:127:23:130:19;	163.22, 173.5 6 10.	123:22;170:19	possibility 102:10	156:12, 14, 18, 23; 157:19;
133:16; 150:16; 153:23;	178:4:179:9	pertinent 26:6; 101:25;	possible 25:12;98:9;	158:7;159:19;160:3;
157:9, 12; 169:25; 181:20	patients 17:9, 16; 22:13;	1//:11 phonomona 73:17	100:23; 125:13; 138:8;	162:5, 11,14, 16; 163:22;
palpable153:18	29:22; 30.18; 35:12;	phenomena 75.17	144:3	166:17, 1/, 21; 1/2:12, 25;
paper 33:16	36:21;45:10;48:5;52:11,	phone 55.0,01.7, 20.0	possibly 137:5; 138:7	173.3, 7 processing 67:23:77:10:
paradoxicus 76:11	15, 19;53:3, 22; 54:3;	physical 70.4, 79.21	post 159:6,6	$114 \cdot 2 \cdot 121 \cdot 14, 15, 23;$
paragraph 93:24; 94:20;	60:13:62:25:65:6:68:13.	nhysician 51:9:81:12:	postop 114:23; 154:3	160:15, 23; 161:14, 19;
102:23; 109:10, 19, 24, 121:25:123:5:127:24	21, 21; 69:11; 71:14, 19,	85:24:107:19:170:14;	postoperative 22:25, 25;	162:4, 10,12, 24; 163:3, 5,
129:9:130:19:133:15:	20, 23; 74:9, 14; 76:6, 15;	172:10	73:10:79:19:85:22:	14
150:17, 20; 153:23;	79:16, 23; 80:15, 22;	physician's 9:9	86:25;88:21;95:14;	pretarnponade 74:6
155:14;157:8,11;169:25	82:22, 25; 85:19; 91:11; 95:18:105:12:110:7:	physicians 9:7; 16:9;	99:22;100:2, 21 ;101:25;	pretended 35:20
parameters 64:9; 77:6, 7	118:25:119:8.9:121:13:	49:3;50:17;51:8;86:3;	102:21;105:19;109:4;	pretty 166:24
part 8:18; 28:12; 83:7;	122:8, 11, 12, 20; 124:17;	120:10, 12	122:21, 23; 101:20; 171:25:173:4, 15	prevalent 58:9
136:25;142:3;146:12,20;	126:20;145:7, 14;147:20;	pnysiology 140:21;	nostoneratively 75.8	preventible 176:10, 12
109:18 partially 50:12	149:13; 150:4; 156:16, 21;	13 16 17.158:4.12.14	82:11:95:24:124:9;	prevents 70:23;71:9
participate 15:7:18:19:	159:15;101:20;105:10, 21 24:168:6:169:6 9 10:	piano 98:12	127:9;165:17, 18	previous 128:25; 134:19, 23:126:6
40:3. 23	176:5, 15: 178:18	picked 18:20:36:8	potential 88:20	23,150.0
participated 30:2	Patrick 32:16	picture 63:10	potentially 169:4	Primacor 60:7 14 21:
participating 31:5	pattern 83:13	pioneer 46:16	practice 40:10, 12;	61:10:109:13:116:24
particular 25:18, 19, 25;	Pause 113:13; 131:11,	pitted 35:8	41:19; 52:14; 54:11;	primarily 61:3
26:23;29:17;31:13;	18;155:10;180:4	place33:24;36:23;	o5:15,117:7	primary 22:20; 60:23;
35:17;36:22;40:13;	pay 39:16;87:7	97:12;100:6;105:14;	practicing 41,24	62:8; 69:13; 74:23, 25;
42:17, 20; 46:16; 56:15;	peak119:4	109:2;132:3;145:14;	145.3	171:11
79:23:83:4:109:3.7:	pediatric 40:19	165:19;1/5:14;180:12 placed 50:5:06:22:	practitioners 153:11, 21	principal 32:4, 6; 48:2
114:5; 121:19; 122:16	peer 94:3;95:7	99.1 4.121.9.145.5	precautions 53:12	prior 37:2, 16, 20; 49:3;
particularly 30:23; 96:2;	pending 20:20, 21, 25	156:14:176:7	precise 130:12	51:11, 17; 94:42; 142:17; 158:8: 160:24
98:24	people 39:16; 46:13;	places 7:8	predicative 62:24	privileged 10:5
pass 27:12	nor 18:11 25:117:3 14	placing 45:8, 13	prefer 65:14, 22; 152:5, 5	privileges 24:6; 27:20,
passively 126:24, 25	nercent 41.21 23 24:	plaintiff 4:14; 14:19	preferred 65:4	21, 23; 28:2
past 49:23; 96:13;	52:13; 61:8; 67:19, 20;	plaintiff's 5:5, 7; 7:13, 18,	premier 46:10	Probably 5:23;14:8;
nation (8:12:15:10:16:4	99:8, 9; 176:6	22; 8:5; 14:21; 21:10, 12;	preoperative 104:15;	20:2; 21:9; 37:21; 47:8, 17;
9:21:23: 22:3, 15, 18:	percentage 41:17; 52:18	48:20; 51:24; 90:15; 92:8; 96:12	108:17	83·5 20·86·8·89·15·
23:19;29:23;35:20;36:4,	perfect 74:11	nlaintiffs 15:4	preoperatively 159:23	91:20; 93:16; 99:8, 12;
7; 37:7, 11; 44:7, 10; 45:8,	perform 39:17, 21; 40:16;	plan 174:2:180:25	preparation 51:3	121:5; 137:16, 19, 21;
13;55:12;58:13,18;	41:4;86:11	planning 93:15	prepared 23:9	143:17, 21; 147:4; 148:12;
64·22:65·20.21:66·9·	performance 95:18	plate 45:22	Prosbyterion 27:22	103:0;104:7,10;100:20; 176:14
67:24; 68:6; 71:17; 72:21,	Pernaps 32:24; 88:4;	play 40:3; 165:22; 171:3	32:12:48:9:68:8:154:2	nrohlem 57:4: 59:6
22, 25; 73:9; 75:5; 77:25;	nericardial 72:20	please 4:9; 5:12; 6:8; 7:3;	present 5:10:38:25:	61:19, 23, 25, 25; 62:13;
78:3, 10, 25; 79:3, 20;	110:11:125:15, 23; 145:8;	26:16;110:22;155:5;	74:3; 79:8; 161:13	64:23; 69:21; 78:9; 84:3;
80:11:81:0, 21:87:8, 19;	165:15	167:18;181:6	presentation 37:3, 13	91:6; 101:24; 103:13, 15;
95:24:99:22:101:4,9,13;	pericardium 84:13	plural 73:23, 24	presentations 39:12	158:23; 160:22
102:2;103:6, 12;107:13,	period 21:15; 47:18;	plus 156:3	preserve 105:5; 124:12	57:8:15 2:2:172:2
20; 114:2, 9; 115:16, 16;	66:19;74:3;75:17;105:5;	point 6:15; 33:3; 48:13;	preserved 124:8, 16	Procedure 5:6:45:7:
120:7;121:2;123:22,25;	114:5, 7;110:5, 10; 118:21:120:24:122:21	111:15, 24: 127:21:	pressor 79:14	55:14,20;56:11;57:3,14;
128:11:129:24:136:3.8:	24;123:7;126:22;139:7;	130:13; 134:3; 135:11;	pressure 53:9, 16;59:7,	69:23; 75:10
137:12;138:9;139:10;	141:15, 149:4; 153:16;	136:2, 3; 146:22; 153:15;	17, 19; 60:2, 15, 20; 63:11,	procedures 28:22;
140:16, 24; 141:16, 19;	154:13;161:23;162:5;	158:17;161:17;170:6;	45, 24, 04, 5, 6, 10, 15, 18; 65, 9, 10, 12, 15, 19, 23,	40:16; 44:13, 18; 45:18;
142:24,144:9,14,20;	164:7;1/3:4;175:18;	1/1(17)(1/5)(1/5)	66:6, 14, 17, 24; 67:2, 7.	40:5, 24; 47:0; 48:7
14/:1/;148:20;150:15; 151:4 12:152:6 25:	neriodically 172.16	poincy $03.4, 4, 7$	14;70:23;74:21,76:12,	19.134.4:136.14.137.3.
153:24; 154:3, 7, 10;	neriods 76.19.175.8	nonulation 01:0 11	19;77:18, 22;80:3, 7;	138:18; 145:16; 151:11;
155:25; 156:8; 158:6, 24;	nerionerative 72.2	nortable 164:21	8/:24;88:3;101:10; 102:17:106:2,14:114:12:	172:6; 178:6
162:10, 22; 163:19;	person 29:23:171:19	nortion 20:3:32:15:	115:3, 7, 14, 18; 116:2, 10.	produce 13:8
164:19, 21; 166:2; 170:23;	person's 86:19	135:13	11, 17;118:15; 119:25;	product 10:5, 15, 17, 22;
1/1:24; 1/3:14; 1/4:0, 10;			<u>h</u>	

