

1 NORTH CAROLINA IN THE GENERAL COURT OF JUSTICE

2 ORANGE COUNTY SUPERIOR COURT DIVISION

3 FILE NO. 04-CVS-2114

4

5 THE ESTATE OF [PATIENT], )  
[HUSBAND], Administrator; )  
6 [HUSBAND], Individually; )  
[PATIENT'S MOTHER], Individually; )  
7 [PATIENT'S FATHER], Individually, )  
Plaintiffs, )

8 v. )  
[DOCTOR #1], Individually; )  
9 [DOCTOR #2], Individually; )  
[Doctor #3], Individually; )  
10 JAMES R. [DOCTOR #4], Individually; )  
Defendants. )

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14 VIDEOTAPE DEPOSITION UPON ORAL EXAMINATION

15 OF PHILIP G. LEAVY, JR., M.D.

16 TAKEN ON BEHALF OF THE DEFENDANTS

17 Norfolk, Virginia

18 July 12, 2005

19

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22 TAYLOE ASSOCIATES, INC.

23 Registered Professional Reporters

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25 Norfolk, Virginia

1 Appearances:

2

3 On behalf of the Plaintiffs:

4 BREE A. LORANT, ESQUIRE

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7 Chapel Hill, North Carolina 27516

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9

10 On behalf of the Defendants:

11 M. LEE CHENEY, ESQUIRE

12 Womble, Carlyle, Sandridge & Rice

13 2530 Meridian Parkway, Suite 400

14 Durham, North Carolina 27713

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17

18 Also present:

19 BRIAN COLEMAN, Videographer

20

21

22

23

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1 Videotape deposition upon oral  
2 examination of PHILIP G. LEAVY, JR., M.D., taken on  
3 behalf of the Defendants, before Kristi R. Weaver,  
4 RPR, a Notary Public for the Commonwealth of Virginia  
5 at Large, commencing at 9:45 a.m., July 12, 2005, at  
6 the offices of Tayloe Associates, Inc., 253 West Bute  
7 Street, Norfolk, Virginia.

8

9 (Documents were marked as Exhibits 30,  
10 31, and 32.)

11 THE VIDEOGRAPHER: We are on video now if  
12 you want to do anything, and then I'll start the  
13 slate.

14 MS. CHENEY: Okay. This is Lee Cheney  
15 speaking, attorney for [Doctor #1], [Doctor #2], [Doctor #3],  
16 and [Doctor #4]. And this is in the case of the  
17 Estate of [Patient], [Husband],  
18 Administrator; [Husband], Individually; [Mother],  
19 Individually; and [Patient's Father],  
20 Individually against the defendants that I just named.

21 This case is being taken pursuant to the  
22 North Carolina Rules of Civil Procedure and pursuant  
23 to notice and agreement of counsel and will be  
24 governed by the North Carolina Rules of Civil  
25 Procedure with formalities waived with respect to --

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1 to any -- any rules about the witness reading and  
2 signing before this particular court reporter or  
3 anything like that.

4 Right?

5 MS. LORANT: Yes.

6 MS. CHENEY: And, Dr. Leavy, you have a  
7 right to read and sign your deposition after it's been  
8 transcribed, or you may elect to waive that right.  
9 What is your preference?

10 THE WITNESS: I'll waive it.

11 MS. CHENEY: Okay. So the witness has  
12 agreed to waive. And is that okay with you, Ms.  
13 Lorant?

14 MS. LORANT: It's his choice.

15 MS. CHENEY: Okay. Witness has agreed to  
16 waive his right to read and sign.

17 And that being the case, we can proceed  
18 with the deposition.

19 THE VIDEOGRAPHER: Okay, great. We are  
20 on record at 9:49 a.m. on Tuesday, July 12th, 2005.

21 This is the videotape deposition of Dr. Philip Leavy  
22 at 253 West Bute Street, Norfolk, Virginia. This  
23 deposition is being taken on behalf of the defendants  
24 in the matter of the Estate of [Patient], [Husband],  
25 Administrator, et al versus [Doctor #1], et

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1 al, File Number 04-CVS-2114, pending in the General  
2 Court of Justice, Superior Court Division, North  
3 Carolina, Orange County.

4 My name is Brian Coleman with the firm of  
5 Tayloe Associates, Incorporated, located at 253 West  
6 Bute Street, Norfolk, Virginia, 23510. I'm the video  
7 technician for this deposition.

8 The court reporter is Kristi Weaver of  
9 Tayloe Associates, Incorporated.

10 Will counsel please introduce themselves  
11 for the record and state whom they represent.

12 MS. CHENEY: I'm Lee Cheney, and I  
13 represent the defendants.

14 MS. LORANT: I'm Bree Lorant. I  
15 represent all the plaintiffs.

16 THE VIDEOGRAPHER: Please swear in the  
17 witness.

18

19 PHILIP G. LEAVY, JR., M.D., called as a  
20 witness, having been first duly sworn, was examined  
21 and testified as follows:

22

23 EXAMINATION

24 BY MS. CHENEY:

25 Q. Good morning, Dr. Leavy.

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1 A. Good morning.

2 Q. As you just heard, my name is Lee Cheney,  
3 and I represent the defendants in this action. It's  
4 my understanding that you have been designated as an  
5 expert witness expected to testify on behalf of the  
6 plaintiffs in this case. Is that also your  
7 understanding?

8 A. Yes, ma'am.

9 Q. I'm going to hand you what's been marked  
10 as Deposition Exhibit 30 and let you just -- and just  
11 represent to you that this is the notice of deposition  
12 for your deposition here today. And let me just ask  
13 you if you have seen that document before?

14 A. I don't believe I've seen this. I was  
15 told by counsel what -- what to do, though.

16 Q. Okay. And have -- if I can just call  
17 your attention to the last page, the Exhibit A to  
18 that -- to that notice of deposition appears to be a  
19 list of documents that you were asked to bring with  
20 you today. Have you brought any documents in response  
21 to that request?

22 A. Yes, I have.

23 Q. Okay. Tell me what you've brought with  
24 you today.

25 A. I brought a copy of the hospital record,

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1 the ED visit in particular from 11-24-03 of [Patient]  
2 . This also includes the [Community Hospital]  
3 ED record, as well as office records from  
4 Patrick Goodwin, the labor and delivery admission, and  
5 the specialty care -- Women's Specialty Care Clinic  
6 prenatal care.

7 Q. Okay.

8 A. In addition to that, I have brought some  
9 articles. One is, actually, a copy of some pages from  
10 the Emergency Medicine text written by -- or editor in  
11 chief is Judith Tintinalli.

12 Also, a similar copy of some literature  
13 from Rosen's textbook on Emergency Medicine.

14 Q. Okay. Let's, first of all, get the --  
15 what you brought by Tintinalli, the Fifth Edition  
16 Emergency Medicine, marked as Exhibit 33.

17 (The document was marked as requested.)

18 MS. CHENEY: And the Rosen's Emergency  
19 Medicine as Exhibit 34.

20 (The document was marked as requested.)

21 BY MS. CHENEY:

22 Q. Any other copies of medical literature  
23 that you brought with you today?

24 A. I have copies of some literature that was  
25 actually sent to me to review, and you can have --

1 these are just abstracts, really, of some articles.

2 Q. Okay. And these were sent to you to  
3 review by whom? Who sent these?

4 A. Bree.

5 Q. Okay. The plaintiffs' counsel sent you  
6 these?

7 A. Plaintiffs' counsel.

8 Q. And there -- one, two, three, four, five,  
9 six -- there appear to be seven articles off of PubMed  
10 that comprise this group of documents you just handed  
11 me, correct?

12 A. Actually, the abstracts from the  
13 articles.

14 Q. Abstracts. And have you read the full  
15 articles from these abstracts?

16 A. I haven't read every single article. I  
17 couldn't find some of them.

18 Q. Okay. Which ones have you read?

19 A. Oh, boy. I don't know.

20 Q. Let's --

21 A. I didn't bring them.

22 MS. CHENEY: Let's get these collectively  
23 marked as Exhibit 35.

24 (The documents were marked as requested.)

25 BY MS. CHENEY:

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1 Q. And if I just hand you what's been  
2 marked -- now marked as Exhibit 35, are you able to  
3 look through those and tell me which of the complete  
4 articles you've read and which ones you haven't read?

5 A. I did not read the complete article on  
6 "Streptokinase and Heparin versus Heparin Alone."

7 Q. Who's the author on that one?

8 A. Jerjes Sanchez.

9 Q. Okay.

10 A. I have read this article prior to the --  
11 being involved with this case. This is the article on  
12 "Should thrombolytic therapy be used in patients with  
13 pulmonary emboli."

14 Q. And you read that not necessarily in  
15 connection with this case, you had read it  
16 previously --

17 A. Right.

18 Q. -- is that correct?

19 A. Yeah, yeah.

20 That's from the American Journal of  
21 Cardiovascular Drugs.

22 Q. Okay.

23 A. The third abstract is "Treatment of acute  
24 massive/submassive pulmonary embolism" by Tayama,  
25 Circul -- journal of Circulation.

1 From the American Journal of Cardiology,  
2 the "Relation of duration of symptoms with response to  
3 thrombolytic therapy in pulmonary embolism." Author  
4 is Daniels. That's July of '97. I read that one.

5 Q. Okay.

6 A. Let's see. Another one is "Massive  
7 pulmonary embolism" by Tidsskr, T-I-D-S-S-K-R. I  
8 don't know -- I don't know where that one came from.  
9 It was in Norwegian. I didn't read that one.

10 Q. Okay.

11 A. The next one was thrombolytic -- journal  
12 of Thrombolytic Hemostasis I think it is, "Submassive  
13 and massive pulmonary embolism: A target for  
14 thrombolytic therapy?"

15 Q. Did you read that article?

16 A. No.

17 Q. Okay.

18 A. And the last one was from the New England  
19 Journal, October of 2002, "Heparin plus alteplase  
20 compared to heparin alone in patients with massive  
21 (sic.) pulmonary emboli."

22 Q. And have you read that article?

23 A. Uh-huh, I have read that one.

24 Q. Now, are -- are Circulation and the  
25 American Journal of Cardiology journals that you

1 regularly review in your practice?

2 A. No. They're -- they're more content

3 specific. If it has to do with cardiovascular

4 treatment in the ER, I would read it.

5 Q. Okay. How do the -- how do these

6 articles that may be contained in journals such as

7 Circulation and the American Journal of Cardiology

8 come to your attention?

9 A. Usually in discussions with the

10 cardiologists about newer treatments or reviews of

11 older treatments.

12 Q. Okay. And how about the New England

13 Journal of Medicine, is that one that you regularly

14 review in your practice?

15 A. I really don't read that on a regular

16 basis. I read it occasionally.

17 Q. If there were something that were

18 relevant to your practice that was brought to your

19 attention, you would then review that article?

20 A. If it was brought to my attention, yes.

21 And the same with the other journals.

22 Q. Okay. And there -- I notice there is

23 some highlighting on these printouts. Is that your

24 highlighting, or was that highlighting already on

25 there when you received them?

1 A. That's mine.

2 Q. Do you know what the purpose of -- for  
3 what purpose these abstracts were sent to you?

4 A. I would have to ask the -- the sender  
5 that. It -- it just sort of confirmed what  
6 information I had in my mind about the use of -- of  
7 t-PA in certain cases.

8 Q. Okay. Any other material that you've  
9 brought with you today?

10 A. Sure. A copy of my affidavit, the  
11 initial letter from Lorant Law Group, some more  
12 information about the -- the ER visit to North -- to  
13 [UNIVERSITY HOSPITAL], including a bill, a procedure note, an MICU  
14 attending note, and a CPR record.

15 Q. Okay. Let me just take a look at that  
16 stuff.

17 I don't know about this bill. The bill,  
18 do you know for what purpose that was sent to you?

19 A. I just guess for more information than I  
20 had.

21 Q. Uh-huh. What information did you get  
22 from this bill about -- that had to do with your  
23 opinions in this case?

24 A. Nothing, really.

25 Q. And these -- the procedure --

1 A. I'm sorry. There was a little  
2 conflicting things, but some of the fluids that  
3 didn't -- that may or may not be given. I couldn't  
4 tell, really, if some of the orders were followed.  
5 Some of them were charged for and some of them  
6 weren't, so it really made me more confused as to  
7 exactly what went on than helpful.

8 Q. Okay. So you're saying that the bill,  
9 there were charges on the bill for fluids that you're  
10 not certain were given?

11 A. That's correct.

12 Q. Okay. And what is the basis of your  
13 uncertainty that they were given?

14 A. I didn't see where the orders were  
15 checked off or where it was recorded that they were  
16 given.

17 Q. Okay. And specifically which fluids that  
18 are contained on the bill are you not sure were given?

19 A. Let me see. I was specifically  
20 interested in whether t-PA was ever given, and that's  
21 given with the fluids.

22 Q. You -- oh, so you were looking at it  
23 specifically to see if t-PA was ever given?

24 A. Right.

25 Q. And did you ever find any -- any

1 information that t-PA was given?

2 A. I couldn't tell. I think it's listed  
3 under pharmacy, and there's a large charge for  
4 pharmacy. I know t-PA is very expensive.

5 Q. Uh-huh.

6 A. So I presume it was -- they were charged  
7 for it.

8 Q. Did you read the code note where it  
9 documented that t-PA was given?

10 A. Yeah.

11 Q. Oh, okay. So you did find some evidence  
12 that t-PA was given to this patient?

13 A. There was a note that it was, yeah.

14 Q. Okay. Do you doubt that it was?

15 A. No.

16 Q. Okay. Then the other three pages of the  
17 pages you just handed me are an MICU attending note by  
18 [Doctor #4], a procedure note by [Doctor #2], and a CPR  
19 record from. Are these  
20 documents that were not contained in the original set  
21 of medical records that you reviewed?

22 A. They were sent to me separately. I'm not  
23 sure if they -- if they were -- if they were in here  
24 or not.

25 Q. Okay. Do you know for what reason they

1 were sent separately to you?

2 A. I believe I asked for them.

3 Q. Oh. Why did you ask for them?

4 A. Well, because there were notes in here  
5 that were -- that seemed to indicate, for example,  
6 that [Doctor #2] did the intubation. And usually when  
7 you do that, there's a dictated note or a written  
8 note, and I didn't find one.

9 Q. I see. So these were things that you may  
10 have asked for because you didn't find them in the  
11 record?

12 A. Right. I mean, they may be there. I  
13 just didn't find them.

14 Q. Uh-huh. And is it the case that the  
15 highlighting that is present on the note by  
16 [Doctor #4] is your highlighting?

17 A. Yes.

18 MS. CHENEY: Okay. So let's get the --  
19 marked as Exhibit 36 this group of documents that  
20 comprises the bill, which is three pages; a one-page  
21 note by [Doctor #4]; a one-page note by [Doctor #2];  
22 and a one-page cardiopulmonary resuscitation record.

23 MS. LORANT: Just for clarification, the  
24 text of the notes, the two notes of the doctors, were  
25 transcribed from the text of the depositions of those

1 doctors. So they're something that we typed up from  
2 the deposition because the note in the record was  
3 illegible.

4 MS. CHENEY: Okay. This was based on  
5 what the doctor told you the note said?

6 MS. LORANT: It's the transcript of the  
7 deposition.

8 MS. CHENEY: Okay, thanks.

9 (The document was marked as requested.)

10 BY MS. CHENEY:

11 Q. And then what else do you have in front  
12 of you there?

13 A. Just some geographic information on  
14 [area and University Hospital],  
15 excuse me, and the [Community Hospital],  
16 and some more geographic information on [Community Hospital  
17 region].

18 Q. And where did you get that from?

19 A. Ms. Lorant sent it to me.

20 Q. Do you know the purpose for which that  
21 material was sent to you?

22 A. So that I'd be familiar with the area and  
23 the hospitals.

24 Q. Absent that material were you familiar  
25 with that area at all?

1 A. I've been there.

2 Q. Okay. When have you been there?

3 A. Went down to see a game.

4 Q. Okay. You weren't there --

5 A. Football game.

6 Q. -- in connection with your practice of

7 medicine, I take it?

8 A. No.

9 MS. CHENEY: Okay. Let's -- let's get

10 these collectively marked. And this is easy to do.

