	1
1	IN THE COURT OF COMMON PLEAS HURON COUNTY, OHIO
2	CENNETH M. STRONG, Case No. CVA-92-866
3	Executor of the Estate of
4	Oolores F. StrongJudge Phillip M. White'3 Townsend AvenueJudge Phillip M. WhiteJorwalk, Ohio44857
5	Plaintiff,
6	
7	-vs-
8	DR. RONALD D. WINLAND \$400 Olentangy River Rd. Jolumbus, Ohio 43214
9	and
10	
11	DR. EARL McLONEY 257 Benedict Avenue Jorwafk, Ohio 44857
12	ind
13	
14	JORWALK CLINIC, INC. :/o Statutory Agent,
15	Cornelius J. Ruffing 25 Christie Avenue
16	Norwalk, Ohio 44857
17	Defendants/
18	The deposition of THOMAS ABRAHAM , M.D. taken under
19	the provisions of the Ohio Rules of Civil Procedure,
20	before Terri W. Sparkman, (CSR-2704), Certified
21	Shorthand Reporter and Notary Public, at 252 East
22	Lovell, Suite 358, East Medical Center, Ralamazoo,
23	Michigan, on August 11, 1994, commencing at 2:30 p.m.,
24	pursuant to Notice.
25	O'BRIEN & BAILS

197 V

•**4** • •

2 APPEARANCES 1 2 IN BEHALF OF THE PLAINTIFF: 3 MICHAEL F. BECKER CO., L.P.A. 600 Standard Building 4 1370 Ontario Street Cleveland, Ohio 44113 BY: JEANNE M. TOSTI 5 6 7)N BEHALF OF THE DEFENDANTS: 8 JACOBSON, MAYNARD, TUSCHMAN & KALUR 333 N. Summit Street: 9 Summit Center Suite 1600 10 Toledo, Ohio 43604-2619 BY: STEPHEN A. SRIVER, M.D. 11 12 13 14 INDEX 15 QITNESS: THOMAS ABRAHAM, M.D. PAGE 16 Examination by Ms. Tosti 17 3 18 19 **EXHIBITS** 20 None submitted 21 22 23 24 25

1 PROCEEDINGS 2 MS. TOSTI: Would you swear the witness, 3 please? 4 THOMAS ABRAHAM, M.D. 5 having been duly sworn by the Notary Public to tell the truth, the whole truth, and nothing but the truth, was examined and testified as follows: 8 MS. TOSTI: We would like the record to show 9 that this deposition is being taken pursuant to Ohio 10 Rules of Civil Procedure, and that this is a discovery 11 deposition being taken pursuant to Rule 26 of the Ohio 12 Rules for purposes of discovery only, and under cross 13 examination to elicit expert medical opinion testimony 14 from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of 16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan	
 3 please? 4 THOMAS ABRAHAM, M.D. 5 having been duly sworn by the Notary Public to tell the truth, the whole truth, and nothing but the truth, was examined and testified as follows: 8 MS. TOSTI: We would like the record to show that this deposition is being taken pursuant to Ohio 10 Rules of Civil Procedure, and that this is a discovery deposition being taken pursuant to Rule 26 of the Ohio 12 Rules for purposes of discovery only, and under cross examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
 THOMAS ABRAHAM, M.D. having been duly sworn by the Notary Public to tell the truth, the whole truth, and nothing but the truth, was examined and testified as follows: MS. TOSTI: We would like the record to show that this deposition is being taken pursuant to Ohio Rules of Civil Procedure, and that this is a discovery deposition being taken pursuant to Rule 26 of the Ohio Rules for purposes of discovery only, and under cross examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
 having been duly sworn by the Notary Public to tell the truth, the whole truth, and nothing but the truth, was examined and testified as follows: MS. TOSTI: We would like the record to show that this deposition is being taken pursuant to Ohio Rules of Civil Procedure, and that this is a discovery deposition being taken pursuant to Rule 26 of the Ohio Rules for purposes of discovery only, and under cross examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
 truth, the whole truth, and nothing but the truth, was examined and testified as follows: MS. TOSTI: We would like the record to show that this deposition is being taken pursuant to Ohio Rules of Civil Procedure, and that this is a discovery deposition being taken pursuant to Rule 26 of the Ohio Rules for purposes of discovery only, and under cross examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
7 examined and testified as follows: 8 MS. TOSTI: We would like the record to show 9 that this deposition is being taken pursuant to Ohio 10 Rules of Civil Procedure, and that this is a discovery 11 deposition being taken pursuant to Rule 26 of the Ohio 12 Rules for purposes of discovery only, and under cross 13 examination to elicit expert medical opinion testimony 14 from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of 16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan	
 MS. TOSTI: We would like the record to show that this deposition is being taken pursuant to Ohio Rules of Civil Procedure, and that this is a discovery deposition being taken pursuant to Rule 26 of the Ohio Rules for purposes of discovery only, and under cross examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
 9 that this deposition is being taken pursuant to Ohio 10 Rules of Civil Procedure, and that this is a discovery 11 deposition being taken pursuant to Rule 26 of the Ohio 12 Rules for purposes of discovery only, and under cross 13 examination to elicit expert medical opinion testimony 14 from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of 16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan 	
10Rules of Civil Procedure, and that this is a discovery11deposition being taken pursuant to Rule 26 of the Ohio12Rules for purposes of discovery only, and under cross13examination to elicit expert medical opinion testimony14from Dr. Thomas Abraham, relative to this case.15As this deposition is taken by agreement of16parties, can we have a stipulation from defense that any17defects in notice or service or the use of a Michigan	
11 deposition being taken pursuant to Rule 26 of the Ohio 12 Rules for purposes of discovery only, and under cross 13 examination to elicit expert medical opinion testimony 14 from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of 16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan	
12Rules for purposes of discovery only, and under cross13examination to elicit expert medical opinion testimony14from Dr. Thomas Abraham, relative to this case.15As this deposition is taken by agreement of16parties, can we have a stipulation from defense that any17defects in notice or service or the use of a Michigan	
 examination to elicit expert medical opinion testimony from Dr. Thomas Abraham, relative to this case. As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan 	
14 from Dr. Thomas Abraham, relative to this case. 15 As this deposition is taken by agreement of 16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan	
As this deposition is taken by agreement of parties, can we have a stipulation from defense that any defects in notice or service or the use of a Michigan	
16 parties, can we have a stipulation from defense that any 17 defects in notice or service or the use of a Michigan	
17 defects in notice or service or the use of a Michigan	
	7
18 court reporter is waived?	
19 MR. SKIVER: Sure.	
20 EXAMINATION	
21 JY MS. TOSTI:	
22 Poctor, would you state your full name and spell your	
23 last name, please?	
24 Thomas Abraham, A-b-r-a-h-a-m.	
25 ! What is your business address?	

2 2 Mor 3 and 4 you 5 A Th 6 th 7 2 Ok 8 you 9 th 10 A Su 11 2 You	4 2 East Lovell Street, Kalamazoo, Michigan. w, Dr. Skiver has provided us with a curriculum vitae, d I would like to show you a copy of what I have. If
3 and 4 you 5 A 6 th 7 2 Ok 8 you 9 th 10 A Su 11 2 You	d I would like to show you a copy of what I have. If
4 you 5 A Th 6 th 7 2 Ok 8 you 9 th 10 A Su 11 2 You	
5 A Th 6 th 7 2 Ok 8 yo 9 th 10 A Su 11 2 Yo	www.ld toll made this is successful
6 th 7 2 Ok 8 yo 9 th 10 A Su 11 2 Yo	u would, tell me if this is current.
7 2 Ok 8 yor 9 th 10 A Su 11 2 Yor	is is current yes, it is. It is more current than
8 yo 9 th 10 A Su 11 2 Yo	e one I have. This is current.
9 th 10 A Su 11 2 Yo	xay. I would like to ask you a few questions about
10 A Su 11 2 Yo	our curriculum vitae. Would it be helpful to look at
11 2 Yo	is one?
	ire.
12 re	w have indicated on your vitae that you did a
	sidency at St. Joseph Mercy Hospital, is that correct?
13 🗛 Th	nat is correct.
14 2 WI	hat type of residency did you do?
15 A An	internal medicine residency.
16 2 но	w long was that?
17 A Th	ree years.
18 2 Al	so on your vitae you have indicated a fellowship at
19 th	e University of Arizona.
20 A Th	nat is correct.
21 2 W	hat did that involve?
22 A Pu	llmonary medicine.
23 Q An	d below that there is listed a Parker B. Francis
24 f e	ellow; what was that?
25 A Th	nat is a fellowship, basically funding a fellowship for

1		
		pulmonary research I did in my second year , part of my5
A		second year.
	Q	Now, under board certification you have indicated that
4		you are board certified in internal medicine?
5	A	That is correct,
6	Ş	And you have \mathbf{a} subspecialty certification in pulmonary
7		disease and also critical care?
а	Ŧ	That is correct.
9	2	What is required in order to obtain ${f a}$ subspecialty
10		certification, beyond normal board certification in
11		internal medicine?
12	۲.	A fellowship and then passing a subspecialty board exam.
13	!	Is these a time period that you have to put in in ${f a}$
14		fellowship $that$ is required by the board before
15		certification, is it like ${f a}$ number of years, months,
16		certain amount of research?
17		Most pulmonary fellowships are two to three years, and
18		there are basic requirements, which I don't have off the
19		top of my head.
20	Q	So the two fellowships that you served, or rather the
21		Parker B. Francis fellowship, would that be what then
22		qualified you to become certified in pulmonary disease?
23		No, the Parker B. Francis Foundation fellow was
24		concurrent with my fellowship in pulmonary medicine at
25		the University of Arizona. That was a source of some of

		6
1		the funding and I did some of the research my second
2		year.
3	2	So that would have been what the board considered when
4		they were deciding if you could be certified in
5		pulmonary medicine, that particular fellowship?
6	A	The fellowship in pulmonary medicine ${f at}$ the University
7		of Arizona is the important one.
8	2	How about for critical care, what would be the
9		requirements to become certified in critical care?
10	A	At the time I took the \mathbf{boards} you had to \mathbf{have} a
11		fellowship in one of several subspecialties, It could
12		be pulmonary medicine, it could be cardiology, and then
13		pass a subspecialty board. Critical care was a new
14		specialty at that time with a new board.
15	Q	Are you indicating that you took a test, then?
16	A	Yes.
17	Q	And then in addition you had completed a fellowship in a
18		subspecialty, and that qualified you?
19	A	Correct, plus practice experience.
20	Q	Now,,you are currently a Clinical. Professor of Medicine
21		at Michigan State University, is that correct?
22	Α	Correct.
23	Q	What are your duties and responsibilities in regard to
24		that particular professorship?
25	A	Primarily to teach medical students, interns and

.

ſ

residents. ${\tt I}$ also coordinate the teaching curriculum ${\tt I}$ n
pulmonary and critical care medicine.
Do you do formal classroom teaching?
Do some conference work and bedside round teaching,
But you don't have classroom responsibilities, as far as
lecture and instruction?
Correct.
As a coordinator of the pulmonary component of $that$
program, what do you do?
Basically I make sure that the material regarding
pulmonary medicine ${\sf i}{\sf s}$ covered adequately and that the
residents are getting appropriate experience, that the
literature is updated, things like that.
You also note on your vitae that you are an instructor
at Kalamazoo Valley Community College, and what are your
duties and responsibilities in relation tu that
position?
Generally I end up giving one or two lectures a year to
the respiratory therapy students.
Have you ever lectured or taught on the subjects of
congestive heart failure or pulmonary edema?
In our discussions in rounds we often talk about those
issues.
2 This would be informal discussions, though?
Most of them informal discussions. I may have talked at

	L
1	
_	L

a conference about that.