PA - product (10)

Christopher S. Long v. Cleveland Clinic Foundation

Mehmet C. Oz, M.D. May 16,2002

31:12:32:5:99:11.19	pursuant 5:5	30:9:45:17:57:2:66:23;	regard 9:7; 14:17; 19:15;	report 49:10, 12; 55:19;
products 31:9, 11, 19;	pursue77:16	77:25; 121:9; 126:12;	22:16; 25:4; 29:17; 31:4;	57:10;89:2,6;90:23;
40:4	push 126:23	149:14;162:20;164:10	32:2; 34:2; 35:3; 36:22;	92:10, 16, 18, 24; 93:5, 23;
professional 28:6: 39:5:	pushed 72:8:76:16:	reasonable 64:20;	39:20; 40:15; 42:6, 25;	94:6; 96:25; 102:23;
41:15, 16, 18	141:19	116:12;128:2;164:16;	51:23; 83:2; 93:24; 97:19; 102-2:112:22:120:25:	109:10; 122:2; 129:10; 120:18:131:2:132:5 16
profile75:25	pushing 35:22:36:10	175:25	132.17.171.5 25:179.9	17:135:14, 19:136:12, 23:
profused 66:15; 121:3;	put 13:4:42:10:63:10:	reasonably 174:14	180:24	137:25; 144:2, 2; 150:12;
179.23	137:25; 140:13, 16, 25;	reasons 15:12; 58:9;	regarded 46:9	152:18; 154:23; 155:3, 8;
profusion 6318, 22;	149:3; 154:7	84:14;125:15;145:11; 162.12	regarding 6:21:14:15:	157:3; 159:10; 169:24;
64.6;66:7,25;67:2;	puts 133:14; 137:12	reholue 1/6:11	34:21: 37:23: 51:8: 70:12;	177:15; 178:15
130:12;157:18;175:3	putting 97:12	recall 10.24.20.4.23.10	98:3;144:7;161:16;173:6	reported 130:21
programmatically 28:21		24:2:37:19:38:23:48:23:	regardless 96:16	reporter 5:10; 7:3, 8
programs 30:9	0	49:2, 13, 24; 50:2; 97:18;	regiment 101:11; 137:14	reports 48:20; 49:9, 14,
progress 142:9		98:2, 4, 8; 112:11; 113:8;	regionally71:5	19;50:2;155:25
progression 141:6	quality 29:22:44.6 10	119:7; 167:20; 177:3	regression 141:6	reputation 96:16
progressive53:10;	16.81.21	receive 27:7; 178:24	regular 70:3, 9;168:16;	request 13:12; 50:7
144:19	quantify 103-23	received 160:11;178:14	172:21	require 36.25;50:10;
18 10 20 21 22 6 8 18	quantity 179:13	receiving 116:15, 19;	regulate 59:16	60:13:69:2:72:23:
nrojecte 20:17:21:8 20:	quick 180:3	118:16	regulation 122:15	101:18;122:20
32:3:34:3, 15, 17; 42:9	quicker 154:16	Recent 53:20	related 59:12, 14; 100:2;	required 6:17; 36:21;
prolonged 66:19, 22:	quickly 23:16:53:8:	Recess 90:18; 119:18;	179:14	60:18;96:17;119:9;
142:13	168:8	recognize76:23	relates 43:22	141:23
prompt 174:14	quite 22:7; 25:13:63:16;	Recommend 42:20	relationship 28:6	requirements 79:13
prompted 128:4; 129:14,	89:8, 14;145:21;169:7;	recommended36:17:	relationships 30:24	requiring 118:10
23	178:16	42:19	relative 92:21;181:9	rereading 93:7
prone31:16;109:17,21;		record 4:3, 24:90:12, 20:	relatively 53:20; 141:18;	research 30:12, 14, 16,
110:6, 14	R	119:17, 20; 128:20, 23;	rologood 6312 21	21; 31:3, 7, 20; 32:3, 8, 15; 32:10, 17:34:3, 15:30:20
proportion 14:19, 20		32:18;134:18;181:16;		22.25:41:18.23:42:9:
protocol 146:12, 14, 17,	radiologic 165:20	82:3	177.14	47:20, 24
21; 14/:22; 1/3:9	raise 87:11	ecorded 128:6; 129:10;	reliable 43:15:85:10:	reserve181:8
39:5:69:8:144:7 23:	raised 83:9;165:10	.30:4; 132:17; 139:3, 12; 56:4: 178:3	138:3	resident 168:20; 170:24;
180:25	range 65:4;83:21;103:9;	ecording 163-24	'eliably 134:5;135:15;	171:14
provided 12:7, 20; 24:12;	104:2, 4; 106:4, 23;	records 8:16 17:50:11:	136:16, 18;137:4;138:2,	residents 42:13; 69:14;
50:20; 81:11;92:17;96:2;	125:21;132:7;147:5;	i1:14: 110:18. 24: 111:4.	1, 13;142:6	72:18;113:6
161:15	[48:21;156:14;166:12	i, 9; 112:25; 129:3	elief 74:21	resistance159:17
providers 51:13; 100:20	ranging 29:22	ecover 168:10	elieved 74:4	resolve16:11; 73:25
provides 62:5; 69:3		ecovered 175:19	ely 43:20;71:24	resolved 16:12; 20:16;
proximal96:25;148:10	late 49:5:71:12 16 10	ecovery 68:10, 16; 69:4,	emained 123:19;136:6	rospoctable 126:7
proximally 138:21	24.91.7 8 21 23	6, 18; 108:4	emember 13:23; 14:12;	respectable 120.7
prudence 61:13, 16	rates 91.17	eddish 76:7	10:20; 20:14; 50:12;	
prudent 100:19; 151:3;	rather 56 25:61:22	educe 31:9, 19;109:10;	71:22	response 143.17
152:13;155:12 Public 4:18:180:16	rational 108:2	.21:24	'emove11:12;148:5	31:25: 32:2; 41:15; 42:6, 8,
Public 4:18; 182:16	reach 91:14:107:23:	educed /5:11	emoved 9:25; 10:6, 15,	11;171:24
publication594:3;95:7	126:25	eduction (4:21:45:10)	.9, 19;11:4, 11, 14; 73:22	responsibility 22:12;
published 42.22	reactive 66:9	76.18.80.7	endered 94:23; 180:7	170:21;171:11
23: 102:6: 154:19: 155:5	read 43:3; 50:20; 97:24;	eexploration 52.10 15	endering 92:4	responsible 170:19;
pulled 98:16:100:3, 11:	112:10; 144:2; 154:22;	10:13:128:5;130:10;	'eoperate176:3	171:7
102:15	159:11: 175:23;181:17	42:22;173:19	eoperation 52:20, 22,	rest 14:22; 158:10; 177:15
pulling98:6		eexplored 139:9	25;129:4;155:12;159:2;	result 21.4.44.20.63.4
pulmonary 69:2; 121:23;		efer 50:24; 51:4	07:3	72:6; 75:17; 108:10;
160:15;161:14, 19;162:4,	126.7	eference 118:3; 153:23	eparte 97.5	133:2, 7; 139:4; 145:4;
10,14	real 76-23-77-25-78-8-	eferred 46:9;129:9;	65:8	174:21
puise 132:9, 15	94:11: 144.23:162:19:	57:3	ephrase6;9:60:10	resulting133:18
puises /6:11	177:18	eterring 74:13;104:10;	eplacement 41:5:	results 94:4; 100:14;
pump 130:16	realize 70:17;151:4	70:4.7	32:12; 53:25; 54:10; 55:2;	170:17
pure 142:2	really 67.4;71:24;76:24;	efers 45:19	18:12, 14; 59:25; 60:13,	resuscitation 141:24
purplish /0:/	102:14; 103:23; 115:20;	eflect 4:24:76:18	9;63:7;65:6;91:7;93:20;	retrospect 137:17;
purposely 101.14	41:2; 147:3; 149:25;	reflective 62:21	0;17;10/:14;122;19; 25:3	return 10.10.74.5.80.12.
purposes 17.2.62.7	78:10:179:21.23	reflects 178:10	aplacements 55:25:	128:4, 10; 129:3; 131:13;
64:19;70:13	eason 12:10; 28:16;	refresh 54:13	6:17; 57:17, 24; 122:9	142:21; 170:3, 7

