Page 1) State of Ohio County of Lorain) IN THE COURT OF COMMON PLEAS James J. Armstrong, Executor of the Estate of Nancy Armstrong, Plaintiff, Case No. CV126180 vs. EMH Regional Healthcare System, d/b/a Amherst Hospital, et al., Defendants. Annapolis, Maryland Tuesday, May 21, 2002 Videoconference deposition of DAVID CHARLES BRANDON, M. D., called for examination by counsel for Plaintiff, pursuant to Notice, at the offices of Video Communications, 222 Severn Avenue, Suite 3, Annapolis, Maryland, 21043, commencing at approximately 6:45 p.m., before Suzanne Giles, a Notary Public in and for the State of Maryland, when were present on behalf of the respective parties:

Page 2 On behalf of the Plaintiff: THOMAS E. CONWAY, ESQUIRE DONNA TAYLOR-KOLIS, ESQUIRE	1	Page 4 P R O C E E D I N G S
THOMAS E. CONWAY, ESQUIRE		IKOCLEDINGS
		Whereupon,
DUNNA TATLOK-KULIS, ESQUIKE	3	DAVID CHARLES BRANDON, M D
Friedman, Domiano & Smith Co., L.P.A.	4	was called for examination and, having been first duly
Sixth Floor - Standard Building	5	sworn, was examined and testified as follows
1370 Ontario Street	6	EXAMINATION BY COUNSEL FOR PLAMTIFI
Cleveland, Ohio 44113-1704	7	BY MR. CONWAY
Cleveland, Onio 44115-1704	8	Q Dr Brandon, my name is Toni Conway I'm one
On behalf of the Defendant, Briccio Celerio, M.D.:	9	of the attorneys, along with Donna Kolis, who
On behan of the Defendant, Difecto Celeno, W.D.	10	
RONALD A. RISPO, ESQUIRE	11	going to be taking your deposition
Weston Hurd Fallon Paisley & Howley L.L.P.		Would you please state your full name for
2500 Terminal Tower	13	the record, spelling your last name for the court
50 Public Square	14	reporter7
Cleveland, Ohio 441 13-2241	15	A David Charles Brandon, B-r-a-n-d-o-n.
Cloronand, Gino TTI 15 22-1	16	O Dr Brandon, this is going to be my only
On behalf of the Defendant, Paul Bartilucca, M.D.:	17	opportunity to speak with you prior to trial and ask
on bonan of the Defondant, I auf Barthabea, M.D.	18	you questions regarding your opinion and your
MARK FRASURE, ESQUIRE	19	understanding of this case
4518 Fulton Drive, NW	20	I would ask that you do not answer any
Post Office Box 35548	21	question which you do not understand If you do not
Canton, Ohio 44735-5548	22	understand a question, please ask me to rephrase it or
Page 3		Page 5
CONTENTS	1	
WITNESS EXAMINATION BY PAGE	$\begin{vmatrix} 1\\2 \end{vmatrix}$	restate it. And I will do so If you do answer a question, I will assume and rely upon the fact that
WITNESS EXAMINATION DI TAGE	$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	you understood the question. Is that fair?
DAVID CHARLES BRANDON Mr. Conway 5	4	A Yes.
DAVID CHARLES BRANDON MI. Collway 5	5	
Mr. Frasure 118	6	Q If at any time you need to take a break, let us know We'll be glad to accommodate you. And if at
WILL HASULE 110		any time you feel like changing, supplementing,
		deleting an answer that you've previously given, feel
	9	free to do so, okay?
EXHIBITS	10	A Okay.
DAMBITO	11	O And you understand that you are under oath.
PLAINTIFF'S FOR IDENTIFICATION	12	Everything you say is being taken down by the court
	13	reporter, and it has the same legal effect as if you
No. 1 (British Heart Journal 27	13	were in front of a judge and jury in the actual trial
article)	15	of this case You undeistand that?
	16	A Yes.
No. 2 (American Journal of 27	17	Q Doctor, I noticed on the Internet that there
Medicine article)	18	is a Web site called David Charles Brandon, M D.,
,	19	Anesthesia Is that a corporation?
No. 3 (5-10-02 fax cover sheet) 27	20	A I didn't even kijow that that Web site was
	21	there. Is that in conjunction with ExpertPages.com?

	Page 6		Page 8
1	A I don't know whether that's a corporation or	1	satisfied with their answers.
2	not.	2	Q What were the bunch of questions that you
3	O Okay. I guess I'm just wondering if you	3	asked?
4	have your own corporation set up to handle expert-	4	A I don't remember anymore. It was a couple
5	witness matters in connection with ExpertPages.com.	5	of years ago.
6	A No.	6	Q Do you have a contract with them that you
7	Q All right. I assume that your name and your	7	signed?
8	Web site is on the Internet with your permission.	8	A 1 don't think so, not that I know of. I
9	Would that be correct?	9	think they just send me an annual bill.
10	A Yes.	10	Q How many customers have you gotten off of
11	Q All right. And it indicates in your Web	11	your Internet Web site?
12	site that you will be able to back up anything you say	12	A I don't know exactly. I would say probably
13	from commonly accepted textbooks or journals. I take	13	ten or 15 maybe over the last two or three years.
14	it that you are responsible for putting that sentence	14	Q So you've advertised on there approximately
15	into your Web site. Would I be correct?	15	three years?
16	A Yes.	16	A I think I started with them yes, it's
17	Q All right. How did you first become	17	probably been about three years. I don't actually
18	associated with ExperlPages.com and begin your	18	remember, to be honest with you.
19	advertising as an expert witness?	19	Q Do you market yourself or advertise in
20	A I saw their ad in a magazine, and I called	20	coiiiiectioii with any other type of organization other
21	them up to see what it was. And they encouraged me to	21	than ExpertPages.com?
22	give it a try.	22	A The only other thing that I know of at this
	Dago 7		Page Q
	Page 7	1	Page 9
1	Q How much do you pay to be associated with	1	point is Guy Saponaro. I guess it's called Saponaro,
2	Q How much do you pay to be associated with Expertpages com?	2	point is Guy Saponaro. I guess it's called Saponaro, Incorporated. I'm not sure where they are. They're
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1-800-334-9082 410-544-7332 544-7512(fax)

Depo	sition of DAVID CHARLES BRANDON, M.D.		1 aken 512 11200
	Page 10		Page 12
1	reputable?	1	coming fall. And we wanted to move closer down to
2	A I don't really know for sure. I wouldn't	2	what we thought would be an easy commute to Baltimore.
3	know any specific reasons to think they are not	3	O And you stayed at Saint Mary's Hospital for
4	reputable.	4	how long?
5	O Okay. I was just wondering by your answer.	5	A I think 1 was there about four months.
6	It indicated on your $c v$ that you were the chief of	6	O And why did you leave there?
7	the Department of Anesthesia and director of surgical	7	A I wanted to move up closer to D. C. And I
8	services at a Sacred Heart Hospital from 1995 through	8	got a job at Washington Hospital Center in Washington,
9	1998 Did I read your c v. correctly?	9	D. C.
io	A Yes. Well, it's not through 1998. I think	10	O How many bed hospital was Saint Mary's?
11	it was up until 1998.	11	A I don't remember, but it wasn't very big. I
12	Q How many bed hospital is Sacred Heart	12	think it was probably less than 200.
13	Hospital?	13	O And you went to a hospital in Washington, D
14	A I think it was 250.	14	
15	Q What town was Sacred Heart Hospital located	15	A Washington Hospital Center.
16		I6	O Am I missing that? Is that on your c v?
17	A Cumberland, Maryland.	17	A I don't have my c.v. in front of me, but I'd
18	Q What month and what year did you leave	18	be surprised if it's not on there. It's called
19	Sacred Heart Hospital?	19	Washington Hospital Center in Washington, D. C.
20	A I think it was June of '98.	20	Q And how long were you there?
21	Q Did you leave as a result of any problem,	21	A Just under two years.
22	disciplinary action or the like?	22	Q And why did you leave there?
	Page 11		Page 13
1		1	-
1	A No. O You left there. Where did you go then?		A I got a job at Providence Hospital, also in
2 3	Q You left there Where did you go then?	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	Washington, D. C., that I thought was going to be a
3 4	A I did a short stay at Saint Mary's Hospital in Saint Mary's County, Maryland.	3	better position.
4 5		5	Q Did you go to that position? A Yes.
6	Q What's the closest city to Saint Mary's Hospital?	6	
7		7	Q And how long were you there?A About six months.
8	A The closest big city would probably be Washington, D. C. It's southeast of Washington.	8	
9	Q By how many miles?	9	Q And you left there. And why did you leave there?
10	A Probably 30 or 40.	10	A We decided to move out of the city
11	O And it's my understanding you were a locum	11	altogether and moved over to the Eastern Shore of
12	tenems there?	12	Maryland. And so I left that job and started a new
13	A Well, that's what I call it, because it was	12	one over here.
14	less than six months.	14	Q Where at? It says you were at Southern
15	Q And what was your position there?	15	Maryland Hospital Center, locum tenems, in June of
16	A I was an anesthesiologist, and I also did	16	2000. Were you at Southern Maryland Hospital Center?
17	pain management.	17	A June of 2000, I think I did a week there as
18	Q Why did you leave Sacred Heart Hospital in	18	a locum tenems. That was while I was still at
19	June of did I get that right? June of 1998?	19	Washington Hospital Center.
20	A That's correct. I left there. My wife	20	O Where are you currently at, Doctor?
21	started a master's degree program in Baltimore. Well,	21	A Right now I'm at Chesapeake Surgery Centeir
22	she was apparted to one and was point to start one the	22	in Caliabana Manuland

22 she was accepted to one and **was** going to start one the 22 in Salisbury, Maryland.

	Page 14		Page 16
1	Q Is that a hospital?	1	procedure where they should be expected to go home
2	A It's an outpatient surgery facility.	2	that day.
3	Q Do you have hospital privileges anywhere	3	Q 1 want to limit it to gynecological or
4	right now, Doctor?	4	obstetric type surgeries. What type of obstetrical or
5	A I have not stopped my privileges at	5	gynecological surgeries are done at Chesapeake Surgery
6	Washington Hospital Center and Providence Hospital,	6	Center?
7	but I don't go there anymore.	7	A We do laparoscopic examinations. We do
8	Q Doctor, have you ever been discipliied by	8	laparoscopic tubal ligations, D and C's,
9	either a hospital or any medical organization	9	hysteroscopies, exams under anesthesia.
Ι0	A No.	10	Q Anything else?
1I	Q for any reason?	11	A And I think that would probably be about it.
12	A No.	12	Q Well, you don't do total abdominal
13	Q So your job right now is at Chesapeake	13	hysterectomies there, do you, Doctor?
14	Surgery Center?	14	A No. That wasn't in the list I just gave
15	A Yes.	15	you.
16	Q And where is that located?	16	Q Right. And I just wanted to confirm that
17	A Salisbury, Maryland.	17	you don't do those procedures at Chesapeake Surgery
18	Q Is that an outpatient facility?	18	Center where you've been employed since May 2001. Is
19	A Yes.	19	that correct?
20	Q Do any patients at this surgery center ever	20	A That's right.
21	spend the night?	21	Q Are you an employee of Chesapeake Surgery
22	A No.	22	Center, part owner, independent contractor, what?
1	Page 15 O So they come in for same-day surgery and	1	Page 17 A Lam an independent contractor.
1	Q So they come in for same-day surgery, and	1	A I am an independent contractor.
2		1 2 3	A I am an independent contractor.Q Who owns Chesapeake Surgery Center?
23	Q So they come in for same-day surgery, and they leave. Is that correct?A Yes.	2	 A I am an independent contractor. Q Who owns Chesapeake Surgery Center? A Peninsula Surgical Group.
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VERBATIM REPORTING AND TRANSCRIPTION SERVICE

	Page 18		Page 20
1	Q Doctor, approximately how many depositions	1	expert for him?
2	have you given, Doctor, duriig the course of your	2	A I thinkjust one.
3	expert-witness career?	3	Q That particular case, that was Metro Health
4	A I would say that I am in the upper 30's, but	4	Center of Cleveland, Ohio, correct?
5	I don't know the exact number.	5	A I don't remember exactly. I think that's
6	Q And how many times have you testified in	6	what it was. But I was more on the defense on the
7	trial, Doctor 7	7	anesthesiologist, and I don't remember his name.
8	A 1 believe six or seven.	8	Q Okay. But that case in Cleveland you were
9	Q Obviously, from your deposition testimony,	9	an expert witness for a defendant doctor. Is that
10	it's clear that you do the (audio gap) amount of	10	correct?
11	testifying for (audio gap)	11	A Yes.
12	A Are you still there?	12	Q Are there any cases in Cleveland where you
13	(Off the record while the connection is	13	can think of that you were an expert for the
14	reestablished.)	14	plaintiff?
15	BY MR. CONWAY:	15	A Yes, except I can't remember the name of the
16	Q Doctor, caii you hear me, Doctor?	16	plaintiff. But I think that the attorney's name was
17	A Yes.	17	Cohn. C-o-h-n I think is the way he spelled it.
18	Q Doctor, is it true that you do the majority	18	Q Doctor, have you done any defense work for
19	of your expert-witness testimony on behalf of doctors	19	any other Cleveland law firms?
20	and/or hospitals?	20	A I'd have to go back and look. There is
21	A No. I do the majority of my work on behalf	21	another defense case that way somewhere, but I don't
22	of the plaintiff.	22	remember whether it was Cleveland or not.
	Page 19		Page 21
1		I	
1 2	Page 19 Q And that's your testimony under oath, Doctor?	I 2	
	Q And that's your testimony under oath,		Q How did Mr Rispo come to get your Web page,
2	Q And that's your testimony under oath, Doctor?	2	Q How did Mr Rispo come to get your Web page, address, or name or information about you?
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VERBATIM REPORTING AND TRANSCRIPTION SERVICE