11 There's a four-page stapled document about [Community Hospital]

12 a one, two, three, four, five,

13 six-page stapled document about [Community Hospital area]

14 and a six-page stapled document about

15 [University Community]. Why don't we get these marked

16 collectively as 37.

17 (The documents were marked as requested.)

18 BY MS. CHENEY:

19 Q. Okay. And what else do you have --

20 A. Oh.

21 Q. -- in front of you there?

22 A. Let's see. C -- CV of [Doctor #3], a CV of

23 [Doctor #2], of [Doctor #1], and [Doctor #4].

24 Q. And where did you get those documents?

25 A. Again, I was sent them.

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1 Q. Okay.

2 A. Then I've got depositions of [Doctor #3],  
3 [Doctor #2], [Doctor #1], and [Doctor #4].

4 Q. Are those the only depositions you've  
5 reviewed in this case so far?

6 A. Oh, there was one from a nurse, too, I  
7 think, [Nurse].

8 Q. Are those the only depositions you have  
9 reviewed in this case so far?

10 A. Yes, ma'am.

11 Q. Did you make any notes or highlighting in  
12 any of those depositions?

13 A. Yeah, I highlighted all the way through  
14 all the depositions.

15 Q. Okay. And when you highlighted in those  
16 depositions, what was the highlighting supposed to  
17 represent?

18 A. When I go through them a second time, I  
19 skip the parts that aren't highlighted.

20 Q. Okay. So the highlighting is things that  
21 you thought were relevant enough to look at a second  
22 time --

23 A. Correct.

24 Q. -- is that right?

25 A. Uh-huh.

1 Q. Okay.

2 A. There probably are some line -- some  
3 lines beside the -- the typed letters as well.

4 Q. When there are lines beside the typed  
5 letters, what is that supposed to mean?

6 A. It's really important.

7 Q. So if it's highlighted, it's just  
8 important; and then when there's a line beside it,  
9 it's really important, right?

10 A. Correct, yeah.

11 Q. Okay. And I don't think that that's  
12 going to show up well in copying, so let me just take  
13 a moment to --

14 A. There's also some time corrections on  
15 some of the pages.

16 Q. What do you mean?

17 A. I think there were some mistakes in the  
18 Hayden deposition in particular.

19 Q. You mean when the witness was talking and  
20 just got mixed up about a time?

21 A. Exactly.

22 Q. And you were just correcting it for your  
23 own -- for purposes of your own review, right?

24 A. Yes, that's exactly right.

25 Q. Okay. On page 42 of the deposition of

1 [Doctor #4] you have highlighted the question, "When  
2 you evaluated [Patient] throughout the course of the time  
3 you spent with her, was she hemodynamically stable?"

4 And he says, "No."

5 And then you've got an X by that. So I  
6 take it that's something that you thought was really  
7 important?

8 A. Yes.

9 Q. And then on page 44 you highlighted where  
10 he clarified or more specifically stated that she was  
11 stable from her admission to the emergency room until  
12 at least the time he wrote his note, "which was 1815,  
13 when her vital signs were of comparable values over a  
14 period of two hours and ten minutes." And you  
15 highlighted that, right?

16 A. Right.

17 Q. So you didn't put a check by that, but  
18 that's, I take it, of equal importance to the one that  
19 you put an X by?

20 A. Well, those two statements seem to be  
21 conflicting, and -- and I didn't believe the patient  
22 was stable during that time.

23 Q. Okay. But throughout the course of the  
24 time he spent with her he said she wasn't stable, but  
25 he did say she was stable up until the time he wrote

1 his note. That's not necessarily a conflicting  
2 statement, is it, because he spent time with her after  
3 he wrote his note?

4 A. Okay.

5 MS. LORANT: Objection.

6 BY MS. CHENEY:

7 Q. Right?

8 A. I didn't think that she was stable --

9 Q. Okay.

10 A. -- from the time she hit the door.

11 Q. Okay. So -- so it's not that his  
12 statements conflicted with each other? It's just that  
13 his statement conflicted with your opinions; is that  
14 right?

15 A. Well, I agree with one and disagree with  
16 the other, so.

17 Q. Well, if --

18 A. Yes, I guess -- I guess you're right in a  
19 sense.

20 Q. If she's there from 4 to 7 and at 7 she  
21 becomes unstable, it would be true that she was not  
22 hemodynamically stable the entire time, right?

23 A. That's correct.

24 Q. And so his statement would be correct,  
25 right?

1 MS. LORANT: Objection.

2 THE WITNESS: Yes.

3 Of course, he didn't mention the time he  
4 was talking about, so I --

5 BY MS. CHENEY:

6 Q. Right.

7 A. -- I really don't know what specifically  
8 he was referring to.

9 Q. Okay. And then there's a line on page  
10 82. The question is, "Was the decision not to give  
11 her system" -- I guess that should be systemic --  
12 "thrombolytics prior to the resuscitation based on  
13 your advice?"

14 And his answer, "I don't actually know  
15 the answer to that . . . but [Doctor #1] and I discussed  
16 that and felt that we should go for what we thought  
17 was the best possible therapy for her in that case  
18 which was what I wrote in my note which was catheter  
19 directed thrombolytics."

20 And is that the portion of the testimony  
21 on that page that caused you to put the line there?

22 A. Yes.

23 Q. And what is that -- why is that line  
24 there? I mean, what is it about that testimony?

25 A. I didn't understand what happened and

1 what the delay in using the thrombolytics was all  
2 about, and that -- honestly, I still don't know,  
3 because I don't know who really made that decision. I  
4 know it was discussed between two attendings, but  
5 if -- if the pulmonary critical care specialist had  
6 something to do with the decision of delaying systemic  
7 treatment, then I think he has some dogs in this  
8 fight.

9 Q. Okay. Let me see. Was there anything  
10 about [Nurse] deposition that caused you to put a  
11 little line or check out by the side?

12 A. I think there were some times that --  
13 that I put on there.

14 Q. Let's see. On page 31, what is that that  
15 you've got written out in the margin?

16 A. A PO2 of 75.

17 Q. Okay. And what's the significance of  
18 writing that out in the margin?

19 A. Should be -- 77 should be. She was  
20 correct. I was in -- incorrect.

21 Q. Okay. And then on page 38 --

22 A. I'm sorry. That was really pulse ox, not  
23 PO2.

24 Q. Okay. Page 38, you've got "1710" written  
25 out in the margin.

1 A. Yeah.

2 Q. Do you remember why that's written?

3 A. I was getting confused in time, and I  
4 wanted to make sure that when I looked back I could  
5 see the selective times without reading everything.

6 Q. Okay. Just for ease of your --

7 A. I don't know about you, but I have  
8 trouble with the military numbers and the clock  
9 numbers.

10 Q. Is the same -- is that the same reason  
11 why you wrote "1845" out in the margin on page 43?

12 A. Yes, ma'am.

13 Q. And then on page 50 you've got "?1855,"  
14 and that's down here where somebody refers to the time  
15 the 8:55 note. And is that your -- just your  
16 clarification that they're really referring to 6:55,  
17 not 8:55?

18 A. Correct. Or 1855, yeah.

19 Q. Right.

20 A. You got me going again.

21 Q. Yeah. So 1855 would be 6:55?

22 A. That's correct.

23 Q. P.m., right?

24 A. Right.

25 Q. Okay. And then let's see the next one,

1 please.

2 A. [Doctor #1]'s deposition.

3 Q. In [Doctor #1]'s deposition, again, there's  
4 a number of things highlighted. On page 18 there's  
5 the time "1555" written out in the margin. And,  
6 again, is that just to help you keep the time straight  
7 as you're going through --

8 A. Correct.

9 Q. -- for your second review?

10 A. Right.

11 Q. And then you've got an X out in the  
12 margin on page 22 by the highlighted testimony, "Did  
13 [Patient] require the supplemental oxygen that was being  
14 delivered through the rebreather mask throughout the  
15 time she was in the emergency department in order to  
16 keep her oxygen saturations above 90?"

17 And [Doctor #1] testified, "To the best of  
18 my knowledge," yeah -- "yes."

19 And is that the testimony that caused you  
20 to put that line out --

21 A. Yes, ma'am.

22 Q. -- in the margin?

23 And why -- why is that? Why is that  
24 there?

25 A. That tremendous amount of oxygen

1 requirement indicates respiratory instability, an  
2 unstable patient in my mind.

3 Q. And then on page 23 you've got an X out  
4 in the margin by the following testimony, "Did you try  
5 to lay her down to accomplish some procedure?

6 "Answer: When she took off her  
7 clothes -- took off her pants, she lay flat on the  
8 bed.

9 "Question: Is that the only time you can  
10 recall that she was laying flat?

11 "Answer: That's correct."

12 You have an X out there.

13 A. Yes.

14 Q. What's the importance of that testimony  
15 to you?

16 A. That's really the second respiratory  
17 stress test, I call them, that was attempted and  
18 failed.

19 Q. Respiratory stress test, is that --

20 A. That's what I call it.

21 Q. Okay. That's your own --

22 A. Yeah.

23 Q. -- your own thing?

24 A. The first was standing up, and she  
25 desatted even with high oxygen supplementation. This

1 was the second time when she just laid flat to remove  
2 her pants. She desatted markedly again.

3 Q. Okay. So just so that I'm clear, when  
4 you refer to respiratory stress test in this context,  
5 there's nothing I would be able to go to and --

6 A. No.

7 Q. -- research about a respiratory stress  
8 test? That's -- that's your terminology?

9 A. That's just my -- yes, my term.

10 Q. Okay. Then you've got the time "1710"  
11 out in the margin on page 24. Is that, again, just  
12 what we've discussed previously --

13 A. Correct.

14 Q. -- just to help keep the times straight  
15 for you?

16 A. (Witness nodding head.)

17 Q. And same thing on page 25. You've got  
18 "1745" and then an arrow down to "1800."

19 A. Let me see that.

20 I think that all those -- that discussion  
21 actually occurred sometime between the two time  
22 periods mentioned there, and I think I got that second  
23 number out of some notes or either -- or the  
24 deposition, one.

25 Q. Okay. So you're referring to this

1 highlighted testimony here. [Doctor #1] is saying, "I  
2 know about -- roughly about 5:45 I had had a  
3 discussion with the MICU team," M-I-C-U, "at which  
4 point they decided -- they thought that she -- sorry,  
5 they thought they needed elective intubation, and we  
6 discussed it at length with the family."

7           And what you're saying is that she had  
8 said roughly about 5:45, and you're saying that this  
9 discussion took place between 5:45 and 6:00?

10       A.    Something like that.

11       Q.    And then on page 36 you've got written  
12 out in the margin "Admit ICU 1610." What is -- I'll  
13 hand it to you so you can see it.

14           What is the significance of that  
15 notation?

16       A.    I think that that's when the information  
17 started being generated about this patient was  
18 critically ill, was an ICU admission, and there was  
19 some communication between [Doctor #3], the second-year  
20 resident, and [Doctor #5] (sic.) or something, who was  
21 the resident for medicine --

22       Q.    Uh-huh.

23       A.    -- that was going to be part of the team  
24 sending this patient to the ICU. And then there was a  
25 discussion about what labs were done and ordered and

1 orders made, and that order occurred at 1610.

2 Q. Okay. And what is the significance of  
3 that to you, or is this just --

4 A. I was just trying to put this whole  
5 picture together.

6 Q. Okay.

7 A. And at -- at that point I realized that  
8 there was some early input by the admitting team.

9 Q. And "early input by the admitting team,"  
10 you mean by the medical service?

11 A. Correct.

12 Q. And why is that important?

13 A. Well, I mean, I applaud them for doing  
14 that, because this patient, obviously, was going to be  
15 an ICU admission. The quicker you get people on  
16 board, the more likely you're going to have things  
17 flowing a little more smoothly and all the guns are  
18 trained in the right direction.

19 Q. And you've got an X out in the margin  
20 beside the testimony "Were you aware of the severity  
21 of the pulmonary hypertension?"

22 "Answer: I was."

23 Is that --

24 A. That's important.

25 Q. That's important to your opinions?

1 A. Absolutely.

2 Q. And why is that?

3 A. That's one of the indications for rapid  
4 onset of treatment with alteplase --

5 Q. What is --

6 A. -- t-PA.

7 Q. What -- what literature are you -- are  
8 you aware of that says that?

9 A. It's listed in Rosen's text under the  
10 reasons to give t-PA with heparin as opposed to -- to  
11 heparin alone.

12 Q. On page 42 you've got a circle around --  
13 there's some testimony that's highlighted which says,  
14 "The report is not generated until several hours to a  
15 day later. So, the report would have been verbally  
16 done by a (sic.) reading physician in cardiology and  
17 then transmitted verbally to a receiving physician.  
18 Whether that was [Doctor #6] or [Doctor #3], I am not  
19 sure."

20 And you've got a circle around "to a  
21 receiving physician."

22 A. Right.

23 Q. Why is that?

24 A. They're talking about the echo report,  
25 and that's -- that echo report is really where the

1 pulmonary hypertension was defined --

2 Q. Uh-huh.

3 A. -- and the right heart strain was  
4 defined.

5 Q. Uh-huh. And --

6 A. And I wanted to -- and I was trying to  
7 figure out how that information was -- if it was, in  
8 fact, given to the attending ER physician and  
9 attending MICU people or the ball was dropped  
10 someplace and it was not given. I don't know.

11 Q. Okay. So --

12 A. Although it seems to confirm that it was  
13 given to the ER attending, because she stated  
14 previously she knew about the pulmonary hypertension.

15 Q. Then on page 46 -- oh, that's an  
16 important page to you, it looks like. We've got out  
17 in the margin the time written "1645" beside some  
18 testimony that says "To the best of my knowledge,  
19 approximately 1645, as documented in the nursing  
20 record."

21 So I take it you're not -- you're not  
22 taking any issue with that? That's, again, just to  
23 help you as you review this a second time, right?

24 A. Right. Some of this information seems to  
25 be popping up in different areas and time zones, and I

1 was trying to put it all in a logical pattern.

2 Q. And then you've got two stars here beside  
3 highlighted testimony. The question is, "At 1710 when  
4 her heart rate was elevated into the 150s, would that  
5 reflect instability?"

6 And the answer, "It was an effort  
7 dependent change in her blood pressure and heart rate.  
8 She was trying to do something physically, and to say  
9 that -- and the fact that she recovered spontaneously  
10 without loss of medication" -- I don't think that's  
11 right.

12 A. Probably use of medication.

13 Q. Yeah.

14 "-- without any intervention on our part  
15 wouldn't necessarily mean that she was (sic.)  
16 unstable."

17 And then you've got a star by that.

18 And then you go down -- down a little  
19 bit, the question, "Did she also demonstrate transient  
20 instability when she was gotten off the bed to be  
21 weighed?"

22 "Answer: Well, her blood pressure didn't  
23 change significantly, and her heart rate did change a  
24 little. She had transient hypoxemia, yes. To say  
25 that she was unstable (sic.), I'm not necessarily in

1 agreement with that."

2           So you've got a star by that one as well.

3 Why did you star those two areas of testimony?

4     A.    Because I think those two points prove  
5 that she was unstable, and she was certainly unstable  
6 during the -- the periods.

7     Q.    During what periods?

8     A.    When she went through those stress tests  
9 that were mentioned earlier.

10    Q.    Okay.

11    A.    And that -- that makes this patient a  
12 critically ill, high-risk patient that should have  
13 been dealt with immediately.

14    Q.    Okay. According to -- well, we'll get  
15 into that later.

16           And then the following page, 47, you've  
17 got highlighted, "If a patient is able to maintain  
18 their own heart rate and blood pressure without  
19 significant intervention, I consider that relatively  
20 stable. Stable is not a black or white. It is a  
21 continuum of grey (sic.). And in her particular case  
22 she was relatively stable up to a certain point in her  
23 emergency department stay."

24           And then question, "But isn't it true  
25 that the two times . . . she was asked to do some type

1 of exertion, her saturations dropped?"

2 Her answer, "Her heart rate and her pulse  
3 didn't change significantly, nor did her mentation.

4 While her oxygenation may have changed, that doesn't  
5 necessarily make her unstable."

6 And you've got two stars there. So I  
7 take it that you considered that testimony to be very  
8 important as opposed to just important?

9 A. That's very important, correct.

10 Q. Okay. And why -- why is that very  
11 important?

12 A. This patient was unstable. Those two  
13 episodes proved the instability and proved the need  
14 for immediate and dramatic treatment, and I don't know  
15 why they were blowing off this patient. I don't  
16 understand that. I still don't understand to this  
17 day.