-		
2	1	Would you have any outlines or notes from any of these
3		discussions or lectures that you produced?
4	A	No, I do not. Most of them are done spontaneously.
5	2	You have also indicated that you have some research
6		activities on your vitae, major interests, I believe,
7		major research interests?
8	4	Most of those were back during my fellowship. I have
9		not really done any research as ${f a}$ practicing physician.
10	2	So currently you are not actively involved in research?
11	A	Correct.
12	3	Have you in the past done any research on the subject of
13		congestive failure or pulmonary edema?
14	4	No, I have not.
15	2	Okay. Do you have any type of publications or papers
16		that are currently being prepared or have been submitted
17		for publication and have not been published?
18	A	No, I do not.
19	2	Have you ever had your deposition taken before, Doctor?
20	A	Yes, I have.
2 1	2	In what type of a circumstance?
22	A	I have had several depositions in cases regarding
23		workmen's comp with patients of mine. I have also done
24		a few depositions regarding malpractice cases.

25 Q Where you were consulted as an expert?

1	А	That is correct.
2	Q	I will ask you some more questions about those in a
3		minute. The cases that you have acted a a medicolegal
4		expert, how many times would you say that you have done
5		that?
6	A	I think to the best of my recollection I have done it
7		three times.
8	3	How many have you done in the last year, would you say?
9	A	None.
10	3	Of the three that you have done, what was the breakdown
11		as far as for plaintiff or for defendant?
12	A	All three were for the defendant.
13	3	Wave you ever given testimony in any ${\sf case}$ similar to the
14		subject matter of this case?
15	4	No, I don't believe I have.
16	2	Have you ever testified in open court as a medical
17		expert?
18	4	One time.
19	Ş	And what type of case was that?
20	A	That was a case involving a pulmonary embolism.
23.	2	And I take it was that one of the ones you had done
22		for a plaintiff or defendant in a malpractice case , or
23		was that one of your workers' comp cases?
24	A	That was for the defendant.
25	2	Have you reviewed other cases for Dr. Skiver, other than

		1
		this one?
	A	One other case,
	Q	What type of case was th t?
2	А	That was the pulmonary embolism case.
c	Q	Okay. Have you reviewed cases for anyone else at Dr.
E		Skiver's law firm?
7	A	No, I have not.
a	Q	Do you provide your name to any of the national service
9		available throughout the country that does medicolegal
10		reviews, offering your services for a fee?
11	A	No, I do not.
12	Q	How were you first introduced to Dr. Skiver?
13		${f I}$ met Dr. Skiver many years ago when I was a resident
14		and he was a resident a year ahead of me.
15	Q	And where was that?
16		At St. Joe's in Ann Arbor.
17	Q	How long did you work with Dr. Skiver?
18		We overlapped for over a year, and I worked directly
19		with him for a couple months, I think.
	II _	

Was that the residency you served for your internal 20 Q 21 medicine --

Internal medicine, that is correct. 22 A

23 Okay. How would you term your relationship with him? Q 24 Professional. A

Did you have any type of social relationship with him at 25 Q

national services

	11
	all as friends?
4	No, we did not.
2	Aft-r you finish ed your residency did you h ve an y
	further professional contact with Dr. Skiver?
A	Not until that one case that he called me up about many
	years later,
2	When did you do that case, that was within the last year
	for Dr. Skiver, the pulmonary embolism case?
4	A couple years, two years ago. Was it?
	MR. SKIVER: At least.
A	Maybe more.
3	When were you first contacted by Dr. Skiver in regard to
	this case ?
A	I can't remember the date.
	Approximately?
A	A few months ago.
2	I believe that your report is dated April 11 of 94; is
	that any help in determining when you were contacted?
А	Probably a little before that.
ן גען	Several weeks or months?
A	Probably a few weeks before. He asked me to review the
	case.
Q	And when you were contacted, what assignment did
	Dr. Skiver give you?
A	He just asked me to review the case and tell him what I
	2 4 4 3 A 2 A 2 A 2 A

			12
I		thought.	ΤZ
2	Q	Doctor, what is your usual charge for doing a	
3		medicolegal review?	
4		250 dollars an hour.	
5	ł	Have you ever been named as a defendant in a medical	
6		malpractice suit?	
7	L	Yes.	
8		MR. SRIVER: Objection. Go ahead.	
9	L.	Yes.	
10	2	Is that suit currently pending	
11		MR. SRIVER: Just a continuing objection.	
12	¥.	There is a suit against our group that is currently	
13		pending.	
14	2	Is there more than one suit?	
15	7	No.	
16	2	Was that suit filed here in Michigan?	
17	¥	That is correct.	
18	5	In Kalamazoo?	
19	A	I think so, either Kalamazoo or a small outlying	
20		community.	
21	2	Were you a treating physician in that case?	
22	A	No, I was not.	
23	ð	Consulting physician?	
24	A	No, I had nothing to do with that individual patient.	
25	Q	So in this instance, then, the suit is against the gr	oup

.

			13
1		practice	13
2	4	Correct.	
3	A	but not against you as an individual?	
4	4	That is correct.	
5	2	What is the subject matter of the suit?	
6	4	They allege that an abnormal chest x-ray was not	
7		appropriately followed up.	
8	2	Do you know who the plaintiff's attorney is in that	
9		case?	
10	4	No, I do not.	
11	2	Do you know the name of the plaintiff?	
12	4	No, I don't. I don't know that, either. I have seen	
13		it, but I can't recall it.	
14	2	Have you authored or coauthored any medical journal	
15		articles or textbooks chapters on the subject of	
16		congestive failure or pulmonary edema?	
17	A	No, I have not.	
18	2	Other than the papers and abstracts and monographs	
19		listed on your vitae, do you have any additional	
20		publications?	
21	А	No, I do not.	
22	Q	Of the ones that are listed under the bibliography on	
23		your vitae, do any of these pertain to the subject of	
24		congestive heart failure or pulmonary edema?	
25	A	No, they do not.	

.

		14
1	Q	Have you ever submitted any articles for publication in
2		a journal of cardiology?
3	А	No, I have not .
4	Q	Doctor, you don't hold yourself out as a specialist in
5		the field of cardiology, do you?
6	Α	No, I do not.
7	Q	And you have never completed a residency for
8		specialization in cardiology?
9	A	No, I have not.
10	2	And you haven't done any research in the field of
11		cardiology or published in any recognized cardiology
12		journals, is that correct?
13	4	That is correct.
14	2	Would you defer to the expertise of a cardiologist in
15		regard to diagnosis and treatment of cardiac conditions?
16		MR, SXIVER: Objection. Are you talking about
17		congestive heart failure, the subject of this matter, or
18		coronary artery disease or what?
19		MS. TOSTI: I'm speaking in general, with
20		regard to cardiac conditions in general.
21		MR, SKIVER: Any type of cardiac condition,
22		okay.
23	r	Not all cardiac conditions.
24	2	There are specific cardiac conditions that you would
25		defer to a cardiologist?

	15
A	There are some that I might, yes.
2	In regard to congestive heart failure and pulmonary
	edema, would you defer to the expertise of a
	cardiologist in that area?
A	In general not, unless there is some complicating issue
	that I felt I needed a cardiologist.
2	Can you give me an example of what those complicating
	issues might be?
А	A person had severe valvular disease that might need
	invasive diagnostic testing, something like that.
Q	What have you reviewed for your deposition today?
А	I have not reviewed anything specifically for the
	deposition.
a	In regard to this case have you reviewed the medical
	records?
A	I reviewed the medical records, yes.
Q	Have you reviewed the depositions of any of the
	defendants in the case or plaintiff's expert?
A	I reviewed the depositions of the two defendants, the
	plaintiff's expert and several nurses, I believe.
Q	Have you reviewed the depositions of either the
	plaintiff or the plaintiff's daughter?
A	I have not reviewed those.
Q	In your review of this case for Dr. Skiver, did you
	refer to any textbooks or articles?
	2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A

,

*

		16
1	A	No, I did not.
2	2	And I assume that is true for preparation for this
3		particular deposition, that you did not review any
4		textbooks or articles?
5	A.	That is correct.
6	5	Have you done any research into the medical literature
7		relative to this case?
8	A.	No, I have not.
9	2	Have you consulted with any other physicians in
10		preparation for this deposition, other than Dr. Skiver?
11	A	No.
12	2	Do you have any personal notes or a personal file on
13		this case?
14	A	No, I do not.
15	Q	Is there a textbook that: is considered to be the leading
16		textbook in the field of pulmonology?
17	A	I don't think there is I don't consider any textbook
18		a leading book or authoritative.
19	Q	Is there one that is used frequently or one that you use
20		in the clinical area in the teaching capacity that you
22		have?
22	A	There is not one particular textbook that I use or
23		recommend.
24	Q	You don't have a recommended text for the individuals
25		that are serving a residency in pulmonology?

•

•

1		17
1	A	Well, we don't have any residents or fellows in
2		pulmonology, we have internal medicine residents, and
3		they generally use the textbooks of internal medicine.
4	Q	What would be a couple of the ones you have seen used by
5		the doctors in your program?
6		MR. SKIVER: Objection, relevancy. Go ahead.
7	A	Well, there are several textbooks of internal medicine
8		that are available. There is Harrison's, Cecil's,
9	Q	Let me stop you, Doctor. Is there any in the field of
10		pulmonology, specifically pulmonology that are used?
11	A	There are several textbooks in pulmonology that are
12		available. Frazier and Peret is one, and there is a few
13		other authors. There are several others. Baum is one.
14		There are several texts available.
15	Q	Is there a text that is considered to be the leading
16		text in the field of critical care?
17	A	There are several.textbooks, none that I ${\bf know}$ of as
18		being necessarily a leading text or a better text.
19	Q	Are there any that you refer to in your clinical
20		practice?
21	A	There is none that I refer to on a regular basis. I
22		have looked at individual books occasionally.
23	Q	Can you tell me what those might be?
24	A	Would you believe me if I told you I don't recall the
25		authors. I usually go down to the library, and there

		18
1	I	are a couple new textbooks of critical care I have
2		puffed out on occasion. I can't remember who the
3		authors are now.
4	2	That is fine, Doctor , if you can't remember, just tell
5		me you don't remember. We will \mathbf{go} on to the next thing.
6		What medical journals do you currently subscribe to?
7	A.	I subscribe to Chest, the American Review of Pulmonary
8		and Critical Care Medicine and the New England Journal.
9	2	Do you have any association with the PIA Insurance
10		Company?
11		MR. SKIVER: Objection. Go ahead.
12	Ŧ	No, I do not.
13	2	Are you or have you ever been an insured of PIA?
14	ł	No, I have not.
15	5	Prior to accepting this case for review , did you have
16		any contact with Dr. Winland or Dr. McLoney, did you
17		know them either professionally or personally?
18	Ŧ	Not at all.
19	2	Doctor, could you tell me what congestive heart failure
20		is?
21	7	Congestive heart failure is the inability of the heart
22		to pump blood adequately, leading to increased pressures
23		in the pulmonary vasculature.
24	2	And what are some of the factors that would put a
25		patient at $risk$ for the treatment of congestive heart

. •

!