	Page 22		Page 24
1	and testify live at trial',	1	you right now?
2	A I charge \$2400 dollars for the day, plus I	2	A Yes.
3	like to have my expenses taken care of.	3	Q All right You tell mejust give mc an
4	Q So \$1,000 dollars an hour plus expenses, is	4	itemized list of what materials you have in front of
5	that right? Or am I, like, total \$100 dollars an	5	you.
6	hour plus expenses?	6	A I have the office records from Paul
7	A Well, if you break into a 24-hour day, I	7	Bartilucca or Bartiluca I'm not sure how you say
8	guess it would be \$100 dollars an hour. But I hope	8	his name the office records of William Richardson,
9	it's just an eight-hour workday.	9	the death certificate of Nancy Armstrong, the Amherst
10	Q Okay I thought I was going to be able to	10	Hospital records from the hospitalization starting
11	impeach you with even higher than that I mis-added	11	August 7th, 1999. I've got something called the
12	How many hours have you put into your review of this	12	Complaint in the Court of Common Pleas for Lorain
13	case up until now, Doctor?	13	County, Ohio. I've got my report dated July 10th,
14	A I didn't look at that before coming over	14	2001. I've got a report of Allen Kravitz. I've got
15	here, so I guess I'd have to get back to you on that.	15	the deposition of Dr. Celerio. I've got a report of
16	But it's probably in the area of about ten hours	16	Dr. Lyons, a report of Dr. Mendelson, the deposition
17	altogether.	17	of Dr. Bartilucca, a report from Dr. London, a couple
18	Q And you're charging the plaintiffs how much	18	of reports from Dr. Smithson and his deposition, a
19	per hour to take your deposition, Doctor?	19	report of Dr. Watts, a report from Dr. Burkons.
20	A I'm not charging by the hour. I'm just	20	Q Anything else?
21	charging for the whole deposition as one fee.	21	A I've got two articles, one called "Sudden
22	Q All right And how much are you charging?	22	death in a patient with amyloidosis of the cardiac
	Page 23		Page 25
1	A \$1400 dollars.	1	conduction system" from the British Heart Journal,
2	Q So if we took a two-hour deposition, that	2	1984; and one, The American Journal of Medicine,
3	would work out to a non-refundable \$700 dollars an	3	Volume 62, "The Conduction System in Cardiac
4	hour Is that correct"	4	Amyloidosis."
5	A That's right.	5	Q Anything else, Doctor?
6	Q Doctor, you have	6	A No.
7	MR. RISPO Excuse me But I think to set	7	Q Do you have the deposition of Dr.
8	the record straight, the doctor had to drive two and a	8	Richardson?
9	half hours to get to the meeting site and has to	9	A Yes, I do. I'm sorry; I had that underneath
10	return home two and a half hours after this	10	his office file.
		1.1	
11	deposition That time should also be included in that	11	Q Do you have any correspondence from Mr.
11 12	deposition That time should also be included in that rate.	11 12	Rispo to you, including enclosure letters?
	rate. MR CONWAY We'll take that up afterwards,		Rispo to you, including enclosure letters? A 1do, but I don't have those with me.
12	rate.	12	Rispo to you, including enclosure letters? A 1do, but I don't have those with me. Q Why wouldn't you bring those with you,
12 13 14 15	rate. MR CONWAY We'll take that up afterwards, all right? At \$700 dollars an hour I want him to do the talking	12 13 14 15	Rispo to you, including enclosure letters? A 1do, but I don't have those with me. Q Why wouldn't you bring those with you, Doctor?
12 13 14 15 16	rate. MR CONWAY We'll take that up afterwards, all right? At \$700 dollars an hour I want him to do the talking MR RISPO Well, now let's be fair	12 13 14	Rispo to you, including enclosure letters? A 1do, but I don't have those with me. Q Why wouldn't you bring those with you, Doctor? A Because they didn't have any influence over
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12 13 14 15 16 17 18 19 20	rate. MR CONWAY We'll take that up afterwards, all right? At \$700 dollars an hour I want him to do the talking MR RISPO Well, now let's be fair MR CONWAY We will be fair afterwards We'll discuss all of that He's got his money for this, and we've paid these people So, I mean, we can take that up later	12 13 14 15 16 17 18 19 20	Rispo to you, including enclosure letters? A 1do, but I don't have those with me. Q Why wouldn't you bring those with you, Doctor? A Because they didn't have any influence over my opinions; and I just brought the records, so I wouldn't have a lot of extraneous things on the desk here. Q Doctor, how inany pieces of correspondence to
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	Page 26		Page 28
1	A Probably five or six. With each thing I	1	BY MR CONWAY
2	got, I got a little letter that said, "Here's the	2	O What's that piece of correspondence that you
3	thing you're getting."	3	happened to bring?
4	O Doctor, you have those at your office. Is	4	A That's a facsimile cover sheet for the two
5	that correct?	5	articles that I received by fax from Mr. Rispo.
6	A Yes.	6	Q Oh, I'm sorry I was under the impression
7	O And obviously if we made a I believe we	7	you had done some medical research Those articles
8	sent a notice out with this deposition for your entir ^e	8	were actually provided to you by Mr Rispo?
9	file. Doctor, you'd be in a position to make those	9	A Yes, at my request.
10	available to Mr. Rispo so he could provide those $t\sigma$	10	O What date is that fax cover letter?
11	us, would you not?	11	A 5-10-02.
12	A I never got a notice like that, but I don't	12	O Did you have a phone conversation with Mr
13	mind providing them to anybody.	13	Rispo before he faxed those medical articles to you?
14	O Doctor, how many drafts of your report did	14	A Yes.
15	you make?	15	O And why don't you tell me about that
16	A Just the one that I submitted.	16	conversation?
17	O Did you write out any notes regarding your	17	A I asked him if there were any articles that
18	review of the depositions or the medical records?	18	anybody else might be relying on or using for this
19	A No.	19	case that might have any interest. And he said he
20	O These two articles could you hand those	20	thought there were a couple of them. And I just asked
21	to the court reporter, so she could mark those as	21	him to fax them to me.
22	exhibits, please?	22	Q Who did Mr Rispo tell you was relying upon
			-
	Page 27		Page 29
1	Page 27 THE WITNESS: (Complying.)	1	Page 29 these two articles?
1 2		1 2	_
	THE WITNESS: (Complying.)	-	these two articles?
2	THE WITNESS: (Complying.) MR. CONWAY: Let's mark the British article	2	these two articles? A He didn't tell me anybody was relying on
2 3	THE WITNESS: (Complying.) MR. CONWAY: Let's mark the British article Plaintiffs Exhibit Number 1.	2 3	these two articles?A He didn't tell me anybody was relying on them. I just asked him if he had any that other
2 3 4	THE WITNESS: (Complying.) MR. CONWAY: Let's mark the British article Plaintiffs Exhibit Number 1. (Whereupon, the document was marked	2 3 4	these two articles? A He didn't tell me anybody was relying on them. I just asked him if he had any that other people may have been using or he used himself. And he
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2 3 4 5 6	THE WITNESS: (Complying.) MR. CONWAY: Let's mark the British article Plaintiffs Exhibit Number 1. (Whereupon, the document was marked Plaintiffs Deposition Exhibit Number 1, for identification.)	2 3 4 5 6	 these two articles? A He didn't tell me anybody was relying on them. I just asked him if he had any that other people may have been using or he used himself. And he didn't give me any names at all. Q Did you do any medical literature research
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	THE WITNESS: (Complying.) MR. CONWAY: Let's mark the British article Plaintiffs Exhibit Number 1. (Whereupon, the document was marked Plaintiffs Deposition Exhibit Number 1, for identification.) MR. CONWAY: And we can mark the second exhibit what journal was that from, Doctor? THE WITNESS: The American Journal of Medicine. MR. CONWAY: Why don't we mark that as Exhibit Number 2? (Whereupon, the document was marked Plaintiffs Deposition Exhibit Number 2, for identification.) THE WITNESS: I did have one piece of correspondence. MR. CONWAY: We can mark that Exhibit Number 3.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 these two articles? A He didn't tell me anybody was relying on them. I just asked him if he had any that other people may have been using or he used himself. And he didn't give me any names at all. Q Did you do any medical literature research on your own in this case? A No. I didn't really need to. The issues were fairly basic to me. Q Are you, pursuant to you advertisenient, backing up your opmions with any medical literature other than what Mr Rispo has provided you? A Not really. I don't think I need to. Q Did you need the things Mr Rispo sent you in order to formulate your opmion in this case? A No. I only got these about ten days ago. My opinion was already fairly solid. Actually it was totally solid at that point, and the articles actually didn't help me at all.

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	Page 34	1	Page 36
	Q And why is a patient with massive	$\begin{vmatrix} 1\\2 \end{vmatrix}$	objection There is no evidence whatsoever in this case that anybody knew of the patient's condition of
23	cardiomegaly more at risk when surgery entails putting them under completely with anesthesia?	3	amyloidosis before she was induced into surgery or
4	A Because the size of the heart versus the	4	anesthetic And questions along that line are totally
5	amount of blood flow that it can receive for its own	5	unfair
6	nutrient and oxygen consumption is proportional or	6	MR CONWAY You may answer the question,
7	actually inversely proportional. The larger the	7	Doctor Could you please repeat that, Madam Court
8	heart, the harder it is to feed.	8	Reporter?
9	So if you have a stressful situation like	9	(Whereupon, the Reporter played back the
10	under anesthesia in the operating room, then you can	10	tape, as requested)
11	expect more difficulty in feeding the heart, so to	11	MR CONWAY You may answer, Doctor
12	speak, if you've got larger heart, especially	12	THE WITNESS The question was whether or
13	Q In oh, I'm sorry Go ahead, Doctor	13	not I would be willing to put a patient with amyloid
14	A I was going to say especially because the	14	heart disease under general anesthesia And the
15	time frame that most of the heart relies on for blood	15	answer would be yes
16	flow is during the diastolic phase, the resting phase,	16	BY MR CONWAY
17	of the heart, in which case the peripheral vascular	17	O For a total abdomiiial hysterectomy, Doctor')
18	system, its elasticity and contractility it's the	18	A Yes.
19	ability to do those things which improves the blood	19	Q What type of iiiduchon agent would you use,
20	flow to the heart, back flow, that is, to the heart.	20	Doctor?
21	So all things being equal, if you've got	21	A Well, there would be things that I would be
22	normal vasculature, then a larger heart would be	22	doing before induction if I actually knew somebody had
	Page 35		Page 37
1	Page 35 expected to suffer more than a smaller heart.	1	Page 37 amyloid heart disease. So
1 2	expected to suffer more than a smaller heart.	1 2	amyloid heart disease. So
1 2 3	expected to suffer more than a smaller heart. Q Doctor, putting a patient under general		-
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	Page 38		Page 40
1	wrong with them. So if you can give me more details	1	room.
2	about the rest of their medical problems, I can be	2	If they really wanted the operation and were
3	more selective about the medications that I would use.	3	willing to undergo the risks, it wouldn't be an
4	Q Okay How about they have cardiomegaly,	4	impossible case to do. it would just be extremely
5	massive cardiomegaly; they have pleural effusions,	5	risky.
6	they have shortness of breath upon minimum exertion,	6	And I would use as an induction agent most
7	they have edema of the feet Let's start with that	7	likely Etomadate or a very low dose of Pentothal. And
8	What kind of agent would you use with a patient who	8	I would titrate those on carefully and slowly and
9	oh, they have just had an EKG which is read by a	9	watch how things go.
10	cardiology group to be a possible MI, age	10	Q And I think you mentioned in there that if
11	undetermined.	11	you had concerns about different risk factors for a
12	Giving you those set of circumstances,	12	given surgery, you would make the patient aware of
13	Doctor, in a hypothetical, you being the	13	those risk factors, so they could make an inforincd and
14	anesthesiologist, what type of agent would you use to	14	voluntary consent to that surgery. Would that be
15	put that patient under?	15	correct?
16	MR RISPO Let the record reflect a	16	A Yes. That would also be after knowing for
17	continuing objection based upon this hypothetical,	17	sure that the patient was optimized for surgery. I
18	asking the doctor to assume the patient had	18	simply wouldn't just take somebody to the operating
19	amyloidosis of the heart and all these other	19	room unless I knew for sure that they were \ensuremath{as} good as
20	conditions, when those conditions were not in fact	20	they were going to get.
21	known, and the same objection as relates to	21	If the patient had no chance of getting any
22	cardiomegaly, when in fact that was not known at the	22	better or any healthier and still needed the
	Page 39		
			Page 41
1	-	1	
1	time the patient was put under anesthesia	1 2	operation, then I would be willing to do it.
2	time the patient was put under anesthesia MR CONWAY Okay And I'd like to go ou	2	operation, then I would be willing to do it. But the risk and the assumption of that risk
2 3	time the patient was put under anesthesia MR CONWAY Okay And I'd like to go 011 the record and I'm not going to start a fight But	2 3	operation, then I would be willing to do it. But the risk and the assumption of that risk would be on the patient, and I would counsel them
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$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ \end{array} $	time the patient was put under anesthesia MR CONWAY Okay And I'd like to go on the record and I'm not going to start a fight But the proper way to object 1s to object There are no speaking objections And if you want to instruct him to not answer a question, if you feel you have the right to do so, please do so or object But please don't coach the witness BY MR CONWAY Q Anyway, Doctor, given that MR RISPO If you ask a fair question, then we won't have problems BY MR CONWAY Q Given that hypothetical, Doctor, your putting yourself in the position, what agents would you use for that particular patient? A Well, first of all, that patient would be a very high risk of problems under anesthesia; and they would have to know that and accept those risks,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 operation, then I would be willing to do it. But the risk and the assumption of that risk would be on the patient, and I would counsel them about that. Q Okay A I've taken patients to the operating room a lot sicker than this lady. Q Okay And I would assume that you explained exactly what all the risk factors and possible problems were associated with their conditions and the administration of anesthesia, correct? A I would tell them as much as they really wanted to know. If they wanted to know everything and they wanted me to sound like a textbook, I would be happy to do that for them. Or I would just tell them that their chances of dying were pretty darned high, but I would do my best to keep them alive if something bad happened.
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	Page 42		Page 44
1	A I'd have to see exactly what you're talking	1	as medically indicated?
2	about. But generally most of those standards that	2	A Yes.
3	they put out are reasonable and prudent.	3	Q Would you agree that an anesthesia plan
4	O Doctor, would you agree with the proposition	4	developed by an anesthesiologist and discussed with
5	that individual anesthesiologists should order tests	5	and accepted by the patient is a requirement of the
6	when, in their judgment, the results may influence	6	minimal patient care that should be provided by the
7	decisions regarding risks and management of the	7	anesthesiologist to the patient?
8	anesthesia in surgery?	8	A Yes.
9	A Yes.	9	Q Doctor, going to the standards that the
10	O Do you agree that relevant abnormalities in	10	American Society of Anesthesiology puts forth, to your
11	the patient's condition should be noted and action	11	knowledge and belief, do you feel that these standards
12	taken if appropriate?	12	are reasonable and prudent standards7
13	A Somebody was rattling some papers. I	13	A I think you asked me that earlier. And I
14	couldn't hear the first part of that question.	14	think that they are.
15	O Would you agree that relevant abnormalities	15	Okay. I was talking about there were
16	in a patient's condition pre-surgically should be	16	certain guidelines that I was referring to that the
17	noted and then actioii taken if appropriate?	17	ASA issued. Now I'm speaking of certain specific
18	A Yes.	18	standards that they've issued, okay7
19	O Would you agiee, Doctor, that minimal	19	A The thing that I think is important is
20	patient care should include preoperative instructions	20	guidelines are guidelines. They're not exactly rules.
21	and preparation?	21	They are things that are suggestions.
22	A To whom?	22	The ASA standards are things that the
	Page 43		Page 45
1	Page 43 Q From the physician to the patient	1	Page 45 society has decided are the way things should be done.
1 2	-	1 2	
	Q From the physician to the patient		society has decided are the way things should be done.
2	Q From the physician to the patientA Yes.	2	society has decided are the way things should be done. But guidelines are simply there to guide you, not to
2 3	Q From the physician to the patientA Yes.Q Do you agree that minimal patient care	2 3	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do.
2 3 4	 Q From the physician to the patient A Yes. Q Do you agree that minimal patient care shouid include appropriate pre-anesthesia evaluation 	2 3 4	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do. Q Do agree with standard number one of the
2 3 4 5	 Q From the physician to the patient A Yes. Q Do you agree that minimal patient care should include appropriate pre-anesthesia evaluation and examination by an anesthesiologist prior to 	2 3 4 5	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do. Q Do agree with standard number one of the standards of the American Society of
2 3 4 5 6	 Q From the physician to the patient A Yes. Q Do you agree that minimal patient care shouid include appropriate pre-anesthesia evaluation and examination by an anesthesiologist prior to anesthesia and surgery? 	2 3 4 5 6	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do. Q Do agree with standard number one of the standards of the American Society of Anesthesiologists, which states that, "An
2 3 4 5 6 7	 Q From the physician to the patient A Yes. Q Do you agree that minimal patient care shouid include appropriate pre-anesthesia evaluation and examination by an anesthesiologist prior to anesthesia and surgery? A Yes. Q Do you agree that minimal patient care should include, in the event that non-physician 	2 3 4 5 6 7	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do. Q Do agree with standard number one of the standards of the American Society of Anesthesiologists, which states that, "An anesthesiologist shall be responsible for determining the medical status of the patient, developing a plan of anesthesia care, and acquainting the patient or the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q From the physician to the patient A Yes. Q Do you agree that minimal patient care shouid include appropriate pre-anesthesia evaluation and examination by an anesthesiologist prior to anesthesia and surgery? A Yes. Q Do you agree that minimal patient care should include, in the event that non-physician personnel are utilized in the process, that the anesthesiologist must verify the information and repeat and record essential key elements of the evaluation7 A I'm not sure what they mean by repeat. But if it's something that is an easily repeatable thing like listening to lungs or heart or airway exam, then I would agree with that. But I wouldn't repeat a lab just because it's essential if the one that I've got is already good enough. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	society has decided are the way things should be done. But guidelines are simply there to guide you, not to tell you what to do. Q Do agree with standard number one of the standards of the American Society of Anesthesiologists, which states that, "An anesthesiologist shall be responsible for determining the medical status of the patient, developing a plan of anesthesia care, and acquainting the patient or the responsible adult with the proposed plan"? A Yes. Q Do you agree that the development of an appropriate plan of anesthesia care is based upon, one, reviewing the medical record, two, interviewing and exaininiig the patient to discuss the medical history, previous anesthetic experiences, and drug therapy, and being assessed those aspects of the physical condition that might affect decisions regarding perioperative risk and management? Do you agree7