18 Q. What is the basis of your statement that  
19 they were blowing off this patient?

20 A. What time was that?

21 Oh, let me see, yeah.

22 MS. LORANT: I think it was the previous  
23 page that she was referring to.

24 THE WITNESS: Oh.

25 MS. CHENEY: Oh, sorry.

1 THE WITNESS: Well, at 1645 and shortly  
2 thereafter she demonstrated her instability. And even  
3 with the treatment that she was getting, the heparin,  
4 the high-powered oxygen, the IV fluids, even a small  
5 exertion would -- would topple this lady, unless she  
6 was sitting perfectly still, upright, with the -- with  
7 the treatments. That's not a stable patient.

8 BY MS. CHENEY:

9 Q. Okay.

10 A. And I don't know how the pa -- the  
11 physicians could call her stable in those situations.  
12 And the instability is what really rings the bell to  
13 start the game of immediate treatment, not this delay  
14 that occurred.

15 Q. Okay. So in your opinion not giving t-PA  
16 to this patient at that point in time is blowing the  
17 patient off?

18 MS. LORANT: Objection.

19 THE WITNESS: Once the echo -- once the  
20 echo was done and proved the patient had pulmonary  
21 hypertension, right heart strain, that's when the t-PA  
22 should have been given.

23 BY MS. CHENEY:

24 Q. And not giving t-PA to a patient with  
25 suspected pulmonary embolism under those circumstances

1 in your opinion is equivalent to blowing the patient  
2 off?

3 A. Absolutely.

4 Q. On the next page -- sorry. On page 51  
5 out in the margin there is -- you've got written  
6 "1745," the time. Is that just, again, to help -- to  
7 help for purposes of your --

8 A. Right.

9 Q. -- subsequent review?

10 A. Correct.

11 Q. And then on page 52 you've got some  
12 testimony that's actually circled -- highlighted and  
13 circled. The testimony is, "Okay, to your knowledge,  
14 had VIR been notified to come up and evaluate her?

15 "Answer: I don't know.

16 "Question: Who would have had  
17 responsibility for that?

18 "Answer: The MICU team, [Doctor #6], and  
19 indirectly [Doctor #3]."

20 And, actually, what you've got circled  
21 are the questions.

22 And then further down the question,  
23 "[Doctor #6] notifies [Doctor #3], [Doctor #3] notifies VIR, and VIR  
24 notifies Anesthesia.

25 "Answer: Right."

1           Let me just show you that and ask you why  
2 that particular testimony has been circled by you.

3           A.   Well, it was described earlier that the  
4 whole plan was to have the patient intubated, taken to  
5 the CAT scan, and go to the VIR. That was the plan  
6 that was in effect I think at 1700 hours.

7           We're now talking, you know, another 45  
8 minutes to an hour later. Nothing really has  
9 happened.

10          The second thing is, you know, you've got  
11 to have a backup for plans like that, because that's a  
12 very complex scheme, to get one thing done, get  
13 another thing done. It involves, you know, five or 10  
14 different people all -- all knowing what the rules are  
15 and when the game starts.

16          And none of that was done. I believe the  
17 CT was thought to be saving a place for this patient  
18 at one time. But whether the VIR people were ever  
19 even involved, I don't know. They certainly never saw  
20 the patient in the ER, as far as I can tell.

21          So, I mean, that part of the plan  
22 although it was mentioned was really never put into  
23 effect at all, and there was no backup.

24          Q.   And when you say they needed backup, what  
25 specifically are you referring to? What do you mean

1 by that backup?

2 A. Well, what else can we do if these groups  
3 of things can -- cannot be accomplished because of  
4 other people being not -- not available or whatever  
5 situation.

6 Q. You mean like a contingency plan?

7 A. Absolutely. What can we do right now to  
8 this unstable patient who, obviously, has a pulmonary  
9 embolus if this other plan doesn't work.

10 Q. You said obviously has a pulmonary  
11 embolism. What -- what do you base that on?

12 A. Well, that's what everybody was thinking  
13 that she had, number one. And I think the echo proved  
14 that it was really the only consideration.

15 Q. So in your opinion once she had the  
16 echocardiogram pulmonary embolism had been  
17 definitively proven?

18 A. Yes. And, more importantly, the  
19 postpartum cardiomyopathy was ruled out.

20 Q. In all these different studies that  
21 you've read about t-PA, pulmonary embolism, things  
22 like that, is it the case that t-PA was only given to  
23 patients with documented definitive pulmonary  
24 embolism?

25 A. No, ma'am. If it's suspected and the

1 patient's unstable, it's been given without proof.

2 Q. In these -- which -- which of these  
3 papers?

4 A. Oh, no. I thought you meant my  
5 experience.

6 Q. No, no. All the papers that you have  
7 reviewed, have you ever seen any -- anybody who has  
8 ever given or recommended giving t-PA to patients in  
9 whom pulmonary embolism has not been definitively  
10 demonstrated?

11 A. The paper on -- I'm sorry. Rosen's book,  
12 the page that I copied or pages that I copied talking  
13 about the use of t-PA in people who are unstable from  
14 what's thought to be a pulmonary embolism and people  
15 who are stable but have right heart strain, it was  
16 recommended to give the t-PA --

17 Q. Even without --

18 A. -- systemically.

19 Q. Sorry. I didn't mean to interrupt you.

20 Even without confirming the diagnosis?

21 A. Yes. I mean, confirming the diagnosis is  
22 a very good idea, but you have to realize that you're  
23 weighing -- weighing things all the time as to when to  
24 start the treatment.

25 Q. Okay.

1 A. And confirming the diagnosis may take 20  
2 to 30 minutes, which you may not have.

3 Q. Okay. The -- we had previously marked  
4 Rosen's Emergency Medicine, obviously not the whole  
5 textbook, but the pages that you provided to us, as  
6 Exhibit 34. Tell me where --

7 A. Rosen, yeah.

8 Q. Tell me where in that that you -- that  
9 you find the statement that t-PA should be given  
10 before diagnosis is --

11 A. Confirmed.

12 Q. -- definitively shown.

13 A. Let's see.

14 You know, it doesn't mention how the  
15 diagnosis -- or what is needed to make the diagnosis.  
16 It just said the people who are treated for pulmonary  
17 thromboembolism and the value of treating these people  
18 rapidly.

19 Q. Okay.

20 A. Even if they don't have hemodynamic  
21 instability but with right heart strain. But they  
22 didn't define how the diagnosis was made.

23 Q. Okay.

24 A. It could be clinical. It could have  
25 been, you know, VQ scans. It could have been

1 anything, CTs.

2 Q. On page 53 you've got something written  
3 out in the margin again. Let me just get you to tell  
4 us what that says.

5 A. It says, "Plan: 1750."

6 Q. Oh, plan. Of course it does.

7 And what is the -- what is the  
8 significance of that?

9 A. That -- that's, apparently, when  
10 everybody got together, discussed all the  
11 possibilities, and -- and were still making the plan.  
12 That's about almost two hours after arrival.

13 Q. Okay. On page 59 you've got a -- you've  
14 got some highlighted testimony with an X out to the  
15 side in the margin. And you were asked -- you weren't  
16 asked. [Doctor #1] was asked a question about "Did you  
17 see that something (sic.) needed to be done stat or  
18 was this something that could just kind of -- when  
19 people got to it . . . could be done on a matter of  
20 course?"

21 And [Doctor #1] says, "Neither. I don't  
22 think either was true of this. I think . . . things  
23 needed to be done in an expeditious fashion, but we  
24 didn't need to do it stat, sooner than already there.  
25 We didn't need to do that.

1 "As far as specifically saying that --  
2 your question was, could it be done in an emergency  
3 protocol versus whenever somebody got to it. I don't  
4 think --" of "both of those are not accurately  
5 describing how --" and then she sort of trailed off.

6 Why did you put the mark by that  
7 testimony in particular?

8 A. That was a very confusing response I  
9 thought to a good question. This patient was  
10 critically ill and needed things to be done as fast as  
11 possible.

12 Q. Okay.

13 A. And that's stat.

14 Q. Okay. How do you -- how -- how do you --  
15 how does [Doctor #1], what does she mean when she says  
16 expeditious, do you know?

17 A. I have no idea.

18 Q. What do you -- what do you think  
19 expeditious means?

20 MS. LORANT: Objection.

21 THE WITNESS: To me that means as soon as  
22 possible.

23 BY MS. CHENEY:

24 Q. Okay.

25 A. But she doesn't apparent -- apparently

1 feel that way from her description there.

2 Q. So -- on page 61 you've got stars out  
3 by -- beside of the following testimony: "During that  
4 50, whatever, 55 minute period . . . from 1750 on, did  
5 you get any feedback from anyone that the steps were  
6 moving along to get [Patient] into the scanner?"

7 And her answer, "The scanner wasn't the  
8 hold up" for us. "The scanner . . . held the table  
9 open for us."

10 And you have a star out by that. Why is  
11 that?

12 A. That corresponds to what [Doctor #3] also said,  
13 that they were holding the scanner.

14 Q. Okay. And then she's got an answer here,  
15 "I hadn't received confirmation from VIR, nor had I  
16 seen an anesthesiologist, nor had I seen a Vascular  
17 Interventional radiologist come to assess the patient.  
18 So, I would assume that they were not ready for the  
19 patient."

20 And then the question, "You didn't see  
21 either one of them come in and evaluate her?"

22 And the answer, "Not until later."

23 And you've got a star out by that  
24 testimony. Tell me why.

25 A. Well, if that was part of the plan,

1 knowing that was going to be -- had to be done rapidly  
2 right after the CT, why didn't she herself or her  
3 resident call the VIR people and ask them, you know,  
4 when can -- when are you going to get here, because we  
5 don't have time to sit around, we have to treat this  
6 thing stat and expeditiously at the same time.

7 Q. On page 64 out in the margin you've  
8 got -- there's some highlighted testimony about "We  
9 initially started our discussion . . . roughly around  
10 (sic.) 1550. I had further discussions with Dr.  
11 [Doctor #4] at . . . 1625 or 1630."

12 And then you've got out in the margin  
13 1550 with an arrow down and then 1625. Is that just  
14 to denote the time that those discussions took place?

15 A. Correct.

16 Q. And is there anything more  
17 significance -- significant about it other than just  
18 an easy way for you to come back and find those times  
19 later?

20 A. Well, and the fact that that seems to  
21 correspond to the times that were mentioned earlier  
22 about the early intervention of the medical people.

23 Q. Okay. And then on page 72 out in the  
24 margin somebody -- there was a question asked,  
25 your con -- to [Doctor #1] about her conversation with

1 [Doctor #4] at 1620. And then [Doctor #1] replies

2 "1820."

3 And you've got "1820" out in the margin.

4 Is that just to clarify that that was the time --

5 A. Correct.

6 Q. -- not 1620?

7 A. Yeah.

8 Q. On page 76 --

9 A. Wait. It was 1620, wasn't it? Shouldn't

10 it have been 1620?

11 Q. Eighteen -- well, you've got written 1820

12 and the witness says 1820. 1620 would have been 4:20.

13 A. Yeah.

14 Q. 1820 would have been 6:20, right?

15 A. Right.

16 See what I mean?

17 Q. Uh-huh. And so you've got 1820 written

18 out here, which I presume you're saying the correct

19 time should be 6:20, not 4:20, right?

20 MS. LORANT: You should let him see what

21 it pertains to.

22 MS. CHENEY: Yeah.

23 THE WITNESS: Actually, let me look,

24 because that was discussed on the previous page.

25 It should have been 16 -- 1620, not 1820.

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1 BY MS. CHENEY:

2 Q. Why do you say that? It's talking about  
3 a discussion with [Doctor #4].

4 A. Right, and that was somewhere between  
5 1550 and 1625 --

6 Q. Okay.

7 A. -- at least at the initial conversation.

8 Q. Okay. That's --

9 A. So this really should be 1620, not 1820.

10 Q. On page 73, "So, did you see him as  
11 someone to whom you were asking consultative advice,"  
12 referring to [Doctor #4].

13 And [Doctor #1] answered, "In some sense.  
14 Usually a consultation is made for a service who may  
15 have primary expertise in some facet of the patient's  
16 care. He was going to be taking over her care, so  
17 that wouldn't be called a consultant. That would be  
18 called the admitting service.

19 "So, I wouldn't call this a consultation.  
20 I would be calling this a -- essentially in advance of  
21 a transfer . . . care."

22 And you've got that highlighted and then  
23 you've got a star by that. Can you tell me why you  
24 marked that particular testimony?

25 A. Well, I wanted to mark that because

1 somewhere in the discussion between these two doctors  
2 a decision was made and a plan was put together  
3 without secondary plans. And, you know, if that plan  
4 was -- if -- if [Doctor #1] made the plan to get this  
5 patient t-PA right away and that was blocked by  
6 [Doctor #4] saying let's do it, you know, with catheter  
7 directed knowing there's going to be a delay, I'd like  
8 to know that. I really don't know who made that  
9 decision.

10 Q. Okay.

11 A. And that doesn't answer the question.

12 Q. But as far as the semantics issue about  
13 whether you're a consultant or in advance of transfer  
14 care, that type of thing, that's not important to you,  
15 I take it?

16 A. I don't know what all that means.  
17 That's -- that's begging the question, I think.

18 Q. On page 74 you've got a star out by the  
19 following testimony: "I was unaware that he had  
20 advanced training in pulmonary. I knew that he was  
21 the MICU attending of record -- of service, and that's  
22 why he was there taking care of the patient.

23 "He's also significantly older than I am  
24 which may have given weight towards what he said a  
25 little bit differently than someone who is younger

1 than me."

2 And you've starred that. Why?

3 A. I think that throws some more light on  
4 the fact that perhaps the delay was not only the --  
5 the problem of [Doctor #1] but maybe [Doctor #4] was  
6 the -- the overriding cause of that delay in  
7 treatment.

8 Q. You say "maybe." Have you formed any  
9 opinions to a reasonable degree of medical certainty  
10 about whether [Doctor #4] was the cause of that?

11 A. That's going to be up to those two to  
12 decide who did it. I don't know who did it. There  
13 was a delay, you know, period. The delay should not  
14 have been there. I'd like to find out who caused the  
15 delay.

16 Q. On page 76 you've got a circle around the  
17 following testimony. The question, "And did you also  
18 have a concern that VIR hadn't gotten up there?"

19 Your answer, "No, I wasn't concerned" --  
20 her answer, I'm sorry. "No, I wasn't concerned at  
21 that point in time because I know . . . the calls had  
22 been made, and they were making every effort, at least  
23 according to my residents, to get the lab open and  
24 available."

25 And then you've got a circle around that

1 testimony. Can you tell me why?

2 A. Because we find out with other  
3 depositions that there were no calls made. VIR from  
4 what we can tell really hadn't been notified and  
5 hadn't set up to take the case.

6 Q. What other depositions have you found  
7 that out from?

8 A. [Doctor #2] says he never called. He  
9 thought it was done by [Doctor #3]. [Doctor #3] said she  
10 never called.

11 Q. So based on [Doctor #2] and [Doctor #3]'s  
12 deposition testimony, have you formed an opinion that  
13 the VIR team was never called on November 24, 2003?

14 A. My opinion is that they were not, because  
15 I have not seen anybody that made that -- that  
16 communications. [Doctor #1] thought it was all being  
17 taken care of and probably told the residents to do  
18 it, which would be fine. But once the delay kept  
19 going, another call should have been made to say what  
20 time can we do this.

21 Q. And is your assumption that they were not  
22 called one of the things that forms the basis for your  
23 opinions in this case?

24 A. Yes.

25 Q. On page 76 at the bottom of the page

1 you've got a handwritten note, which I can read. It  
2 says, "How did she know this?" And you're referring,  
3 apparently, to the testimony right above that where  
4 [Doctor #1] says, "I know . . . they had a patient they  
5 were finishing up with," talking about VIR. "Whether  
6 or not it was a nursing finish up with or a doctor  
7 finish up with, I don't know the answer. I don't know  
8 the specifics of that."

9 And you've got, How did she know?

10 A. Right.

11 Q. And that's, I guess, self-evident?

12 You're just questioning where she got that  
13 information?

14 A. Correct.

15 Q. Then we've got more highlighted testimony  
16 throughout and come up to page 94 and there's a  
17 question, "So, respiratory arrest does not mean that  
18 she stopped breathing?"