		19
1		failure?
2	A	People develop heart failure one of the most common
3		is ischemic heart disease, coronary artery disease,
4		significant or severe valvular disease, chronic
5		obstructive pulmonary disease.
6	Q	Any others that you can think of?
7	A	Those are the major ones,
8	Q	Would hypertension increase an individual's risk for the
9		development of congestive failure?
10	A	Hypertension can, yes.
11	Q	How about diabetes?
12	A	Diabetes leads to an ischemic heart, so yes, that could.
13	Q	How about electrolyte imbalance?
14	А	I'm not aware of any electrolyte imbalance leading to
15		heart failure.
16	Q	When a patient first starts to develop signs of
17		congestive heart failure, what are the ones that are
18		most commonly seen?
19	A	Congestive heart failure can be manifested by shortness
20		of breath, edema, sometimes just chronic sometimes
21		fatigue can be a presenting sign of heart failure.
22	Q	And then as the symptoms progress, are there any other
23		symptoms or signs that would become evident?
24	A	Well, those can become worse. People sometimes will
25		wake up in the middle of night short of breath, and

1		20 those symptoms basically progress.
2	2	Is orthopnea associated or consistent with congestive
3		heart failure?
4	A	Yes, orthopnea can be seen in congestive heart failure.
5	2	Are rales considered to be consistent with congestive
6		heart failure?
7	A	It is consistent with. It is commonly seen in many,
8		many things, but certainly one of the things is heart
9		failure.
10	2	It wouldn't be unusual to find those symptoms we have
11		just discussed, though, in a patient with congestive
12		failure?
13	A	No, it would not be.
14	2	Doctor, could you tell me what orthopnea is, what the
15		mechanism is that causes it?
16	¥	Orthopnea is shortness of breath in the recumbent
17		position. There is a couple different mechanisms. You
18		can have orthopnea based on pulmonary disease. When an
19		individual lies down, blood flow is redistributed to
20		areas in the lung that are poorly ventilated and they
2 1		become short of breath.
22		In congestive heart failure, similarly you can
23		have redistribution of blood to areas that are poorly
24		perfused I mean poorly ventilated, leading to
25		shortness of breath, and pulmonary artery pressures can

f

	21
	go up in the recumbent position. 21
Q	Then when the patient goes into an upright position they
	achieve some measure of relief from the shortness of
	breath if they have orthopnea?
A	Correct, either pulmonary or cardiac orthopnea can be
	relieved in the upright position.
Q	What is pulmonary edema?
A	Pulmonary edema is the filling of alveoli, air sacs ,
	with fluid.
Q	And how is it differentiated from congestive heart
	failure?
А	It is sort of the end stage of congestive heart failure,
	end in the sequence of the things that happen,
Q	So would it be fair to say that that congestive heart
	failure and pulmonary edema are on a continuum, with
	congestive heart failure leading into pulmonary edema at
	the more advanced serious stage?
A	That is correct, if you are talking about the cardiac
	cause of pulmonary edema. There are non-cardiac causes,
	but if you are talking about just the cardiac causes,
	that is basically severe congestive heart failure with
	flooding of the alveoli with fluid.
Q	What are some of the signs and symptoms of pulmonary
	edema?
A	Severe shortness of breath, severe tachycardia,
	А Q A Q А

		22
1		sweating. Often the patient will be coughing frothy
2		sputum, sometimes pink colored.
3	2	Do you see wheezing with pulmonary edema?
4	¥	Occasionally see wheezing, yes.
5	2	What is the cause of the wheezing?
6	7	It is thought that you have edema of the airways and
7		that can lead to some narrowing of the airways and
8		develop a wheeze. There are probably other mechanisms
9		involved.
10	5	Elements of bronchospasm?
11	¥	Edema of the airway leading to bronchospasm.
12	5	Would you agree that pulmonary edema is considered to be
13		a medical emergency?
14	Ŧ	Carefully defined, not used in slang, but as sometimes
15		doctor's use it, yes .
16	2	And that it would require immediate intervention,
17		correct?
18	4	Intervention of some type, yes.
19	2	And that \boldsymbol{a} patient in pulmonary edema would require
20		close medical management?
21	A	Require medical management. What do you mean by close
22		medical management?
23	Ş	That the patient would have to be watched very carefully
24		for any changes in condition, and monitored very
25		carefully to determine what the appropriate treatment

	23
	would be <i>for</i> the patient.
	What do you mean by carefully? I'm not sure what you
	mean by the term carefully.
!	Would you agree that this patient would need observation
	on a continuous basis if they are in pulmonary edema?
	MR. SKIVER: Which patient, a patient in
	general?
3	A patient in pulmonary edema would require constant
	observation to be watched for possible changes in
	condition?
1	I think the patient would need to be frequently
	monitored by nursing personnel. How frequent would
	depend on the severity.
2	Can you give me at least a gauge as to what you mean by
	frequent?
A	What do I mean by frequent?
2	Hourly?
A	Hourly may be adequate, maybe more frequent than that.
2	Patients that have pulmonary edema can deteriorate very
	rapidly, can't they?
А	They certainly can get worse in a pretty rapid sate.
	Yes, that certainly is possible.
Q	How is pulmonary edema diagnosed?
A	It is diagnosed clinically by the way I described the
	symptoms. chest x-ray is helpful in providing some
	Σ Σ Α Ω Ω

		24
1		information. Primary a clinical diagnosis.
2	S	Would blood gases be useful?
3	A	Blood gases may or may not be abnormal. There is
4		nothing specific about blood gases that will tell you
5		someone has pulmonary edema.
6	Q	Would a chest x-ray be the definitive test for
7		determining whether a patient has pulmonary edema?
8	A	No, I don't think a chest x-ray is definitive, it is one
9		piece of information.
10	3	Generally how is pulmonary edema treated?
11	A	It is treated with diuretics, reduce fluid, get the
12		individual to get rid of some fluid, Sometimes it is
13		treated with drugs to decrease the resistance. If there
14		is hypertension, that is treated. Primarily the initial
15		treatment is diuretics.
16		MR. SRIVER: Just for clarification, we are
17		talking cardiac here, correct?
18		MS. TOSTI: Yes.
19	Q	As far as the diuretics, what type of diuretics are used
20		to treat pulmonary edema?
21	A	Most any diuretic. Furosemide, which is Lasix, is one
22		of the more common ones. There are others.
23	Q	How are those usually given, orally or IV?
24	A	They can be given intravenously. Usually they are given
25		intravenously in the hospital setting.

!

	25
2	Is oxygen utilized in the treatment of pulmonary edema?
L	In most cases oxygen is administered.
5	What about cardiac monitoring?
L.	Cardiac monitoring can be used.
5	Would you say that in most instances cardiac monitoring
	is used in the treatment of acute pulmonary edema?
Ŧ	In severe acute pulmonary edema, I think that is
	probably true.
2	In most instances of pulmonary edema that you have seen
	clinically, is cardiac monitoring used?
7	The way ${\tt I}$ use pulmonary edema, edema the way I described
	it, yes.
2	And is hemodynamic monitoring used in the treatment of
	patients with pulmonary edema?
7	It can be.
2	And in most of the patients that you see clinically is
	hemodynamic monitoring used in the treatment?
A	NO.
2	Would you agree that patients with pulmonary edema are
	at increased risk for cardiac arrhythmias?
A	I think that is true.
Q	And that would include increased risk for ventricular
	arrhythmias, wouldn't it?
A	Any type of arrhythmia.
Q	Would you also agree that ventricular arrhythmias can be
	L 2 L 2 L 2 L 2 L 2 L 2 L 2 L 2 L 2 L 2

	26
	life threatening?
A	I would agree with that.
Q	So if a patient is diagnosed with acute pulmonary edema,
	wouldn't it be prudent to place the patient on a cardiac
	monitor to observe €or arrhythmias?
A	If the patient clearly had pulmonary edema by the
	criteria I discussed, I think that would probably be
	something 'chat I would do.
Q	Now, Doctor, you are currently engaged in active
	clinical practice, is that correct?
A	That is <i>correct</i> .
Q	How would you describe your current practice, is it
	limited to any particular patient population?
A	No, it is not limited by patient population. I do
	pulmonary medicine and critical care medicine.
Q	Do you do any general internal medicine?
A	A smattering, usually by default. That is patients
	without a general doctor I will do some of the general
	medicine.
Q	Is the majority of your practice confined to a critical
	care unit?
A	The majority of my practice is well, perhaps 30 to 40
	percent of my practice is critical. care, the other is
	non-critical care pulmonary medicine, either the
	hospital or the office.
	Q A Q A Q A Q A Q

\$

1	2	27 So you would be seeing pulmonary patients both in your
2		office and also on a consult \mathbf{basis} here in the hospital?
3	Ł	Correct.
4	2	As far as the critical care patients, these are patients
5		that are haspitalized patients that you are caring for?
6	<u>د</u>	In the critical care unit, yes.
7	2	What is the size of your critical care unit?
8	x	We have eight beds in the Medical Intensive Case , we
9		also see some patients in the Cardiac Care Unit. I
10		think there are seven beds in the cardiac unit.
11	2	Do you have any management or administrative
12		responsibilities for the ICU?
13	7	Not directly. My partner is the Medical Director of the
14		Medical Intensive Care Unit, so we fill in for him when
15		he is not around.
16	2	And how about with the cardiac unit, do you have any
17		management responsibilities?
18	A	I have no management responsibility in the cardiac unit.
19	2	As far as the patients that you see in the coronary care
20		unit, are you called in these or a consulting basis, or
21		do you have any regular responsibilities as far as
22		overseeing patient care in that unit?
23	A	Patients I see these are usually either patients I have
24		been called in to see in consultation or occasionally
25		one of my patients will be put up there for lack of ${f a}$

ł

		28
1		bed someplace else.
2	Q	Do you see patients with congestive heart failure
3		routinely in your clinical practice?
4	A	Yes, I do.
5	Q	How many patients in the last year have you had primary
6		responsibility for management and treatment of
7		congestive heart failure, just an estimate?
8	A	A hundred.
9	2	Again, how many patients in the last year have you seen
10		and had primary management responsibility that have been
11		diagnosed with pulmonary edema?
12	7	Oh, perhaps a dozen.
13	2	Now, these patients with pulmonary edema, were the
14		majority of them in the ICU that you are describing?
15	Ł	The ones with pulmonary edema, the majority were in the
16		ICU, yes.
17	?	And the patients that you described with congestive
18		failure, were these hospitalized patients or were these
19		patients that you were seeing in your clinical practice
20		in your office, the majority of them?
21		Well, congestive heart failure patients I see in the
22		office, I see some in the hospital. You know, most of
23		them are in the hospital, some I treat as outpatient.
24		Have you had any patients in your critical care unit in
25		the last month that have had congestive heart failure?
	•	

		29
1	Ł	I'm sure we have. I have been away for a couple of
2		weeks, but we almost always have somebody with
3		congestive heart failure.
4	2	Would these patients be on cardiac monitors?
5		MR. SKIVER: Objection. Go ahead.
6	1	All of the people in the intensive care unit are on
7		cardiac monitors.
8	2	And would any of these patients have been managed
9		hemodynamically with Swan-Ganz catheters?
10	7	It is not uncommon to have Swan-Ganz catheters in for
11		various reasons.
12	2	Doctor, how many cases have you managed where there was
13		congestive heart failure combined with dehydration and
14		electrolyte imbalance?
15	J	Well, I see a lot of congestive heart failure and
16		electrolyte imbalances. I have seen a few people who
17		have come in dehydrated and developed congestive heart
18		failure.
19	ç	When you say a few, can you put a number on that?
20	A	That is hard.
21	Q	More or less than five?
22	A	Oh, more than that. Over the last year, ten, maybe. It
23		is hard to say.
24	Q	Would you agree that early detection and diagnosis of
25		congestive heart failure increases the success of