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	Page 46		Page 48
1	O Do you also agree that the development of an	1	surgery, was a patient of Dr Celerio's, correct?
2	appropriate plan of anesthesia care includes obtaining	2	A She became a patient of Dr. Celerio's as
3	and/or reviewiiig tests and consultations necessary to	3	soon as the informed consent was given. And she
4	the conduct of anesthesia?	4	decided to allow him to anesthetize her.
5	A Yes.	5	That's when I think you actually become
6	Q Do you agree that the standard for an	6	somebody's patient.
7	anesthesiologist includes that the responsible	7	Q Would you agree that pre-anesthetic
8	anesthesiologist shall verify that all of the above	8	evaluation and prepaiation means that an
9	items that we've discussed, Doctor, have properly been	9	anesthesiologist reviews the chart, interviews the
10	performed and documented in the patient's record? Do	10	patient to discuss medical history, including
11	you agree with that, Doctor?	11	anesthetic experiences and drug therapy, and performs
12	A I think that they should all be performed.	12	any examinations that would provide information to the
13	I'm not so sure about the documentation part of it,	13	anesthesiologist that might assist in decisions
14	because sometimes if the record is well documented	14	regarding risk and management? Do you agree with
15	already, I don't see anything wrong with saying, "See	15	that7
16	labs," or, "See H and P for more details," or	16	A Yes.
17	something like that.	17	Q Do you agree that the anesthesiologist has a
18	But there ought to be some sort of	18	duty to record his or her impressions formed in
19	reference, if you found somethiiig abnormal, to where	19	connection with the patient's presurgical
20	you would go to get more information.	20 21	anesthesiology evaluation in the patient's chart?
21	In other words, as an example, if there was	21 22	A Say that again, please.Q Okay We're at the preoperative
22	a cardiac clearance, on my preoperative sheets I just	22	Q Okay we'le at the preoperative
		-	
	Page 47		Page 49
1	Page 47	1	C C
1	write there is a box on there that I can check off	1	anesthesiology clearance phase of the case prior to
2	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished."	1 2 3	anesthesiology clearance phase of the case prior to the patient's being put under, okay?
1	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished." And I write the guy's name down, so I know where I can		anesthesiology clearance phase of the case prior to
23	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished."	3	anesthesiology clearance phase of the case prior to the patient's being put under, okay? A They've already gone through preadmission
2 3 4	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished." And I write the guy's name down, so I know where I can go to get that or where I can find it in the chart	3 4	anesthesiology clearance phase of the case prior to the patient's being put under, okay? A They've already gone through preadmission testing, and their pre-anesthetic visit'?
2 3 4 5	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished." And I write the guy's name down, so I know where I can go to get that or where I can find it in the chart rather than	3 4	anesthesiology clearance phase of the case prior to the patient's being put under, okay? A They've already gone through preadmission testing, and their pre-anesthetic visit'? Q Right Well, we're dealing with the time
2 3 4 5	write there is a box on there that I can check off "cardiac clearance done, medical clearance finished." And I write the guy's name down, so I know where I can go to get that or where I can find it in the chart rather than Q But you would right, I follow that,	3 4 5 6	anesthesiology clearance phase of the case prior to the patient's being put under, okay? A They've already gone through preadmission testing, and their pre-anesthetic visit'? Q Right Well, we're dealing with the time period where the anesthesiologist is actually making
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 write there is a box on there that I can check off "cardiac clearance done, medical clearance finished." And I write the guy's name down, so I know where I can go to get that or where I can find it in the chart rather than Q But you would right, I follow that, Doctor But you would have verified the results of that pre-cardiac clearance prior to in short form initialing off on it, correct? A I verify it one way or the other. It can be either verbal or a written statement that I've gotten in advance. Q From the physician, correct, who did the clearance? A Yes. I always get it from awell, it doesn't have to be from the physician that did the clearance. It can be through another physician that has gotten the clearance for their own patient or something like that. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 anesthesiology clearance phase of the case prior to the patient's being put under, okay? A They've already gone through preadmission testing, and their pre-anesthetic visit'? Q Right Well, we're dealing with the time period where the anesthesiologist is actually making the pre-anesthetic or presurgical visit, okay? A Okay. Q Do you agree, Doctor, that the anesthesiologist has the duty to record his impressions in the patient's chart? A I'm not sure what you mean by impressions. But I think the anesthesiologist has a duty to write something in the chart. And that can be something as simple as "healthy for general anesthetic." I don't write everything that's normal. I think the word "normal" is good enough sometimes. Q Do you put abnormalities into the chart,

	Page 50		Page 52
1	when I do my own pre if I was doing a preoperative	1	patients to sleep almost every day. It's extremely
2	visit for somebody else, I may put my impressions	2	prevalent. Almost all the long-term hypertensive
3	there.	3	patients have it.
4	Rut if I'm doing it for myself and for	4	And that would be what you would ask,
5	minutes later I'm putting the patient to sleep, I	5	whether or not you've ever had hypertension, whether
6	don't need to put down the impressions. I put down	6	you still have hypertension, whether you've ever been
7	the abnormalities, and 1know in my brain how that	7	known to have any sort of cardiomyopathy or any
8	affect what I'm getting ready Io do.	8	history of any cardiac disease, that kind of thing,
9	O Doctor, have you ever seen the X-ray showing	9	and then talk about the additional or at least keep
10	Mrs Armstiong's cardiomegaly?	10	in mind the additional risks and things that you need
11	A No.	11	to be looking for on an EKG intraoperatively and how
12	O You can read plain X-rays, correct?	12	to avoid trouble with an enlarged heart. It's not
13	A Well, I'm not a radiologist, but I can look	13	that unusual of a problem.
14	at an X-ray and find abnormalities on it. And I can	13	Q And it's not that unusual to have
15	find what I'm generally looking for from an	15	cardiomegaly that's accompanied by pleural effusions?
15	anesthesiology point of view.	15	A It's much more unusual to have cardiomegaly
17	O And if you had a case involving a patient	17	with a pleural effusion.
18	who had an X-ray showing an enlarged heart, you would	18	Q Because what can pleural effusions indicate
19	be able to look at that X-ray and be able to observe	19	to you, Doctor, as a trained anesthesiologist, if it
20	the enlarged heart, correct?	20	comes in connection with an enlarged heart?
20	A Yes.	20	A Probably the most common cause of pleural
22	Q All right And the standard of care would	22	effusion is some sort of an inflammation of the
22			erusion is some sort of an inflammation of the
	Page 51		Page 53
1	require a reasonable and prudent anesthesiologist to	1	pleural lining either of the lung or the chest wall,
2	be able to look at a plain-film X-ray and see a case	2	which is sort of the same kind of lining that goes
3	of massive cardiomegaly, correct?	3	around the heart, the pericardium, the pericardial
4	A I don't know if the standard of care would	4	lining, that is.
5	require you to have that ability or not. I think the	5	And it gives you an idea that there may be
6	standard of care in anesthesiology would require you	6	some kind of inflammation somewhere in the chest that
7	to know what to do with a patient that has a massive	7	causes fluid to accumulate there.
8	cardiomegaly, not necessarily interpret raw data. Rut	8	O Would you as a reasonable anesthesiologist
9	you ought to be able to know how that affects what	9	look further, investigate into that situation, prior
10	you're getting ready to do.	10	to putting a patient under?
11	O What would the standard of care in this	11	A It depends on the size of the pleural
12	particular case, assuming Dr. Celerio became aware	12	effusion. A lot of patients actually have little
13	that Mrs. Armstrong had cardiomegaly make that	13	pleural effusions over in the far corners of their
14	assumption, that he became aware of that. What would	14	chest X-rays, so to speak. And they are not really of
15	the standard of care have required him to do?	15	that much significance.
16	MR. RISPO: Objection. Go ahead.	16	We see them a lot, especially in older
17	THE WITNESS: The standard of care would	17	people. On the chest X-ray they're called blunting of
18	have required him to inquire if that's all he knew	18	the costophrenic angle. And it's usually from a
19	about her, he would need to inquire about why she may	19	little pleural effusion. A lot of that is just old
20	have a cardiomegaly.	20	age.
21	Probably 95 percent of patients with	21	So if they had a large pleural effusion, I
-			
22	cardiomegaly and by the way, I put cardiomegaly	22	would investigate that further. If it's small and

	Page 54		Page 56
1	inconsequential to the patient and it hadn't gotten	1	not a strike that
2	any worse and they are no worse, then I may not do	2	Would you agree that prior to Nancy
3	anything about it at all.	3	Armstrong's surgery she exhibited various symptoms of
4	O what was the cause, in your opinion, Doctor,	4	a heart condition?
5	of the infiltrates that showed upon Mrs Armstrong's	5	MR FRASURE At what point, now?
6	chest X-ray?	6	BY MR CONWAY
7	A I believe that the infiltrates were felt to	7	Q Within a week of her surgery, she was
8	be some sort of atelectasis, which is collapsed	8	exhibiting different signs and symptoms of a heart
9	alveoli in the lungs.	9	condition
10	_	10	A She had been exhibiting different signs and
11	perspective of hindsight, do you have an opinion as to	11	symptoms that could have been consistent with heart
12		12	problems for months. And she had some of the similar
13		13	complaints over the week or two prior to surgery.
14		14	Q Doctor, it's important for an
15	for sure what those were after the patient went	15	anesthesiologist to know whether or not a patient has
16	through CPR and so forth It really messes up the	16	a bad heart prior to the adininistration of general
17	lungs	17	anesthetic, since the administration of a general
18		18	anesthetic to a patient with a bad heart can cause the
19	been some sort of atelectasis She may not have taken	19	patient's death, correct?
20	a full deep breath at the time she had her chest X-	20	A Yes.
21	ray Some people actually breathe in and out of	21	Q Doctor, in this particular case, we know
22	atelectasis with deep bieaths Their lungs collapse	22	now, looking back, that Mrs Armstrong was suffering
	Page 55		Page 57
1	Their small airways and alveoli I mean.	1	from primary amyloidosis, correct
2	So it may be something that she has	2	A I believe
3	chronically, aiid it was just a poor inspiratory	3	Q on August go ahead I'm sorry
4	effort, which on chest X-ray will give you the	4	A Yes.
5	atelectasis effect.	5	Q Specifically on August 7, 1999, correct?
6	And it can also add to the illusion of a	6	A Yes.
7	cardiomegaly, because cardiomegaly is based on the	7	Q Would you agree that, had Dr Celerio not
8	size of the heart in conjunction with the rest of the	8	given Mrs Armstrong anesthesia on August 7th, 1999,
9	chest.	9	she would not have died on August 7th, 1999? Would
9 10		10	you agree with that?
10	effort, it could have been part of that.	11	A It would depend on whether or not there was
11	-	12	another anesthesiologist at that hospital who would
12		12	have put her to sleep. But
		13	Q Good answer, Doctor Okay, let me rephrase
14 15		14	it, then
		15	Doctor, I want you to once again, Doctor,
16			you would agree that in retrospect Mrs Armstrong had
17	z -	17 18	primary amyloidosis, correct?
18	important to know whether a surgical patient has a		
19	heart condition of heart problems prior to putting a	19 20	
20	patient under general anesthetic?	20	Q Isn't it true that if she would not have
21	A Yes.	21	been given general anesthetic on August 7th, 1999, she
22	Q Doctor, 1s it important to know whether or	22	would not have died on August 7th, 1999, correct?

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VERBATIM REPORTING AND TRANSCRIPTION SERVICE

	Page 58		Page 60
1	MR RISPO Objection to hindsight	1	Q Okay, Doctor. If
2	THE WITNESS I don't know whether or not	2	MR. RISPO: Let's go back to the
3	she would have died on that day or not	3	hypothetical, and let's agree that what you're asking
4	BY MR CONWAY.	4	is whether she would have died with the combination of
5	Q Do you think it's more likely than not she	5	primary amyloidosis and anesthesia at the same time.
6	would have lived through August 7th, 1999, had she not	6	She wouldn't have died with one or the other, but she
7	been given general anesthetic on that date?	7	would have died with both.
8	A I think that the likelihood is that she	8	MR. CONWAY: Well, you ask whatever you
9	probably would have lived through that day.	9	want, Ron.
10	Q Okay So can we agree, to a reasonable	10	BY MR. CONWAY:
11	degree of medical probability, which you as an expert	11	Q My question is I thought it was pretty
12	witness know means more likely than not can we	12	simple, Doctor. More likely than not, isn't it a fact
13	agree, Doctor, that to a reasonable degree of medical	13	that, had Mrs. Armstrong not been given anesthesia on
14	probability Mrs Armstrong would not have died on	14	August 7th, 1999, she would not have died on that
15	August 7th, 1999, had she not been given anesthetic by	15	date?
16	Dr Celerio?	16	MR. RISPO: And it's equally likely she
17	MR RISPO Objection to hindsight	17	would not have died
18	THE WITNESS I don't know the exact answer	18	MR. CONWAY: Please
19	to that But I would say that the fact that she got	19	MR. RISPO: if she didn't have primary
20	an anesthetic and died shortly after induction would	20	amyloidosis. Now, the question is totally unfair.
21	lead me to believe that the induction of anesthesia	21	MR. CONWAY: You know, I'm putting up with a
22	had something to do with her death	22	lot. Please, this is my deposition. If he can't
	Page 59		Page 61
1	Page 59 BY MR. CONWAY:	1	Page 61 answer the question, fine. He's going to have to
1 2	_	1 2	C C
	BY MR. CONWAY:		answer the question, fine. He's going to have to
2	BY MR. CONWAY: Q Well, Doctor, she wouldn't have died on that	2 3 4	answer the question, fine. He's going to have to answer it eventually anyway. MR. RISPO: Ask it in a fair way. BY MR. CONWAY:
2 3	BY MR. CONWAY: Q Well, Doctor, she wouldn't have died on that day but for being anesthetized, correct?	2 3	answer the question, fine. He's going to have to answer it eventually anyway. MR. RISPO: Ask it in a fair way. BY MR. CONWAY: Q Doctor
2 3 4	BY MR. CONWAY: Q Well, Doctor, she wouldn't have died on that day but for being anesthetized, correct? A Well, I don't know for sure. I think it's less likely that she would have died on that day, but I can't tell you a hundred percent.	2 3 4	answer the question, fine. He's going to have to answer it eventually anyway. MR. RISPO: Ask it in a fair way. BY MR. CONWAY: Q Doctor A Yes?
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	Page 62		Page 64
1	degree of medical probability, would not have died on	1	-
1 2	that date, correct?	1 2	an emergency. Q Right And I believe one of the doctors,
2 3		3	possibly Dr Bartilucca, testified that this surgery
	A I think that the way I understand the		
4	question is I think that she would not have died on that data if she did not have amulaidasis of the heart	45	could have been done at a later point in time Would you agree with that?
5	that date if she did not have amyloidosis of the heart with this induction of anesthesia with what Dr.		
6		6	A I don't remember his exact words. But most
7 8	Celerio knew. Did that answer your question?	7	urgent procedures can be done at a later time.
	Q No, it didn't, Doctor. But we'll move on to	9	Q Doctor, you're board certified in anesthesiology, correct?
9 10	something else, since I'm paying \$700 dollars an hour	10	A Yes.
	Doctor, would you agree that an	10	
11	anesthesiologist has an independent duty to clear a		Q What's the significance of being boarded in
12	patient for surgery?	12	anesthesiology?
13	A I actually think that the only person that	13	A The basic answer to that is, after you
14	can clear a patient for surgery is the	14	finish your training, you can answer the questions.
15	anesthesiologist or anesthesia provider if there is no	15	Q Well, you obviously at some point determined
16	anesthesiologist there.	16	it was worthwhile to become board certified in
17	Q So in this particular case, it would have	17	anesthesiology, correct, Doctor?
18	been Dr Celerio's obligation to clear the patient for	18	A Yes.
19	surgery, correct?	19	Q And what was the reason you thought it was
20	A Well, I think that the best thing I can do	20	worthwhile to become board certified in
21	right now is answer your question. But first I have	21	anesthesiology?
22	to preface it with what I think is the definition of	22	A I wanted to, first of all, know for myself
		1	
	Page 63		Page 65
1	Page 63 clearing somebody for surgery.	1	Page 65 that I was able to answer the questions. And that way
1 2		1 2	
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	Page 66	Page	68
1	task force on the practice guidelines issued by the	1 A I see criticisms.	
2	Committee on Perioperative Cardiovascular Evaluation	2 Q All right. Do you think those are	
3	for Non-Cardiac Surgery	3 reasonable criticisms Dr. Celerio is making of Dr.	
4	At any point do you recall having read this	4 Bartilucca in this case?	
5	report?	5 A I think they're only reasonable if Dr.	
6	A I don't recall specifically reading it, but	6 Bartilucca knew of any of the previous medical or	
7	I'd be surprised if I have not read it somewhere over	7 physical conditions that the patient had. If he did	
8	the years.	8 not know of them, then the criticisms are	
9	Q Doctor, I presume that you read very	9 unreasonable.	
10	carefully the deposition summary of Dr Celerio?	10 If Dr. Bartilucca knew them and didn't tell	
11	A Yes.	11 Dr. Celerio, then they are reasonable.	
12	Q Or deposition transcript I'm sorry You	12 Q All right. What about the criticism that	
13	have read Dr Celerio's deposition transcript?	13 Dr. Celerio made against Dr. Bartilucca regarding Dr	
14	A Yes.	14 Bartilucca's failure to tell Dr. Celerio of the	
15	Q Then you're aware that Dr Celerio has	15 patient's brain tumor? Do you think that that's a	
16	various criticisms against Dr Bartilucca?	16 reasonable criticism?	
17	A I don't remember exactly what his criticisms	17 A I don't think it had anything to do with	
18	are. But I didn't get the sense that well, I guess	18 this case at all. So I'm not so sure that it makes	
19	I can't say anything. I don't remember his	19 any difference.	
20	criticisms.	20 But if Dr. Bartilucca knew of the brain	
21	Q All right Doctor, were you aware that Dr	21 tumor, it should have been in his H and P. He does	sn't
22	Celerio is not board certified in anesthesiology?	22 necessarily have an obligation to tell Dr. Celerio	
	Page 67	Page	69
1	Page 67 A I think I either read that or heard that	Page 1 about it. But if he knew about it, it should have	69
1 2	-		69
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2	A I think I either read that or heard that somewhere.	 about it. But if he knew about it, it should have been in his history and physical exam. And Dr. Celerio should have read that and seen it if it were there. 	
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Ι	affecting the patient	1	overall conduct of Dr. Celerio in my questions to you.
2	In this particular case, that wasn't the	2	I'm asking you about one specific action.
3	case So it really doesn't make any difference in	3	Sliould a reasonable and prudent
4	this case	4	anesthesiologist read through thoroughly a patient's
5	BY MR CONWAY	5	chart prior to putting the patient under anesthesia?
6	O And that's, I guess, my question, because	6	A I don't know if I like the word
7	you're being hired as an expert on behalf of Di	7	"thoroughly." But I think that the important portions
8	Celerio	8	of the chart should be read. There are lots of
9	I'm asking you whether or not you agree with	9	portions of the chart that I don't read, aiid I know
10	Dr Celerio's old criticisms in this case of Dr	10	I'm not outside the standard of care.
11	Bartilucca I take it you do not agree with that	11	So I guess the answer would be no. If he
12	criticism	12	did in fact read the important parts of the chart for
13	A I, quite honestly, don't care who I'm being	13	what he was getting ready to do and he missed it, then
14	hired for when I do any expert cases. i simply go	14	he would simply have missed it.
15	after the truth. And whichever direction the truth	15	I'm not so sure that makes him outside the
16	takes me, that's where I'm willing to work.	16	standard of care. But it does mean that he missed
17	in this particular case, i don't see why	17	something that he should have picked up.
18	he's critical of Dr. Bartilucca at all, knowing in	18	O Doctor, are you aware of some medical
19	retrospect that this tumor was a benign meningioma	19	records that Dr. Bartilucca received froin Dr. Boy-Doe
20	that really has no effect on this patient's anesthetic	20	prior to the surgery?
20	in reality. So I don't know why he's criticizing him.	20	A I know that there are records in Dr.
21	O If in the patient's chart, which was	22	Bartilucca's office-record section that I got. I
22	Q If in the patient's chart, which was		Barthacea's office-feedra section that I got. I
	Page 71		Page 73
1	available to Dr Cclerio pre-surgically, there was an	1	don't know exactly when he got those. But there is
2	indication that the patient had a brain tumor, should	2	talk in the deposition of Dr. Celerio that these
3	Dr Celerio have at least been aware of that chart	3	things may have been available prior to this operation
4	note indicating the presence of Mrs Armstrong's brain	4	or this attempted operation.
5	tumor?	5	O The reason I asked you that, Doctor, is Di
6	A I think that if any patient has a brain	6	Celerio had a second criticism of Dr Bartilucca, that
7	tumor, the anesthesiologist should be aware of it.	7	Dr Bartilucca had never made him aware of the fact
8	Q Did Dr. Celerio fall below the standard of	8	that at one point in her medical history Nancy
9	care in not recognizing from his review of the chart	9	Armstroiig had been on the drug Redox And Dr Celerio
10	pre-surgically that Mrs Armstrong had a brain tumor?	10	indicated that, had he been made aware of that by Dr
11	MR RISPO Objection How could he fall	11	Bartilucca, he would not have gone forward with the
12	below the standard of care without knowing the facts?	12	surgery Are you aware of that criticism?
13	BY MR CONWAY.	13	A Yes.
14	Q Can you answer that question, Doctor?	14	Q Do you feel that that's a reasonable
15	A I think that the standard of care the way I	15	criticism of Dr Bartilucca by Dr Celerio?
15 I6	understand it is what a reasonable person would do	16	A It would have been reasonable if the patient
17	under similar circumstances.	17	was still on Redox. But since I think it had been two
18		18	years prior, then it really doesn't make any
10	I don t think there's anything inreasonable		, , , , , , , , , , , , , , , , , , ,
	1 don't think there's anything unreasonable about what he did, whether he knew about the brain		difference at this point.
19	about what he did, whether he knew about the brain	19	difference at this point. O Dr Celerio also ciiticized Dr Bartilucca
19 20	about what he did, whether he knew about the brain tumor or not, so	19 20	Q Dr Celerio also ciiticized Dr Bartilucca
19	about what he did, whether he knew about the brain	19	