19 "Answer: -- that she stopped breathing,  
20 that's correct.

21 "What does it mean then?"

22 "Respiratory arrest -- respiratory  
23 failure means the lack of ability to oxygenate her  
24 bloodstream, oxygenate her own blood."

25 And you've got a star with yellow

1 highlighting and then filled in with ink beside that  
2 testimony. Is there any significance to the fact that  
3 it's yellow highlighting and ink in that star whereas  
4 it has only been yellow highlighting in the previous  
5 stars?

6 A. I think I got tired of just highlighting  
7 it once. I wanted to change my method a little bit.

8 That's an important statement.

9 Q. Tell me why.

10 A. Well, respiratory arrest is just that.  
11 It's a cessation of breathing.

12 Q. Have you formed an opinion in this case  
13 that -- that [Patient] had a respiratory arrest?

14 A. I think she did, yes, during intubation.

15 Q. So your opinion would be that she  
16 actually stopped breathing?

17 A. Yeah, on her own.

18 Q. What do you mean by that?

19 A. Well, if they'd put the endotracheal tube  
20 in, she'd be assisted -- having assisted ventilation.

21 Q. On page 101 you've got out in the  
22 margin -- again, I can read this -- it says, "Code:  
23 1919," and this is just a shorthand for testimony  
24 right beside it that says, "looks like chest  
25 compressions were started at 1919."

1           That's just for your ease of review, I  
2 take it?

3       A.   Right.

4       Q.   Is there anything more significant about  
5 the fact that chest compressions were started at 1919,  
6 according to the code sheet?

7       A.   That's just the time it was --

8       Q.   Okay.

9       A.   -- happened.

10      Q.   And then on page 104 we've got a star out  
11 by testimony, "Question: So, the compressions  
12 actually started before the documentation here?

13           "Answer: Yes.

14           "Question: You . . . remember that?

15           "Answer: No, I know . . . we did a  
16 single set of chest compressions. So, I don't know  
17 exactly -- the patient was not in PEA at the time we  
18 did chest compressions.

19           "So, this does not accurately reflect  
20 that set of chest compressions. We did a prophylactic  
21 set of chest compressions in order to dislodge --  
22 attempt to dislodge this clot."

23           And you've got that testimony starred.

24 Can you tell me why?

25       A.   Again, that's a little conflicting as to

1 from the previous area that was starred and shaded.

2 Q. Okay.

3 A. So, really -- and I can understand. It's  
4 very hard to document exactly when the code starts and  
5 when CPR starts, because you may only have two or  
6 three people in the room and to get the action going  
7 is more important than documentation.

8 Q. Was it your understanding from reading  
9 [Doctor #1]'s deposition, as well as other depositions,  
10 perhaps, that before they actually did chest  
11 compressions for -- for cardiac resuscitation they  
12 were doing a set of prophylactic chest compressions in  
13 order to attempt to dislodge the clot?

14 A. Correct. The clot was blocking all  
15 pulmonary vascular return to the heart, so they had to  
16 get that clot out of the way in some fashion to get  
17 blood back to the heart to have any functional  
18 cardiac --

19 Q. Okay.

20 A. -- activity.

21 Q. And I take it you're not critical of  
22 that --

23 A. No.

24 Q. -- attempt to do that?

25 And then on page 105 you've got "1845"

1 written out in the margin. That reflects testimony  
2 that she thought it was well within the realm of  
3 possibility that -- that she had a pulmonary embolism  
4 at 1845?

5 A. I better read that.

6 Q. Yeah. And just tell me if that's just  
7 your usual practice in these depositions of noting the  
8 time out by the side or if there's something more  
9 significant meant by that.

10 A. I cannot say I put the time on each  
11 deposition. I think the time frames are pretty  
12 significant in this particular case, and that's why I  
13 keep doing the time thing.

14 She mentions she thought the diagnosis of  
15 pulmonary embolism was -- was in the realm of  
16 possibility at 1845.

17 Q. Uh-huh. And --

18 A. That's astounding. Of course, that  
19 doesn't mean that she didn't have that feeling before  
20 that; but if that's the first time she had that  
21 inkling, I can't understand that.

22 Q. Okay. And then there's some  
23 documentation -- I mean, there's some testimony on  
24 page 108 that t-PA was -- well, documentation at 1915  
25 of t-PA, and you just wrote "1915" out in the margin.

1 A. Right.

2 Q. And, again, is that just --

3 A. Correct.

4 Q. -- to keep track of the times?

5 Other than that, is there anything  
6 significant about the t-PA at 1915? In other words,  
7 was your -- was your notation here meant to indicate  
8 anything other than just keeping track of the time?

9 A. It was to keep track of the time. And  
10 I -- I really was trying to find out where it was  
11 given, by whom.

12 Q. Okay.

13 A. And I -- and I wasn't able to do that.

14 Q. Okay.

15 THE VIDEOGRAPHER: Can we go off record  
16 real quick to change tapes?

17 MS. CHENEY: Sure.

18 THE VIDEOGRAPHER: We're going off record  
19 at 10:53 a.m.

20 (A recess was taken.)

21 THE VIDEOGRAPHER: This is tape two of  
22 the continued deposition of Dr. Philip Leavy. We're  
23 back on the record at 11:00 a.m.

24 BY MS. CHENEY:

25 Q. Okay. My -- we've concluded with the

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1 deposition of [Doctor #1]. Can I see your next one,  
2 please, sir?

3 A. It's [Doctor #2].

4 Q. Okay. And in [Doctor #2]'s testimony you've  
5 got -- you've highlighted some things up through page  
6 23, and then on page 23 he makes the statement that he  
7 thinks "the treatment plan was for her to go to CAT  
8 scan and then, depending on the results, go to  
9 Interventional Radiology."

10 And you've got that -- and then the  
11 question was, "And that was the plan, as you knew it,  
12 at the beginning of your involvement in her care?"

13 And he says, "Yeah."

14 And you've got that starred. Can you  
15 tell me why?

16 A. He became involved about 1700 hours.

17 Q. Okay.

18 A. So the plan had already been decided  
19 upon.

20 Q. Okay. And then on page 45 the question  
21 is, "And . . . that usually -- would that be you in  
22 the situation that's taking place," referring to  
23 making the telephone call to contact VIR.

24 A. Correct.

25 Q. And his answer, "Usually it would be --

1 that would be the decision of the ordering physician.

2 "Do you know who ordered that in this  
3 case?

4 "I believe it was the ICU team."

5 Oh, I guess we're not talking about  
6 making the phone call. We're talking about making the  
7 call, making the decision.

8 "I believe it was the ICU team.

9 "Question: So, Dr. Kirk and his team?

10 "Answer: Yeah."

11 And then you've got a star by that. Can  
12 you tell me why?

13 A. Those exact two things. I didn't know if  
14 the call was the plan, this alleged plan that was in  
15 existence, or, in fact, a simple phone call to get the  
16 plan going. Somebody had to make the phone call --

17 Q. Uh-huh.

18 A. -- and it looks to me like that was not  
19 done.

20 Q. Okay. The -- if that phone call was  
21 made, would that change your opinions in any way, not  
22 that we've discussed your opinions yet, but --

23 A. It depends on what was discussed in that  
24 phone call.

25 Q. Okay. We'll talk about that later.

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1           On page 77 there's the question, "And  
2 then VIR would have had to do with the procedures of  
3 the thrombolytic administration, correct?"

4           "Answer: Yep.

5           "Question: How long would that whole  
6 process take from the time . . . she was -- the  
7 initiation of the intubation through the completion of  
8 the administration of thrombolytics?"

9           "Answer: I don't know.

10          "Question: More than an hour?"

11          "Answer: Probably, yeah."

12          And you've got a star by that testimony.

13 Can you tell me why?

14         A.    Because I think it would take more than  
15 that, more than an hour to get all that stuff done  
16 that had to be done.

17         Q.    How long do you think it would take?

18         A.    The intubation, the CAT scan, the  
19 continuing respiratory assistance, if everything  
20 worked perfectly they would probably get it done  
21 within an hour to an hour and a half, if everything  
22 worked in -- in direct line-up.

23         Q.    Okay. But it's not always a perfect  
24 world, correct?

25         A.    It rarely is a perfect world.

1 Q. So how long would you think it would  
2 take, you know, considering that it's not a perfect  
3 world and things don't necessarily happen that  
4 quickly?

5 MS. LORANT: Objection.

6 THE WITNESS: I really can't answer that  
7 question. My only experience has been locally, and  
8 that's taken much longer than that to get the patient  
9 just over to interventional radiology and back, not  
10 involving intubation but involving pre CT.

11 BY MS. CHENEY:

12 Q. Okay. So locally what would the usual  
13 time be?

14 A. I don't know the average. It's not done  
15 very often from the ER.

16 Q. Okay.

17 A. My experience has been it's two to  
18 two-and-a-half hours to get everything done and back,  
19 and that's if -- and that's during the day during the  
20 week. After hours it may take a little longer to get  
21 people who aren't necessarily in the hospital at that  
22 time.

23 Q. And when you say "after hours," what do  
24 you consider to be after hours?

25 A. The hospital hours -- normal hospital

1 hours are probably 9 to 5.

2 Q. So after 5:00 it might take longer to get  
3 a team assembled and get the patient over there and  
4 get all these things --

5 A. The possibility exists, and it's pretty  
6 high on the ladder.

7 I mean, it could fall into place  
8 perfectly; but, as we said earlier, it's unlikely  
9 everything's going to fall into place --

10 Q. Right.

11 A. -- unless it's really planned.

12 Q. Okay. Let's see the next -- I think  
13 we're through with [Doctor #2] here.

14 A. Yeah. This is [Doctor #3].

15 Q. And with regard to [Doctor #3], there's some  
16 testimony on page 35 that you have a line out beside.  
17 They're talking about [Patient], the nonrebreather mask  
18 that she had on. And the question is, "She took it  
19 off herself or" -- well, she had testified that "she  
20 had removed her mask once or twice, and I was able to  
21 see that her lips were pink.

22 "Question: She took it off herself or  
23 did she do it (sic.) at the request of someone?

24 "Answer: She took it off herself.

25 "Do you know why?

1 "Answer: I don't know."

2 Why do you have a line out by that  
3 testimony?

4 A. I'm wondering if that wasn't a hypoxic  
5 response that the patient had.

6 Q. What do you mean?

7 A. When people are -- are hypoxic, they get  
8 confused and -- and agitated, sometimes combative, and  
9 they take off whatever oxygen or tubes they have.

10 Q. Okay. Then on page 62 -- have you formed  
11 any opinion to a reasonable degree of medical  
12 certainty that that was a hypoxic response?

13 A. I don't know what it was.

14 Q. Okay. On page sixty -- I'm sorry.

15 A. It wasn't mentioned anyplace in anybody  
16 else's notes. I don't know what it meant.

17 Q. Okay. On page 62 there's a question, "Is  
18 there a difference in the -- or a significance in a  
19 dilated left atrium versus a dilated right atrium in a  
20 patient who is thought to have pulmonary embolism?"

21 And [Doctor #3]'s answer, "It would be more  
22 within the lines of a -- consistent with a diagnosis  
23 of pulmonary embolism if a patient had a dilated right  
24 atrium."

25 And you've got that testimony starred.

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1 Can you tell me why?

2 A. She's accurate.

3 Q. Okay. And then she's got some testimony,  
4 "Our treatment" -- we're talking about "If a patient  
5 is unable to lie down due to shortness of breath, is  
6 there any test that can be done to give you a  
7 confirming diagnosis," presumably of PE.

8 And she says, "If a patient were able to  
9 lay down, generally speaking, there are several  
10 diagnostic tools that we've talked about to help in  
11 your evaluation, but in my knowledge," that would --  
12 "they would not be a confirmatory test.

13 "Question: So if a confirmatory test  
14 were to be done, would that patient have to be sedated  
15 and intubated?

16 "Answer: It would, generally speaking,  
17 depend on the patient's condition. If their condition  
18 warrants intubation, then the (sic.) patient would be  
19 intubated, at which" -- "at which point they would be  
20 able to lay flat."

21 And then this part is what you've got  
22 highlighted: "But . . . our treatment of patients  
23 does not hinge on confirmatory tests. If we have a  
24 high suspicion of someone having a pulmonary embolism,  
25 we'd proceed directly to treatment."

1           And you've got that highlighted and then  
2 you've got a star by that. Can you tell me why?

3       A.   Well, I believe that's exactly what  
4 should have been done.

5       Q.   So her statement was, in your opinion, an  
6 accurate statement of what the proper thing to do is?

7       A.   What should have been. It wasn't done,  
8 but that's what should have been done.

9       Q.   Okay. Any other depositions that you've  
10 reviewed?

11      A.   Did we do -- I know I reviewed [Doctor #4]'  
12 deposition. I don't know if you have it there or not.

13      Q.   We talked about him first.

14      A.   Okay.

15      Q.   And then, yeah, there's his CV.

16      A.   Okay.

17      Q.   I don't need that.

18           And what other documents have you brought  
19 with you?

20           You brought your affidavit, and we've  
21 already had that marked as a -- an exhibit. Can you  
22 tell me how that affidavit came about?

23      A.   Over several discussions with Ms. Lorant.

24      Q.   Okay. And according to -- well, I'll ask  
25 you about that later.

1           And there was some correspondence that  
2 you referred to?

3       A.   Yes, when I was sent the -- the initial  
4 information. And subsequent correspondence, every one  
5 had a --

6       Q.   Uh-huh.

7       A.   -- a letter on it, yeah. I don't know  
8 where those are.

9       Q.   Okay. You had it right there.

10       MS. LORANT: I might have -- look in  
11 the -- I picked up a whole bunch of stuff. I think  
12 there was something stuck in the exhibits, my notes.

13       MS. CHENEY: This is the letter dated  
14 April 5th, 2004.

15       MS. LORANT: I object to marking that as  
16 an exhibit.

17       MS. CHENEY: To marking it or --

18       MS. LORANT: Both.

19       MS. CHENEY: For identification, and then  
20 we can have it sealed or whatever and argue about it.  
21 I mean, we're going to have to -- we're going to have  
22 to take it before the court, so it needs to be marked  
23 for identification, and somehow somebody needs to save  
24 it in a secure place where it can't be --

25       MS. LORANT: Okay. I object to it being

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1 used as evidence, but if you want to mark it for  
2 identification --

3 MS. CHENEY: Let me mark it for  
4 identification as Exhibit 38.

5 (The document was marked as requested.)

6 BY MS. CHENEY:

7 Q. Just hand you this letter and ask you to  
8 tell me if that's --

9 MS. LORANT: Let me just see the date.  
10 April 5th.

11 BY MS. CHENEY:

12 Q. -- the first letter that you ever  
13 received from plaintiffs' counsel concerning this  
14 case.

15 A. I think this is the first written  
16 communication we had, yes.

17 Q. Okay. And does that letter contain any  
18 factual information about the case?

19 A. It just goes over what -- what was --  
20 accompanied this letter, which is the medical records.  
21 And she also mentions the -- what are the  
22 idiosyncrasies of North Carolina medical  
23 malpractice -- medical negligence law.

24 Q. Which is?

25 A. That local standards are policy.

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1 Q. Okay. But, otherwise, no factual

2 information about the case or --

3 A. Well, it mentioned [Patient]'s name and had an

4 unfortunate death, but that's -- nothing very specific

5 at all.

6 Q. And that letter accompanied medical

7 records --

8 A. Yes, ma'am.

9 Q. -- I take it?

10 A. Uh-huh.

11 Q. And the medical records that you received

12 are those that you have in front of you at the present

13 time?

14 A. Yes.

15 Q. Have -- other than the few pages that we

16 identified as an exhibit previously, have you received

17 any other medical records?

18 A. I don't believe so, no.

19 Q. Okay. At the time you gave your

20 affidavit there -- what is the date of that affidavit?

21 A. 18 May 2004.

22 Q. And was that shortly after you had

23 completed your review of the medical records and

24 formed your opinions --

25 A. Yes.

1 Q. -- in this case?

2 And I take it that your opinions were  
3 formed based solely on a review of those medical  
4 records and not anything that was contained in Ms.  
5 Lorant's letter that's been marked as -- for  
6 identification as Exhibit 38?