ł

		31
1		cardiac asthma with a patient that has congestive heart
2		failure?
3	A	Again, I it is not terribly common. It happens, I
4		see it every year a few times. It is not the most
5		common presentation of heart failure.
6	Q	What are rales?
7	A	Rales are sounds that axe probably made by expanding
8		alveoli or actually the $$ actually, that is a very good
9		question. There is a lot of debate as to what rales
10		are. People have been debating that since I was a
11		fellow, and what causes rales. It used to be thought it
22		was the opening of the alveoli, but ${\mathbf i}{\mathbf t}$ is probably not
13		the opening of the alveoli. It probably has to do with
14		stiff interstitium, the area between the alveoli. They
15		are crackly sounds that are heard in the lung,
16	Q	And would you agree that it is not usual to find rales
17		in the chest of a patient that has congestive heart
18		failure?
19	A	That is correct. Rales can be heard very commonly in
20		all sorts of disorders, heart failure is one of them.
21	Q	Would you agree that in severe congestive heart failure
22		it is common to find rales in the chest?
23	A	Yes, I would.
24	Q	Infiltrations in the chest are usually seen on chest
25		\mathbf{x} -ray before rales are actually heard in the chest,

,

1		30 treatment?
2	A	Idon't have any data to support that. Idon't know of
3	*	any data that necessarily supports that.
4	Q	What does dyspnea on exertion mean?
5	A	Shortness of breath on exertion.
6	Q	So it is short of breath or problems breathing that is
7		associated with activity, correct?
8	A	Correct.
9	Q	And this particular type of shortness of breath is only
10		seen when the patient is doing some type of activity,
11		and that when they are at rest they are not having any
12		difficulty breathing?
13	A	By definition short of breath with activity is shortness
14		of breath with activity.
15	Q	So it would be an intermittent type of breathing
16		problem?
17	A	With activity.
18	Q	Have you heard the term cardiac asthma before?
19	A	Yes, I have.
20	Q	Could you tell me what that means?
21	A	Basically wheezing associated with heart failure.
22	Q	And you have seen that associated with congestive heart
23		failure?
24	A	Yes, it can be.
25	Q	And would you also agree that it is not unusual to find

• • •

Ć

		32
1		isn't that correct?
2	Ł	Infiltrates before the rales?
3	2	Yes.
4	7	No, I think that is incorrect.
5	2	So it is your opinion that rales will be heard before
6		you will see evidence of it on chest x-ray?
7	Ŧ	I think that's true.
8	2	What is hypoxia?
9	Ŧ	Low levels of oxygen in the blood.
10	5	And what is the effect of hypoxia on cardiac function?
11	7	Hypoxia can depress cardiac function.
12	5	And would you agree that hypoxia increases the risk of
3.3		ventricular arrhythmia?
14	Ŧ	Yes, I would.
15	2	And would.you an also agree that hypoxia can cause a
16		patient to become confused?
17	4	That is possible.
18	2	Have you, in your practice, seen patients who have
19		developed hypoxia as a result of congestive heart
20		failure?
21	A	Pes, I have.
22	2	Would you agree that when ${f a}$ patient has multiple risk
23		factors for congestive heart failure, and then develops
24		shortness of breath, rales and wheezing, that the
25		physician has a duty to rule out congestive heart

i

		33
1		failure in that patient?
2		What do you mean by duty?
3		The standard of care would $\operatorname{\textbf{require}}$ that the physician
4		rule out congestive failure, if that patient has known
5		risk factors for congestive heart failure and is
6		exhibiting shortness of breath, rales and wheezing?
7		I think with shortness of breath, rales and wheezing the
8		patient needs to be evaluated. One of the things he
9		would look for is heart failure.
10	2	So that would be within the differential diagnosis that
11		the doctor would make?
12	4	with those symptoms, yes.
13	2	And with multiple risk factors \mathbf{cor} congestive failure?
14	A	I think that is part of it. With or without risk
15		factors, I think that is in the differential diagnosis
16		of those symptoms that you included.
17	2	So even without the risks factors, if the patient is
18		exhibiting those signs and symptoms you would rule
19		out
20	A	If we are talking about an 18 year old that is otherwise
21		healthy and has those symptoms, I guess I would put it
22		low on the list of things to look for. Again, as you
23		describe those symptoms, heart failure has got to be the
24		differential diagnosis.
25	Q	Do you have an opinion \mathbf{as} to whether Mrs. Strong had any

1	2	35 Do you agree that on admission to the hospital that
2		Mrs. Strong had to be hydrated cautiously because of the
3		risk of developing congestive heart failure while
4		undergoing treatment for her dehydration and electrolyte
5		imbalance?
6	Ŧ	I think that is a fair statement.
7	2	So if Mrs. Strong developed signs of shortness of breath
8		and breathing difficulties after admission, CHF would
9		have to be included in the differential diagnosis for
10		that patient?
11	A	I would agree with that.
12	2	And would you agree that if she developed those
13		symptoms, that Dr. Winland and/or Dr. McLoney would have
14		the duty to rule out congestive heart failure, if
15		breathing difficulties did arise?
16		MR, SKIVER: Objection. Go ahead.
17	A	If she developed breathing difficulties, they had to
18		consider all possibilities, heart failure would be one
19		of them. I think they would need to proceed with their
20		best judgment based on the clinical picture.
21	2	Doctor, when \mathbf{you} have a differential diagnosis, that \mathbf{is}
22		a variety of diagnoses that could \mathbf{apply} to a patient at
23		a particular time, and then isn't the doctor's usual
24		manner of proceeding to rule out the diagnoses and
25		finally arrive at the most likely one?

1 2 3 A	34 risk factors for congestive heart failure at the time of her admission to Fisher-Titus Medical Center? She had mild coronary artery disease by a heart
3 A	She had mild coronary artery disease by a heart
- 11	
4	catheterization that was performed a year or two before.
5	So yes, she had diabetes, she had peripheral. vascular
6	disease, she had hypertension.
7 Q	Didn't she also have aortic stenosis?
8 A	The report was mild aortic stenosis. I don't know if
9	that was considered by the cardiologist to be clinically
10	significant aortic stenosis. I believe that it was not.
11 Q	So based on the risk factors that you have just
12	outlined, would you agree that Dr. Winland would have a
13	duty to watch Mrs. Strong for signs of congestive heart
14	failure after admission to the hospital?
15 A	I think that he has a duty to observe her for many
16	things. One of the things he needs to consider is
17	congestive heart failure.
18 Q	But in this instance, because of the risk factors, and
19	because she was at higher risk than an individual
20	without those risk factors, there was a duty to watch
21	very carefully for congestive heart failure in this
22	instance?
23 A	As I said., I think the prudent doctor would observe her
24	and treat her observe her for many things, heart
25	failure being one of them.

		36
1	А	The usual thing to do is to examine the patient, assess
2		the information you have, and based on the information
3		you have make a decision on what the most likely
4		problems are and what the most likely diagnoses are and
5		proceed from there. You don't have to rule out every
6		possible diagnosis. You don't have to do every
7		conceivable test to rule something out.
8	Q	Well, Doctor, when do you choose to do a diagnostic test
9		to rule out one of those diagnoses included in the
10		differential?
11	A	When you make assessment of the patient based on your
12		observations and make a clinical decision on what the
13		appropriate action would be.
14	2	Now, would you agree that a chest x-ray would be helpful
15		in ruling out congestive heart failure a5 a cause of
16		breathing difficulties?
17	A	I think it is helpful at times.
18	3	Isn't a chest x-ray the most frequently used initial
19		diagnostic study when a physician wants to rule out
20		congestive heart failure?
21		MR. SKIVER: Objection, calls for speculation.
22		Go ahead-
23	A	I have not seen any studies that said that. It is
24		commonly used, but whether it is the most commonly used,
25		I don't know.

.
		37
1	Q	In your practice is the chest x-ray most frequently used
2		in initial diagnostic studies when a physician, or when
3		you want to rule out congestive heart failure?
4	A	It may be one of the most common ones, yes. You are
5		talking about studies, other than examination?
6	Q	I'm taking about diagnostic studies.
7	A	Other than physical examination and history, $x-ray$ is
8		very common, yes,
9	Q	In your review of the records, were you able tu
10		determine if Mrs. Strong had a history of congestive
11		heart failure $prior$ to her admission to the hospital in
12		November of '91?
13	A	I saw some comments made about possible heart failure in
14		the $past$. I had no objective data from the stuff that I
15		reviewed that there was heart failure.
16	Q	Did you find any indication in the hospital report that
17		Dr. Winland changed or corrected his admission note or
18		progress note opinion that Mrs. Strong had a history of
19		congestive heart failure?
20	A	I believe in one of the depositions, it may have been
21		Dr. Winland's, there was some discussion
22	Q	Doctor, I'm asking in regard to the hospital
23		records, if you found any discussion that he changed his
24		initial opinion from what he stated in his admission
25		note or his progress note?

.

•

		30
1	A	Opinion ragarding what, again? I'm sorry.
2	Q	Regarding whether or not Mrs. Strong $had\ a$ history of
3		congestive heart failure.
4		I can't recall if there was a change. I remember
5		reading ${f a}$ note saying she had to be hydrated carefully
6		because of history of failure. That is what I remember.
7		I don't remember if that was a change or not.
8	!	So you would agree that the medical record indicates,
9		the hospital record indicates that Mrs. Strong had a
10		history of congestive heart failure?
11	.	I mentioned that note by Dr. Winland suggesting that she
12		had a history of it.
13	2	Do you have an opinion as to what point in time
14		Mrs. Strong began exhibiting signs and symptoms of
15		congestive heart failure?
16	¥	Well, she
17		MR. SKIVER: Do you want to look at the
18		records?
19	Ŧ	Let me take a look and see. I'm trying to think of the
20		time here. At $7 p.m$, on the 28th Dr. Winland described
21		shortness of breath and hypoxia, chest x-ray which he
22		interprets as consistent with CHF. So certainly at that
23		point I would agree that she had CHF.
24	Ď	At any point prior to that, in your opinion, was
25		Mrs. Strong exhibiting signs of congestive heart

failure?

1

She had intermittent signs of shortness of breath, which
conceivably could have been construed as heart failure.
I think she received some Lasix the night before, so it
is possible that she had some mild heart failure at that
time.

7 2 In your evaluation of the chart was it your opinion that
8 she was exhibiting signs of congestive failure prior to
9 that 7 p.m. note that you just indicated?

Well, she had some signs that would be consistent with
failure and consistent with other things. I think the
doctor on call felt that she may have had heart failure.
I assume that is the reason he gave her Lasix.

14 2 And Doctor, if you did indeed believe that she was
15 exhibiting signs of congestive failure, wouldn't it have
16 been prudent to order a chest x-ray at that time to rule
17 out congestive failure?

18 A Not necessarily, depending on the clinical situation,
19 what the patient looked like, your examination of her,
20 et cetera.

21 2 Since you have the medical records in front of you, I
would like you to take a look at the nurses' notes on
the morning of November 27th, 1991. If you could, tell
me what you think was causing her dyspnea early in the
morning that the nurses are charting.