Mehmet C. Oz, M.D. May 16, 2002

Christopher S. Long v. Cleveland Clinic Foundation

returnable115:22	Rules 5:6; 6:2	serious 173:3	5;124:18;159:25;179:4,	spoke 34:12, 24, 25;
returning 23:20	run 68:5	serve 17:23;61:5	8;180:16	37:17, 18, 25
reveal 61:24; 168:4	running 67:22; 115:25;	served 13:17	six-hour 147:5	spoken 38:5, 51:16, 17
revealed 102:24; 180:21	162:6, 7	service 42:14	Sixteen 68:19	spontaneity 37:9
reveals 148:20	runs 172:5	services 13:21;39:5;	sixth 94:19; 166:14	spot 102:12
revenue 39:10	rupture 15:13;99:23	69:9	size 36:13; 104:18;	spring 35:6
reverse 175:16	rupturing 98:5	session 6:4	139:20	squeezing 168:15
review 11:23; 16:21;	~	set 151:25	sketch 64:19	St 27:23; 48:11
24:4; 42:9; 43:17; 48:20;	S	setting 77:12; 87:19;	skyrocketed 102:17	stabilize 80:11
49:8, 20; 51:12; 93:12;		175.5	sleep 170:17; 173:17	Stable 64:8, 11, 87:19; 114:3:123:10:21:21:22:
94:5;95:7,10;111:17;	S 4:5	settlement 20.17	sleet 177:24	137:14: 158:7: 172:13
176:23	Sabiston 43:5	settles 151.19	Slow 31:15	staff 29:24:83:7:170:24:
reviewed 11:17: 12:17:	sack 72:20	seven 166:23:173:23:	Slowly 82:17; 122:3	171:2
33:18;49:22;50:4;	sag62:25	175:18	small 47:7; 72:7; 116:20;	standard 92:23; 95:23;
110:18, 24; 111:10;	same 18:25; 45:2, 4;	seventh 166:14	118:0; 141:18; 145:21; 148:6	96:18;147:14
112:25;177:2	46:20; 54:2; 66:25; 74:10;	several 8:4, 24; 16:6;	smaller 58:7	start 14:7; 47:15; 53:8;
reviewing 50:7;92:4	saturated 67.4 21	18:17; 23:20, 25; 30:16;	Smith 48:21 22:49:3.11	$126 \cdot 22 \cdot 139 \cdot 17 \cdot 145 \cdot 13$
reviews 144:25	saturation $67:11$ 13 17	45:2;54:21;79:25;	50:17	147:2; 148:7, 18; 158:11,
revoked 24:7; 27:16;	25	Severe 59:20:91:11 13:	Smith's 12:5	12, 18; 161:25
28:2 royalyad 0#-11	save 111:12, 25	104:3	sneaks 103:14	started 37:5; 46:14;
ribe 45-22	saver 154:9	severely 130:8	solution 118:9, 23;	48:13; 93:6; 108:7; 115:3;
1105 45:25 right 16:7: 26:22:52:4	saw 37:25;49:11	sew 149:14	124:11;173:20	117:9;122:5;124:24; 133:10,19,24,25:134:4:
10 13 17 22 71 10 72 5	saying 98:5; 103:18;	shared 170:21	solutions 61:23	135:9, 12:137:3, 19:
6: 73:2:77:10:78:2:83:6:	111:14; 112:2; 135:22	sheet 96:3; 117:18, 19;	somebody 152:23	138:18; 145:25; 158:4
85:4;88:24;89:16;	schedule 18:16, 21	120:18;131:9;146:4;	somehow 21:24	starting 107:14; 109:8
102:25; 103:4, 17, 22;	scheduled 12:13; 19:4;	159:/	Someone 21:16; 53:13;	starts 133:13
104:3, 9, 17, 21, 24; 105:6,	3/:14;49:4 Sobwortz 42.6	Sneets 123:2;131:20;	145:11:167:21	State 4:19; 5:10, 13;
10, 16, 22: 107: 5, 6:	scientist 64:17	shift 144.17.161.25	sometime 134:12:	26:21;127:24;164:11
108:10, 15, 25; 109:5;	sole 1/8.6	shock 179:24-24	135:10;136:14	Stated 84:21; 106:18;
110:7, 19, 25; 111:19;	searching 117.9	shot 147:8	Sometimes 53:15, 19;	statement 94.6.95.17
112:16; 113:3; 123:14;	iecond 55:21:60:7:	show 36:10:81:23;	57:14; 71:15; 78:21, 23;	150:11; 153:15, 15
158:17:159:3:160:4 6 9:	109:19, 24; 113:12, 15;	113:15	32:6;85:4;97:9,14,15;	States 91:3
165:13;167:3;172:23;	119:15; 128:15; 131:16;	showed 142:18; 165:9	somewhere 77.8	status 88:17
181:8	136:25; 150:17; 154:23;	showing 84:16	sonometer 97.9	stay 166:15; 179:11
right-hand 177:24	155:5, 9; 157:8, 9, 11, 12	shown 143:22	soon 115:18:130:19	stays 64:8
right-sided 160:7	section 11/:18	shows 146:4	sorry 21:11:30:5:	stenographer 6:13
rigidity 124:20	50:2:144:4	shutters 169:3	09:19;123:11;131:19;	stenosis 59:11, 21;
rise 166:16	seeking 117:8	side 35:15, 16; 57:13;	.43:19	$\rightarrow 0:25, 91:14; 121:13, 16;$
risk 36:20; 52:24; 53:2;	seem 21:19:160:20;	3/(21, 7/(10, 90, 15), 101, 19, 152, 7, 8, 9, 177, 24	ort 35:20; 91:21; 160:8;	stornal 56:25: 128:22
109.3 10.110.9.156.15	71:8	sides 149:15	.09:3	iternotomy 55:17-21
risks 154:19	reemed 95:13	sign 75:13:79:11:166:25	ounde 90:2	i6:9, 10;57:7, 9, 19, 21;
robotic 47:6	eems 106:12; 129:6;	significance 25:19, 25;		i8:14
role 18:3; 30:7; 40:3;	35:20; 164:19; 170:11	26:23;123:11	inace 72:19:73:4 24:	sternum 45:22; 58:4;
61:5; 165:23; 171:3;	selection35:11	significant 26:5; 53:3;	10:11:125:15.23:145:8:	/2:9
177:10	ielling 99:19	57:15;117:5,13,16,19;	59:16;165:15	Steve 48:21
roles 121:21	ienu 49:19;50;8	167.3.170.12	ipaces 73:23	steven 12:3
room 68:10; 80:13, 25;	iemon 09:0	significantly 91:23	ipeak 5:25; 37:21; 38:17;	,UII 124:18;141:25
110:11:128:5:131:13:	iensed 121.14	signs 53:24: 73:8: 77:12:	59:15	19:14: 101:15: 107:4:
132:15; 138:11; 151:8;	ient 11:21:49:10:178:14	100:23; 160:3	Ipeaking 33:5; 38:2, 21;	23:9; 170:25; 178:15;
153:10; 154:12; 156:2;	ientence 102:24:	silicone 31:13	2:20;84:7	79:12
168:11, 13; 173:25; 175:2	35:13; 137:2	similar 56:2;57:9	pecial 101:10	timulate 60:25, 125:18
100198:24 Reac 22:7	eparate 39:22;112:20;	sit 25:17; 26:2, 23	pecialists 40:20	timulates 145:9
RUSE 32:7	49:5, 8; 151:25	site 32:5; 33:19; 48:8;	pecific 28:21; 35:18;	ititch 98:5;99:4,23;
roughly 37:15:117.7	eparately 35:25;	20:25;158:21	7:8,45:25;98:3;172:5	102.3
round 69:10	01:14;140:15	SILES 9/:/	pecifically 19:16; 24:3;	39:17, 22: 148:19: 162:9
rounds 172.21	equelae 156-20 22	situation 88:15:106:19	9:18;36:10;112:11; 24·13	stopped 162:4; 163:24
routinely 67:24	eries 62:10:88:20:	six 11:7:14:25:22:9	pend 28:24:41:18-21:	strategy 101:5,7
row 127:17	77:23	23:6; 37:22; 63:2, 5; 119:4.	73:17	strict 115:14; 120:3