7 A. My opinions were formed on my review of  
8 the medical records, correct.

9 Q. Okay. You, obviously, had not had an  
10 opportunity to review the depositions of any of the  
11 healthcare providers involved in [Patient]'s care at the  
12 time you formed your opinions --

13 A. Correct.

14 Q. -- is that correct?

15 Has your review of -- your subsequent  
16 review of any of the depositions of [Patient]'s healthcare  
17 providers changed your opinions in any way, the  
18 initial opinions that you formed upon review of the  
19 medical records?

20 A. After reading the depositions several  
21 times, I was still a little bit confused as to who was  
22 responsible for making the decision to do the VIR, who  
23 was responsible for making the contact with the VIR,  
24 and if there was a secondary or a backup plan if VIR  
25 wasn't available.

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1 Q. Do you have any evidence at all to  
2 suggest that VIR was not contacted?

3 MS. LORANT: Objection.

4 BY MS. CHENEY:

5 Q. Other than what we've already talked  
6 about, the fact that [Doctor #2] said he didn't and  
7 [Dr. #3] said she didn't.

8 A. Right, and they thought that the MICU  
9 people did.

10 Q. Okay.

11 A. As far as we know, no one's contacted  
12 them.

13 Q. Okay. But in terms of evidence, do you  
14 have any evidence that the -- that the medical team  
15 did not contact VIR?

16 MS. LORANT: Objection.

17 THE WITNESS: No.

18 BY MS. CHENEY:

19 Q. And --

20 A. Other than the fact that the VIR never  
21 showed up.

22 Q. Okay. Do you know -- do you have any  
23 knowledge or information about whether VIR was  
24 available or not?

25 A. Again, I don't know, I mean.

1 Q. Okay. Is it the case that if somebody  
2 contacted VIR and VIR was available and was on the  
3 way, then this need for a backup plan becomes less  
4 important?

5 MS. LORANT: Objection.

6 THE WITNESS: Well, I'd have to know  
7 when.

8 BY MS. CHENEY:

9 Q. Okay. What's the latest VIR could have  
10 been contacted in your opinion and still have been  
11 okay?

12 A. Well, the contact had been made. You had  
13 to find out what the availability of that particular  
14 procedure was at that particular time. Immediately  
15 after the echo was read we have proof positive of the  
16 need for thrombolytic therapy.

17 Q. And what is the proof positive in the  
18 echo of the need for thrombolytic therapy?

19 A. Right heart strain, dilated right atrium.

20 Q. What -- what things can cause right heart  
21 strain and a dilated right atrium other than pulmonary  
22 embolism?

23 A. In this particular patient?

24 Q. Well, in this patient or in any patient.

25 A. Well, in this particular patient the only

1 thing would be a pulmonary embolus.

2 Q. So there are no other possible causes of  
3 right heart strain --

4 A. You could get --

5 Q. -- in this patient?

6 A. In other patients you could get a tension  
7 pneumothorax would cause it, you could get chronic  
8 pulmonary hypertension from preexisting lung disease.

9 This lady had a -- a chest x-ray that did  
10 not demonstrate pneumothorax and did not demonstrate  
11 any chronic lung disease.

12 Q. What kind of preexisting chronic lung  
13 disease are you talking about that could give rise to  
14 findings of right heart strain?

15 A. Boy, that's a good list. I mean, any  
16 kind of -- oh, asthma, COPD, and various forms of  
17 those diseases. Anything that increases the -- the  
18 delay in oxygenation and flow of blood through the  
19 pulmonary vasculature.

20 Q. Pulmonary hypertension?

21 A. That's what I'm talking about.

22 Q. Anything else about the depositions  
23 that -- well, you said after the depositions you were  
24 confused as to these certain things. Did reading the  
25 depositions, though, change your opinions in any way,

1 your original opinions?

2 A. No, actually not. I was interested -- it  
3 was interesting to me that so many people thought  
4 other people were doing certain things that were part  
5 of the plan; and I can't see where any of those things  
6 were done, the major one being the arranging with VIR  
7 for an appropriate time and treatment.

8 Q. Okay. You said so many people thought  
9 that other people were doing things. Who was it that  
10 thought other people were doing things, and what  
11 things was it that you're referring to?

12 A. Specifically I'm talking about the call  
13 to VIR to set it up immediately or not, if it was  
14 impossible.

15 Q. Okay. And which people --

16 A. [Doctor #1] I think thought Dr. -- her  
17 resident, Dr. Yung, was going to do it.

18 Q. [Doctor #3], you mean?

19 A. [Doctor #3], excuse me.

20 Q. It's confusing.

21 A. [Doctor #1] and [Doctor #3].

22 [Doctor #1] thought [Doctor #3] was going to do it.  
23 [Doctor #3] thought the MICU people were going to do it. The  
24 second resident that came on at 1700 hours thought  
25 that [Doctor #3] did it.

1 I mean, who's holding that ball?

2 Q. Okay. Well, we haven't heard anything  
3 from any of the medical residents that were there,  
4 have we?

5 A. No.

6 Q. So it's possible that the medical  
7 residents did, in fact, do as they were asked to do  
8 and contact vascular interventional radiology?

9 A. Everything's possible.

10 My experience has been if you get  
11 something started in the ER, it's done by the ER  
12 people.

13 Q. But you don't know how your experience  
14 translates to the emergency department at [UNIVERSITY HOSPITAL]  
15 Hospitals, do you?

16 A. I do not.

17 Q. Okay. Now, we were talking about the  
18 depositions. Have you written any notes or  
19 highlighted anything in the medical records?

20 Please say no.

21 A. Yes, I have.

22 Q. So you've highlighted some things in the  
23 medical records?

24 A. Yes.

25 Q. And those are things that you thought

1 were particularly important?

2 A. Absolutely.

3 Q. Can you just kind of quickly go through  
4 and tell me what sorts of things you highlighted?

5 MS. LORANT: And you're not asking him to  
6 do it page by page and tell you everything?

7 MS. CHENEY: No, no, just kind of give me  
8 a -- because, really, what I'm trying to do is avoid  
9 making the medical records and depositions that we all  
10 have copies of exhibits and having to make more copies  
11 of them, in which the highlighting probably won't show  
12 up anyway.

13 THE WITNESS: I documented the time of  
14 patient's arrival.

15 BY MS. CHENEY:

16 Q. At [UNIVERSITY HOSPITAL]?

17 A. At [UNIVERSITY HOSPITAL].

18 Q. And what time was that?

19 A. Didn't document, underlined, highlighted.

20 Let me see. 1620. That's really when  
21 the record was, I guess, typed up.

22 Q. Okay.

23 A. 1916 on the blood gas, as well as 1630  
24 and 1620 were also highlighted.

25 I highlighted the echo report.

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1 Q. What part --

2 A. Some parts of the last page, page 2, I  
3 guess.

4 Q. Okay.

5 A. Specifically saying abnormal septal  
6 contour consistent with right ventricular pressure or  
7 volume overload, trace mitral regurgitation by Doppler  
8 examination. Normal left atrial chamber size, marked  
9 right ventricular enlargement and hypertrophy with  
10 severely depressed contraction, cannot exclude apical  
11 right ventricular mural thrombus.

12 Q. And --

13 A. And the time start was 4:56, or 1656 p.m.

14 Q. Four fifty -- and that time denotes what?

15 A. Says time start.

16 Q. The time that the echo was --

17 A. Begun.

18 Q. -- started?

19 A. I believe that's -- that's right.

20 Q. Okay. And does it say -- do we have a  
21 time finish on that?

22 A. No.

23 Q. How long does it usually take to perform  
24 a cardiac echo?

25 A. I've seen them done in five or 10

1 minutes.

2 Q. So it's reasonable to think that this was  
3 finished shortly after 5:00?

4 A. Correct.

5 Q. And then do you agree with Dr. -- well,  
6 with some of the deposition testimony that the echo --  
7 the dictated echo report is not necessarily available  
8 immediately but the -- the physicians get their  
9 information from the cardiologist who's reading the  
10 echo?

11 A. Right.

12 Q. And --

13 A. I agree with that.

14 Q. Okay. Did you form any opinions about  
15 what the cause was of the right ventricular  
16 hypertrophy that was noted there?

17 A. I don't know what that meant. I wouldn't  
18 expect that to be there.

19 Q. It's not consistent with pulmonary  
20 embolism necessarily?

21 A. It's not consistent with acute pulmonary  
22 embolism.

23 Q. Okay. We were just going through the  
24 record here.

25 A. I'm not trying to hide anything. I just,

1 I haven't seen anything.

2 Q. I know.

3 A. That's it.

4 Q. Okay.

5 A. Thank the Lord.

6 Q. Okay. Now, this is not, as we discussed  
7 off the record earlier, not the first time you've been  
8 involved in one of my cases, and I do know of a number  
9 of other cases that you've been involved in just in  
10 North Carolina but also other places. Can you give us  
11 an estimate of how many cases -- medical malpractice  
12 cases you've been involved in throughout your career?

13 MS. LORANT: Objection.

14 THE WITNESS: I've probably reviewed  
15 upwards of 300 cases in the last 20 years.

16 BY MS. CHENEY:

17 Q. And of those 300, how many have you been  
18 named as an expert witness in, or of those upward of  
19 300?

20 A. Probably 60 percent or so of those cases  
21 I thought that the -- that there was some malpractice,  
22 or not, depending on which side asked me to review  
23 them.

24 Q. Okay. Have you been -- you say depending  
25 on which side asked you to review them. Have you been

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1 asked to review cases for defendants as well as  
2 plaintiffs?

3 A. Yes, ma'am.

4 Q. When was the last time you were asked to  
5 review a case for a defendant?

6 A. Last week.

7 Q. And who was that? Don't tell me the name  
8 of the defendant necessarily, just the name of the  
9 attorney.

10 A. I don't even know. It was a defense  
11 lawyer out of southern Florida, Palm Beach area.

12 Q. And you don't remember the lawyer's name  
13 or name of the law firm or anything?

14 A. Name of the law firm is actually two  
15 names. I don't remember them.

16 I'm terrible on names.

17 Q. Do you know how they got your name?

18 A. They've asked me several times before to  
19 review cases. I think it started because I testified  
20 on behalf of the plaintiff on one of their cases and  
21 they asked me to -- to look at some other cases.

22 Q. What is the breakdown in your expert  
23 witness practice of cases that you look at for  
24 plaintiffs versus defendants?

25 MS. LORANT: Objection.

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1 THE WITNESS: The plaintiffs' lawyer ask  
2 me probably 95 percent of the time and defense the  
3 other 5 percent.

4 BY MS. CHENEY:

5 Q. And is that number -- we were talking  
6 about reviewing. Is that number different for cases  
7 in which you're named as an expert witness? In other  
8 words, how does the --

9 A. Oh, boy.

10 Q. -- what is the breakdown in cases in  
11 which you are actually named as an expert?

12 A. Must be the same, I would think.

13 Q. And what about cases in which you  
14 actually testify by deposition or at trial on behalf  
15 of a party to a medical malpractice case?

16 A. I think in the past four years or so I  
17 have not given a deposition -- it's been 100 percent  
18 plaintiff for the past four years.

19 Q. And prior to the last four years was  
20 there an occasion when you gave a deposition for a  
21 defendant?

22 A. Yeah. Yes, ma'am.

23 Q. And how frequently would you say that  
24 occurred?

25 A. Again, probably one out of 20

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1 depositions.

2 Q. Why do you think it is that in the past  
3 four years it's just been 100 percent plaintiff?

4 A. I don't know. I mean, there's defense  
5 cases that I'm still holding at home pending --  
6 pending I guess court time.

7 Q. How many?

8 A. How many cases?

9 Q. Uh-huh, defense cases.

10 A. I can remember four off the top of my  
11 head.

12 Q. Can you remember the names of any defense  
13 lawyers for whom you have done work?

14 A. No. I can just tell you there's a firm  
15 in Connecticut that I've done work with and a firm in  
16 Palm Beach area in Florida, and there was a firm out  
17 of -- I don't know the names. There was a firm out of  
18 Atlanta that asked me to look at some cases as well,  
19 defense cases.

20 Q. And you can't remember the name of any  
21 defense lawyer that you've ever worked with?

22 A. No, and very few plaintiffs' lawyers.

23 Q. We marked your CV as Exhibit 31, and let  
24 me just hand it to you and get you to confirm for the  
25 record that this is, in fact, your CV.

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1 A. Yes, it is.

2 Q. And can you tell us when it was last  
3 updated?

4 A. 5-1-05.

5 Q. Is there anything since 5-1-05 that's  
6 occurred that would need to -- that that CV would need  
7 to reflect in order to be 100 percent accurate and  
8 up-to-date?

9 A. No, that's accurate and up-to-date.

10 Q. Okay. And does your CV accurately set  
11 out your education, training, and your experience,  
12 including all of your professional committee  
13 memberships, hospital privileges, publications,  
14 awards, things like that?

15 A. Yeah. I didn't include there the little  
16 merit badge things we get, ACLS, ATLS training, and  
17 all that. They're relatively repetitive, and  
18 everybody has to have them anyway. But everything  
19 else is accurate.

20 Q. Okay. And do you have any publications  
21 at all --

22 A. There's one mentioned there --

23 Q. -- that you have authored?

24 A. There's one mentioned there about, excuse  
25 me, trauma center designations in the State of

1 Virginia back in '85 or '86. That's the only one I've  
2 had my name associated with.

3 Q. Where is it?

4 No. Show me where it is.

5 Publications, Trauma site verification.

6 What is that -- what was that publication? What was  
7 the nature of it?

8 A. That was a publication I think in the  
9 journal of Trauma, and it had to do with Virginia's  
10 method of determining what hospitals were at what  
11 level trauma center before the designation occurred.  
12 It involved a task force of a trauma surgeon, ER  
13 physician, nurses, administrators going throughout the  
14 State of Virginia checking hospitals at Level 1 trauma  
15 designations and see if they actually fulfill the  
16 criteria that they had to.

17 Q. How did you spend your professional time  
18 between November 24, 2002 and November 24th, 2003?

19 A. I've been working as an ER physician for  
20 30 years. I have not stopped.

21 Q. Okay.

22 A. So I don't know how many hours I spent in  
23 that particular year, but it's pretty much consistent  
24 with what I've been doing since 1973.

25 Q. And as an ER physician, can you just

1 explain how your time is spent? What do you do? You  
2 work in emergency rooms?

3 A. Yes. We -- our group covers seven  
4 hospitals locally. We have decided to work eight-hour  
5 shifts, which we do most of the time. That can be any  
6 of five or six different shifts during the day and  
7 night. I work probably somewhere between 36 and 40  
8 hours a week.

9 Q. And that was the case between 2002 and  
10 2003 --

11 A. Yes, ma'am.

12 Q. -- as well?

13 What is the name of your group?

14 A. Emergency Physicians of Tidewater.

15 Q. How many physicians in it?

16 A. Seventy-five or so.

17 Q. Do you hold any offices --

18 A. In that --

19 Q. -- or positions in that group?

20 A. I'm on the board of directors.

21 It's a Democratic group. The board of  
22 directors is -- position is a three-year position that  
23 has to be voted on for replacements.

24 Q. Okay.

25 A. And I've been in that position since late

1 '80s or early '90s.

2 Q. And how many physicians are on the board?

3 A. I believe there are nine.

4 Q. Does your group take any positions at all  
5 on its members serving as expert witnesses in medical  
6 malpractice cases?

7 A. Say that again, please.

8 Q. Does your -- your group, Emergency  
9 Physicians of Tide -- the Tidewater -- Emergency  
10 Physicians Tidewater --

11 A. Of Tidewater.

12 Q. -- of Tidewater take a position at all on  
13 its members serving as expert witnesses in medical  
14 malpractice cases?

15 A. One position is we wouldn't testify  
16 against other members of the group. But there are  
17 several members in that group that do the same expert  
18 witness testimony. Other than that, we don't really  
19 have a -- a general policy.

20 Q. Okay. And when you serve as an expert  
21 witness, does the money that you earn go to you or  
22 does it go to your group?

23 A. It goes to me.

24 Q. Okay. And does each physician in your  
25 group who chooses to do expert witness work set their

1 own rates?