		40
1		MR. SKIVER: At what point in time?
2		MS. TOSTI: I believe it is the initial note
3		the nurses write, where she states that the patient is
4		complaining of feeling short of breath when she exerts
5		herself.
6		MR. SKIVER: Is that at 0900?
7		MS. TOSTI: Yes.
8	P	Well, I don't know what is causing that. She has a lot
9		of pain, I guess as described. I don't know for certain
10		what is causing that shortness of breath.
11	ç	If Mrs, $Strong$ had been having pain for several weeks
12		prior to admission from her herpes zoster
13	1	I understand she was having pain.
14	ς	And at the time of admission, was there any indication
15		that she was having shortness of breath?
16		MR. SKIVER: Objection.
17	1	I guess I would have to look back at the initial note,
18		if there was mention of shortness of breath at the time.
19		Is this 0900 on the 27th?
20	ς	I believe it is the morning of the 27th.
21	i i	I don't recall seeing a comment about shortness of
22		breath on admission. I would have to double check, go
23		through it, but offhand I can't recall mention of that.
24		So, Doctor, if there is no indication in the chart that
25		she had shortness of breath on admission, and this is a

		41
1		new finding, you would agree that this is a change in
2		her condition?
3		MR. SKIVER: Objection.
4	Ŧ	If it really is a new condition. I mean, by definition
5		if it is new , it is new.
6	2	I would be happy to wait while you take a look at the
7		admission note and the emergency room record.
8		MR. SKIVER: That is assuming there are nu
9		other I mean, the fact that she did not have chest
10		pain. You are just saying based upon the record.
11		MS, TOSTI: I am asking him the source of
12		complaint of shortness of breath, and if he has an
13		opinion. If he doesn't have an opinion, that's fine.
14	7	I don't know. Based on the information I have at this
15		point in time, I don't know what was causing her
16		shortness of breath. It could be many things.
17	2	Doctor, I would like you to assume that she did not have
18		shortness of breath on admission, and there was no other
19		documentation in the hospital record up to this point
20		that she had any shortness of breath. If at this point
21		in time, at 0900 on the 27th, she is now starting to
22		complain of shortness of breath on exertion, would this
23		raise a level of concern that she might be developing
24		early signs of congestive heart failure?
25	A	That could be one of the explanations for it, yes.

1	Q	Doctor, take a look at the documentation on 1400 on that
2		same page.
3	A	Okay.
4	Q	I believe the nurses have written, complaints of feeling
5		wheezing and wheeze her in the left lower lobe on
6		osculation, Do you have an opinion as to what was
7		causing that particular problem?
8	A	Again, a lot of things can be causing wheezing. If you
9		are trying to get at is this cardiac asthma, general
10		cardiac asthma is heard diffusely, not localized.
11		Localized wheezing $could$ be due to a lot of different
12		things.
13	2	Okay. In this instance, and I would like you to assume
14		again that that wheezing was not present on admission,
15		and this was the first indication of wheezing, would
16		that raise a Level of concern that she might be
17		developing congestive heart failure?
18	A	It might, it might. I'm not sure if that would be the
19		first things that I would think of, but it might.
20	2	I would like you to take a look at the note at 1530
21		hours, and the nurses have charted, complains of not
22		being able to breathe, wants her 02 repositioned with
23		the head of the \mathbf{bed} in high Fowler's, states she was
24		better able to breathe now. Would you agree that that
25		is a description of orthopnea?

		43				
1	а	43I would agree with that.				
2	Q	And would you also agree orthopnea is consistent with				
3		congestive heart failure?				
4	A	Yes, I would.				
5	Q	And would that raise your suspicion that she might be				
6		developing problems with congestive heart failure?				
7	A	It would.				
8	Q	Doctor, did you have an opportunity to review				
9		Mrs. Strong's intake and output records?				
10	A	Yes, I did.				
11	Q	And do you have an opinion as to whether or not she had				
12		an excessive positive fluid balance?				
13	A	I think that is very hard to say.				
14		MR. SKIVER: Wait a minute. At what point in				
15		time?				
16	2	How about on the 27th? I believe there is nursing				
17		documentation				
18	A	I will have to look at that specifically.				
19	2	This is the page I am interested in. I believe it is				
20		from the 27th.				
22	A	Well, it is difficult to say, because she is incontinent				
22		of urine, so it is hard to know.				
23	2	If you take a look at the nurses' notes from that day, I				
24		believe that the nurses indicate one episode of				
25		incontinency of ${\tt a}$, I believe it is, small amount of				

		4 4
1		urine.
2		MR. SKIVER: Just to clarify a point. Are we
3		talking about the I and O for that date, or her general
4		fluid status considering all things?
5		MS. TOSTI: I would like to talk about the I
6		and O for that particular day.
7		MR. SKIVER: Okay.
8	2	Doctor, I would like you to assume that she was
9		incontinent one time of a small amount of urine, without
10		having it indicated as to what that small amount is.
11		Looking at this fluid balance, which the nurses have
12		charted an intake of 2,989 CCs, and an output of I'm
33		not sure if that is 450 or 460. Would that particular
14		fluid balance increase your suspicion, coupled with the
15		things that we just reviewed, in regard to the shortness
16		of breath that she had, that this lady might be
17		developing congestive heart failure?
18		I think that is one thing you would have to consider.
19		We don't know what the amount of incontinence is. She
20		was supposedly dehydrated by a couple of observations,
21		so she might very well be down a couple liters of fluid,
22		plus her insensible loss, which could be, if she is
23		breathing fast, could be as high as a liter. I think
24		you can just look at that, that looks like it is way out
25		of balance, but it may not be,

45 Take a look at her respirations that are charted for 1 Q 2 that day, and the nurses have indicated she is running 3 between a respiratory rate of 16 to 20. Given that, and the other information that you have reviewed on this 4 chart, looking at that fluid balance, and considering 5 6 that she may have had one episode of incontinency of a small amount of **urine**, do you think that this fluid 7 8 balance is abnormal for Mrs. Strong? 9 MR. SKIVER: I'm going to object. If we are 10 talking about a point in time, or her general balance, 11 that is another question, so we can just clarify the 12 question. I am speaking of the 27th, the fluid balance €or the 13 2 14 date of the 27th, and whether seeing this would have 15 raised concern for this patient, considering that she 16 has had signs and symptoms of respiratory distress, and 17 in addition has a fluid balance of intake of 2989 and an 18 output of 450 or 460. 19 MR. SKIVER: Objection to the words 20 respiratory distress. Go ahead. 21 A I guess I would have to know, and it is hard not having 22 seen the patient, how dehydrated I thought she was. If 23 I thought she was two to three liters down, then that 24 would not concern me at all. 25 I believe the emergency room physician described her as 2

- 1
- mildly dehydrated.

2	A	That could be a liter, with a liter of insensible loss,
3		that is two liters, so she has got almost three liters
4		in, 460 out, maybe she had another, I don't know how
5		much, five, six, maybe she had a total of five or six
6		out, so maybe a liter: or 500 CCs to the good. Maybe
7		that is not so bad, again depending on how dehydrated he
8		thought she was,
9	Q	In your opinion, then, the discrepancy between the
10		intake and output on this particular day wouldn't

necessarily raise your level of concern that she mightbe developing congestive heart failure?

13 A Not necessarily. Again, depending on my clinical
14 assessment at the time, which obviously I can't make
15 just by looking at the records.

Would you agree from your review of the record that Mrs.
Strong was alert and oriented at the time she was
admitted to the hospital on the 26th?

19 A That is what it says, yes.

20 Q And that during the morning and through the afternoon of
21 the 27th she continued to be alert and oriented?

22 A That is correct.

23 Q Do you have an opinion as to what caused her confusion
24 on the evening of the 27th?

25 A That is hasd to say. Confusion is very common in the

	I	47
1		hospital in elderly people. People get confused when
2		they are in different environments. There is ${f a}$ slang
3		term that the residents use called sundowning. It is
4		not a term that I like to use, but residents use it. It
5		is basically something seen in patients when the ${\tt sun}$
6		goes down. I don't know what caused her confusion at
7		this time.
8	Q	You are talking like a translocation syndrome or
9		something?
10	A	I have not used that term. I'm not sure what that
11		means.
12	Q	Mrs. Strong didn't have that problem the previous night
13		on the 26th, is that correct?
14	А	I don't know, I don't think she had that the night
15		before. I would have to double check. Whether she did
16	an a	or not, again, it is hard to know exactly what caused
17		it. There are many causes of confusion, many possible
18		causes of confusion.
19	Q	And she was admitted to the hospital a month previous to
20		this and didn't have any problems with confusion, based
21		on the record ?
22	A	I don't know that. I don't think I reviewed her
23		previous admission, the prior admission,
24	Q	Doctor, if you had a patient that had previously been
25		admitted to the hospital a month before and had never

	1	
· . 1		48 had any problems with confusion, and had come into the
2		hospital and spent at least one night there and didn't
3		have any problems with confusion, would you still feel
4		that this lady may still be having this sundown syndrome
5		that you described?
6	7	That is possible, There are many possible explanations
7		for her confusion, as well.
8	2	But in this particular instance you don't have an
9		opinion as to what is causing her confusion?
10	<i>f</i>	It could be many things. It could be her low sodium.
11		She had a sodium that is low, and that certainly could
12		explain it.
13	2	But, Doctor', she was admitted with a low sodium and was
14		alert and oriented for more than 24 hours after
15		admission, so is it likely that that would have caused
16		her confusion?
17	7	I think so , at night especially. She was alert and
38		oriented the next day, too, so you have to say what came
19		on and what went away. She was oriented, she was
20		confused, and she was oriented. Something went, came on
21		and then went away. It is hard to tell what that was.
22	2	At what point are you saying she was oriented?
23	A	There are notes, I believe, by the physician saying she
24		was alert. It says alert and confused at times.
25		MR, SRIVER: That is on the 28th?

1	А	On the 28th.
2	Q	If you take a look at the nurses' notes, the nurses
3		chart throughout the day that she is confused, she is
4		seeing things, she is talking out of her head.
5		MR. SKIVER: Which date are we talking about?
6		MS. TOSTI: On the 28th.
7		MR. SKIVER: What is the question?
8		MS. TOSTX: Dr. Abraham indicated she had an
9		episode of confusion and the following day she was alert
10		and orientsd. I'm saying I don't find that in the
11		record, and I'm saying I would like him to show me where
12		there is indications that this lady was back to being
13		herself.
14		MR. SKIVER:, The record indicates confused at
15		times, which of course means she was alert at times.
16		MS. TOSTI: I'm looking at the narrative
17		notes.
18		MR. SKIVER: We are talking the 28th, the next
19		day.
20		MS. TOSTI: You are looking at a one time
21		assessment
22		MR. SKIVER: Your question was show you some
23		point in the chart, and here is a point in the chart.
24		We can banter back and forth, but
25	7	I guess I would say her confusion seems to be

j	inte	ermi	tt	ent	

		50
1		intermittent.
2	Q	Would you agree that after she developed the confusion
3		on the 27th, that she continued to be confused, at least
4		intermittently, after that?
5	A	Intermittently, and by definition she was not confused
6		intermittently. (sic)
7	2	Is there any clinical significance to ${\bf a}$ patient that is
8		observed picking at the air with their eyes closed?
9	A	Well, I have seen that in alcohol withdrawal, but I
10		don't think that was the case here. I don't know of
11		anything specific, other than the individual being
12	ľ	confused. Almost anything that causes neurologic
13		dysfunction could do that.
14	2	Including hypoxia?
15 15	A	It is possible.
16	3	Have you been told by anyone whether or not Dr. McLoney
17		was the individual that ordered nasal oxygen for
18		Mrs. Strong on the afternoon of the 27th?
19	A	I believe I saw an order for oxygen. I can't recall who
20		it was that ordered it offhand. Is there an order?
21	Ş	I was just wondering if you had been told in your review
22		of the case as to who wrote that order.
23	A	No.
24	₂	When Dr. McLoney was called on the evening of the 27th
25		at 10:35 at night, do you have an opinion as to whether