Christopher S. Long v. Cleveland Clinic Foundation

	May 16,2002
test 61:21;67:23;168:12;	46:10;151:10
170:4	tore 148:9

strictly 60:21 striking 104:2 string 98:12, 13 stroke 48:5; 103:23 strong 30:23 strongly 58 6;165:4 structure 105:10, 10; 139:16;151:17 structures 44.22 students 42:16, 19, 24; 43:7 studies 50:3: 76:21; 165:20;170:17 study 32:5: 33:13: 48:8 stun 105:16 stunned 104:22 subject 15:8:16:2 subscribed 182:13 subsequent 142:10 subsequently 22:14; 33:17; 70:25; 139:8; 151:14 substandard 15:5 substantive 93:10 successful 16:5; 102:4 suck 80:10 suction 152:8; 169:3 sudden 130:21; 133:7, 18;136:13; 137:15; 150:13, 20; 152:19; 153:6; 157:12;166:24;176:18 suddenly 79:24; 102:17; 114:6; 115:17; 128:2; 139.22;145:13 sued 22:3 suffer 53:10:105:7 suffered 132:25; 174:16, 20 suffering 15:12 sufficient179:13 **suggest** 64:23; 77:23; 178:5 suggestion 77:8 suggestive 178:4 suggests 64:25 suite 68:7; 130:20; 170:3, 8 summarize 92:25 summarizing 7:10;8:10 summary 157:25 superb 94:4; 179:17 support 30:24; 60:2; 68:12;79:14;80:12; 115:12;116:13;119:10; 120:16supposed 20:25; 21:4 sure 5:24; 25:2, 15; 142:6; 179:3 surgeon 35:9, 24; 65:25; 101:12; 144:24; 150:3; 151:4, 169:13, 18; 173:4; 174:14

surgeons 23:24; 29:25; 33:19; 35:22; 69:8;