	Page 74	1	Page 76
1	Armstrong's that she be given a cardiac consult. Do	1	course if not the course that Dr. Celerio felt was appropriate?
2	you recall Dr. Celerio's criticism on that point?		
3	A I don't remember it exactly, but I do	3 4	A The appropriate thing to do under that I've been in that exact situation before more than
4	remember something to that effect, yes.	-	
5	Q Do you feel that that was a reasonable	5	once. And the thing that I recommend and that I do is
6	criticism of Dr. Bartilucca by Dr. Celerio?	6 7	I just call the primary care or the cardiologist. And I either get copies of the most recent
7	MR. FRASURE: Objection.		
8	THE WITNESS: I think that if Dr. Bartilucca	8	notes, or I just talk to the guy. Or I find out
9	knew that somebody in the past had some suspicion that	9	whether the surgeon has talked to the cardiologist or
10	the patient may have some sort of cardiac impairment	10	the primary care, whoever has been responsible for the
11	and he knew about that, he had an obligation to tell	11	patient's care.
12	Dr. Celerio.	12	And if the answers that I got in those
13	So I think that that's a reasonable	13	conversations were reasonable and matched what I was
14	criticism of Dr. Bartilucca.	14	seeing in front of me in terms of the patient and
15	BY MR. CONWAY:	15	whatever lab data that I had, then I would go ahead
16	Q Do you believe that Dr. Bartilucca would	16	with the case.
17	have been below the standard of care for a surgeon not	17	I wouldn't necessarily demand a cardiac
18	to give that information to the anesthesiologist, Dr.	18	clearance, because again I'm the only one that's going
19	Celerio, if in fact he possessed that information?	19	to clear the patient. And I would want to know what
20	A I think that standard-of-care questions for	20	data was available if I was under any suspicion that
21	surgeons you ought to get from them.	21	there might have been something more to the patient's
22	But I would find it highly inappropriate for	22	history than I was getting. And if somebody knew
	Page 75		Page 77
1	Page 75	1	Page 77
1	a surgeon to possess information that may be important	1	about it, that's the avenue that I would take.
2	a surgeon to possess information that may be important to me and have them not give that to me in	2	about it, that's the avenue that I would take. I deal with a very sick population where I
2 3	a surgeon to possess information that may be important to me and have them not give that to me in anticipation of surgery.	2 3	about it, that's the avenue that I would take. I deal with a very sick population where I work right now. And I'm up against this kind of thing
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 $1\text{-}800\text{-}334\text{-}9082\ 410\text{-}544\text{-}7332\ 544\text{-}7512\ (fax)$