1		51 his actions that were taken at that time, if they were
2		appropriate?
3	Ā	Let me just double check and make sure which actions we
4		are talking about.
5	2	I believe the nurses gave him a call, it was about 10:30
6		at night, and then he gave some telephone orders,
7	A	I'm not sure I know which orders you are referring to.
8		The orders were discontinuing the Vicodin, it looks
9		like, and starting Darvocet. She was taking Vicodin,
10		and certainly codeine can cause confusion, so I think
11		that was an appropriate thing to do, stop the Vicodin.
12	2	Do you know when the last dose of Vicodin she had was?
13	A	I would have to look. You probably know that.
14	່2 	Is it likely, if she hadn't had that in the last six
15		hours, that it was causing her confusion?
16	A	Since the confusion was so intermittent, I think it is
17		certainly possible the Vicodin could be contributing to
18		it, even if it had been given in a few hours.
19	Q	Do you think at 10:30 at night that Dr. McLoney should
20		have come in and taken a look at Mrs. Strong, rather
21		than assessing her over the telephone, based on the
22		nurse's information?
23	A	Well, that is always a difficult: decision to make.
24		Depending on the nurses that you are dealing with, and
25		the information you are getting, things can often be

;

		52
1		handled over the phone. It is a judgment call. A lot
2		of it depends on the doctor's understanding of the
3		nurses and the ability of the nurses to assess and his
4		trust of the nurses. It is hard to say. It is a
5		judgment call that he made based on the information he
6		got from the nurses.
7	Q	Would you agree that it is important for a doctor to
8		know that ${f a}$ patient has risk factors for congestive
9		heart failure before ordering any type of medication for
10		the patient?
11	А	Any type?
12	Q	Yes.
13	A	No.
14	Q	In this instance do you think there is any problem with
15		changing the medications of Darvocet and Vicodin without
16		knowing that this patient also had risk factors for
17		congestive heart failure and had been exhibiting
18		breathing problems during the day?
19	A	I see no problem with discontinuing the Vicodin and
20		starting the Darvocet.
21	Q	Given the fact this lady had exhibited breathing
22		problems through the day, do you think that Dr. McLoney
23		was correct to make assessments over the phone, rather
24		than coming to see this patient?
25		Again, that is a judgment $\operatorname{\mathbf{call}}$ that he made based on his

-

.

1		53 knowledge of the nurses. That is a judgment call we all
2		have to make. I don't know the nurses, I don't know the
3		quality of the work they do. I assume he was satisfied
4		with that, so I would have to go along with that.
5	2	If you were managing this patient, would you have done
6		anything differently?
7	A.	That is very hard to say .
8	2	In regard to this particular instance.
9	7	Is this particular instance?
10	2	Yes.
11	7	Again, depending on some of our nurses are very good
3.2		and I would get enough information over the phone, then
13		I think I probably could manage that problem over ${f the}$
14		phone, A lot of times the nurses will tell me they
15		think I need to come in and see this guy, he is not
16		looking good. You rely a lot on the nurses if you know
17		them well, rely a lot on then.
18	2	I would like to you take a look at the nurses' notes
19		from November 28 at 0400.
20		MR. SRIVER: Let's make sure we have the same
21		page here, Jeanne. How does it start off?
22		MS. TOSTI: I may have the wrong number. It
23		is the morning of the 28th.
24	2	Doctor, I would like you to take a look at the nurse's
25		note written on the morning of 11-28 at 0400.

	54
Α	Okay.
Q	There is an indication there, I think in the second line
	of that note, that says restlessness accompanied with
	shortness of breath.
A	Okay.
Q	Would you agree that this is consistent with a patient
	that may be having dyspnea on exertion?
	MR. STRIKER: Dyspnea on exertion?
A	Yes.
	MS. TOSTI: Yes.
A	I don't know if there is much exertion there, but
	certainly it is consistent with dyspnea, because she is
	short of breath. She is in bed, right? I don't think
	she is really exerting herself much.
2	Accompanied with her restlessness?
a	That is usually not what I think of as exertion when I
	talk about dyspnea on exertion. I wouldn't argue she is
	short of breath.
2	I would like you to take a look, I think it is on the
	next page of those notes, for 11-28 at 0603.
7	Okay.
5	Do you have an opinion as to what was causing Mrs.
	Strong's confusion, agitation and shortness of breath as
	documented by the nurses at that time?
A	6:30 in the morning? Well, again, many things could be
	Q A Q A Q A Q A Q 2 A 2 A 2 A

		55
1		contributing to it. Electrolyte disturbance, drugs,
2		possibility of congestive failure could be leading to
-		those symptoms.
4	Q	Doctor, when you say drugs, I would like to know
5		specifically what drugs we are talking about.
6	A	Like Vicodin, which was the I don't know the last
7		time she got it, but she had Demerol and Vistaril
8		earlier, and I don't know if she had any of that.
9		Certainly pain can cause a little confusion at times, as
10		well, There could be a multitude of factors. It is
11		hard to be certain which one, or pin down any one
12		particular factor that was totally responsible for those
13		symptoms.
14	Q	To your knowledge did she receive any type of pain
15		medications during that night, from 11-27 to the morning
16		of the 28th, any medications that would contribute to
17		her shortness of breath or her confusion?
18	А	Let me look here. It is hard to read the dates.
19		MR. SKIVER: If you have a sheet that applies,
20		Jeanne, it might be helpful.
21	 	This one, I believe, is for the 27th, if you look at the
22		top of the page. I believe this is the 28th, because
23		this is the day she
24		MR. SKIVER: Why don't you just flip it
25		around? That might be easier.

		5	6
1	A	This is the 28th, this is the 27th?	•
2	Q	Yes.	
3	A	That is Vicodin, that is Vicodin, and she got some at	
4		whatever time this is. What time is that?	
5	Q	Nine o'clock at night, 2100 hours.	
6	A	That is what those numbers mean? All. right. She got	
7		that at 2100,	
8		MR. SRIVER: You have to go to the next page	
9		to find out the next day.	
10	A	I guess that is the last one I can see that Darvocet \blacksquare	I
11		Darvocet actually occasionally can cause confusion, I	
12		think. It is probably not as common as with some	
13		others, but I think it can . She got some Valium at six	1
14		and conceivably that could do it, as well,	
15	S	That was in response to the call to Dr. McLoney.	
16	A	Okay. At $five$ o'clock the Darvocet could have	
17		conceivably contributed. There are a lot of	
18		contributing factors. I'm not sure you can say any one	÷
19		thing for certain caused it.	
20	2	Would you agree looking at the nurses' notes, that from	1
21		the 27th to the morning of the 28th that there appears	
22		to be some type of deterioration in Mrs. Strong? The	
23		evening before she starts out alert and oriented,	
24		becomes slightly confused, and during the night we have	:
25		a patient that is having nightmares and continues to	

		57
1		have respiratory difficulties that are charted by the
2		nurses?
3	A	Yes, she certainly is having trouble that night.
4	Q	And we get to a point when the nurses call Dr. McLoney
5		again at six o'clock in the morning, telling him ${f she}$ is
6		confused, she is agitated, and ${f she}$ is short of breath?
7	A	Right.
8	а	Given that progression of symptoms would you agree
9		there is a progression of symptoms?
10	A	There appears to be, yes.
11	S	Would you agree that this should raise the level. of
12		suspicion that this lady may be developing congestive
13		heart failure?
14	A	I think that would be one of the things you would have
15		to consider strongly, yes.
16	2	You would agree that Dr. McLoney should have been
17		considering congestive heart failure in his differential
18		diagnosis at six o'clock in the morning when he was
19		called?
20	4	I think probably he did. Yes, I would agree with that.
21	2	${\tt D}{\circ}$ you have an opinion, and you may want to look at Dr.
22		McLoney's orders from six o'clock in the morning on the
23		28 28th, do you have an opinion as to whether or not
24		Dr. McLoney at six o'clock met the standard of care in
25	1	regards to his actions after those symptoms were

reported to him?

1

2 A Well, he gave her Lasix, which I think is appropriate,
3 and I have no problem with that. The Valium, you could
4 argue whether that needed to be given or not. At two
5 milligrams, I don't think that is a big issue, I think
6 he must have been considering heart failure, because he
7 gave her a diuretic.

8 2 If he was considering heart failure, wouldn't it have
9 been prudent at that point to order a chest x-ray for
10 this patient?

11 A Not necessarily so. If he was considering heart failure
12 and felt that was a likely diagnosis, I think it is
13 reasonable to treat her with a diuretic and see what
14 kind of results she had.

Considering this lady was at risk for congestive heart failure, and Dr. Winland had said she had to be hydrated very carefully, once she started developing these symptoms of shortness of breath, wouldn't it have been prudent of Dr. McLoney at that time to order a chest x-ray?

MR. SKIVER: Objection, asked and answered.
I'm agreeing that he probably thought she had heart
failure. The diagnosis he made is certainly the
diagnosis he treated. I'm not sure an x-ray would have
added a lot to that. If she didn't respond by

		50
1		59 improving, that is something that the next step might
2		have been to get an x-ray.
3	Q	Lasix is a potent diuretic, right?
4	А	That is correct.
5	Q	And if Lasix is indicated, doesn't that mean that
6		Mrs. Strong was in fluid overload at that point?
7	A	Well, I think that is probably what he was concerned
8		about, heart failure, and that is why he gave the Lasix.
9	Q	Do you have an opinion as to why this Lasix was given IV
10		rather than P.O.?
11	A	I think most people in the hospital give it IV. It
12		works faster, it is probably more effective when given
13		as IV.
14	Q	Because it was given at that time, would that be an
15		indication that this was the type of situation that
16		needed to be treated immediately,
17		MR. SKIVER: Objection, calls for speculation.
18	А	I don't know what was in his mind at the time. I think
19		once he made the diagnosis, he wanted to treat it
20		properly,
21	Q	Would you agree that in this instance there was an
22		urgent need to give Lasix?
23		I think it needed to be given promptly, and I believe
24		that is what happened,
25	Q	And what type of a response did Mrs. Strong have to the

	60 Lasix that was given, if you know?
A	I understand she clinically improved, from my
	recollection of reading the nurses' notes. At $6:30$ she
	was resting more comfortably, color pink, skin warm and
	dry, breathing easier, 02 continued. So she seems to
	have responded clinically to that.
2	So would that be an indication, then, that Mrs. Strong
	likely was developing congestive failure, and that the
	Lasix relieved some of the fluid load and improved her
	condition?
	MR. SKIVER: Objection.
A	It could be that, it could be that ${f the}$ confusion was
	maybe due to something else, and the Lasix was
	irrelevant. It is hard to know for certain. She got
	the Lasix and she seemed to improve, so that would
	probably maybe reinforce ${f a}$ diagnosis of heart failure.
2	Isn't it likely that if a chest x-ray was done that
	morning at $6:30$, that there would have been evidence of
	congestive heart failure on it?
	MR. SRIVER: Objection.
¥	I don't know what the x-ray would have shown.
2	But, Doctor, isn't it likely it would have shown
	congestive heart failure, given the improvement in her
	symptoms after the Lasix?
	MR. SKIVER: Objection, asked and answered.
	2

		61
1		Go ahead.
2	A	I can't say it is likely, I don't know what it likely
3		would have shown.
4	Ç	I would like you to take a look at Dr. Winland's orders
5		that he wrote on the morning of the 28th, I think it is
6		at about 8:30 in the morning. They are not timed, but
7		I believe he was in in the morning.
8	A	11-28?
9	2	Right, the ones immediately after the telephone orders
10		that were given by Dr. McLoney.
11	Ą	Okay.
12	2	Now, on the morning of the 28th were Dr. Winland's
13		orders, to restrict fluids to 500 CCs ${f a}$ shift and to
14		reduce the IV rate to $30\$ CCs an hour, an appropriate and
15		adequate response to Mrs. Strong's condition?
16	A	I think so, yes.
17	2	And should congestive heart failure have been in Dr.
18		Winland's differential diagnosis at that point in time?
19	Ŧ	I suspect that it was, based on these orders.
20	2	Why, in your opinion, if you have an opinion in regard
21		to this, did you think Mrs. Strong needed ${f a}$ fluid
22		restriction?
23	Ĩ	Well, as we talked about treating heart failure, you
24		want to get rid of fluid, so the less you put in the
25		less you have to get out. At this point if you felt she