162:6

124:14:137:10;150:7,24; 152:5 surgeries 16:18; 40:23; 47:16 surgery 26:8, 18, 21; 27:6, 6, 10, 11;29:7; 31:10; 35:7; 37:23; 40:10, 13, 14; 41:5; 42:13, 18, 25; 43:12, 23; 44:6; 45:3, 11; 46:2, 5, 17, 23; 47:5, 21, 25;48:6;54:10;55:2, 12; 57:15, 22; 58:5; 60:14; 61:12; 62:16, 18; 63:5, 8; 65:7, 14, 25; 68:6, 21; 70:16; 72:4; 73:7, 14; 76:3; 77:24; 80:21; 81:7; 82:16; 87:2;88:9,11;91:9;93:20; 94:8;96:22;97:20;98:6, 15;99:5;104:23;107:7, 14;108:16;115:19;119:2, 5;121:17,124:8, 13,14, 19;126:3, 8;128:10; 129:4, 15;142:21;148:15; 149:23; 153:24; 154:4, 16; 156:8, 10; 160:4; 166:3; 174:7, 17; 175:20; 176:21; 180:11surgical 40:16:45:7: 55:23;56:15;68:7;69:14; 83:7;88:12;130:20; 137:21; 171:25; 173:20; 178:16 survival 91:6, 8, 15, 16 survive 52:24 survived 52:21 suspect 19:25; 76:2; 121:5;145:22;147:13,23; 161:7;162:23;175:17 suspended 24:6; 27:16; 28:2suspicion 100:9 suture 31:15:65:10; 97:2, 3; 98:11, 16; 99:15; 100:3, 12;145:12; 147:25; 148:5, 9, 14;149:8, 16 sutures 97:13; 148:7 **suturing** 149:22 swell 31:15; 165:13 swelling 72:6 swells 124:9 swollen 73:2; 165:16 sworn 4:18; 5:8; 182:13 symposium 38:18 symptoms 73:8 synthetic 99:14 system 47:7; 59:21; 102:4;106:9;114:3; 121:15; 154:10 **systemic** 74:17;121:22 systolic 60:3, 15, 20; 65:20, 22; 116:3, 17; 118:15; 119:25; 132:4, 7;

T table 153:10;154:13 tabulating 33:12 tachycardia 77:4 talk 13:14; 38:14; 88:25 talked 34:8; 51:9; 70:7; 77:3; 79:7; 142:2; 177:8 talking 12:3; 17:14, 15, 18;34:6; 157:6, 14; 167:24 talks 39:8 tamponade 17:3, 6, 13, 22; 23:3, 5; 66:3; 70:13, 14, 17, 21, 22; 71:4, 8, 13, 18;72:3, 13,15, 24; 73:9, 13, 16, 24; 74:2, 4, 21, 24; 75:2, 9, 13, 18, 22; 76:2, 9, 24;77:4, 8, 15, 24; 78:7, 8, 13, 18, 22, 24; 79:2, 6, 8, 12, 16, 19; 81:13, 17; 82:7, 10, 14, 24; 83:3, 9; 84:5, 6, 17, 18, 25; 85:5; 87:4, 11, 15, 22; 88:10; 109:18, 21; I10:6, 9, 12, 14; 123:14; 126:18; 140:19, 20; 141:5, 8, 14; 142: 20; 143: 24; 157:4, 6, 13, 14, 15, 17; 158:4, 11, 13, 14; 165:10; 166:19; 167:13, 22; 168:2, 4, 7, 9; 176:19 tamponades 82:17 tamponading 88:5: 140:2, 5: 142:24; 179:10 tape 119:14 task 39:17 teaching 42:12 team 23:23; 29:25; 101:13, 22; 129:17, 23; 130:21; 137:21; 170:23; 171:20; 173:20; 174:11 tease 22:6 technical 43:19 technician 85:15 technique 55:24;149:22; 150:2**Techniques** 26:21; 55:3; 57:18, 25; 58:12 technologies 30:17 telephone 5:6 telling85:20;144:3; 160:19 ten 28:19; 29:2; 30:8; 164:8;176:6 tend 53:7; 58:8; 87:13; 119:4;181:5 tends 64:19 tense 93:9 term 43:23; 44:4, 25; 83:6;91:19;113:23; 120:4, 9, 11 termed 44:13; 45:18; 104:5 terming 106:22 terms 50:14; 71:7

testified 4:21; 15:22, 24; 118:17 testify 18:6; 19:7 testimony 6:14;18:12, 24;117:12 testing 170:2 tests 68:4; 80:9; 170:16 textbooks 46:8, 10; 50:25 their's 162:24 therefore 104:25 thick 124:16 thickened 84:13 thickening 91:12 thin 98.12 thinner 36:20 third 35:9; 55:22; 123:6; 126:8,21 thirds 104:22 Thoracic 27:11:35:7 thorough 180:18 though 82:12;119:23; 123:24;132:18 thought 36:3;96:13; 97:19; 137:6; 180:21; 181:2 thoughts 177:19 thousand 18:10, 21, 25 threatening115:21 three 11:6; 26:19; 32:24; 56:7;127:8;131:19; 164:8, 15; 166:10, 12 threw 144:14 throughout 121:3 thumbnail 64:19 tied 174:10 til 127:22;161:2 times 5:22, 23; 14:25; 20:9, 11, 15; 54:21; 98:18; 152:10;154:17;157:7; 164:8, 8; 174:9; 175:5; 178:13 **Timothy** 49:16; 51:20 tissue 36:8, 12; 98:13, 16, 23; 99:4, 5; 102:6, 10, 12, 15; 149: 10, 10, 14, 18 tissues 97:15; 98:10; 100:13today 6:24;11:17;25:17; 26:2, 24: 45:5; 93:8; 147:15;182:4 **Today's** 4:4 together 12:10; 30:18; 33:15;63:10;97:16 told 10:25; 14:24; 49:21; 51:14; 54:9; 143:3, 11, 18 tolerate 168:7, 10 tone 37:7 took 33:24; 36:23; 37:15 top 13:6; 24:22; 28:19; 29:25;150:16

topic 18:2; 26:9; 38:22;