	Page 78		Page 80
I	O Doctor, when is the last time you put a	1	your reading of the medical records and the
2	patient under anesthesia for a total abdominal	2	depositions that a cardiology group had over-read this
3	hysterectomy?	3	particular EKG?
4	A April or May of 2001. No, let me restate	4	A I'm not sure what you mean by over-read. Do
5	that. It would be March or April of 2001.	5	I have another copy of it, do you mean, that's read
6	O Doctor, did Dr. Celerio have an obligation	6	again?
7	to tell Mrs. Arnistrong about the results of the chest	7	Q No, no. Are you aware that at one point Dr.
8	X-ray?	8	Bartilucca's office was in contact with a cardiology
9	A I think that you have an obligation to	9	group who had communicated their reading or findings
10	discuss laboratory data with the patient to the extent	10	of this particular EKG to Dr. Bartilucca's office?
11	that they are interested. Some of them don't care,	11	MR. RISPO: Objection.
12	and they just don't want to know. And you can't force	12	THE WITNESS. 1 don't remember for sure I
13	that information on them.	13	don't think 1 knew that But you might be able to
14	But I think it's important, if you find an	14	refresh my memory
15	abnormality on the chest X-ray, to ask them if they've	15	BY MR. CONWAY:
16	ever had that before. Can they tell you anything more	16	Q There is a cardiology group that read this
17	about that? and question it further.	17	EKG, faxed a copy of it to the hospital, and then the
18	Q Doctor, you're familiar with the EKG of	18	hospital faxed a copy of the EKG to Dr Bartilucca's
19	August 5th, 1999, in this case, correct?	19	office prior to surgery Are you aware of that
20	A Yes.	20	chronology?
21	Q Do you have a copy of that in front of you?	21	A That rings a bell. I don't remember the
22	A Yes. I've got to find it. Okay, I have it.	22	exact sequence, though.
	Page 79		Page 81
1	Page 79	1	_
1	Q Is that an abnormal EKG?	1	Q Ringing that bell and looking at the top of
2	Q Is that an abnormal EKG? A Yes.	1 2 3	Q Ringing that bell and looking at the top of that EKG, it indicates as a summary it's abnormal.
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	Page 82		Page 84
1	Bates stamp 001, I believe you'll see the copy that	1	aiid correct me if I'm wrong that if you were
2	Dr. Bartilucca has of that EKG. It should be right at	2	confronted with an abnormal EKG, you would want to go
3	the beginning, Doctor.	3	back and check prior EKG's so that you could compare
4	MS. KOLIS: Might be under X-rays or	4	them to the current one Is that what you stated,
5	diagnostics. I'm guessing.	5	Doctor?
6	THE WITNESS: Did you say on the back of his	6	A Yes. And that's actually what I did in this
7	deposition or in his chart?	7	case, too.
8	BY MR. CONWAY:	8	Q Doctor, does the anesthesiologist, Dr
9	Q No. Well, you know what? It's also at the	9	Celerio in this case does he have the obligation to
10	back of his deposition as a deposition exhibit,	10	go back and get or review the prior EKG's of Mrs
11	Plaintiffs Exhibit F. That's probably the fastest	11	Armstrong and compare them to this EKG prior to
12	way to go.	12	putting her under anesthesia?
13	A Bartilucca you said, right?	13	A Well, remember I also said that sometimes a
14	Q Yes.	14	verbal consultation over the phone or with somebody
15	A (Perusing document.) Oh, yes, I've seen	15	that knows the patient is often good enough. If he
16	that before.	16	had access to those older records, he would have an
17	Q Okay. And the copy that Dr. Bartilucca has,	17	obligation to look at them if he knew about it.
18	based on information his office received, someone in	18	Or if he talked to somebody that may have
19	his office wrote, "Age indeterminate," under the,	19	already seen them or knows the patient, he would have
20	"Consider anterior inyocardial infarction."	20	an obligation to do that.
21	Or what's your understanding of how that got	21	He would have to do one or the other. And
22	written in?	22	he would want to make sure that the patient's cardiac
		1	
	Page 83		Page 85
1	_	1	
1 2	Page 83 A It looks like Parker or something like that. Somebody read the EKG and put in a correct	1 2	system was at least optimal for surgery. It was as
	A It looks like Parker or something like that. Somebody read the EKG and put in a correct		system was at least optimal for surgery. It was as good as it's going to get, especially for elective or
2	A It looks like Parker or something like that. Somebody read the EKG and put in a correct interpretation. The computer is often correct, but	2	system was at least optimal for surgery. It was as good as it's going to get, especially for elective or only urgent surgery.
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	Page 86		Page 88
1	A I think that he had an obligation to talk to	1	Dr. Richardson.
2	Dr. Celerio about the patient's cardiac condition if	2	Q Doctor, have you had an opportunity to read
3	he knew of one.	3	the depositions of either of the nurses, of any of the
4	O Well, you have no doubt in your mind, do	4	nurses that were taken in this case?
5	you, after having read Dr. Bartilucca's deposition,	5	A I've listed the people that I've read the
6	that he had this particular document in his file prior	6	depositions of.
7	to his discussing this case with Dr. Celerio, correct?	7	Q None of those are the nurses, correct?
8	MR. FRASURE: Which document are we talking	8	A That's correct.
9	aboutnow?	9	O And you feel comfortable issuing an opinion
10	MR. CONWAY: I'm talking about the EKG of	10	as to what occurred in this case without having read
11	August 5th, 1999.	11	those depositions?
12	THE WITNESS: Right. I think he had it in	12	A First of all, I didn't even know those
13	his file.	13	depositions existed. But second of all, they wouldn't
14	BY MR. CONWAY:	14	change my mind about what was the cause of death with
15	Q All right. Didn't he have an obligation to	15	this patient whatsoever.
16	tell Dr. Celerio about the report that the cardiology	16	Q I'm not asking you whether it would have
17	group had issued regarding this EKG?	17	changed your mind about the cause of death, Doctor
18	A I don't know if he has an obligation to tell	18	Could they have possibly changed your mind regarding
19	him that or not. I think that a reasonable surgeon	19	whether or not any of the defendant doctors deviated
20	would think that the anesthesiologist already knew	20	from the standard of care?
21	about it.	21	A I don't know the answer to that. I think
22	I don't think that my surgeons or any of	22	that the likelihood that their depositions would have
	Page 87		Page 89
1		1	-
1 2	them that I've worked with over the last 15 years	1 2	anything to do with the standard of care of an
	them that I've worked with over the last 15 years hardly ever tell me anything about labs unless I come		anything to do with the standard of care of an anesthesiologist would be very remote. So I doubt
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2 3 4	them that I've worked with over the last 15 years hardly ever tell me anything about labs unless I come to them with questions. They just assume that I'm doing my best job for the patient.	2 3 4	anything to do with the standard of care of an anesthesiologist would be very remote. So I doubt that it would have had any influence over me at all. But I would find them interesting reading.
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1	If he discussed the intraoperative	1	actually pretty healthy compared to a lot of things
2	management of a patient without having cleared the	2	that 1 have to anaesthetize.
3	patient, I think that he would have put a stop to it	3	And by the way, the EKG that Dr. Celerio had
4	had he had the opportunity, if he wasn't clearing the	4	really isn't that different than the one that was done
5	patient.	5	four or five months earlier. It still showed those
6	So I'm not so sure how credible his	6	anterior Q waves. So it's basically an old MI. It
7	witnessing was on this.	7	has significance but only that you know that it's
8	Q Doctor, Dr. Celerio has no firsthand	8	there and you watch out for it.
9	knowledge whatsoever that Dr. Richardson supposedly	9	So there was nothing in Dr. Richardson's
10	cleared Mrs. Armstrong for surgery, correct?	10	extensive cardiac evaluation that would have stopped
11	A He didn't have any communication directly	11	me from taking her to the OR. I would have been more
12	with Dr. Richardson, that's correct. But he	12	careful.
13	O He's relying up on Dr. Bartilucca's	13	Q So my question of you is that you don't have
14	representations, correct?	14	any criticism of Dr. Richardson in this particular
15	A Yes.	15	case, correct?
16	O If Dr. Bartilucca is wrong about whether or	16	A The only criticism I have would be in his
17	not Dr. Richardson cleared Nancy Armstrong for	17	deposition where he seems to be denying having any
18	surgery, it would be Dr. Bartilucca who would be below	18	conversation of having to do with talking about how
19	the standard of care, correct?	19	the patient is ready for the operation, when he's
20	MR. FRASURE: Objection to the term "wrong."	20	making major medication changes in terms of her
21	THE WITNESS: I can't tell you anything	21	anticoagulation.
22	about the surgeon's standard of care. But I can't	22	Nobody would ever do that unless they
	Page 01		Page 93
1	Page 91	1	Page 93 thought the patient was ready for surgery. It would
I 2	find any reason in Dr. Richardson's record why the	-	thought the patient was ready for surgery. It would
2	find any reason in Dr. Richardson's record why the patient wouldn't have been cleared anyway So I'm not	2	thought the patient was ready for surgery. It would actually be sort of foolish. So he knew she was going
2 3	find any reason in Dr. Richardson's record why the patient wouldn't have been cleared anyway So I'm not so sure it really makes any difference.	2 3	thought the patient was ready for surgery. It would actually be sort of foolish. So he knew she was going to the operating room. He thought she was good enough
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	Page 94		Page 96
1	Bartilucca had already taken appropriate steps to have	1	they saw Dr. Richardson in connection with this
2	Mrs Armstrong cleared for surgery, since the surgery	2	suigery on August 7th, 1999, correct?
3	was going to be on August 7th, 1999?	3	MR FRASURE Objection The testimony in
4	MR FRASURE Objection	4	deposition is contrary But go ahead
5	THE WITNESS I don't know what he would	5	MR CONWAY Okay, Mark, whatever That's
6	have thought, to be honest with you But it wouldn't	6	your interpretation
7	suiprise me that he was actually involved in the	7	BY MR. CONWAY
8	thought piocess on the days leading up to the surgery,	8	Q Do you have any evidence, Doctor?
9	and he just doesn't remember it very accurately,	9	A There is no evidence in the medical records
10	because not very much gets past the primary cares	10	other than what is in those depositions.
11	nowadays	11	Q Would you agree that the last office visit
12	So I don't know what to think about that	12	Dr Richardson had with Nancy Armstrong was on July
13	BY MR. CONWAY	13	6th, 19997
14	O Doctor, based on your extensive reading of	14	A That's the last one that I have in the
15	the depositions and medical records, on what date did	15	records that were sent to me.
16	Dr Richardson do the medical examinations and testing	16	Q Would you agree that Dr Bartilucca
17	to clear her for surgery?	17	recommended surgery to Nancy Armstrong on July 22nd,
18	A Like I said earlier, he doesn't do the	18	1999?
19	actual clearing. The anesthesiologist does. But	19	A I don't remember the exact date, but that
20	oftentimes if you are familiar enough with the	20	sounds about right. I know that it was later on in
21	patient, a simple conversation over the phone about	21	July.
22	that patient, if the surgeon and the primary care and	22	Q Would you agree that Dr Bartilucca first
	Page 95		Page 97
1	Page 95 the cardiologist are all on the same page, is good	1	Page 97 contacted Dr Richardson about this proposed surgery
1 2		1 2	contacted Dr Richardson about this proposed surgery on August 5th, 19997
	the cardiologist are all on the same page, is good		contacted Dr Richardson about this proposed surgery
2	the cardiologist are all on the same page, is good enough. I put patients to sleep that need to be sort of, quote unquote, cleared for surgery that are seen	2	contacted Dr Richardson about this proposed surgery on August 5th, 19997 A I think that that's the date that I flagged in here.
2 3	the cardiologist are all on the same page, is good enough. I put patients to sleep that need to be sort of, quote unquote, cleared for surgery that are seen frequently enough by the cardiologist that calling	2 3	contacted Dr Richardson about this proposed surgery on August 5th, 19997 A I think that that's the date that I flagged in here. Q Now, Doctor, keeping all those dates in mind
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		Page 98		Page 100
	1 of a	stretch.	1	earlier.
	2	The anesthesiologist would have to determine	2	I could easily interpret that EKG four
		his own mind whether or not he thought that that	3	months earlier as an old anterior MI. Actually I
		s of any significance in terms of being able to	4	don't really think that that's what it was. It didn't
		ely execute the anesthesia.	5	show up on autopsy.
	6 с	But, Doctor, if both Dr Celerio and Dr	6	It's just an electrical rhythm disturbance,
,	7 Bart	≈ tilucca are saying that it's Dr Richardson's	7	probably consistent with amyloid heart disease.
:		ponsibility in this case to clear the patient for	8	That's why she has that arrhythmia, because she does
9	-	gery, to be fair to Dr Richardson, don't they have	9	not have a myocardial infarction on her autopsy.
1		obligation to update him as to new medical	10	They did three-millimeter sections all the
1		ormation that's come in and let Dr Richaidson	11	way through the myocardium. There isn't an MI there.
1	2 hand	dle the analysis of that information?	12	So in retrospect, from my point of view, it really
1	3 A	A Again, no is the answer to that, because the	13	doesn't make a bit of difference.
1	4 anes	sthesiologist would be the one that would determine	14	BY MR. CONWAY:
1	5 whe	ether or not that information had any significance	15	Q Do you think that was a thoroughly complete
1	6 in te	erms of putting the patient to sleep.	16	autopsy, Doctor? Are you happy with that autopsy?
1	7	If in fact he thought that it did and the	17	A I think three-millimeter sections through
1	8 pati	ient should be canceled, at that point he would	18	the heart is what I usually see on autopsies.
1	9 call	the primary care or whoever is responsible for	19	Sometimes they make them even bigger. So it looked
2	0 the	patient outside of this arena and tell them, "I'm	20	like that part of it was pretty thorough.
2	1 canc	celing the surgery because they've got an	21	Also, the coronary arteries are completely
2	2 infil	ltrate," or atelectasis or whatever your complaint	22	patent. You know, it's hard to have a myocardial
		m 0.0		D 101
		Page 99		Page 101
	l is. A	Page 99 And maybe you'd want to take another look at	1	infarction without having some sort of coronary artery
	1 is. A 2 that	And maybe you'd want to take another look at t.	2	infarction without having some sort of coronary artery occlusion. And also that rhythm disturbance was in
	2 that 3	And maybe you'd want to take another look at t. If you determine it's not an issue for your		infarction without having some sort of coronary artery occlusion. And also that rhythm disturbance was in existence four or five months previous. Yon can see
, , ,	2 that 3 4 anes	And maybe you'd want to take another look at t. If you determine it's not an issue for your sthetic or your case, then yon don't have any	2 3 4	infarction without having some sort of coronary artery occlusion. And also that rhythm disturbance was in existence four or five months previous. Yon can see it in her chart. There is no change.
	2 that 3 4 anes 5 obli	And maybe you'd want to take another look at t. If you determine it's not an issue for your sthetic or your case, then yon don't have any igation to call the primary care about it at all.	2 3 4 5	infarction without having some sort of coronary artery occlusion. And also that rhythm disturbance was in existence four or five months previous. Yon can see it in her chart. There is no change. And that's what Dr. Richardson would have
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		1	
	Page 102		Page 104
1	Q Doctor, would you agree that prior to	1	confusion, the Elyna Memorial Hospital system had
2	surgery Dr Celerio was faced with a patient who had	2	available through its records department prior EKG's
3	an abnormal EKG, a chest X-ray with positive findings,	3	Would you agree with that from Dr Celerio's
4	a history of difficult breathing with exertion, and	4	testimony?
5	leg swelling?	5	A 1 don't know. It wouldn't surprise me if
6	A I think that all of those things were	6	they do. But I'm not so sure that an old EKG that
7	somewhere in her record over time and that she had had	7	shows an old MI and new atelectasis on a chest X-ray
8	those problems.	8	are absolute contraindications to anesthesia anyway.
9	Q Do you agree that the preoperative chest	9	So I'm not so sure why these things seem to
10	examination revealed decreased breath sounds in the	10	be so important to you.
11	right base?	11	Q Doctor, the chest X-ray report itself was
12	A Yes.	12	available as of August 6th, 1999, wasn't it, Doctor?
13	Q Do you agree that Dr Celerio had available	13	A 1 don't remember the exact date. 1'11 take
14	to him, if he chose to read or look at them, the	14	your word for it.
15	August 6th, 1999, chest X-ray report, final, the	15	MR. RISPO: Objection to the statement that
16	August 5th, 1999, chest X-ray, and the prior EKG's of	16	it was available The evidence is it was not in the
17	Nancy Arnistrong through the Elyria Memorial Hospital	17	chart.
18	record system?	18	THE WITNESS. I think that the standard of
19	MR RISPO objection Go ahead	19	care would support reading a wet reading for your pre-
20	THE WITNESS I doii't know how their record	20	anesthetic assessment
21	system works I think that if I don't know whether	21	BY MR CONWAY
22	the hard copy of the X-ray film was available to him	22	Q Doctor, are you in charge of the pre-
	Page 103		Page 105
I	Page 103 or not	1	Page 105 anesthetic work-ups at the surgery center where you
I 2	-	1 2	-
	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted		anesthetic work-ups at the surgery center where you
2	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted to He would have been one in a million	2	 anesthetic work-ups at the surgery center where you works A Yes. Q Are you familiar with the different forms
2 3	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted to He would have been one in a million anesthesiologists that would have bothered They	2 3	anesthetic work-ups at the surgery center where you works A Yes. Q Are you familiar with the different forms that you use as the anesthesiologist in charge of the
2 3 4	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted to He would have been one in a million anesthesiologists that would have bothered They would have relied on the report that they got	2 3 4	anesthetic work-ups at the surgery center where you works A Yes. <i>Q</i> Are you familiar with the different forms that you use as the anesthesiologist in charge of the pre-anesthetic work-ups at your surgery center?
2 3 4 5	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted to He would have been one in a million anesthesiologists that would have bothered They would have relied on the report that they got He did have an opportunity to wait for the	2 3 4 5	 anesthetic work-ups at the surgery center where you works A Yes. Q Are you familiar with the different forms that you use as the anesthesiologist in charge of the pre-anesthetic work-ups at your surgery center? A Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	or not I don't think it's the standard of care to go look at it I guess he could have if he had wanted to He would have been one in a million anesthesiologists that would have bothered They would have relied on the report that they got He did have an opportunity to wait for the final reading But to be honest with you, 99 999 percent of the time it doesn't really change And if it does, it's something minor The big things usually jump out at them on a wet reading And by the way, the reason why they call it a wet reading, which nobody seems to know in this case, is because the X-ray film used to actually be wet when it came out of the machine. And they hung it up and looked at it while it was still wet. So that's why it got the nickname BY MR CONWAY Q Well, Doctor, actually I did know that But	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 anesthetic work-ups at the surgery center where you works A Yes. Q Are you familiar with the different forms that you use as the anesthesiologist in charge of the pre-anesthetic work-ups at your surgery center? A Yes. Q And if you were presented with some medical review or some forms to look at, you would know whether or not you had everything that customarily was in the file in front of you, correct, patient history, tests, examinations, results that you had to look at before putting the patient under? A Yes. I know Q You would know A I know where to find those things, yes. Q All right And you would know if you were missing something, correct?

	Page 106		Page 108
1	overnight, so we don't really count it that way. But	1	Q Have you ever administered anesthesia to an
2	there are four operating rooms.	2	amyloid heart patient7
3	Q So how many beds?	3	A I don't know whether I have or not. To be
4	A I don't know. We don't really count it that	4	honest with you, I don't think I would have remembered
5	way. There are four operating rooms, so I guess	5	that. But it wouldn't surprise me that I have over
6	there's -but there's about 20 beds, 'cause we roll	6	the years.
7	them all over the place.	7	Q Have you ever had a patient die under
8	We do about 1200 general anesthetics a year	8	anesthesia that you have administered to them?
9	there. Maybe that helps you.	9	A I've had patients die in the operating room
10	Q You state in one of your paragraphs on page	10	but not from anesthesia causes. I did a lot of trauma
11	2 that, "This patient died from a sudden,	11	anesthesia, and those patients died. But it wasn't
12	unpredictable, and unavoidable cardiac collapse,"	12	from anything I ever did.
13	correct?	13	Q Have you ever been sued for malpractice, or
14	A Let me look at my exact words. What page	14	has any hospital in which you were a care provider for
15	are you on?	15	a patient beeii sued or a group which you've beeii a
16	Q The second page of your two-page report,	16	member of beeii sued for any patients you've been
17	paragraph three.	17	involved in the caie and treatment of?
18	A (Perusing document.) Yes.	18	A No.
19	Q The caidiac collapse would have been avoided	19	MR CONWAY If I could have one minute,
20	on August 7th, 1999, had not Mrs. Armstrong been given	20	Doctor
21	anesthesia, correct')	21	(Off the iecord)
22	A If she had not been given anesthesia, it	22	BY MR CONWAY
	Page 107		Page 109
1		1	
1	would be more likely than not that she would not have	1 2	Q Doctor, you're not critical of any of the nursing care and treatment in this case, are you?
2	had a cardiac collapse, that's right. Q All right Now, you indicate there is no	3	A None that I know of. I guess if I ever saw
3		4	those depositions, I might become critical of
4	cure for amyloidosis	4 5	something. But I don't have anything to criticize
5	A That's right.	6	right now.
6	Q How do you know that without doing a literature search Dester?	7	Ω Do you have anything to criticize based upon
7	literature search, Doctor?	8	your review of the medical records? Do you have any
8 9	A I know that from general medical knowledge.	0	your review of the medical records? Do you have any
9	There has not ar been a ours and here no im	0	criticism of the nurses based upon your ravian of the
	There has never been a cure, and I have no knowledge of any new cures that have come along	9 10	criticism of the nurses based upon your review of the medical records?
10	of any new cures that have come along.	10	medical records?
10 11	of any new cures that have come along. Q And other than putting Mr Rispo to work	10 11	medical records? A No.
10 11 12	of any new cures that have come along. Q And other than putting Mr Rispo to work doing your medical literature search, you have done no	10 11 12	medical records? A No. Q And you're aware that neither Dr. Bartilucca
10 11 12 13	of any new cures that have come along. Q And other than putting Mr Rispo to work doing your medical literature search, you have done no medical literature search yourself Is that correct?	10 11 12 13	medical records? A No. Q And you're aware that neither Dr. Bartilucca nor Dr. Celerio criticized any of the nurses. You're
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10 11 12 13 14 15 16 17	of any new cures that have come along. Q And other than putting Mr Rispo to work doing your medical literature search, you have done no medical literature search yourself Is that correct? A I don't think I put him to work doing any medical literature search for me at all. Like I said earlier, the concepts in terms of the anesthesia in this thing are very basic.	10 11 12 13 14 15 16 17	 medical records? A No. Q And you're aware that neither Dr. Bartilucca nor Dr. Celerio criticized any of the nurses. You're aware of that, correct? A Yes. Q The answer would be correct, then, correct? A That's correct.
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28 (Pages 106 to 109)

	Page 110		Page 112
1	BY MR. CONWAY:	1	was actually very reasonable, and it wasn't an
2	O Do you have any criticisms, Doctor, of Dr.	2	overdose. It was titrated on with 150 milligrams of
3	Bartilucca's involvement in this case?	3	Propofol and then either 50 of Lidocaine or Xylocaine,
4	A Nothing that I know of. But, like I said	4	like it says there, or an additional dose of Propofol,
5	earlier, if he was aware of something that nobody else	5	which means he titrated it on either way.
6	was and he chose to keep that to himself, I would be	6	So he didn't see the response that he would
7	critical of that. But I have no proof of that, so I	7	normally want to see. And then she had a profound
8	really don't have any criticisms of him.	8	vascular and cardiac collapse because of the
9	<i>O</i> And you don't have any criticism of or	9	amyloidosis within her vascular system and her heart.
10	I'll put it this way. You do not believe that Dr.	10	It's just not able to contract like a normal
11	Richardson was below the standard of care, correct?	11	system would, especially in the face of 50 milligrams
12	MR. RISPO: Objection.	12	of ephedrine. That will bring back almost anybody
13	THE WITNESS: No. I don't think that he	13	unless their vascular system does not have the ability
14	really was.	14	to contract.
15	BY MR. CONWAY:	15	And since your vascular system can't
16	O All right. Doctor, you've issued a report,	16	contract when it's full of amyloid, the cardiac
17	July 10th, 2001, directed to Mr. Rispo. Are these	17	filling during diastole, which relies on that
18	still your opinions that you hold in this case?	18	contractility of the arterial side of the system to
19	A Well, let me just read it to make sure real	19	squeeze blood back against that closed aortic valve,
20	quick. (Perusing document.) I have additional	20	she was not able to do that. And that's why she
21	opinions that 1 guess I talked about during this	21	basically just spiraled down.
22	deposition that aren't	22	Even if she had had a massive cardiomyopathy
	Page 111		Page 113
1	Q What are those additional opinions, Doctor?	1	that was not amyloid and ongoing ischemia, she still
2	A That the evaluations that had been done	2	would have responded to that 50 milligrams of
3	previously by Dr. Richardson and referral doctors that	3	ephedrine. But somebody with amyloid heart disease is
4	were in his chart showed that the patient would have	4	not going to respond.
5	been okay for surgery if there was no change in her	5	So at least the initial part of this
6	symptom complex in between those, that she had	6	resuscitation was perfectly appropriate under this
7	undergone a successful stressful bypass surgery of her	7	circumstance on what looks like a fairly routine and
8	lower extremities, and her EKG really wasn't all that	8	low-dose or at least average dose of Propofol for a
9	different than it was months before, so that it just	9	patient in this similar situation.
10	strengthens my opinion that there was really no	10	I don't see anything wrong with this
11	deviation in the standard of care by Celerio.	11	induction at all, even if I had known everything that
12	And had he had a full, formal written, quote	12	was in her cardiac history except for the amyloidosis.
13	unquote, clearance by Dr. Richardson, she still would	13	So that's why she died. She had an
14	have been cleared for surgery. And she probably still	14	inability to respond to resuscitative agents because
15	would not have revealed herself to have been an	15	of her amyloid vascular system and heart. She had no
16	amyloidosispatient and that the likelihood of the	16	chance of living once she collapsed, because she
17	outcome would have been somewhat the same, not knowing	17	couldn't respond. It's as simple as that. She just
18	that she had amyloidosis.	18	didn't have a chance.
19	I can tell you why she died, if you're	19	Q So did you even evaluate the resuscitative
20	interested.	20	efforts by Dr. Celerio?
21	Q Sure, shoot	21	A Yes.
22	A The induction of anesthesia on this patient	22	Q Are you telling me you don't have any