2 A. Yes.

3 Q. What percentage of your time do you spend  
4 reviewing and testifying in medical malpractice cases?

5 A. In a year's time, probably 10 or 15  
6 percent.

7 Q. And what percentage of your income does  
8 that account for?

9 A. Actually about the same.

10 Q. Have you ever been asked to produce your  
11 income tax returns --

12 A. Yes.

13 Q. -- in connection with medical malpractice  
14 litigation?

15 A. Yes.

16 Q. Have you ever been sued?

17 A. Twice.

18 My name was -- I was mentioned twice.

19 Q. Okay. And when you say you were  
20 mentioned twice, you mean your name was in the caption  
21 along with one or more other defendants?

22 A. That's right. That's right, yeah.

23 Q. And what -- what were the -- in those  
24 suits, what was the earliest one? What was the --

25 A. Around '74.

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1 Q. And what were the allegations?

2 A. Missed diagnosis of appendicitis.

3 Q. And what was the outcome of that case?

4 A. It was settled out of court for about

5 \$8,000.

6 Q. And what was the next case?

7 A. It was in '83 or '84, and it had to do

8 with a tubo-ovarian abscess that we made the diagnosis

9 in the ER. I gave a deposition, and my name was

10 dropped from the case. I don't know what the outcome

11 of the case was.

12 Q. Okay. Your CV indicates that you have

13 been licensed in North Carolina?

14 A. Right.

15 Q. What was -- for what reason were you

16 licensed in North Carolina?

17 A. We worked in a hospital in Rocky Mount,

18 our group did --

19 Q. Uh-huh.

20 A. -- for three years. And, obviously, to

21 work there you had to get a license.

22 After we -- our three-year contract ran

23 out I kept the license because I thought I had to have

24 it to teach some of the EMS stuff to the Outer Banks,

25 where -- where I have a cottage. So I just kept it

1 open for several years after that and then discovered

2 I didn't need it to do the teaching so I dropped it.

3 Q. Okay.

4 A. Or just didn't renew it. I guess that

5 was more like it.

6 Q. What were the three years that you worked

7 at a hospital in Rocky Mount?

8 A. It's in my CV.

9 Here we go. 1984 to 1988. Four years, I

10 guess.

11 Q. Okay. And did you say you have a cottage

12 on the Outer Banks?

13 A. Yes, ma'am.

14 Q. What part --

15 A. Corolla.

16 Q. -- whereabouts?

17 So what is your involvement there with

18 teaching EMS people?

19 A. Back in the '80s and during the '90s

20 rescue squads were being incorporated into the EMS

21 situation, and they found out that I was an ER

22 physician and asked me to do some of the training of

23 the fellows that were getting involved.

24 Q. Okay. And you no longer do that?

25 A. No, I don't.

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1 Q. Have -- has your group or any hospital  
2 ever been sued by a patient in whose care you were  
3 involved but you weren't personally named in the  
4 lawsuit?

5 A. How would I know that?

6 Q. Have you --

7 A. I can't answer that. I don't know.

8 Q. Have you ever had to give a deposition,  
9 for example, in a case in which your group or a  
10 hospital was named as a defendant in a patient for  
11 whom you cared?

12 A. Well, the one I mentioned in '83 or '84.

13 Q. Uh-huh.

14 A. I think there was another one that I gave  
15 a deposition to probably in the mid '80s. I don't  
16 know the name of the case or the lawyers, though.  
17 That one had to do I believe with a dissecting aortic  
18 aneurysm.

19 Q. And that was a case -- I mean, that was a  
20 patient that you took care of in the emergency room?

21 A. In the ER, yeah.

22 Q. And was it a failure to diagnose  
23 allegation, do you know?

24 A. No, we made the diagnosis. I really  
25 don't know what -- I just -- it was a five- or

1 10-minute deposition.

2 Q. Do you know what the outcome of that case  
3 was?

4 A. I know the fellow died.

5 Q. Did the hospital pay money or the group,  
6 whoever was named?

7 A. I think the case was dropped.

8 Q. Has any money ever been paid on your  
9 behalf arising out of a claim by a patient for whom  
10 you've cared other than the \$8,000 settlement that you  
11 told me about regarding the failure -- the alleged  
12 failure to diagnose appendicitis?

13 A. That's the only one.

14 Q. Have you ever testified before in a case  
15 involving pulmonary embolism?

16 A. Wow. I'm sure I have. I don't remember  
17 when or where.

18 Q. Do you know how many?

19 A. No.

20 Q. Do you ever testify outside your area of  
21 specialization as an emergency medicine physician?

22 A. I've testified one time -- at one time I  
23 was a medical director of a nursing home, and a case  
24 came up in Alabama or something and they asked me to  
25 look at -- to look at what happened in -- in the

1 nursing home. So I testified in that case.

2 Q. Okay. And that's -- that's the only time  
3 that you've ever testified outside of your area of  
4 specialization?

5 MS. LORANT: Objection.

6 BY MS. CHENEY:

7 Q. That you can remember.

8 A. Well, you know, some of the cases had to  
9 do with EMS, pre-hospital care, which I consider part  
10 of the ER or emergency medicine. So other than that,  
11 I can't remember anything.

12 Q. Okay. But your training and experience  
13 has all been emergency medicine, right?

14 A. Yes, ma'am.

15 MS. LORANT: Well, he said he was a  
16 medical director of the nursing home.

17 THE WITNESS: That's correct. I'm sorry.

18 BY MS. CHENEY:

19 Q. Okay. Your -- your training -- as far as  
20 your training goes, you have only been trained, and I  
21 don't mean only in -- in a negative sense, but you  
22 have been trained as an emergency medicine physician  
23 and not as some other type of specialist, correct?

24 A. I did my internship in surgery, okay.

25 Q. Uh-huh.

1 A. I did not do a residency. I was board  
2 certified the first year the boards were given in  
3 emergency medicine, 1980, but I accomplished that  
4 without a residency.

5 Q. Okay. And the -- you were a medical  
6 director of a nursing home. When was that?

7 A. For 25 years, from I think '74 to '99,  
8 something like that.

9 Q. Uh-huh. And what did that involve?

10 A. Basically taking care of patients on a  
11 regular basis in the nursing home itself.

12 Q. And for what -- what type of care did you  
13 provide to nursing home patients during that 25 years?

14 A. Just general medical care, managing  
15 diabetes or hypertension, you know, acute cases like  
16 emergency pneumonias or urinary tract infections,  
17 those kinds of things.

18 Q. What medical literature do you subscribe  
19 to?

20 A. The Annals of Emergency Medicine and a  
21 journal called Emergency Medicine.

22 Q. Any others?

23 A. Yeah, there's a -- there's another CME  
24 journal that comes out once a month. I think that's  
25 called Emergency Medicine as well.

1 Q. And in addition to journals that you  
2 subscribe to, are there any textbooks that you have  
3 that you regularly refer to?

4 A. Tintinalli and Rosen are the two that are  
5 available to me at home, as well as in all the ERs. I  
6 mean, we have texts on procedures in emergency  
7 medicine, radiology in emergency medicine. I don't --  
8 I don't remember the names, though.

9 Q. Okay. And other than the -- these  
10 textbooks and the journals that you subscribe to, is  
11 there any medical literature that you review on a  
12 regular basis?

13 A. In addition to what we talked about  
14 already?

15 Q. Right.

16 A. The articles that may be pointed out by  
17 local specialists and it's something that I think is  
18 unique to the field of theirs and ours.

19 Q. Okay. Do you know who some of the  
20 leading researchers and writers are on the topic of  
21 pulmonary embolism in the medical literature?

22 A. No.

23 Q. Do you know who some of the leading  
24 researchers and authors are on the topic of t-PA and  
25 thrombolytic therapy in the context of pulmonary

1 embolism?

2 A. I do not, no.

3 Q. You don't write about those subjects, I

4 take it?

5 A. Correct.

6 Q. Now, you're not board certified in

7 internal medicine, correct?

8 A. Correct.

9 Q. And you don't practice internal medicine,

10 correct?

11 A. That's correct.

12 Q. And you didn't practice internal medicine

13 between November 2002 and November 2003, correct?

14 A. Correct.

15 Q. And you don't hold yourself out as an

16 expert in internal medicine, I take it?

17 A. Correct.

18 Q. Would you agree that you're not qualified

19 to speak to the standard of care applicable to an

20 internal medicine specialist practicing his or her

21 specialty of internal medicine?

22 A. That's a broad statement. If that

23 practice happens to involve what goes on in the ER, I

24 think that's applicable to my specialty as well. That

25 crossover area I would feel comfortable commenting on.

1 Q. Okay. And I know it's a broad statement,  
2 but do you recognize no difference between the  
3 standard of care applicable to an internal medicine  
4 specialist who comes to the emergency room to see a  
5 patient with an internal medicine condition and the  
6 standard of care applicable to an emergency medicine  
7 specialist taking care of that same -- same patient?

8 MS. LORANT: Object.

9 THE WITNESS: Well, if they both have the  
10 same amount of information about that patient, then  
11 the treatment should be correspondingly similar.

12 BY MS. CHENEY:

13 Q. Now, you're not board certified in  
14 pulmonary medicine, correct?

15 A. Correct.

16 Q. You didn't do any type of fellowship in  
17 pulmonary medicine, correct?

18 A. No, ma'am.

19 Q. And you don't attend meetings of  
20 pulmonary medicine -- professional meetings of  
21 pulmonary medicine organizations?

22 A. No, not specifically to chest physicians,  
23 no.

24 Q. In order to be board certified in  
25 pulmonary medicine, you have to first be board

1 certified in internal medicine; is that your  
2 understanding?

3 A. Yes, ma'am.

4 Q. And you have neither certification,  
5 correct?

6 A. That's correct.

7 Q. And you don't practice pulmonary  
8 medicine --

9 A. Correct.

10 Q. -- as a specialty, correct?

11 And you did not practice pulmonary  
12 medicine between November of 2003 -- '2 and November  
13 of 2003, did you?

14 A. Correct, I did not.

15 Q. And you don't subscribe to or regularly  
16 review publications from the pulmonary medicine  
17 specialty, correct?

18 A. Outside of the instances I mentioned  
19 earlier, I do not.

20 Q. Okay. And you don't hold yourself out as  
21 an expert in pulmonary medicine, do you?

22 A. No.

23 Q. Between November 24th of 2002 and  
24 November 24th of 2003 would -- would it be fair to say  
25 that zero percent of your practice was as a pulmonary

1 medicine specialist?

2 A. I'm not a pulmonary medicine specialist,  
3 period.

4 Q. What percentage --

5 A. You know, we, obviously, deal with  
6 pulmonary problems in the ER, but I'm not a pulmonary  
7 medicine specialist.

8 Q. Okay. And what percentage of your  
9 emergency medicine practice would you say between  
10 November of '02 and November of '03 was involving  
11 patients who presented with pulmonary issues?

12 A. That's going to have to be an estimate.

13 Q. Okay.

14 A. Probably somewhere between 10 and 15  
15 percent.

16 Q. Now, what are some of the other specialty  
17 areas that patients present to the emergency  
18 department in other than pulmonary medicine?

19 MS. LORANT: Objection.

20 THE WITNESS: You mean --

21 BY MS. CHENEY:

22 Q. That wasn't really a great question, but  
23 you see patients who have pulmonary problems maybe 10  
24 to 15 percent of the time. And --

25 A. Well --

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1 Q. -- we're talking about '02 to '03. Is it  
2 the same today as it was then?

3 A. Yeah. And that -- that 10 to 15 percent  
4 really I thought you meant the primary problem that  
5 they had was pulmonary.

6 Q. And that's -- and that's what I did mean.

7 A. Excuse me. We see, obviously, a number  
8 of cardiac patients who have pulmonary issues --

9 Q. Uh-huh.

10 A. -- and kids that have pulmonary issues  
11 but come in for other reasons.

12 Q. Okay.

13 A. But those -- those 10 to 15 the main  
14 complaint was a pulmonary problem.

15 Q. Right. And what percentage is the main  
16 complaint a heart problem?

17 A. It may be 20 percent.

18 Q. And I understand that these are  
19 estimates.

20 A. Right.

21 And they may be just the complaint would  
22 justify a cardiac workup at that point.

23 Q. Uh-huh.

24 A. That's what I'm answering.

25 Q. And what percentage would you say present

1 with a GI problem?

2 A. In a year-round spectrum, maybe another  
3 15 percent.

4 Q. And then I take it there's a certain  
5 percentage of people who present with trauma?

6 A. Yes.

7 Q. What would that percentage be?

8 A. Depends on the hospital I'm working in.  
9 We have a major trauma center. If I'm working there,  
10 it's probably 15 percent of admitt -- of the patients  
11 that day. But if I'm working in a non-trauma center,  
12 we'll get little cuts and scratches and those kinds of  
13 things, but nothing I would really consider  
14 significant trauma.

15 Q. Uh-huh.

16 A. So it may be 2 to 5 percent of my entire  
17 year's patients have been associated with trauma.

18 Q. Okay. And so this is the kind of thing  
19 that I was getting at before. What other sorts of  
20 patients do you see in the emergency room?

21 A. Wow. I mean, pediatrics, that's probably  
22 15 to 20 percent. OB/GYN, some hospitals it's a hell  
23 of a lot larger than 15 percent.

24 Psychiatry, it may be 10 percent,  
25 although it takes up about 25 percent of the time, it

1 seems.

2 I don't know. Orthopedics, urology. We  
3 kind of see every different -- every patient of  
4 different needs for specialties.

5 Q. Of the -- of the patients that you say  
6 that you estimated was about 10 to 15 percent with  
7 pulmonary problems, what percent of those patients  
8 present with pulmonary embolism or -- or suspected  
9 pulmonary embolism?

10 A. If you take 100 patients with a pulmonary  
11 complaint, maybe 10 to 15 would have a suspected  
12 pulmonary embolism, and the workup yield might be a  
13 third of that or a quarter of that. So of 100, maybe  
14 four would have a pulmonary embolus.

15 Q. So if you --

16 A. It would be probably less than that,  
17 actually, but we certainly look for it pretty often.

18 Q. Okay. So if you -- if you start out with  
19 10 to 15 percent, roughly, patients that come in with  
20 pulmonary complaints, then you've got 10 to 15 percent  
21 of those -- of that 10 to 15 percent with suspected  
22 PE, and then of those after workup one-third to  
23 one-quarter?

24 A. Maybe smaller than that.

25 Q. Or -- or less?

1 A. Yeah.

2 Q. So you said on average you probably see  
3 less than four patients per year with a confirmed  
4 pulmonary embolism?

5 A. Did I say that? No, I didn't mean to say  
6 that.

7 Q. Oh, okay. What did --

8 A. No, it's higher than that.

9 Q. Okay.

10 A. I probably -- I probably see one a week,  
11 maybe one every 10 days with pulmonary embolus, proven  
12 pulmonary embolus.

13 Q. One patient per week with a proven PE?

14 A. Week to 10 days I think I said.

15 Q. Oh, okay. Sorry.

16 And that's working at how many different  
17 hospitals?

18 A. Seven.

19 Q. Is there -- are there some hospitals at  
20 which patients with PE would present more than others?

21 A. You know, I'm sure there are. Just a  
22 feeling that two of the hospitals serve a huge number  
23 of adult nursing home type patients, and those folks  
24 tend to get pulmonary emboli because they -- they kind  
25 of hang around and don't walk very much.

1 Q. Uh-huh.

2 A. So I would think those two hospitals  
3 would see more percentage wise pulmonary embolus than  
4 the other five hospitals.

5 Q. And when you said one patient per week,  
6 was that you personally or was that your -- your group  
7 or your -- or the hospital?

8 A. One patient per week to 10 days, that  
9 would be associated with patients that I had contact  
10 with, not necessarily my patients but patients that  
11 one of my partners saw at the same time or one of the  
12 residents saw or one of the -- one of the PAs saw.

13 Q. Uh-huh.

14 A. You know, I'm sorry. I -- you were  
15 asking about PEs. I was -- I was combining DVTs and  
16 PEs together. I apologize for that.

17 Q. Okay. Is there a difference if we were  
18 to just focus on proven pulmonary embolism, how many  
19 would we --

20 A. Yeah, it would be smaller than that  
21 number.

22 Q. Okay. Do you have a number of how many  
23 patients maybe per month or per year that would be?

24 A. I bet we see -- I see anywhere from 12 to  
25 25 patients a year with PE.

1 Q. And are we talking about patients with  
2 proven PE or --

3 A. Yeah.

4 Q. -- just suspected?

5 A. Yes, ma'am.

6 Q. How many patients would you say you  
7 personally see per year with suspected PE?

8 A. Probably four times that many.

9 Q. So out -- say out of 100 patients with  
10 suspected PE, 20, 25 of those -- 12 to 25 would have  
11 PE actually proven?