ore 148:5 torn 148:10 torgued 102:16 **TOSTI** 4:13, 14, 23; 5:5; 7:2; 10:11, 23; 11:2, 8; 12:19; 13.11;17:10, 18; 24:18, 23; 25:9; 30:5; 34:7, 12;88:23;89:8, 12, 19; 90:2, 5, 21; 108:19; 109:24; 111:7, 16;112:4; 113:22;119:21;128:24; 167:17;179:25;181:3 total 127:24 tough 37:10 track 18:14; 98:21; 107:22;169:21 trading 33:4 traditional 44:7; 55:17; 57:7:143:25 trained 46:4; 80:17; 85:15;86:19;152:9 training 28:9;42:12; 46:2;80:20;82:9 transcribed 5:9 transcript 90:4 transecting 56:25 transesophageal 85:24; 86:20 transfer 129:6, 23; 150:14, 21; 152:20; 154:20 transferred 21:24; 128:12;154:12 transferring 175:6 transient 73:17:75:22: 159:18 transiently 169:3 transplant 23:19, 20; 72:22 transplants 68:25 transport 175:7 transverse 55:21; 56:9, 10, 21; 57:9 trauma 44:21; 45:19 travel 28:19 traveled 46:11 traveling 34:7 treat 61:14; 74:15; 99:20; 101:4;108:8,9 treating 61:19, 22; 73:13 treatment 88:11; 101:5, **5**; 109:13; 168:9; 175:15 tree 74:19 trend 64:15; 83:15; 163:18;164:11 trending 62:7 trends 75:2, 4; 87:14; 163:14, 17; 164:12 trial 15:23, 25; 16:14; 18:6, 24; 19:3; 20:12; 48:3, 15;93:14;180:25;181:5 trials 40:4 trip 155:23