[
	Page 114		Page 116
1	problems whatsoever with his involvement in the	1	not looked at those records as of today's date?
2	resuscitatioii?	2	MR. FRASURE: Which records, now?
3	A I think that the resuscitation that he	3	MR. CONWAY: The ones you've just
4	started was a perfectly appropriate resuscitation and	4	THE WITNESS: I don't think anybody has
5	that I guess he turned over the resuscitation to	5	those records, as far as I know.
6	somebody else that came into the room that he felt was	6	BY MR. CONWAY:
7	a better person to run the code.	7	Q When did you first ask to review those
8	There is nothing wrong with turning over a	8	records, Doctor?
9	code to somebody else that you think might do a better	9	A Sometime about in the last week or so.
10	job than you. There are people out there like that.	10	MR. FRASURE: He's talking about the
11	I'm not one of them, but there's nothing wrong with	11 12	admission for the fem bypass. MR. CONWAY: I'm aware of what he's talking
12 13	that.	12	about.
	And knowing what drugs they did give and the efforts that they did try and knowing what was wrong	13	MR. RISPO: I don't have them.
14 15	with her that nobody knew about, it really wouldn't	15	BY MR. CONWAY:
15	have made any difference anyway.	16	Q Doctor, I see that the last paragraph on
10	O At the time that this other doctor came in	17	page 2 indicates that, "If more documents become
18	to take over handling the code from Dr Celerio, that	18	available, I will be happy to read them and reserve
19	doctor had none of the background information	19	the right to alter my opinions accordingly."
20	regarding the patient that Dr. Celerio had, correct?	20	A Yes.
21	A Not on entering the room, he wouldn't. But	21	Q Correct?
22	I'm sure Dr. Celerio immediately revealed everything	22	A That's right. And I'll stick by that even
	D 115		
_	Page 115	Ŧ	Page 117
Ι	that he knew up to that point. Otherwise, the guy	I	to this day.
2	that he knew up to that point. Otherwise, the guy wouldn't want to take over the code. He'd be starting	2	to this day. Q Oh, I'm sure you do, Doctor I've read your
2 3	that he knew up to that point. Otherwise, the guy wouldn't want to take over the code. He'd be starting from zero for no good reason.	2 3	to this day. Q Oh, I'm sure you do, Doctor I've read your other depositions
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1-800-334-9082 410-544-7332 544-7512 (fax)

30 (Pages 114 to 117)

1would be.1QIs that important to you in you2But I think if the patient died of an2AYes.3amyloid heart issue, I'm surprised that it wasn't on3QYou were also asked about ge4the original autopsy. But I don't know that they4work-up or something to that effect.	
2But I think if the patient died of an2AYes.3amyloid heart issue, I'm surprised that it wasn't on3QYou were also asked about ge4the original autopsy. But I don't know that they4work-up or something to that effect.	r opinions?
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4 the original autopsy. But I don't know that they 4 work-up or something to that effect.	tting a cardiac
	-
5 usually assay for that or stain for it. 5 that this patient had a 2-D echo in Jur	-
6 So that would be my only comment. I don't 6 was normal? Did you see that in the	
7 know what their standard is, though. So I really 7 records?	
8 can't say anything beyond that. 8 A I remember seeing lots of tes	sts that weren't
9 Q Other than that comment regarding the 9 really all that bad. Let me look at t	
10 autopsy, you don't have a criticism of any doctor 10 the exact wording. Yon said what	
11 Is that your tesbmony, Doctor? 11 Q June of '98, 2-D echo. I think	
12 A I don't have any criticisms other than the 12 be in the records of the West Shore P.	
13 things that I talked about earlier, no. 13 office records, which includes Dr. Rid	-
14 MR CONWAY I don't have anythilig further, 14 A (Perusing documents.) I rem	nember seeing two
15 Doctor 15 echoes, and one was slightly abnorn	nal. I'm just
16 EXAMINATION BY COUNSEL FOR DEFENDANT, 16 looking through my records right r	
17 PAUL BARTILUCCA, M D 17 know if you can see me, but I can't	see you.
18 BY MR FRASURE 18 Q Oh, I'm sorry.	
19 Q Real briefly, Doctor, five minutes Mark 19 MR. CONWAY: Mark, would	you like to come
20 Frasure on behalf of the gynecologist would you 20 down here?	
21 expand briefly on why the femoral bypass surgery that 21 MR. FRASURE: Sure. I've be	en waiting for
22 this patient had in April would be more stressful than 22 you to ask.	
Page 119	Page 121
	1 age 121
the surgery that was to be done here in August? 1 MR. RISPO: I don't think he	-
1the surgery that was to be done here in August?1MR. RISPO: I don't think he2ABecause it's a well-known fact that vascular2records.	-
2 A Because it's a well-known fact that vascular 2 records.	's seen those
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2ABecause it's a well-known fact that vascular2records.3and in particular bypass surgery is more stressful on3THE WITNESS: I don't thin	's seen those k I have that.
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Deposition of DAVID CHARLES BRANDON, M.D.

	Page 122	Page 124
1	A July 6th?	1 for one second, so this is clear obviously I'm
2	Q I believe that's right	2 making a request for the correspondence that went
3	A (Perusing document.) Okay, I'm looking at	
		3 between you and Mr Rispo If you could get that
4	it.	4 together and forward it on to him, I'd appreciate it,
5	Q Where she reports that her chest pain is	5 okay?
6	worse, she gets out of breath when she walks up steps	6 THE WITNESS Okay
7	aiid then about halfway down, he says, "These pains	7 MR CONWAY And if you would fax everything
8	have been the same character and quality the last	8 to Mr Rispo, he can get it to us, okay?
9	three years. Patient admits this is nothing new." Is	9 THE WITNESS Okay
10	that significant, in your opinion?	10 MR RISPO Let me make this offer I have
11	A Yes.	11 copies, obviously, of everything I've sent out to him
12	Q Why?	12 Do you want me to just give you my copies7
13	A Because it shows that the patient actually	13 MR CONWAY Well, I'd like to see his,
14	hasn't gotten any worse and may be at sort of a stable	14 because a lot of times I just want to be clear that
15	point in her physical status. And it gives me an idea	15 I mean, sometimes people write notes on it,
16	of what she's able to tolerate.	16 whatever
10		
	Q And what does Dr Richardson say his	5 1
18	suspicion is of her having an MI or a PE, under	18 correspondence, okay, Doctor?
19	assessment, plan?	19 THE WITNESS Okay
20	A He says, "Whereas, she is at risk for MI and	20 MR CONWAY Thanks
21	PE secondary to" that's what that "to dot" means	21 (Signature not waived)
22	"secondary to protein-C deficiency, my suspicion is	22 (Whereupon, the taking of the deposition was
	Page 123	Page 125
1	-	Page 125 1 concluded at approximately 9:22 p.m.)
1 2	low; and I think her anxiety is contributing greatly	
2	low; and I think her anxiety is contributing greatly to her symptoms. Follow-up MRI of the brain next	
2 3	low; and I think her anxiety is contributing greatly to her symptoms. Follow-up MRI of the brain next Friday I," something, "to call me back if dyspnea."	
2 3 4	low; and I think her anxiety is contributing greatly to her symptoms. Follow-up MRI of the brain next Friday I," something, "to call me back if dyspnea." "I asked her," I guess that says.	
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Page 126	
State of Ohio) County of Lorain)	
County of Lorain)	
IN THE COURT OF COMMON PLEAS	
IN THE CONTROL COMMON TEEKS	
James J Armstrong, Executor of)	
the Estate of Nancy Armstrong,)	
Plaintiff,)) Case No. CV126180	
vs)	
EMH Regional Healthcare System,) d/b/a Amherst Hospital, et al ,)	
Defendants.)	
Annapolis, Maryland	
Tuesday, May 21,2002	
ACKNOWLEDGMENT OF DEPONENT	
I, David Charles Brandon, M D, hereby acknowledge that	
1 have read and examined pages 4 through 125, inclusive, of	
the transcript of my deposition and that:	
(Check appropriate box)	
() the same is a true, correct, and complete	
transcription of the answers given by me to the questions therein recorded	
() except for the changes noted in the attached	
Errata Sheer, the same is a true, correct, and complete transcription of the answers given by	
me to the questions therein recorded	
Date Signature	
COMPOPELICE REPORTING SERVICES (301) 596-2019	
CERTIFICATE OF NOTARY PUBLIC I, Suzanne Giles, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly swom by me; that the testimony of said witness was taken stenographically by me and thereafter reduced to typewriting by me or under my direction; that said deposition is a true record of the testimony given by said witness; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this deposition was taken; and, further, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise interested in the outcome of the action.	
Suzanne Giles Notary Public in and for the State of Maryland, County of Anne Arundel My Commission Expires: November 1, 2004.	
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Sudden death in a patient with amyloidosis of the cardiac conduction system

D C ALLEN, C C DOHERTY

From the Histopathology Laboratory and Department of Nephrology, Belfast City Hospital, Belfast, Northern Ireland

SUMMARY A 54 year old man had generalised systemic amyloidosis secondary to bilateral basal bronchiectasis of the lungs. He died after an unexpected asystolic cardiac arrest. Necropsy showed extensive amyloid deposition in the cardiac conduction system,

Cardiae amyloidosis is a well established but uncommon cause of haemodynamic and electrocardiographic abnormalities.¹⁻¹¹ Several workers have incriminated to varying degrees the presence of amyloid deposits within the cardiae conduction system as the underlying pathophysiology.²⁻¹¹ We report a case of systemic amyloidosis occurring in a 54 year old man secondary to bilateral basal bronchiectasis, who died after p sudden asystolic cardiae arrest due to direct amyloid deposition in his conduction system. An abnormal electrocardiogram was recorded eight months before death.

Case report

A 54 year old mao was admitted to Belfast City Rospital for evaluation of chronic renal failure. H e had a history of bronchiectasis, and nephrogenic diabetes insipidus had been diagnosed two years previously after investigations for polyuria. The cause of his renal failure was considered to be renal amyloidosis since gastric and rectal biopsy specimens stained positively with congo red. Since his creatinine clearance was 11 ml/min an arteriovenous fistula was created in anticipation of the need for haemodialysis. A 12 lead electrocardiogram recorded at this time showed a sinus rhythm of 65 beats/min with first degree heart block (PR interval 0.28 s; QRS interval 0.11 s) and incomplete left bundle branch block (Fig. 1). An Unspecific ST/T wave abnormality was also present. He was readmitted to hospital eight months later complaining of breachlessness and neck swelling.

Requests for reprints to Dr Derek C Allen, Histopathology Laboratory, The Laboratories, Belfast City Hospital, Belfast BT9 7AD, Northern Ireland.

Examination showed sinus rhythm, no signs of heart failure, and a diffuse goitre. Renal function was little changed with a creatinine clearance of 10 ml/min, a serum urea concentration of 16.9 mmol/l (1.0 g/l), and a serum potassium concentration of 3.7 mmol (mEq)/l. He was treated fur exacerbation of bronchicetasis, but despite initial improvement sudden cardiac arrest occurred 24 hours later. His electrocardiograms showed asystole, and resuscitation was unsuccessful.

NECROPSY PINDINGS

Necrapsy showed enlarged emphysematous lungs with pronounced bronchiectatic changes in borh bases. The peripheral airways were dilated and congested, end the overlying pleural cavities contained fibrous adhesions. The other organs were affected to varying degrees by amyloid infiltration. The kidneys and parathyroid glands showed ad obvious waxy pallor, and a pronounced amyloid goitre (110 g) was evident Histological examination showed involvement of the liver, spleen, skin, other endocrine glands, and the gastrointestinal tract. Lung deposition was minimal.

The total heart weight was 580 g, and there war moderate biventricular dilatation and hypertrophy. The aorta and coronary arteries contained only a minimal amount of atheroma, and wide lumen patency was maintained at all points. The pericardium was translucent, and the valves were not thickened. Histological examination did not show any recent or long standing ischaemic myocardial darmage The ventricular interstitium and its vessels contained small amounts of congo positive amyloid. The subendocardial aspects of both atria contained focal amyloid deposits, but the cardiac valves, pericardium, and epicardial vessels and nerves were not affected.

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nild but was not detected on noca developed as the dose but disappeared when the weeks later dramatic symp : assessment which showed no tamponade despite the sis presumably because the vly. The effusion resolved ith treating with thyroxine

accord with the findings of no found that resolution is replacement therapy.³⁴ le² and Ivy and Smolar *et al* or drainage the pericardial ressed only after thyroxiae

hypothyroid children with y might have pericardia only be recognised by effusion is found thyroxin rted wirh a small dose and order to avoid the need in age. Thyroid replacement esolution of the effusion, months. Pericardiocentesis ac tamponade occurs.

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Fig. 2 Histological section showing the sinoarrial node containing extensive amorphous amyloid deposits both surrounding and replacing conducting myofibrils. (Haomatoxylin and eosin × 300 original magnification.)

Allen, Doherw.

The sinoarrial node contained extensive amyloid, and the branches of its supplying artery were diffusely thickened (Fig. 2). The main nodal artery was not involved. Amyloid had also been deposited in the atrioventricular node, the **Hie** bundle as it penetrated the central fibrous body (Fig. 3), and the left main bundle branch. The myofibrils were intimately mixed with homogeneous eosinophilic amyloid. The absence of appreciable nodal and conducting element fibrosis was confirmed using ε sodium alcian blue stain. It was interesting to note that amyloid deposition was notably heavier in the conduction system than in the myocardium.

Discussion

Dissection of the main components of the human cardiac conduction system is well documented." The sinoatrial node lies at the crest of the right atrial appendage where it joins the superior vena cava. The atrioventricular node lies anterior to the coronary sinus beneath the tight strial endocardium, and the main His bundle runs forward and down through the central fibrous body below the membranous septum. Serial blocks and examination at multiple levels are required. The paraffin processed tissue sections in this patient were stained orange-red with alkaline congo red, and these amyloid deposits showed an apple green birefringence under polarised light. Presence of amyloid was confirmed by staining with sodium alcian blue, and with thioflavine T viewed for fluorescence under ultraviolet light (Fig. 3b). The sections were also sensitive to potassium permanganate decolorisation, a feature considered by some to be histological confirmation of secondary amyloid.13

Cardiac amyloidosis is classically thought of as an infiltrative cardiomyopathy with subsequent cardiac failure which may he refractory to conventional treatment. It may minue the clinical picture of constrictive pericarditis and the electrocardiographic changes of healed infarction.¹³ Unspecific electrocardiographic abnormalities such as low voltage and axis deviadon have been noted James asserted that the "disturbance of cardiac function and conduction are in a significant amount due to the amyloid infiltration directly" (that 15, of the conduction system). He found heavy sinoatrial node deposits and atrial fibrillation in two of hi3 five cases. Others have since reinforced his comments," ¹⁰ but sinus rhythm has also been reported in the presence of severe conduction system infiltration ** Prolongation of the documented in all yloss near unsea. Bharau and reported a case of recurrent ventricular fibrillation and extensive cardiac conduction system deposition of In 1960 sudden death occurred in two cases



Fig. 3 Histological section show intimately mixed with conducting His bundle with the contral fibrou light ×400 original magnification

of primary cardiac amyloid ventricular node and His series by Wright and Calki with primary amyloidosis from arthythmic cardiac i had been noted elsewhere conduction system dissectic death occurred in our patie atheromatous disease or ele in rhe presence of conduct trates.