1		62 was in failure, then the less you put in, the less you
2		would have to try to get out.
3	Q	Would you agree that Mrs. Strong was at high risk for
4		complications if she did experience ${f a}$ fluid overload?
5	А	I'm not exactly sure what you mean by that question.
6	Q	That she would be at high risk for developing
7		complications if she should experience fluid overload?
8		MR. SKIVER: You just reasked the same
9		question,
10	A	I don't understand what you mean by that question,
11	Q	Would Mrs. Strong, given her risk factors that she came
12		into the hospital with, and given the fact that
13	1	Dr. Winland had reported that she had to be hydrated
3.4		cautiously, if this lady developed a fluid overload,
15		would she be at high \mathbf{risk} for developing a complication
16		such as pulmonary edema or severe congestive failure?
17		MR. SKIVER: Objection, go ahead.
18	A	I'm still not sure ${\tt I}$ understand what you are trying to
19		get at. He stated in his note that he thought ${ m she}$
20		needed to be hydrated carefully, and $$
21		MR, SKIVER: If you don't understand the
22	-	question
23		MS. TOSTI: Let me rephrase it, and I
24		apologize if it was inartfully phrased,
25	Q	This particular patient, if she developed a fluid

1		63 overload, would have to be watched very carefully
2		because she has an increased likelihood of developing a
3		complication than someone who did not come into the
4		hospital with these same risk factors?
5	¥	What complications are you talking about?
6	2	complication of congestive failure, complication of
7		pulmonary edema, possible complication of arrhythmias.
8	7	We are talking about heart failure. You are saying if
9		she developed a heart failure, is she at increased risk
10		for developing heart failure? It appears they are
11		treating what they suspect is heart failure.
12	2	Perhaps my phrasing pulmonary edema as a complication of
13		congestive heart failure is incorrect, then. If this
14		lady has already begun to develop signs of fluid
15		overload, this is something that would raise concern
16		about her condition and her treatment, would that be
17		correct?
18	¥	I think they are concerned, that is why they are
19		treating her.
20	5	Would you agree that because she has now had signs of
21		fluid overload, that this would be a lady that you would
22		have to watch very carefully, even more carefully than
23		what had happened ${f up}$ to this point in time?
24		MR. SKIVER: Objection.
25	7	Well, it looks like she they had been watching her

pretty carefully, The nurses had been monitoring her
pretty frequently. I don't see that she needs to be
watched any more carefully. I think she needs to be
evaluated as her response to therapy and decisions made
as time goes on, what to do next. It looks like she has
developed heart failure and they are treating it.
Q Wouldn't the level of concern for this lady be increased
because of the fact we now have evidence of fluid
overload?

1

2

3

4

5

6

7

8

9

10 Α I'm not sure what you mean by level of concern, I mean, 11 how worried the doctor would be? I'm not sure what you mean by level of concern. I think they are concerned 12 13 and they are treating it, they are managing their 14 concern by treating it, I think, appropriately. I'm 15 sure, the nurses are going to watch closely, as they have 16 been doing the night before. I'm not sure what you mean 17 It looks like there is a lot of concern. by concern. 18 But would you agree at this point in time, from the Q 19 orders that Dr. Winland has reported, that it would indicate that there was a concern for fluid overload? 20 21 Α I think that is what they were trying to treat, yes. 22 And., Doctor, wouldn't a chest x-ray at this point in Q 23 time have been helpful in determining whether or not 24 there was any type of congestive failure that was of significant levels of this lady? 25

65 mformation, it mation. I'm not , <i>if</i> it would have what they thought
, <i>if</i> it would have what they thought
what they thought
<i>hether or not she</i>
thether or not she
inland saw her?
t failure the
morning of the
trong developed
like you to assume
did not have at the
oint in time. You
is consistent with
g an additional
would that be an
failure was
came in, and I
has it now, then
to having it. She
g it. The edema is
y IC. INC EQUILA IS

		6 6
1		probably one of the first objective signs that she had
2		heart failure, congestive heart failure, so yes, I think
3		that is \mathbf{a} sign of congestive heart failure.
4	!	Wouldn't this be ${f a}$ patient that you would want to put in
5		the intensive care unit in order to watch her carefully?
6	L	Not necessarily. I treat many patients with heart
7		failure on the floor.
8	<u> </u>	With patients that also have dehydration as well ${f as}$
9		electrolyte imbalance?
10	L	Sure.
11	2	Is it your opinion this lady could continue to be
12		treated on the floor, based on what we have discussed so
13		far in regard to the signs and symptoms \mathbf{she} is
14		exhibiting?
15	Ł	I think so. Again, that is a judgment $call$, depending
16		on the nurses and the level of nursing coverage, et
17		cetera. Yes, I think taking care of heart failure on
18		the floor is perfectly legitimate. I don't know that
19		there is anything that could have been done in the unit
20		they don't do on the floor .
21	2	What methods are available to investigate or evaluate
22		whether pulmonary edema is present? How would you
23		determine whether a person was in pulmonary edema?
24		MR. SXIVER; Are you talking about studies
25		or ma

Pulmonary edema as distinguished from congestive heart 1 failure?

3 Pulmonary edema,

2

4 ¥. Well, pulmonary edema, by definition, as I said, is 5 **alveolar** filling, so **a** chest x-ray is useful in that respect, It can give you some suggestion of that. 6 7 Clinical exam, as I said before, tachycardia, profuse 8 sweating, severe dyspnea, frothy sputum, pink-tinged 9 sputum. Those are the things that are most commonly 10 used to diagnosis pulmonary edema.

11 Doctor, is it correct that you don't have to have all of 2 12 those symptoms present in order to have a patient in pulmonary edema? 13

Well, pulmonary edema is a pretty specific diagnosis, 14 A 15 and it really is the very end. stage of heart failure, so most of those should be present to make the diagnosis of 16 17 pulmonary edema rather than just simple heart failure. 18 Did Mrs. Strong have all of those symptoms when she was Q

eventually diagnosed with pulmonary edema? 19

20 I don't know. Well, after her -- I don't believe I saw Α 21 all those symptoms recorded. I would have to look back 22 and see, but I don't recall all those being documented, 23 I don't know if they were there and not well documented or she just didn't have all those. 24

25 Have you seen patients in your clinical practice with 0

69 primary treatments. Very severs they may require mechanical ventilation. You are familiar with hemodynamic monitoring with Swan- Ganz catheters? Yes, I am. Would you agree that hemodynamic monitoring can give you some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures? Actually I think hemodynamic monitoring is over used and
You are familiar with hemodynamic monitoring with Swan- Ganz catheters? Yes, I am. Would you agree that hemodynamic monitoring can give you some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures?
<pre>Ganz catheters? Yes, I am. Would you agree that hemodynamic monitoring can give you some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures?</pre>
Yes, I am. Would you agree that hemodynamic monitoring can give you some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures?
Would you agree that hemodynamic monitoring can give you some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures?
some very precise information that tells about the heart function, such as measurements reflecting output and venous pressures?
function, such as measurements reflecting output and venous pressures?
venous pressures?
-
Actually I think hernodynamic monitoring is over used and
can give you some misleading information. It can give
you some useful information, but can be misleading, as
well. When you say very precise, it depends on the
setting and who is using it, the experience of the
people with it. It can be very precise or can be very
misleading, but it can give you some information.
Would you agree that increased venous pressure and
changes in cardiac output are recognized much more
quickly when a patient is hemodynamically monitored, as
compared to someone who is not sonitored
hemodynamically?
Vencus pressure and what?
Vencus pressure and cardiac output, changes in cardiac
output?
Right, if you don't monitor either one of those, cardiac

		70
1		output or venous pressure, then you are not going to
2		know what they are, so that is true.
3	2	When a patient is at high risk for developing conges ive
4		heart failure, you would watch for signs of decreased
5		cardiac output, isn't that correct?
6		MR. SKIVER: Are you talking about with the
7		use of a Swan-Ganz or just generally?
8		MS, TOSTI: Talking about generally.
9	2	Clinically, a patient at risk for
10	Ł	A patient's risk for decreased cardiac output are subtle
11		and often cardiac output is $n't$ down in heart failure. A
12		low cardiac output state would not be something that I
13		would be looking for in somebody with acute heart
14		failure. People with very chronic end stage
15		cardiomyopathy might have a low output state. That is a
16		difficult thing to clinically assess. Cardiac output is
17		very difficult to clinically assess in most people.
18	2	You indicated that in treatment of patients with
19		pulmonary edema, one of the things you would be
20		concerned about would be afterload. Are most patients
21		that are treated in the intensive care unit for
22		pulmonary edema treated with Swan-Ganz catheter and
23		hemodynamic monitoring?
24	A	No.
	_	

25 2 How are you making these determinations of afterload,

<pre>1 then? 2 A I said afterload reducers. 3 2 You are speaking of medications, then? 4 A Yes. 5 2 This would not be true of any type of readouts in 6 hemodynamic monitoring, based on that? 7 A Sometimes they are used. They are not always use 8 afterload reducers aren't always used. 9 2 In the majority of patients with acute pulmonary</pre>	71
 3 2 You are speaking of medications, then? 4 A Yes. 5 2 This would not be true of any type of readouts the hemodynamic monitoring, based on that? 7 A Sometimes they are used. They are not always used afterload reducers aren't always used. 	
 4 A Yes. 5 2 This would not be true of any type of readouts the hemodynamic monitoring, based on that? 7 A Sometimes they are used. They are not always used afterload reducers aren't always used. 	
 5 2 This would not be true of any type of readouts 6 hemodynamic monitoring, based on that? 7 A Sometimes they are used. They are not always us 8 afterload reducers aren't always used. 	
 6 hemodynamic monitoring, based on that? 7 A Sometimes they are used. They are not always used 8 afterload reducers aren't always used. 	
 7 A Sometimes they are used. They are not always used 8 afterload reducers aren't always used. 	from
8 afterload reducers aren't always used.	
	sed, and
9 2 In the majority of patients with acute pulmonary	
	y edema
10 initially, do you use in your practice hemodynamic	mic
11 monitoring?	
12 I think initially in acute pulmonary edema, the	answer
13 is no. I think most of the cardiologists here of	do not
14 put Swan-Ganz immediately in someone who is in a	acute
15 pulmonary edema. The first thing is it is hard	to lie
16 them down to do it.	
17 Do you think that once, in this case, Mrs. Stro	ong was
18 diagnosed with pulmonary edema, that she should	have
19 been moved into the intensive care unit?	
20 A When a diagnosis of pulmonary edema was made?	
21 2 Yes.	
22 A I think she should be moved. into the intensive	care unit
23 when her clinical situation warranted it, that	is when
24 they couldn't manage-her well on the floor. By	my
25 definition of pulmonary edema, she probably sho	ould have

72 been in the intensive care unit. I didn't see all those 1 2 signa and symptoms in her, so I don't know if it was 3 necessary to move her into it. By my definition of 4 pulmonary edema, yes, most people are in the intensive 5 care unit. 6 When would a **Swan-Ganz** catheter be indicated for a 2 7 patient with congestive heart failure? 8 I think you use a Swan when you have a question, that is 7 9 you need a question that **needs** to be answered with 10 hemodynamic monitoring. You don't know something, you 11 are having a hard time deciding whether they are in 12 failure or not, or you feel you do need to use afterload reducers, and you want to assess the effect of it. 13 You have to have a specific reason to do it. You don't do 14 15 it just because somebody is in failure, just because 16 somebody is in pulmonary edema. 17 Would that same answer go for a patient of pulmonary 2 edema? 18 19 Yes. A 20 Now, in this instance, because Mrs. Strong had 2 21 dehydration as well as electrolyte imbalance, plus the 22 risk factors we discussed --23 MR. SKIVER: At what point in time? 24 MS. TOSTI: At the point she is diagnosed with 25 pulmonary edema on the 28th --