Mehmet C. Oz, M.D

Min-U-Script®

(13) strictly · trip

Mehmet C. Oz, M.D. May 16, 2002

Christopher S. Long v. Cleveland Clinic Foundation

ļ

				1
trouble 100:4	undergone 52:12;	173:23;176:2	122:8; 160:4, 6	Whereupon 7:9, 15, 20,
true 59:4;88:18;95:17;	107:13;100:5	utilize 60:18	Verb 93:9	24;90:13
101:8;122:10	underlying 01:23; 91:0	utilized 55:23		WIDE 63:10; 81:4; 88:20;
try 65:15; 80:10; 113:19;		utilizing 55:2	Verdict 16:15, 15;20:17	100,7
1/5.44 trying (8.2.105.2)	underwent 95:21; 152:5	1987	versed 05:17	whose 15:11
131·20·171·18	uneventiul 173:19	V V		wide 132:15, 16
tube 74:23:75:3 6 6 12	unimportant 132:8		versus 4:6; 132:7	widening 86:25; 87:10;
16. 21: 79:23. 24: 97:11:	$\begin{array}{c} \textbf{UIIII } 08; 8; 11, 18, 22; 09; 4, \\ 16; 18; 21; 70; 3; 8; 83; 2; \end{array}$	V 12:5	vessels 66:9, 13;156:18	165:9
100:15;125:11, 24;	156:12	VAD 32:18		wife 21:13
126:25; 127:25; 129:15;	United 91:2	Valley 38:15	VIDEO 4:2, 90:11, 19; 119:16 19:128:19 22	windows 143:22
130:3;133:22;134:7;	units 68:16	valuable 62:11,82:16	182:2	wish 43:3
13/(13; 139; 12; 140; 25; 140(25; 142, 140; 145, 19)	univentricular 85:9	value 57:15;62:7,14;	videographer 119:14	withdraw 21:2, 12
23:155:18.20:166:2:	University 39:3, 5, 13, 23	132:7;168:19	videotaped 5:9	Within 56:7;65:5;70:15;
168:25, 25; 169:4; 170:13,	unless 6:18; 115:21;	values 177:23	view 8 :10; 82:3	72:20;74:19;75:2;80:17;
15;172:2,9	173:12	valve 36:8, 13, 19;41:5;	views 7:11	86(5); 104(2); 110(11); 112(14) 114(2) 2) 152(25)
tubes 73:22; 75:9; 80:10;	Unlike 116:24	45:16, 17;47:7; 52:12;	vigilance 73:8	112.14, 114.2, 5, 155.25,
126:13, 17; 140:4, 6;	unlikely 139:20	53:24;54:10,15,25;	vignette 124 11	without 21:14:45:7:46:5:
168:16, 19; 169:21;	unorthodox 16:22	57.17, 15, 24, 50.17, 57.17, 24.58.11, 14, 19	VIP 101:9	144.12:151.21.156:17
turn 115:16	unstable 87:9; 113:24;	24:59:5.5.23.25:60:13.	visit 28:13, 17, 29:17;	172:18:177:18
turned 84:5-117-14 22-	114:10, 22, 25, 25; 115:10;	19;63:6;64:22;65:6,7,	34:9	witness 5:8, 11; 17:4, 7:
127:5	110;4;118;14;120;2,5,6, 14:121:7	13;91:2;93:20;98:15;	visited 28:11;33:25;	21:11; 89:17, 20; 90:7;
turning 118:17: 136:9	unsterile 151.13 20 24	104:13; 107:13; 122:9, 19;	105:24	128:14, 18;131:12, 16;
twice 15:19;91:20	unusual 99:3, 6, 7:	124:14;125:3;161:20;	visiting 29:11	171:13; 181:14, 17
two 11:6; 12:9, 14; 14:11;	112:18;149:7;177:3	valves 25.11 12.26.12		wonderful 55:11
26:25; 27:8; 32:2, 24;	up 15:12;18:17:21:25;	12.17	VITAE 24:10, $13;25:5, 14, 23:26:11:468:00:12$	wondering 24:14;131:6;
34:15;35:22;41:13;	24:14;25:11;56:23;	variable 149:11:160:25	volume 88:5 8	157:15
42:15; 49:3; 50:17; 54:24;	61:24;63:15;68:14;	varies 44:16	volume 38.9,8	word 83:5; 94:17, 19
93 :8:94:18:97:7:100:17:	70:22; 75:16; 97:13, 14; 102:2 15:102:14:106:11:	variety 7:25; 8:22; 15:11;	W	words 45:21;48:4;
104:22;105:17;107:8;	102.9, 19,109.14,100.11,	19:18;58:16;63:2;84:13	V	137:24; 175:13
115:24; 119:8; 120:25;	17;116:2, 8, 10; 117:14,	various 7:4,8	weit 100.2	Work 10:5, 15, 16, 21;