Two main actiological fa for dysfunction in amyloid to or intramyocardial vessels i ischaemic lesions.) and the energy of the distribution of the maximum with haemody patient had amyloid throughter, increasing the function 05/10/02

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Allen, Doherty

ed extensive amyloid, end ing artery were diffusely lain nodal artery was nor so been deposited in the lis bundle as it penetrated 'ig. 3), and the left main rils were intimately mixed allic amyloid. The absence inclucting element fibrosis im alcian blue stain. It was oid deposition was notably ystem than in the myocar-

imponents of the human is well documented." The crest of the right atrial ie superior vena cava. The terior to the coronary sinus cardium, and the main His own through the central imbranous septum. Serial ultiple levels are required, ue sections in this patient th alkaline congo red, and showed an apple green rised light. Presence of taining with sodium alcian T viewed for fluorescence 3b). The sections were also langanate decolorisation, a to be histological confirme-

lassically thought of as an with subsequent cardiac fractory to conventional the clinical picture of t the electrocardiographic m.¹¹¹ Unspecific electro s such as low voltage and oted. James' asserted that : function and conduction int due to the amyloid t is, of the conduction noatrial node deposits and ais five cases. Others have ents,' " but sinus rhythm 1 the presence of severe ion." * Prolongation of the branch block are well eart disease. Bharati et a! ventricular fibrillation and ion system deposition of leath occurred in two cases



Fig. 3 – Histological section showing the main His bundle penetrating the central fibrous body and extensive amytoid deposition mtimately mixed with conducting elements (kaematoxylin and eosin ×125 original magnification); and (b) a higher power view of the His bundle with the central fibrous body in the top right corner; abundant amyloid is confirmed (thioflavine T viewed under ultraviolet light ×400 original magnification).

of primary cardiac amyloidosis associated with atrioventricular node and His bundle infiltration." In a scries by Wright and Calkins¹⁹ 30% of their patients with primary emyloidosis died suddenly, probably from arrhythmic cardiac involvement. This danger had been noted elsewhere but not substantiated by conduction system dissection in either case." Sudden death occurred in our patient in the absence of severe atheromatous disease or electrolyte abnormalities and in the presence of conduction system amyloid infiltrates.

Two main aetiological factors have been suggested for dysfunction in amyloid heart disease. The coronary or intramyocardial vessels may be thickened causing ischaemic lesions,' and the amyloid deposition may atrophy the parenchyma directly. The latter mechadism leads to a less compliant and contractile myocardium with haemodynamic disturbances. Our patient had amyloid throughout his conduction system, increasing the functional implications of the deposite. This was confirmed by an abnormal electrocardiogram snowing first degree hearr block and incomplete left bundle branch block.

This case therefore illustrates the potential hazard of sudden death from conduction system, discase in patients with generalised systemic amyloicosis.

We thank Dr J D Biggart for his advice on the pathological specimens and Dr M E Scott for reviewing the electrocardiogram We also thank Mr John Orchin for his technical and photographic expertise.

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Notice

British Cardiac Society

The Annual General Meeting for 1984 will take place in Leicester on 11and 12 April 1984, and the closing date for receipt of abstracts was 3 January 1984.

The Autumn Meeting in 1984 will be held an 3 and 4 December 1984, and the closing date for receipt of abstracts will be 15 August 1984.



The article P H Kay et al (with an important and contro and infant congenital cardiac pulmonary and subclavian a polytetrafluoroethylene graft considerations. A further pro of pulmonary ocdema after completely satisfactory small theric graft is not yet polytetrafluoroethylenc possi for this type of surgery. Long days) is the major factor in th pulmonary shunt procedurleave the impression that the polytetrafluoroethylene grafi this (p 363): "Indeed, th difference in shunt patency h 6 mm grafts at two years." I state in Table 2 that, of the fohad a 6 mm shunt (state of s two 4 mm shunts (both occ shunt (patent), and one had mm in size (state of shunts) from an analysis of Tables complicated shunts were 4 r for example, (Table 3) in the mm, three were 5 mm, and The two cases of late graft with 4 mm grafts. The num Figs. 2 and 3 also do not should for an actuarial curve

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The Conduction System In Cardiac Amyloidosis

Clinical and Pathologic Features of 23 Patients

REN L RIDOLFI, M.D. BERNADINE H. BULKLEY, M.D. GROVER M. HUTCHINS, M.D. Baltimore, Maryland Cardiac amyloidosis is frequently associated with major electrocardiographic conduction disturbances; but that these disturbances are due to infiltrative destruction of *the* conduction system by amyloid is unclear. We studied the conduction systems in 23 autopsy patients with cardiac amyloidosis (group 1) (mild in *seven*, moderate In five and severe in 11), 21 (91 per cent) of whom had had abnormalities of conduction or rhythm during life. For comparison, we examined the conduction system in 23 control subjects matched in age and heart weight [group 2).

Of the 23 patients in group 1, only three had extensive amyloidosis of the conduction system; in all three, electrocardiograms showed first degree atrioventricular block and left anterior hemiblock. A mare common morphologic abnormality of the conduction system was severe sinoatrial node fibrosis present in seven (30 per cent) patients, and idiopathic atrophy and fibrosis of the bundle branches present in six (26 per cent) patients. None of the patients in group 2 had severe sinoatrial node fibrosis; but two (9 per cent) had idiopathic alrophy and fibrosis of the left bundle branch. Marked librosis of the sinus node was more frequent in patients with severe or moderate amyloid, but fibrosis of the bundle branch did not appear to be related to the amount of amyloid elsewhere in the heart. Varying degrees of airloventricular and bundle branch block were also present in six patients with no morphologic abnormalities of the conduction system. Thus, conduction and rhythm disturbances are frequent in cardiac amyloidosis, but direct amyloid Infiltration of the specialized conduction tissue of the heart does nat account for the majority of these disturbances. Whether the increased incidence ci fibrosis of the conduction system in group 1 compared to 11 +1 group 2 relates to the infiltrative myocardiopathy is uncertain.

Amyloid heart disease may be associated with a wide variety of cardiac arrhythmias and conduction *disturbances* [1–15], but whether or not the frequently associated electrocardiographic abnormalities **are a consequence** of amyloid Infiltration within the conduction system has been a subject of controversy. Extensive amyloid in the specialized conduction tissue correlating with associated electrocardiographic disturbances has been found by some investigators [16] but not by others [17,18] **These** studies have been limited to a Few selected patients with severe myocardial amyloid involvement **and** leave unclear

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From the Departments of Pathology and Medicine, the Johns Hopkins University School of Medicine and Hospital, Baltimore, Maryland. This study was supported by Grant P17-HL-17655-01 from the National Institutes of Health, Public Health Service, Department of Heelth, Education and Welfare; and the Stetler Research Fund for Women Physicians. Requests for reprints should be addressed to Dr. Grover M. Hutchins, Department of Pathology, The Johns Hopkins Hospital, Baltimore, Maryland 21205, Manuscript accepted August 18, 1976.



CONDUCTION SYSTEM IN CARDIAC AMYLOIDOSIS -- REDOLFT ET AL.

whether or not direct amyloid infiltration accounts for a large or small part of the conduction abnormalities seen frequently in patients with cardiac amyloid.

To determine the importance of direct conduction system involvement by amyloid to the development of arrhythmias and conduction disturbances, we studied the clinical and pathologic features of 23 patients with cardiac amyloidosis. The singatrial and atrioventricular conduction systems were examined in detail with specific reference to electrocardiographic abnormalities during life. The findings were compared among groups of patients with mild, moderate and severe cardiac amyloidosis, and a group of control patients.

MATERIALS AND METHODS

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The records of 23 patients with cardiac amyloidosls (group 1), taken from the autopsy files of The Johns Hopkins Hospital, whose hearts were available for examination were



Igure 1. A, sinostrisi (SA) node from petient (Cese 11) showing normal nodel tissue above the artery to the sinostrial node. The artery is filled with dark staining injection mass. Nodal fibers are admixed within a delicate connective tissue background. B, portion of a mildly fibrotic sinostrial node from patient (Case 16) in which there was severe cardiad amyloidosis. Part of the sinostrial node aftery is at the bottom left. There is focal fibrous replacement of nodal fibers within the midportions of the node. The attel myocardium at the right shows severe amyloid deposition but there is none within the mode tissue itself. Electrocardiogram showed left anterior hemblock but no atrial mythm disturbance. C, portion of sinostrial node with severe fibrosis but no armyloid deposition from patient (Case 10). Only rare nodal fibers are present within the scarred node. The sinostrial node artery is below and the endocardium with heavy amyloid deposits at the upper right. Elected and node with severely fibrotic sinoatrial mode artery is below and the endocardium with heavy amyloid deposits at the upper right. Elected and node artery shows mural amyloid deposits (dark in this stain) but the lumen is patient. The strial myocardium at the right is unremarkable. Electrocardiogram showed sinus bradycardia. Hematoxylin and eosin stain (A, B and C), Congo red stain (D); original magnification X 90; reduced by 5 per cent.

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studied, and their clinical histories were reviewed. The hearts were examined grossly, and histologic sections were taken from both atria and ventricles. The presence of amyloid was confirmed by Congo red staining and dichroic pirefringence in histologic sections of myocardium [19]. At least 50 seetions of myocardium, including the left and right ventricle, and atria in each patient, were examined. The atrioventricular node and bundle branch networks were removed in a single block [20]. me blocks were serially sectioned at 8 µ intervals and every 15th section was retained; two of every three retained sections were stained with hematoxylin and eosin or aldehyde juchsin-elastic, respectively, and every third section was stained as indicated with either Congo red, cresyl violet, Vethoeff-van Gieson elastic or Masson's trichrome. In 22 of the 23 hearts the sineatrial node was present; it was removed in a single block as described by Hudson [21], subdivided and sectioned for histologic study. Blacks which contained sinoatrial node tissue were further serially sectioned and stained in the manner described.

Amyloid involvement of the myocardium was gaded mild. moderate or severe on the bask of the findings on combined gross and microscopic examination of the hearts. The grading was based on an estimate of the amount of amyloid presentmild If less than 10 per cent. moderate if approximately 10 to 40 per cent and severe if greater than 40 per cent of the myocardium was emyloid. With moderate and severe involvement, amyloid was evident by gross inspection. Within the specialized conduction system alone, amyloid involvement end fibrosis were graded on a scale of 1+ to 4+,

CONDUCTION SYSTEM IN CARDIAC AMYLOIDOSIS-RIDOLFI ET AL.

ranging from mild to severe involvement, respectively (Figure 1).

The conduction system of 23 control patients (group 2) matched for age within two years were studied in a fashion identical to that described. Electrocardiographic abnormalities were recorded in each case.

RESULTS

Clinical Findings. The average age of the patients in group 1 (Table I) was 75 pears (range 44 to 88 years); 19 of them were 70 years of age or older. Eighteen of the 23 patients had what has been termed a "senile" pattern of amyloid distribution. In senile amyloidosis, amyloid is deposited mainly in the heart, involvement of the vessel walls, lung, pancreas and other organs is less severe [22,23]. In 10 of the 18 patients with senile-type, amyloid was confined entirely to the heart, One of the 18 patients with senile-patternamyloid also had active menincovascular syphilis (Case 4).

Of the remaining five patients with cardiao amyloid, three had a plasma cell dyscrasia (Cases 2, 12 and 22), one had generalized amyloidosis in a famillal pattern with prominent renal involvement {Case 7) [24], and one has a primary distribution with prominent nerve Involvement (Case 21). The hearts ranged in size from 350 to 800 g with an average weight of 551 g. Coronary artery disease was minimal: only one of 23 patients had

TABLE I

Clinical and Pathologic Features of Patients with Cardiac Amyloidosis (Group 1) and Control Patients (Group 2)

	Cardiac Amyloidosis (Group 1)				Control Group	
Features	Mild	Moderate	Severe	Total	No Am <u>yloid</u>	
Clinical						
Patients (no.)	7	5	11	23	23	
Age (yr)						
Bangé	52-78	75-84	44-88	44-85	46-09	
Average	69	80	78	76	76	
Sex (no.)	·····		-		and the second second	
Mate	5	3	7	15	14	
Wamen		2	4	8	9	
Congestive heart failure (no.)	7 (100)*	5 (100)	10 (90)	22 (96)	9 (39)	
Systemic hypertension (no.)	6 (71)	Z (40)	5 (45)	12 (52)	6 (26)	
Electropardiographic						
Atrial arrhythmias (no.)	3 (43)	2 (40)	4 (36)	ର (3୫)	3 (13)	
Atrioventricular block (first degree, second degree, complete heart block)	3 (43)	2 (40)	5 (45)	10 (43)	4 (17)	
Bundle branch block (no.)	3 (43)	2 (40)	2 (18)	7 (30)	Z (9)	
Low voltage (no.)	2 (29)	1 (20)	E (45)	8 (35)	0 (0)	
Poor precordial R wave progression (no.)	1 (14)	1 (20)	5 (45)	7 (30)	5 (22)	
Pathologic						
Heart weight (g/average)	570	420	599	551	570	
Sinus node (no.)						
Amylaid (sovers)	ō	C	2 (18)	2 (9)		
Fibrasis (severe)	1 (14)	2 (40)	4 (36)	7 (30)	0 (0)	
Atrioventricular node-bundle branch (no.)						
Amyloid (severe)	0	0	2 (18)	2 (9)		
Fibrosis (severe)	2 (29)	1 (20)	3 (27)	6 (26)	2 (9)	

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Figures in parentheses represent per CENt.

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greater than 75 per cent lumenal narrowing of one or *more* of the major extramural coronary arteries.

Twelve patients (52 per cent) had a history of systemic hypertension, defined as a recorded blood pressure level of 140/90 mm Hg or greater. in five of these patients, four with severe amyloid in the heart, hypertension disappeared in the latter part of their clinical course. Congestive heart failure was present in 22 patients (96per cent):New York Heart Association class ill and IV in 17 and class I and II In five. The group with class III and IV failure included 10 patients with severe cardiac amyloid and seven with mild or moderate cardiac amyloid. Hypertension and/or renal disease may have contributed to the congestive failure in at least 15 of these 22 patients. Some form of stable electrocardio-

TABLE II	Electrocardiographic and Pathologic Findings (Group	1)
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Çese Ng.	Age (yŕ) and Sex	Type of Amyloid	- Rhythm and Conduction Disturbances*	Sinus Node	A-V Node	. Main Bundle	Left Bundle	Right Bundle
			Mild Cardiac Amyl	oidosis (7 Patier	1ts)	·····	<u></u>	
1	64,M	Senile	PVC; complete heart block		,		1 + F	• • •
2	78.M	Plasma cell dyscrasia	1° AVB, R888		•••		•••	
3	65, W	Senils	Atrial fibrilistion LBBB, WC	1 + F			6 1 + F	• • •
4	70, M	Senile	PAG	4 ∔ ⊭				* * * *
5	78, M	Senile	LBBS				4 + F	
ē	76, M	Senile	5 [™] AVB, PAC. atrial fibrillation			1		•••
7	52, W	Familial	None		111		***	• • •
			Moderate Cardiac Ar	nyloidosis (5 Pai	tients)			
8	75, M	Senile	PAC, PVC, 1" AVE, LBBB			** * *	4 + F	
0 5	81, M	Senile	PVC	1 + A				1 + A
5	01, 17	Senne	· · -	2 + P			*	
10	82, M	Şenile	LAH, RESS	1 + A 3 + ≓			• • •	
11	84, M	Senile	Intermittent CHB (with myocard)al infarction)	* # 2	***		• • •	• • • •
12	81, W	Pissma cell dyscresia	Sinus bradycardia	4 + F: 4 + A	1 + A Vessel	3 + A vessel	3 + A Vessel	3 + A vossel
		C 75012319		<i>in s</i> inus arterv		105502		
			Severe Cardiac Amy	loidosis (11 Pati	ients)			
13	72. M	Sentie	PAT. PAC, PVC, 2" HB,	1 + A				
ڊ i	/ 2. M	QH-111E	escape nodal rhythm	3+ F				
14	73.M	Senile	Atrial fibrillation	1 + A				2 + A
1	73,14	W21(1)		2 + F				
15	88,M	Senile	PAC, PVC	1 + A			1 + 🖻	1 + A
16	84. W	Senile	LAH	1 - 2 + 4	`		1 + A	1+A
10	U . 1 . 1 .	Conno		2-3 + F			4 + F	
17	81, M	Senile	None	1+A	2 + A	2 + A	3 + A	• • •
.,					vessel	vessel	vessel	
18	83,W	Senlle	1' AVB, LAH	3 + A	1.5.2		2 + A	1 + A
I D	85, M	Senile	Escaps nodul rhythm	2 + A	• • •	1 + A		
	88.W	Senile	1° AVB LB88	4 + F 1 + A	4 4 4		4 4 F	1 + A
	5 00, VY 5			i e f		,		
21	44, M	Primary	1' AVB, LAH	3-4 + A	4 + A	1. 7 4	4 + A	
22	75, M	Piasma cell dyscrasia	Atrial fibrillation LSBB	Not studied	· • • •		4 + F	
23	86.W	Senila	1° AVB, LAH	3 + A sinus artery 4 + F	4 + A	4 + A	4 + A	4 t A

*A = amyloid; AVB = atrioventricular block; F = fibrosis; LAH = left anterior hemiblock; LBBB = left bundle branch block; RBBB = right bundle branch block; FAC = premature atrial contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventricular contraction; PAT = baroxysmal atrial tachycerdia; PVC = premature ventric

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block; ABBB ventricular congraphic abnormalities was present In all 23 patients, documented within a period of three months before death: nine had atrial arrhythmias, including four with atrial fibrillation; eight had first or second degree block; seven had complete left or right bundle branch block; five had left anterior hemiblock; and two had complete heart block. in two patients the only abnormalities were nonspecific changes in the S-T segment or T wave. Additional electrocardiographic findings were low voltage in eight patients, and delayed R wave progression across the precordium suggestive of old myocardial infarcts in seven. In each instance there was no clinical evidence of digitalis toxicity to account for these electrocardiographic abnormalities.