		7.2
1		73 MR. SKZVER: We were talking about being
2		dehydrated, we are talking about being fluid overloaded,
3		MS. TOSTX: Her admitting diagnosis was
4		dehydration and electrolyte imbalance. I think we have
5		discussed the fact there was evidence of fluid overload
6		on the morning of the 28th, and that Dr. Winland's and
7		Dr. McLoney's orders reflected a management of a fluid
8		overload problem.
9	2	Right, Doctor?
10	A	Yes.
11	S	Given the fact we now have a patient that is in fluid
12		overload, exhibiting signs of congestive heart failure,
13		and also has an electrolyte imbalance, wouldn't this
14		patient be one that would benefit from management in the
15		intensive care unit with a Swam-Ganz catheter?
15	A	No, I think the appropriate thing would be to treat her
17		with diuretics, and if there was a specific question, I
18		mean if the doctor really didn't know or if they didn't
19		know if she had heart failure, then it might be
20		appropriate. If they felt they were pretty clear she
21		had heart failure at that point in time, I think
22		treating it clinically is very appropriate. If problems
23		develop and it was unclear at some Later date if she was
24		responding to therapy appropriately, or these is another
25		question that needs to be answered, then that would be

74 the time to place a Swan. I always tell my residents a 1 2 Swan-Ganz catheter is never: an emergency procedure. 3 Just so I'm clear, it is your opinion, then, it was Q within the standard of care to manage this lady on the 4 night of the 28th OR a general medical floor, rather 5 6 than move her into an intensive care unit? 7 А Yes. 8 MR. SKIVER: You are talking about prior to the arrest, of course? 9 MS. TOSTI: Right. 10 11 At the point when Dr. Winland had evidence of pulmonary С edema and arterial blood gases, but before her arrest. 12 13 MR. SRIVER: I'm going object to throwing in 14 he had evidence of pulmonary edema prior, because there 15 was no evidence of that prior to the arrest. His diagnose in the chart was congestive heart failure. 16 17 Α If you are using the term pulmonary edema based only on 18 the chest x-ray, I wouldn't agree with that. 19 2 Why don't you tell me what your disagreement is, then. 20 If there is evidence of pulmonary edema on a chest 21 x-ray 🎴 22 I don't think pulmonary edema as a radiographic Α 23 diagnosis. 24 2 Okay. 25 Α I think x-ray is one piece of *nformation*. It is a

1		75 clinical diagnosis. A Swan-Ge z catheter can give you
2		information measuring the pressures, which would be
3		another piece of confirmatory vidence, I don't think
4		you need to do it right then. \blacksquare don't think there is
5		any one \mathbf{piece} of information that makes a diagnosis of
6		pulmonary edema. A chest $x - ray$ is not solely a
7		radiographic diagnosis, and I would not accept ${f a}$
8		diagnosis of pulmonary edema based solely on an x-ray.
9	2	But you agree that Dr. Winland at that point in time had
10		a diagnosis of congestive failure?
11	¥	Yes.
12	2	Do you believe patients with acute episode of congestive
13		heart failure should be placed on a cardiac monitoring
14		for at least 24 hours to determine if arrhythmias are
15		present?
16	7	Again, that is a judgment call. I don't think it is
17		mandatory.
18	2	Did you have an opinion as to whether $Mrs.$ Strong was at
19		increased risk for cardiac arrhythmias, once she was
20		diagnosed with congestive failure by Dr. Winland on the
21		evening of the 28th? I don't know that she had I
22	I	mean, there is always a risk for arrhythmias in people
23		with heart disease. Whether that required a cardiac
24		monitor or not, I'm not sure that absolutely was
25		required, to do a cardiac monitoring. Many people

1		76 would, and I certainly wouldn't argue with doing it.
2	Q	Would most people?
3	A	Well, I don't know if most people would. I think many
4		would.
5	Q	What would the standard of care call for in this
6		instance?
7	A	I think the standard of care would not mandate that she
8		be monitored at that point in time.
9	Q	If the patient had a diagnosis of pulmonary edema,
10		should the patient be placed on a cardiac monitor to
11		watch for cardiac arrhythmias?
12	A	Pulmonary edema, as I said, pulmonary edema by my
13		definition, is treated in the intensive care unit, and
14		all those people are monitored, so the answer is yes.
15		(Brief recess)
16	2	Doctor, do you have an opinion as to what caused
17		Mrs. Strong's arrest on the night of the 28th?
18	A	Again, I don't know for certain what caused her arrest.
19		She may have had a myocardial infarction, she may have
20		had a pulmonary embolism. She may have had a cardiac
21		arrhythmia. It is hard to know exactly what caused it.
22	່ວ	Mrs. Strong lived for about a month after the arrest,
23		and was treated in the hospital. Was there any
24		indication in the records that you reviewed that she had
25		a myocardial infarction?

77 I didn't see any evidence regarding that, although I did 1 2 not see anything that **ruled** it out. 3 Did you take a 1 ok at any EKGs "that were done post-) 4 arrest? EKGs weren't helpful in diagnosing it. 5 6 Do you agree with what the death certificate indicates, 2 7 that the primary cause of death was anoxic 8 encephalopathy? 9 MR, SKIVER: Let me interpose a question here. 10 I don't think he had all the nursing home notes or 11 anything like that to review. MS. TOSTI: Has he had the death certificate? 12 13 MR, SKIVER: I don't know if he has got the 14 death certificate. 15 I can show you the death certificate. 2 16 MR, SKIVER: As to what happened in the 17 nursing home, I don't think he has that. 18 Ť I think that is probably fair, You could argue cardiac arrest first and anoxic encephelopathy is a complicating 19 20 factor of that, but I think that is reasonable. 21 MS, TOSTI: Off the record for a second. 22 (Brief discussion off the record) 23 2 Do you have an opinion as to what point in time, if any, 24 prior to her arrest, that Mrs. Strong's condition was irreversible? 25

		70
1	A	78 Well, certainly her chronic disease was irreversible,
2		her chronic vascular disease, per coronary disease. So
3		the chronic disease I think is irreversible. The heart
4		failure sometimes can be reversible, and it can be
5		irreversible. I'm not exactly sure which condition you
6		are referring to.
7	Q	I`m speaking of the congestive heart failure, and
8		whether you have a opinion, and if you don't that's
9		fine, if you have an opinion as to what point in time,
10		if any, prior to her arrest, that her condition was
11		irreversible?
12	A	Well, sometimes congestive heart failure is never
13		irreversible. I don't know a t any point in time. I
14		wouldn't be able to say at this point in time it was
15		reversible or irreversible.
16	Q	So you do not have an opinion. as to whether or not
17		Mrs. Strong's condition was irreversible prior to her
18		arrest?
19	A	By condition you mean congestive heart failure?
20	Q	Yes.
21	A	I don't know ${f if}$ that congestive heart failure was
22		reversible or not prior to her arrest.
23	Q	If Mrs. Strong had not suffered a cardiac arrest, do you
24		have any opinion as to her life expectancy?
25	A	That is always very difficult to say. She has

1		79 significant chronic disease, and I would think that
2		probably her life expectancy would be fairly short. You
3		are always on thin ice when you guess how long people
4		are going to live, but I would say less than five years
5		would be a reasonable estimate.
6	Q	What is the basis of that opinion?
7		Clinical experience.
8	Q	Do you have any research that you can $cite$ me to that
9		would support that?
10		Off the top of my head, no. There is some data that I
11		can remember from a while back suggesting that the
12		development of cardiac, heart failure, with significant
13		valvular disease , has a short life expectancy. I don't
14		know that her valvular disease was that severe. People
15		with diabetes and peripheral vascular disease and
16		coronary artery disease have a high risk have a high
17		mortality.
18	2	Do you know generally what a life expectancy would be
19		for a woman of Mrs. Strong's age and race?
2c	A	Are you talking about the standard life tables?
21	S	The standard life tables.
22	A	Offhand, I don't know.
2:	Q	After $\mathbf{Mrs.}$ Strong's arrest, and the care she received at
2'		Fisher-Titus, do you have an opinion whether she was
2:		able to initiate any voluntary movements or communicate,

1		80 or whether she was aware of he surroundings?
2		From the notes that I read, and I didn't read those in
3		great detail, because I didn't think that was a major
4		focus, she was severely impaired, from what I
5		understand, and not very communicative,
6	Q	If Mrs. Strong was able to follow simple commands and
7		initiate voluntary movements, would this be an
8		indication that she was conscious or aware of her
9		environment?
10		MR. SXIVER: Objection.
11		If she was able to respond?
12	!	Yes.
13		If she was responding in a meaningful way, that
14	5	If she was following simple commands, that would be an
15		indication she was aware at least to some degree of her
16		surroundings?
17	Ł	To some degree.
18	2	Do you have any criticisms of he care that was given to
19		Mrs. Strong by Dr. Winland and Dr. McLoney?
20	A	No.
21	2	Doctor, have we covered all of your opinions relevant to
22		the appropriate standard of $c_{\&\&\&}$ to be applied in this
23		case?
24	A	1 believe so.
25	Q	Do you have any additional op: ions that we have not

81 covered?
No, I don't believe so .
Doctor, you had an opportunity to evaluate several chest
x-rays, is that correct?
No, I have not seen any chestrays.
MS. TOSTI: You did take a request for chest
x-rays in this case.
MR. SRLVER: I don't think I sent them to him.
Ne hasn't seen them, I don't * ink. Obviously
No, I have not seen any x-rays.
MR. SKIVER: I don't know if we got them.
MS. TOSTI: I don't know if you got them,
either. I know that you requested them.
Do you have any opinions that Mrs. Strong had any other
clinical problems that are not documented in the medical
record?
I have no knowledge of anything that is not documented
in the record,
Any pulmonary diseases from anything that you have read
in the record that you think she may have that are not
indicated in this record?
A I have no indication of anything other than what is in
the record, no.
Have you made any arrangement: to testify in person at
the upcoming trial in this matter in Huron County?

1	4	No, I have not.
2	2	Nave you been asked to testify in person?
3	1	No, I have not.
4		MS. TOSTI: I think a are done,
5		MR. SKIVER: Reserve signature,
6		(Deposition concluded)
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

i

CERTIFICATE

State of Michigan)) County of Kent)

SS

I, Terri W. Sparkman, CSR-2704, Certified Shorthand Reporter and Notary Public in and for Kent County, Michigan, do hereby certify that the foregoing deposition of THOMAS ABRAHAM, M.D., was taken before me at the time and place hereinbefore set forth, and that said witness was duly sworn by me to tell the truth and nothing but the truth, and thereupon was examined and testified as in the foregoing deposition appears;

That this deposition was taken in shorthand and thereafter transcribed by me, and that it is a true and correct transcript of my original shorthand notes.

I further certify that I & not counsel for or related to either of the parties to the foregoing entitled cause, nor employed by them or their attorneys; neither am I interested in the subject matter or outcome of the foregoing cause.

IN WITNESS WHEREOF, I hav thereunto set my hand and seal this ______ day of _____, 1994.

Terri Sparkman, CSR Notar iblic in and for Ionia unty, Michigan

My Commission expires January 9, 19