121:21; 126:14; 127:12;	22; 118:18; 123:18; 124:2,	vary 101:4; 164:2	walte 126-2:126-22	12:21; 29:5; 30:25; 75:10; $03\cdot12\cdot101\cdot6\cdot103\cdot23$
139:23; 142:10; 143:7; 177:2:178:12:179:8:	6;126:13, 17, 22; 129:22;	vascular 74:19	wake 124:2; 120:22	worked 32:6:38:9 11
160:16:162:20:164:15:	136:5, 25; 140:9; 141:3; 143.7, 12.153.2:154.10	vasculature 60:24		working 176:14
166:11;171:9	11:155:5:158:9:161:2;	vasoconstrictor 61:4;	warm 105:6	world 29:10:46:12:
Two-page 7:9; 8:9	165:16; 174:10; 179:7	119:9	warms 10/125	93.25.94.15 18.24.95.5
type 17:11; 31:11; 40:13,	updated 24:17, 21; 25:4;	vasodilate 122:17	warrant 5/-2-112-20	worried 127:7
15; 46:16; 47:11; 56:6;	90:14	vasodilating 119:2	warranted 155-23	worry 178-21
61:9; 68:8, 21; 74:12;	upswing 162:16		Washington 5:17:36:24	worse 101:11
95.19,99.5,109.5, 112:19:147:18:166:3	urgency 172:22		watched 100:23	worsening 123-14
typed 24:22:155:6.8	urgent 158:24		watching 53:23	worst 159.22
types 19:19:44:17:98:21	urinary 179:10, 18	115-25	water 125:22	worthwhile 93:16:165:5
typical 87:14; 114:11;	urinate 179:22	vein 16:10:138:22:	way 33:13; 44:9; 53:6;	wound 138(22) 151(10
125:2, 4; 166:2	urine 179:2, 7, 12, 16	159:24	62:16;71:8, 12; 76:23;	write 162.0 15.164.6
Typically71:17;86:20;	use /:/;55:19;55:16; 60:5 8:61:2 4:75:2:	veins 85.17	95:9, 22; 100:14; 106:11,	writing 162-2-164-4-14
108:13; 124:17	101:18:108:7:109:12:	vena 85:13	20;118;21;138;6;141;7,	17
typographic 93:8	116:21; 117:8; 120:9, 10;	Vender 7:21; 8:20; 49:16;	13,144,0,100,9,101,21,21, 22.153,12	written 7:10:8:9:26:7:
typos 94:18	124:12;127:18;160:6	51:21	wavs 44:11: 87:25: 136:4	33:20; 134:22, 24, 25;
	used 42:24;44:2;56:2;	Vender's 49:20	8;144:11;150:6	136:11, 23; 163:13
U	59:2; 61:3; 69:12; 94:8;	venous 63:11; 67:11, 13,	wedge 56:24	wrong 93:9; 170:15
	99:12;108:15;150:2;5	21, 25; /0:24; /4:20; 77:18, 22:80:2:87:24:	week 40:24; 41:3, 8, 13;	wrote 33:16; 92:13;
ubiquitous 87:6	usciulo1.12 using 56.0.57.0	88:3:106:2. 13:142:25:	47:2, 14; 54:14, 21, 24;	112:15; 113:7; 133:21
ultimately163:20	using 50.2, 57.2	159:19;160:2	55:6; 127:4	
unable 122:17; 124:21	124:21:125:6:127:15:	ventilator 76:15, 16	Weeks 56:7	
unbiased 92:4	146:17	ventricle 53:17; 59:10,	weigning 177:16	
uncommon75:8;	usually 42:14;64:3;65:9;	10;85:4, 5; 104:17, 24;	What's 2416(41-21)	x-ray 78:21;164:22:
104:15;107:10;125:0; 161:11:172:15	71:23;75:9;80:6;81:21;	121:16;141:25	66:5:76:10,25:80:24	165:13, 19
under 6:4:70:18:117:12	84:11; 85:2; 80:5; 88:11,	ventricular 30:25; 31:4, 18:53:13: 23: 77:5: 01:17:	81:8; 82:20; 143:13;	k-rays 170:5
126:24;155:15	146:8, 24: 148:18, 23:	103:23; 104:21; 108:11:	165:25	Xeroxed 8:18
underao 91.7.122.9 11	152:12, 13: 165:22;	110:20, 25; 111:20; 113:3;	When's 56:5	Xeroxes 8:18

Y
Yared 171:23
year 15:24; 20:5; 41:2, 12;42:15; 47:9; 54:24; 98:20
years 18:17; 30:8; 32:24, 24; 83:16; 176:3, 7, 14 yesterday 54:16
yield 139:23 York 4:19; 5:10, 11, 18, 18 Young 9:5
<u>Z</u>
Z 4:17
Zilka 9:6

ł

J