Autopsy Observations. Group 1. Mild cardiac amyloid: Findings in the seven patients with mild deposition of amyloid within the heart are summarized in Table II. Two patients had atrial fibrillation, two had first degree heart block, one had complete heart block, and three had right or left bundle branch block. Despite these disturbances, direct amyloid deposition within the sinoatrial node, atrioventricular node or remaining distal conduction tissues was absent or negligible in all patients. Focal scarring, however, was present in portions af the conduction system of three patients that my have accounted for electrocardiographic abnormalities: one patient with premature atrial contractions had severe fibrosis of the sinus node unassociated with amvloid within the node or sinus node artery; two patients with left bundle branch block bad atrophy and fibrosis of the proximal left bundle (Figure 2).

Moderate cardiac amyloid! Five patients had moderate amyloid infiltration of myocard turn. Despite the presence of premature atrial contractions, first degree atrioventricular block, left bundle branch block, left anterior hemiblock, right bundle branch block, intermittent complete heart block and sinus bradycardia among these patients, amyloid deposition within the specialized conduction tissue accounted for nane of these disturbances (Figure 1A). Fibrosis within the conduction system was present in three patients (Figure 1Ci. Scarring of the sinus node in association with utained amyloid deposition within the sinus node arten and other intramural coronary arteries was present in one patient whose only electrocardiographic abnormality was episodic sinus bradycardia (Figure ID) One other patient bad moderate scarring and mild amy loidosis of the sinus node, with no documented associated arrhythmias. A third patient with left bundle branch blook had atrophy and fibrosis of the proximal left bundle, which was entirely free of amyloid deposits (Figure 3). in one of these five patients complete heart block developed after an acute inferior myocardial infarction, but the sinoatrial and atrioventricular nodes and bundle branches were free of ischemic damage.

Severe cardiac amyloid: Eleven patients had extensive deposits of amyloid throughout the myocardium (Table II). Conduction disturbances present in this group of patients included escape nodal rhythms in two patients, abrial fibrillation in two, premature atrial contractions In two, first degree heart block in four, left anterior hemiblock in four and left bundle branch block in two. Although small focal deposits of amyloid were present within the conduction tissue in 10 of the 11 patients, the conduction tissue was markedly spared relative to the involvement of the surrounding myo-





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CONDUCTION SYSTEM IN CARDIAC AMYLOIDOSIS-RIDOLFI ET AL.



Av Node MV TV

Figure 3. Case 8. Atrophy and fibrosis of the proximal left bundle branch in a patient with moderate cardiac amylokiosis (arrows) with normal His bundle above. Electrocardiogram showed left bundle branch block. Hematoxylin and eosin stain, magnification X 30.

Figure 4. Histologic section from patient (Case 15) with severe cardiac amyloid at the level of the atrioventricular (AV) node (arrows) shows absence of amyloid deposits within this structure. The atrial myocardium above is almost entirely replaced by amyloid and the ventricular wall below is severely involved by amyloid. The remainder of the conduction system showed similar sparing of amyloid deposition. Electrocardiogram showed premature atrial and ventricular contractions. MV = mitral valve; TV = tricuspid valve. Hematoxylin and eosin stain, magnification \times 6. NOTE: This and subsequent photographs of the atrioventricular node and bundles are oriented as one follows the system from its proximal (posterior-inferior) to distal (anterior-superior) location. Hence the tricuspid valve is on the right.

Figure 5. Histologic section from patient (Case 18) with severe cardiac amyloid at a level within the conduction system similar to that shown in Figure 4 which demonstrates sparing of the atrioventricular node (center) in the presence of massive atrial amyloidosis (right). The central fibrous body (CFB) is at the lower left. Hematoxylin and eosin stain, magnification × 60.

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Figure 6. Case 21. Patient with severe myocardial and conduction system amyloidosis. A, the sinoatrial node with good preservation of architecture. The injected sinoatrial node artery is at the bottom. Inset shows the amyloid (lighter stain) encircling individual muscle cells of the sinoatrial node. There is no increase of fibrous tissue. B, His bundle with massive amyloid replacement. C, severe myocardial amyloid shown surrounding muscle fibers. D, electrocardiogram showing first degree heart block and left anterior hemiblock. Hematoxylin and eosin stain, magnification × 60 (A); × 300 (Inset); × 30 (B) and × 300 (0).



Figure 7. Case 18. Patient with severe cardiac amyloidosis and focal deposits within the bundle branches. The electrocardiogram revealed first degree heart block and left anterior hemiblock. **A**, left bundle branch (LBB) with lighter staining amyloid deposits interrupting the bundle. **B**, Overview showing His bundle at top and the right bundle branch (RBB) (arrows), inset shows the nodule of amyloid (lower arrow) which partially interrupted the right bundle but was unassociated with a corresponding electrocardiographic abnormality. Hematoxylin and eosin stain, magnification × 125 (A and inset) and × 25 (B). CONDUCTION SYSTEM IN CARDIAC AMYLOIDOS(S-BIDOLE) &T AL

cardium (Figures 4 and E). Only three of the 11 patients had extensive amyloid deposition within portions of the conduction system, In two patients (Gases 21 and 23), involvement of the sinoatrial and atrioventricular nodes, and both bundle branches was associated with first degree block and left anterior hemiblock (Figure B); In the third patient, whose electrocardiogram also showed first degree and left anterior hemiblock, the deposits were limited to the sinus node and to focal areas within the left and right bundle branches (Figure 7) sparing entirely the atrioventricular node and main bundle.

Despite the paucity of direct amyloid infiltration of the specialized conduction fibers, mild to severe focal fibrosis was present in pine of the 11 patients with severe myocardial amyloid; in five of them the fibrosis may have **been** clinically significant. In two patients (Cases 13 and 19), severe fibrosis of the sinus node was associated with escape nodal rhythms and atrioventricular dissociation. In three patients (Cases 16, 20 and 22), fibrosis interrupted all or part of the left bundle: electrocardiograms showed left anterior herniblock in one and complete left bundle branch block in two,

Comparison group: For comparison with the patients with amyloid (group 1), 23 patients without cardiac amyloidosis [group 2) were selected for conduction system study They were matched for age within two years of the patients with amyloid and heart weight. These patients were chosen without knowledge of their electrocardiographic findings or cardiac disease

These patients ranged in age from 46 to 89 years, with an average age of 76 years; 19 were over 70 years old The electrocardiographic **abnormalities** in these patients documented within a period of three months before death were as follows: three had atrial arrhythmias including two with atrial fibrillation; atriaventricular block was present in four, including a first degree block in two, second degree Mobitz II block in one and complete hear?block in me; left bundle branch block was present in one and left anterior hemiblock in one. The over-all incidence of rhythm or conduction disturbances among these 23 patients was 39 per cent, in contrast to 41 par cent among the patients in group 1.

The conduction systems in these patients were examined by the: method described herein, Specific findings were mild sincetrial node fibrosis in two (9 per cent) patients un sach unassociated with an electrocardiographic mythm disturbance, and none had severe sinus node **fibrosis**)idiopathic atrophy and fibrosis of the left bundle branch in two patients (one with complete heart block and one with left bundle branch block): and mild fibrosis of the proximal left bundle branch in three patients who had no evidence of conduction block on electrocardiogram Thus, severe sinus node fibrosis was not present in any of the patients in group 2, but It was present in 30 per cent of the patients in group 1;

severe fibrosis of the atrioventricular node or bundle branches was present in 9 per cent of the patients in group 2 and ln 28 per cent of those in group 1,

COMMENTS

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The moot striking finding within each group of patients with different degrees of cardiac amyloidosis was the marked sparing of the specialized conduction tissue relative to the deposition of amyloid elsewhere in the heart. Of the 23 patients studied, only three had severe amyloid infiltration of the sinus node, atrioventricular node, bundle of His or its major branches, Amyloid infiltrates were extensive in the sinus node of two of these patients, and the sinus node artery in the other patient with associated sinus node fibrosis. In all three patients amyloid deposits within the atria and ventricles were severe and even more extensive than the deposition of amyloid within the sinoatrial node itself.in none of these patients, however, was the amyloid infiltration of the sinus node reflected in an electrocardiopraphic abnormality; all three patients ware in stable sinus rhythms Diffuse: amyloid infiltration of the atrioventricular node, bundle of His and bundle branches in two of these three patients, and focal deposits in the bundle branches of ?he third were associated with electrocardiographic evidence of first degree heart block and left anterior hemiblockin each

Although amyloid in the conduction system can explain rhythm and conduction disturbances in some patients with cardiac amyloidosis, it clearly d!\$ not account for the majority of these disturbances in this study. In droup 1 all 23 of our patients had abnormal electrocardiograms, and 21 (91 per cent)had some abnormality of rhythm aconduction including first and second degree heart block, complete heart block, bundle branch block and escape nodal rhythms with atrioventricular dissociation. As already indicated, in only three patients (13 per cent) were conduction disturbances accounted for by direct amyloid infiltration of the specialized conduction tissue of the heart, but eight patients (36per cent) had sinoatrial or atrial rhythm _disturbances and 13 (57 per cent) had evidence of atriaventricular or bundle branch block.

Examination of the conduction systems in our patients provided other explanations for the Frequent electrocardiographic disturbances. Severe since node fibrosis was present in seven patients (30 per sene 1), although observed with all degrees of cardiac amyloidosis, appeared more frequent when amyloid deposits were moderate or severe (Table |) Fibrosis within the sinoatrial node may be seen in association with a number of disease processes including pericarditis, uremia, scleroderma, rheumatic heart disease, diopathlo myocardiopathles and ischemic heart disease [21, 25-27]. Fibrous tissue does not appear to increase

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CONDUCTION SYSTEM IN CARDIAG AMYLOIDOSIS --- RIDOLFI ET AL.

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within the sinoatrial node with **age** in adults [28]. Furthermore, we did not observe severe sinoatrial node fibrosis in any of 23 age-matched patients in group 2, Thus, the explanation fw nodal fibrosis in group 1 remains unclear, but it likely is related to the infiltrative amyloid myocardiopathy. Sinus artery involvement by amyloid, which could possibly produce ischemic and nodal fiber atrophy, was absent in all but two patients.

Idiopathic atrophy and fibrosis of the proximal left bundle branch (4+ fibrosis) was present in six patients (25 per cent) and was more than twice as frequent as direct amyloid infiltration. Unlike sinus node fibrosis, the lesion was found with equal frequency in patients with mild, moderate and Severe cardiac amyloidosis, and was found three times as often as in the age-matched control group. Atrophy and fibrosis of the left bundle system, variably named "sclerosis of the cardiac skeleton" and "idiopathic bundle branch fibrosis" [29,30], has been shown to be the most frequent cause of longstanding complete heart block [31], and it may be associated with isolated leftand right bundle branch block and left anterior hemiblock [32-35]. The pathogenesis of this entity remains unclear, but it has been suggested that it is an exaggerated aging process related to mechanical stress in this region [30], that it is a degenerative or myopathic entity [29] or that it is a sequelae of previous damage due to myocarditis [36]. Whatever the came, atrophy and fibrosis within the bundle branches and not direct amyloid infiltration most often accounted for conduction block in our patients.

Atrioventricular and bundle branch block were also present in six patients without accountable pathologic findings in their conduction systems: three had first *degree heart* block, and in one it was in combination with right bundle branch block; one patient had right bundle branch black and left anterior hemiblock; and two patients had complete heart block. In the latter two patients, complete heart block. In the latter two patients, complete heart block. In the latter two patients, complete heart block. developed shortly before death in the setting of an acute pulmonary embolus in one and an inferior myocardial infarction in the other. The clinical conduction disturbances in the four other patients were entirely without morphologic or clinica explanation. Amyloid infiltration of surrounding myocardium did not account for the conduction disturbances as two had only mild and two moderate myocardial involvement. It is possible, however, that in patients with severe cardiac amyloidosts such infiltration of the atrium and ventricles might produce internodal or peripheral conduction blocks.

The high frequency of conduction abnormalities in our group 1 has been recognized by others [1-6] Detailed studies of pathologic examination af conduction system in amyloid, however, are few and have reached conflicting conclusions. James [16] described five patients with severe cardiac amyloid and extensive deposits of amyioid within the conduction systems: he noted greater involvement of The sinus rather than the atrioventricular node, and corresponding electrocardiographic changes. Davies [18], in a detailed study of three patients with cardiac amyloidosis and rhythm disturbances, however, failed to find amyloid deposits in fully account for the electrocardiographic abnormalities, leading him to conclude that fibrous scarring of the myocardium, possibly related to amyloid vessel involvement, was the factor that caused conduction and rhythm abnormalities in these patients.

Our 23 patients in group 1 represent a wide spectrum at amyloid heart disease ranging from mild to severe. and patients similar To those: described by both James and Davies may be found within this spectrum. In three natients extensive amyloid did involve the specialized conduction system, but the findings in the other 20 patients seem to indicate that the high incidence of rhythm and conduction disturbances in the majority of patients with cardiac amyloidosis are not a direct manifestation of amyloid within the specialized conduction tissue of the heart Fibrosis of the sinus node, and idiopathic atrophy and fibrosis of the atrioventricular conduction network more frequently accounted for conduction disturbances than did amyloid in our patients. Whethor the fibrosis k related to amyloid elsewhere in the heart or to some other cause is as yet uncertain.

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July 10,200I

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Re; Annstrong v. Celerio

Sir,

I have been asked to review the medical records and other related documents concerning the anesthesia care Nancy Armstrong received on August 7, 1999. I was asked to determine if the standard of care was breached during her anesthetic on 8/7/99. On that date, the patient was admitted to Amherst Hospital to have a hysterectomy for pelvic pain.

Her anesthesiologist was Dr. Briccio Celerio. Preoperatively, Dr. Celerio was faced with a patient who had an abnormal EKG, a chest X-ray with positive findings, a history of difficulty breathing with exertion, and leg swelling. The patient denied a history of cardiac disease or heart problems, and had been cleared for surgery by her primary care physician. The preoperative chest examination revealed decreased breath sounds in the right base but was otherwise unremarkable. Based on the data that Dr. Celerio was able to elicit from the patient and her surgeon, he decided to proceed with a general anesthetic. Dr. Celerio relied on his own judgment and his assessment of the patient in conjunction with the available data at the time. X-MAY MAS AVAILABLE

It is my opinion that Dr. Celerio did not deviate from the standard of care in his *Phrin Eklos were* preoperative assessment and that he had a right to rely on the referring physicians to *available*. give him accurate objective medical findings and data. Dr. Celerio also had a right to rely on his patient (to the best of her ability) to accurately outline her medical conditions and participate in his assessment in order for him to administer an anesthetic that would fit her individual needs.

bould he have used a different avesthetic DECENTER

An abnormal EKG and an abnormal chest X-ray are not absolute contraindications to receiving an anesthetic, particularly if the anesthesiologist is lead to believe that the patient has been optimized medically for the procedure.

Given the preoperative data available and Dr. Celerio's physical exam, the patient was given a safe induction of general anesthesia. Shortly after the patient was asleep, she became hypotensive For unknown reasons and eventually arrested and died.

The patient died from a sudden, unpredictable, and unavoidable cardiac collapse. This was caused by amyloidosis in the heart. This disease was undetected at the time but became rather apparent on her post mortem examination. The patient's heart was in such a condition that it could not be resuscitated when stressed because cardiac muscle and the heart's electrical conductance system do not respond normally when there is a gross infiltration of amyloid deposits in the tissues. There is no cure for amyloidosis.

The patient's death can not be attributed to her anesthetic. She is quite simply the victim of sudden death and even though the death was untimely and unfortunate, there is no evidence, in the records, that a deviation in the standard of care for anesthesiologists caused this mishap.

My opinions are based on my training, education, research, and experience. If more documents become available, I will be happy to read them and reserve the right to alter my opinions accordingly.

Sincerely, Mandon

David C. Brandon, M.D.