12 A. Right.

13 Q. And what sort of investigation do you do  
14 to prove pulmonary embolism?

15 A. The most common test that I do is a CT of  
16 the chest with contrast. If the patient has an  
17 allergy to iodine, we have to do a VQ scan.

18 Q. Are there any other diagnostic tests that  
19 you do to make a definitive diagnosis other than chest  
20 CT and VQ scan?

21 A. Once in a while we get a pulmonary  
22 angiogram.

23 Q. What would be the circumstances under  
24 which you would get a pulmonary angiogram as opposed  
25 to a chest CT or a VQ scan?

1 A. The one I remember most recently was  
2 probably February or March where we had a patient that  
3 was markedly dyspneic and had what we considered signs  
4 and symptoms of pulmonary embolus. CT wasn't working  
5 and the radio -- interventional radiologist was there.

6 It's -- it's much more rare -- much more  
7 rarely used now than it was 10 years ago.

8 Q. Uh-huh. Why is that?

9 A. Because of the availability of the CT  
10 scanner and the -- the job it does.

11 Q. Okay. You're not privileged to admit  
12 patients to the hospital, correct?

13 A. That's right.

14 Q. You -- I take it you order or have  
15 occasion to order echocardiograms for your patients in  
16 the emergency department?

17 A. Yes.

18 Q. But you are not competent to read  
19 echocardiograms yourself, are you?

20 A. No.

21 Q. Okay. Do you consider yourself qualified  
22 to speak to the standard of care applicable to a  
23 cardiologist practicing his or her specialty of  
24 cardiology?

25 A. In the ER?

1 Q. In the ER or wherever a cardiologist may  
2 be practicing his or her specialty.

3 A. Well, if somebody comes into the ER and  
4 has, say, a heart attack, I know what the treatment  
5 should be in the ER for that particular patient. If  
6 those things aren't done by the cardiologist or the  
7 internist or whoever, I might make a comment to remind  
8 them something wasn't done.

9 Q. If a patient comes into an emergency room  
10 where you're working with a suspected MI, do you treat  
11 it yourself or do you call a cardiologist in?

12 A. Both.

13 Q. What sort of treatment do you offer as  
14 opposed to the cardiologist?

15 A. We initiate the treatment and resuscitate  
16 if necessary, stabilize the patient, and then the  
17 cardiologist does whatever they do. They may take  
18 them to the cath lab. They may just take them  
19 upstairs.

20 Q. Okay. What about giving t-PA?

21 A. Yeah. Yes, ma'am.

22 Q. Do you do that or does the cardiologist  
23 do it?

24 A. I've done it, yes.

25 Q. In your practice how --

1 A. You mean for -- for MIs?

2 Q. Right.

3 A. It's not very commonly done around here,  
4 but I have done it.

5 Q. It's not commonly done by the emergency  
6 physician or it's not commonly done by anybody?

7 A. By anybody.

8 Q. Giving t-PA for MI?

9 A. Right.

10 Q. Why is that?

11 A. Because the cath labs are available and  
12 the interventional cardiologists prefer to do it that  
13 route, even in the middle of the night.

14 Q. How long does it take the cath lab to --  
15 from sort of door to balloon time, how long does it  
16 take the cath lab to -- to be able to mobilize?

17 A. It's fairly variable, but we've done it  
18 within 20 minutes of arrival at the door. That's  
19 outstanding time. If we can get it done in an hour,  
20 that's probably accurate -- acceptable.

21 Q. Does -- do the hospitals where you work  
22 have any type of written protocols or standards for  
23 things like that, door to balloon time?

24 A. Goals.

25 Q. Goals?

1 A. More than standards.

2 We have set up calls to make, you know,  
3 who's on call, what call has to be made, who does that  
4 call, and so on like that to make everything run  
5 smoothly, theoretically.

6 Q. Do the hos -- do the hospitals that you  
7 work at in their emergency departments have any  
8 policies or -- written policies or protocols regarding  
9 management of patients with pulmonary embolism?

10 A. I don't think we have any policy that  
11 specifically addresses a PE treatment.

12 Q. Are you aware of any -- any guidelines,  
13 practice guidelines, in your profession for management  
14 of patients with PE?

15 A. There have been many practice guidelines  
16 put forth by the American College of Emergency  
17 Physicians, for example, on treatment of PEs, and  
18 they've, you know, been changed and improved upon over  
19 the years.

20 Q. What causes a practice guideline to come  
21 into effect to begin with?

22 MS. LORANT: Objection.

23 THE WITNESS: I think the interest in --  
24 in elevating the care of that specific entity when  
25 it's thought that that care wasn't top-of-the-line and

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1 we had problems with it.

2 BY MS. CHENEY:

3 Q. How does a particular practice come to be  
4 the accepted practice that gets articulated in these  
5 practice guidelines?

6 A. I'm sorry. Could you --

7 MS. LORANT: Objection.

8 BY MS. CHENEY:

9 Q. How does a practice become the one that  
10 is adopted as the guideline?

11 A. Guidelines are put out by groups of  
12 people, not just ACEP, but, you know, pulmonary --  
13 pulmonologists and so on, who tend to have an interest  
14 in that particular entity within their specialty, like  
15 pulmonary embolism. Maybe it's the folks that do the  
16 writing, maybe it's the educators. They kind of get  
17 together and make up general plans. And -- and these  
18 are really suggestions that, you know, think about  
19 this, think about that --

20 Q. Uh-huh.

21 A. -- consider this and that.

22 Q. Have you ever been one of those people  
23 that gets together to decide what the practice  
24 guidelines are going to be?

25 A. Not for pulmonary embolism.

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1 Q. For anything?

2 A. Yeah, for EMS work.

3 Q. That's ambulance attendants, is that EMS?

4 A. Right, the pre-hospital care.

5 Q. Uh-huh. You made reference to the fact  
6 that these practice guidelines change over the years,  
7 they get improved upon. What is it that initiates  
8 those changes or improvements?

9 A. New therapies, new drugs available, new  
10 discoveries from research data about old treatments,  
11 new technology.

12 Q. How long do you think it takes the data  
13 that come, say, from clinical trials to actually make  
14 its way into a practice guideline?

15 MS. LORANT: Objection.

16 THE WITNESS: I have no idea.

17 Usually clinical trials have to do with  
18 drugs, I thought, and I don't know -- I don't even  
19 know the -- the spectrum of that.

20 BY MS. CHENEY:

21 Q. Okay, okay. In terms of, say, randomized  
22 clinical trials to compare something like t-PA with  
23 heparin alone, do you know how long any data from  
24 those types of trials would take to become -- if there  
25 were any data, to become a standard practice?

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1 MS. LORANT: Objection.

2 THE WITNESS: I guess the one I can  
3 remember, there was an article that described  
4 initiating that exact trial that you mentioned, taking  
5 a group of people and using t-PA and a second group  
6 and using heparin alone. And the trial was closed  
7 because the people were getting -- unstable people  
8 getting heparin alone died and people with -- in the  
9 same situations given t-PA lived. So that trial  
10 didn't last very long.

11 BY MS. CHENEY:

12 Q. Okay. Where was that -- where was that  
13 one published?

14 A. That was probably in the mid '90s. I'll  
15 have to look it up for you. I don't remember the name  
16 of the author.

17 Q. Do you remember what journal?

18 A. I don't. No, I don't.

19 Q. How would you be able to find that and  
20 get that information to me?

21 I mean, can you do it today or would this  
22 be something you would need to do later?

23 A. I'd have to do it later.

24 Q. You don't --

25 A. Would you like me to do that?

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1 Q. We'll talk about it at the end --

2 A. Okay.

3 Q. -- if we remember.

4 A. Okay.

5 Q. You don't practice radiology, correct?

6 A. I'm not a radiologist.

7 Q. And that was also true between November  
8 of '02 and November of '03, correct?

9 A. Yes.

10 Q. And, by the same token, you're not an  
11 interventional radiologist, are you?

12 A. Exactly.

13 Q. Do they have VIR capabilities at all the  
14 hospitals where you practice?

15 A. At two of the hospitals they have  
16 24-hour-a-day VIR capability. The other five they  
17 have interventional radiologists on call for 24 hours,  
18 but very rarely do they do anything after 5 p.m.

19 Q. Okay. Have you ever sent a patient for  
20 catheter-directed thrombolytic therapy?

21 A. No.

22 Q. And I take it you would agree that you're  
23 not qualified to perform that procedure, correct?

24 A. No, I wouldn't do that.

25 Q. Do you know what the policies and

1 protocols of the radiology and VIR departments at [UNIVERSITY HOSPITAL]  
2 are?

3 A. I do not.

4 Q. Do you hold yourself out as an expert in  
5 thrombolytics?

6 MS. LORANT: Objection.

7 THE WITNESS: I don't know how they're  
8 made.

9 I'm not sure what you mean by that. Yes,  
10 I -- we have used -- I have used thrombolytics in the  
11 ER. But other than the use of them in certain  
12 circumstances that require them, I would not consider  
13 myself -- I would not consider myself an expert.

14 BY MS. CHENEY:

15 Q. Okay. For example, you haven't been in  
16 any clinical trials of t-PA or --

17 A. Correct.

18 Q. -- alteplase or other thrombolytics,  
19 correct?

20 A. That's correct.

21 Q. And you've never published any medical  
22 literature concerning those thrombolytics, correct?

23 A. Right.

24 Q. And would you agree that just because you  
25 administer t-PA, that doesn't necessarily make you an

1 expert on the -- on the drug itself?

2 MS. LORANT: Objection.

3 THE WITNESS: Well, we certainly have to  
4 know enough about the drug to be able to use it  
5 properly and the side effects. That wouldn't  
6 necessarily make me an expert on the drug, no.

7 BY MS. CHENEY:

8 Q. What are the protocols for using t-PA in  
9 the emergency departments where you work?

10 MS. LORANT: Objection.

11 BY MS. CHENEY:

12 Q. If any.

13 A. We really don't have any protocols  
14 written. We do the high-end loading type for -- for  
15 our patients.

16 Q. And what do you mean by "high-end loading  
17 type"?

18 A. Well, for example, in coronary artery  
19 occlusion or PE we -- the t-PA would be given 15, 50,  
20 35, 15 bolus dose, 15 milligrams, 50 milligrams over  
21 half an hour, I believe, and then 35 milligrams over  
22 the last hour.

23 Q. Fifteen milligrams as a bolus --

24 A. Yeah.

25 Q. -- or 50?

1 A. Fifteen.

2 Q. Fifteen. And then 50?

3 A. And then 50 and then 35.

4 Q. And you said that's not written anywhere,  
5 that's just a standard practice?

6 A. That's the standard practice, yeah.

7 Q. And that's for giving t-PA to both MI  
8 patients and PE patients?

9 A. Right.

10 Q. So there's no difference in how much t-PA  
11 you would give to a patient depending on whether  
12 they're an MI patient or a PE patient, correct?

13 A. I guess there -- there is a weight  
14 restriction if someone's very thin, you know, 100  
15 pounds or something like that, we wouldn't give  
16 that -- those particular doses. But that's really the  
17 only exception.

18 Q. Okay. Does t-PA work differently on  
19 clots that are in the coronary artery -- arteries as  
20 opposed to clots that are in the pulmonary artery?

21 A. The clots that are -- that are in the --  
22 if the clots are the same age, they work the same.

23 Q. Okay. And what does the age have to do  
24 with it?

25 A. Well, if you have a clot that's been in

1 the pulmonary artery for weeks, it's probably not  
2 going to be as effective as if you have an acute clot  
3 that's there for hours.

4 Q. Okay.

5 A. Same with the coronary arteries.

6 Q. And what is the mechanism of action upon  
7 a -- an embolism by t-PA?

8 A. It's a fibrinolytic. It breaks up the  
9 fiber and mesh that causes the clot itself.

10 Q. Okay. And does -- is it -- does it  
11 actually bust up the entire clot, or what does it do  
12 when it comes in contact with the --

13 A. Well, it works in --

14 Q. -- thrombus?

15 A. If you consider the clot to be a ball,  
16 which they're not, but that's for this purpose, it  
17 starts just peeling away the outer rind of the ball  
18 until you get the clot dissolved.

19 Q. Okay.

20 A. Depending on how long the center of the  
21 ball was present or the center of the clot, it would  
22 take longer. It may not be able to do it completely.

23 Q. Okay. And as between clots in the  
24 pulmonary artery and clots in the coronary arteries,  
25 is there a difference between whether those clots

1 actually get dissolved or not or is it pretty much the  
2 same?

3 A. I said if they're the same age they  
4 probably are affected the same.

5 Coronary artery clots are usually fairly  
6 acute to cause the symptoms, whereas pulmonary artery  
7 clots can be many clots for -- for longer periods of  
8 time before symptoms begin.

9 Q. Do you have an opinion about which was  
10 the case for [Patient] ?

11 A. I think she had a pulmonary embolus.

12 Q. Okay. Do you think she had something  
13 that had been there for a long time or smaller clots  
14 that had been there for a long time or --

15 A. She apparently --

16 Q. -- or what?

17 A. -- had some dyspnea the previous night,  
18 so that may have been -- we don't know. That may have  
19 been caused by some small pulmonary emboli at that  
20 point.

21 Q. Uh-huh. Did you -- did you read or have  
22 you been told anything about her grandmother's  
23 testimony that she, in fact, reported shortness of  
24 breath a month before she delivered to her  
25 grandmother?

1 A. No.

2 Q. I was asking you about policy -- written  
3 policies or protocols for using t-PA in your hospitals  
4 where you work. Do you have any written policies or  
5 protocols for when t-PA is indicated?

6 A. No, I don't believe we do at any of the  
7 hospitals.

8 There's some controversy as to when t-PA  
9 is indicated in strokes; and some of the neurologists  
10 use it all the time, others don't use it at all. So  
11 we've kind of kept away from making a mandated policy  
12 on t-PA use.

13 Q. Is there any controversy as to when and  
14 whether t-PA is indicated in PE patients?

15 A. Well, there's certain things that are  
16 considered contraindications to the use of -- in PE  
17 patients.

18 Q. But other than in cases of  
19 contraindications, are you aware of any controversy  
20 among your colleagues or in the medical literature  
21 about when and if t-PA should be used in patients  
22 presenting with pulmonary embolism?

23 A. Not among my colleagues do I believe.

24 Q. You've never studied t-PA pharmacology, I  
25 take it?

1 A. Right.

2 Q. When was the first time that you ever  
3 used t-PA?

4 A. Geez. It was in the mid '80s.

5 Q. And for what did you use it?

6 A. For an MI, heart attack.

7 Q. And when did using t-PA for heart attacks  
8 sort of fall out of favor in this area?

9 A. When we developed a system for using  
10 interventional cardiologists and had enough of them  
11 available to take -- to cover full time.

12 Q. Uh-huh. When -- approximately when would  
13 that have been?

14 A. I think maybe in the early '90s.

15 Q. Have you ever administered t-PA for  
16 stroke?

17 A. Yes.

18 Q. Is that something that you would do, or  
19 would you call in a neurologist and a neurologist  
20 would do it?

21 A. We do it in consultation with the  
22 neurologist. Most of the time if it's done the  
23 neurologist isn't even in the building. He's, you  
24 know, maybe in another hospital or in his office.

25 Q. Okay. Have you ever done it without

1 being directed to do it by a neurologist for stroke?

2 A. Yes, and I've been criticized. I forgot  
3 what hospital I was in.

4 Q. Okay. How many times would you say  
5 you've given thrombolytic therapy for a stroke?

6 A. I bet five to 10 times is the most.

7 Q. Other than stroke, MI, and pulmonary  
8 embolism, are there any other indications for giving  
9 it?

10 A. There's some indications for peripheral  
11 vascular occlusion that have been used locally.

12 Q. Have you ever used it for that?

13 A. No. I mean, I've seen the patient  
14 getting it, but I've never used it myself.

15 Q. Have you ever specifically researched or  
16 published on treatment of pulmonary embolism with  
17 thrombolytic therapy?

18 A. No.

19 Q. When a patient comes into the emergency  
20 department where you work, do you diagnose pulmonary  
21 embolism and give t-PA or do you call in a pulmonary  
22 medicine specialist to do that?

23 A. Usually the call is made to internal  
24 medicine for admission.

25 Q. Okay. And is it usually the internist

1 that makes the decision about giving t-PA or not?

2 A. Well, it depends on how sick the patient  
3 is. If the patient's unstable, they get t-PA. If not  
4 unstable and relatively comfortable, we start them on  
5 heparin and let the decision to use t-PA up to the  
6 internist.

7 Q. Define what you mean by unstable.

8 A. Well, no evidence of respiratory  
9 distress, tachycardia, chest pain, maybe the use of  
10 oxygen, but not high-pressured oxygen or intubation.

11 Q. So you say if a patient is unstable and  
12 they come into your emer -- your emergency department,  
13 they get t-PA. And your definition of instability is  
14 if they have respiratory distress, tachycardia, chest  
15 pain, or on supplemental oxygen?

16 A. High-pressure supplemental oxygen and  
17 cannot tolerate being off of it, hypotension.

18 Q. In order --

19 A. Evidence of --

20 Q. Sorry.

21 A. -- you know, significant cerebral  
22 hypoxia, like confusion, agitation.

23 Q. So in the hospitals where you work, if a  
24 patient comes in with just one of these things you  
25 would give t-PA, or do more than one of these things

1 have to be present?

2 A. For PE?

3 Q. Uh-huh.

4 A. Not more than one of those things has to

5 be present.

6 Q. Just one?

7 A. Yeah.

8 Q. So any one of these?

9 A. Uh-huh.

10 Q. Patient comes in with respiratory

11 distress or tachycardia or chest pain or on

12 high-pressure supplemental oxygen, or has hypotension,

13 or has significant cerebral hypoxia, those are all --

14 those patients would get t-PA in your hospital?

15 A. Yeah. And the people with chest pain,

16 I'm talking about significant chest pain, not just a

17 sharp pain when they take a breath, but constant sharp

18 pain.

19 Q. Have you seen any -- any literature which

20 states that this is a -- a guideline or a standard for

21 giving t-PA to patients with pulmonary embolism,

22 that -- that any of these things have -- if any of

23 these things are present the patient should get t-PA?

24 A. It's mentioned in the -- in the

25 journal -- I'm sorry, in the textbook articles. It's

1 not mentioned as it's a standard -- I mean, it's  
2 considered a standard to do. It's not mentioned as a  
3 guideline.

4 Q. You say it's considered a standard, not  
5 mentioned as a guideline. Can you tell me what you  
6 mean by that?

7 A. Well, the textbooks don't deal with  
8 guidelines. They deal with here's what we have,  
9 here's what we -- you know, here's what the standard  
10 is basically, here's the reason to do it, here are the  
11 reasons to not do it, and here is the experience we've  
12 had when we do it versus not doing it.

13 Q. Uh-huh. So the -- the textbooks don't  
14 talk in terms of guidelines, they talk in terms of  
15 standards; is that what you're saying?

16 MS. LORANT: Objection.

17 THE WITNESS: They don't talk in terms of  
18 guidelines, correct.

19 BY MS. CHENEY:

20 Q. Okay. So for the -- the Rosen or the  
21 Tintinalli text, for example, say that t-PA as a  
22 standard should be given if a patient has any one of  
23 these things on the list that you've just given me?

24 A. I think they make the comment about  
25 instability versus stable patients, and they list the

1 certain types of patients which would be considered  
2 unstable with pulmonary emboli versus stable with  
3 pulmonary emboli.

4 Q. Okay. And I'm trying to find that here.  
5 Can you just show me where that might be in those  
6 papers?

7 MS. LORANT: Lee, can we take a bathroom  
8 break soon?

9 MS. CHENEY: (Nodding head.)

10 THE WITNESS: I'm sorry?

11 MS. LORANT: Just --

12 THE WITNESS: Here's the comment here  
13 under pulmonary thromboembolism on the page 1228 in  
14 Rosen's. You want me to read it?

15 BY MS. CHENEY:

16 Q. Sure, or you can show it to me.

17 This would be the part that you've got  
18 highlighted or --

19 A. Well, here, I'll --

20 Q. I mean, you can read it.

21 A. Yeah, that would be good.

22 It says, "Fibrinolytic agents have been  
23 used for the treatment of PTE," or pulmonary embolism,  
24 "for more than 30 years and are well-established as  
25 the treatment of choice for patients with hemodynamic

1 compromise from PTE. Immediate fibrinolytic therapy  
2 is recommended for patients with pulmonary embolism  
3 who are hypotensive, have massive PTE, have had  
4 syncope with persistent hemodynamic compromise, are  
5 significantly hypoxemic, or have other evidence of  
6 depleted cardiopulmonary reserves. Immediate  
7 fibrinolysis may also be indicated in (sic.) patients  
8 with acute right ventricular strain from  
9 thromboembolism (sic.), even in the absence of  
10 hemodynamic compromise."

11 Q. Okay. So that would be your support for  
12 the statement that it's a -- it is a standard to use  
13 t-PA in patients with these --

14 A. Yes, ma'am.

15 Q. -- different findings?

16 And would that be in patients with  
17 unconfirmed pulmonary embolism or confirmed pulmonary  
18 embolism?

19 A. Highly suspected pulmonary embolism, if  
20 not confirmed.

21 THE VIDEOGRAPHER: My tape is about to  
22 end. Can we go off record real quick?

23 MS. CHENEY: Uh-huh.

24 THE VIDEOGRAPHER: We're going off record  
25 at 12:26 p.m.

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1 (A recess was taken.)

2 THE VIDEOGRAPHER: This is tape three of  
3 the continued deposition of Dr. Philip Leavy. We are  
4 back on the record at 12:35 p.m.

5 BY MS. CHENEY:

6 Q. Okay. Dr. Leavy, are you ready to  
7 proceed?

8 A. Yes, ma'am.

9 Q. When we broke, we were talking about your  
10 statement that patients with highly suspected,  
11 although not necessarily confirmed, PE should get  
12 thrombolytic therapy, and you had earlier said that if  
13 a patient is unstable they would get t-PA right away  
14 as opposed to first starting -- the impression I got  
15 was they would get t-PA right away as opposed to first  
16 starting heparin?

17 A. Oh, we always give heparin with it.

18 Q. Oh, okay. So you give heparin at the  
19 same time as the t-PA?

20 A. Yes. Yeah.

21 Q. Okay. And how do you dose that, the  
22 heparin with the t-PA?

23 A. We dose it anywhere from 80 to 100 per --  
24 units per kilogram bolus and then 18 per kilogram per  
25 hour for heparin.

1 Q. Eighty to 100 units of heparin per  
2 kilogram?

3 A. Yeah.

4 Q. Do you have a -- a protocol in your  
5 hospital that establishes that dosing?

6 A. You know, I think we do.

7 Q. Would you be able to get your hands on  
8 that?

9 A. I can try.

10 Q. Okay.

11 A. I mean -- well, I don't know if the  
12 hospital I'm going to today has it, but I know the  
13 main hospitals have it.

14 Q. So if we send a request to Ms. Lorant,  
15 you could --

16 A. Yeah.

17 Q. -- possibly get it to her --

18 A. Sure.

19 Q. -- and she could get it to me?

20 MS. LORANT: And you're paying for his  
21 time if he has to do research to get it?

22 MS. CHENEY: Yes, we will, assuming a  
23 reasonable amount of time. I mean, I wouldn't think  
24 it would take, you know, several hours to do something  
25 like that.

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1 THE WITNESS: Days.

2 BY MS. CHENEY:

3 Q. And so you give 80 to 100 units of  
4 heparin per kilogram, and how much t-PA is given  
5 simultaneously?

6 A. Normally you'd have two different IVs  
7 going, okay.

8 Q. Uh-huh.

9 A. Fifteen milligrams bolus.

10 Q. And then 50 and then 35?

11 A. And then 50 and then 35.

12 Q. And then what about a heparin bolus,  
13 would you do that first?

14 A. Yeah, you always do that first.

15 Q. Okay.

16 A. That's the 80 to 100.

17 Q. That's for the bolus?

18 A. Yeah.

19 Q. And then what -- what is the maintenance  
20 amount?

21 A. Eighteen milligram per kilogram per hour.

22 Q. Okay.

23 A. Did I misstate that before?

24 Q. I'm sorry. I might have just  
25 misunderstood it.

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1 A. Okay.

2 Q. That makes more sense to me.

3 Are you familiar with the terms massive  
4 and submassive pulmonary embolism?

5 A. Yes.

6 Q. How do you define massive and --

7 A. I don't know how to define that.

8 Q. Okay. Is massive versus submassive PE  
9 another way of just talking about stable versus  
10 unstable?

11 A. I think they have to do with the -- the  
12 volume of the PE, massive clots versus submassive.

13 Q. You mean --

14 A. But I don't --

15 Q. -- the size?

16 A. Yeah. I don't know how you'd measure  
17 that.

18 Q. Okay. And in the literature where they  
19 speak of massive versus submassive PE, have you seen  
20 them refer to massive pulmonary embolism as -- as  
21 patients who present in cardiogenic shock and -- and  
22 hypotension and submassive PE as patients who are not  
23 hypotensive and are not in cardiogenic shock?

24 A. I just haven't seen that --

25 Q. Okay.

1 A. -- those two words defined.

2 Q. Okay. Do the hospitals that you work at  
3 have ICUs that are capable of caring for PE patients  
4 who have received thrombolytic therapy?

5 A. Sure.

6 Q. All of them, some of them?

7 A. All of them.

8 Q. Have you ever specifically studied  
9 pulmonary embolism?

10 MS. LORANT: Objection.

11 BY MS. CHENEY:

12 Q. In other words, done specific research.

13 A. Yes, I've -- I've researched pulmonary  
14 emboli.

15 Literature search, is that what you mean?

16 Q. Well, I was actually referring to  
17 participated in any type of medical research on  
18 patients with pulmonary embolism.

19 A. Only as -- as refers to our group. We  
20 did a study one time on -- on the rapidity of response  
21 and diagnosis and therapy for PEs.

22 Q. Do you --

23 A. This was probably in the late '80s.

24 Q. Okay. And rap -- rapidity of response to  
25 what?

1 A. To the presence of a PE in a patient.

2 Q. Rapidity of the response by healthcare  
3 professionals, you mean?

4 A. By us.

5 Q. By you?

6 A. Yeah.

7 Q. So the rapidity of your group's response  
8 to PE?

9 A. Right.

10 Q. And what was the rest of it?

11 A. And the outcome, you know.

12 Q. And what did your study conclude?

13 A. That we had to be more aware of the  
14 possibility of PEs with subtle presentations and to  
15 delay treatment of a PE is to invite death.

16 Q. Is it the case that PEs sometimes do not  
17 get diagnosed because they are mistaken for MIs or  
18 other types of conditions?

19 A. Yes, ma'am.

20 Q. And, by the same token, isn't it also  
21 true that patients who come in with signs and symptoms  
22 that healthcare providers think could or are probably  
23 pulmonary embolism could, in fact, be something else?

24 A. Absolutely.

25 Q. Did your study that your group did get

1 published anywhere?

2 A. No.

3 Q. It was just an internal kind of thing?

4 A. It was a response to complaints.

5 Q. And did you -- did -- did you-all prepare

6 any type of internal paper that still exists at the

7 present time?

8 A. I don't believe we did, no.

9 Q. Who compiled the data from your -- from

10 this study?

11 A. I know I was one of the people. I'm not

12 sure if it was the directors at each of the hospitals.

13 I don't --

14 Q. Uh-huh.

15 A. It's been a while, but --

16 Q. Okay.

17 A. -- I know I did it for -- for Maryview.

18 Q. And I think we've already looked at your

19 publications. You've never published anything on

20 pulmonary embolism, correct?

21 A. Correct.

22 Q. Have you ever been invited to present at

23 any national meetings on the subject of pulmonary

24 embolism?

25 A. No, ma'am.

1 Q. Have you ever given presentations at any  
2 local meetings on the subject of pulmonary embolism?

3 A. I've given a lecture to the residents on  
4 pulmonary emboli. I've given the discussion of  
5 pulmonary emboli to the paramedics and nurses in  
6 different lectures. I haven't given any to the  
7 medical society or anything like that, no.

8 Q. Okay. Have you ever prepared any  
9 handouts or outlines or documents to go along with  
10 these talks that you've given to residents or  
11 paramedics or nurses?

12 A. Yeah. Yes, ma'am.

13 Q. Do you have copies of those?

14 A. I don't. I haven't done it for -- since  
15 before we moved, which is three years ago. So I threw  
16 everything out --

17 Q. Okay.

18 A. -- that wasn't appropriate.

19 Q. Have you ever not called in a medical  
20 specialist to take over the care of a pulmonary  
21 embolism patient in the emergency department?

22 MS. LORANT: Objection.

23 THE WITNESS: By medical specialist you  
24 mean?

25 BY MS. CHENEY:

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1 Q. Internist --

2 A. Or cardiologist or --

3 Q. -- pulmonary, cardiologist, somebody like  
4 that.

5 A. No, they have to -- they have to be  
6 admitted, so we have to get someone to admit them.

7 Q. Okay. And when somebody -- when you call  
8 them in and somebody has to admit them, is it the case  
9 that they usually come and do an admitting history and  
10 physical examination?

11 A. Yes.

12 Q. How does it work in your emergency  
13 department as between the emergency -- the emergency  
14 department staff and the medical team that comes and  
15 does the admitting history and physical in terms of  
16 who is responsible for the patient?

17 MS. LORANT: Objection.

18 THE WITNESS: At what time?

19 BY MS. CHENEY:

20 Q. Once the -- once the medical team comes  
21 in and does their admitting history and physical,  
22 starts writing orders.

23 A. And the patient's still in the ER?

24 Q. Yes.

25 A. It's sort of a combined responsibility

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1 between the ER physician and who's ever admitting the  
2 patient until the patient leaves the ER.

3 Q. Have you ever worked with Ms. Lorant  
4 before?

5 A. No.

6 Q. Okay. So have you ever worked with any  
7 attorneys that she's been affiliated with before, such  
8 as Mr. Bill Faison or anybody from his firm?

9 A. What was the last name?

10 Q. Faison, F-A-I-S-O N.

11 A. I don't remember that name.

12 Q. Or Grover McCane?

13 A. I don't recall that name either.

14 Q. Okay. Do you know how she found out  
15 about you?

16 A. No.

17 Q. Do you advertise your services?

18 A. No.

19 Q. Are you listed with any expert witness  
20 referral services?

21 A. Yes.

22 Q. Which ones are you listed with?

23 A. Let's see. There's a -- I have received  
24 calls from several sources in the past 10 or 15 years.  
25 The most recent one has been a group out of Cleveland.

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1 I can't remember the -- begins with a C.

2 Q. The name of the group begins with a C?

3 A. Yeah, like an Italian name, who's called  
4 me probably three or four times this year to look at  
5 cases.

6 Q. Okay. Any others?

7 A. In the past?

8 Q. Uh-huh.

9 A. Oh, yeah. There have been -- a group in  
10 Atlanta, J.D./M.D., has called in the past. I've also  
11 received calls to look at cases from, let's see, New  
12 England Medicolegal. That's in Providence, Rhode  
13 Island. And a firm in West Palm, Southeastern Florida  
14 Medicolegal. There's also one probably 20 years ago  
15 back in D.C. that asked me to look at a case or two.  
16 I can't remember the name of that one.

17 Q. Is it the case that at the present time  
18 the only one that you're -- the only referral service  
19 that you're listed with is this -- this group out of  
20 Cleveland?

21 MS. LORANT: Objection to listed.

22 THE WITNESS: Yeah, I'm not sure what you  
23 mean by listed with, but that's the only group that  
24 has called me this year to look at cases.

25 BY MS. CHENEY:

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1 Q. Okay. Are you saying that you're not on  
2 any type of list with this group?

3 A. They have my name. I don't know -- you  
4 know, they call and ask if I'm still looking at cases  
5 and would I look at this one.

6 Q. Okay. I assume you're not the only  
7 physician whose name they have?

8 A. I hope not.

9 Q. Did Ms. Lorant contact you directly or  
10 did this case come to you through a service?

11 A. I don't recall.

12 Q. Have you billed for your time in this  
13 case yet?

14 A. I had received a stipend to begin with  
15 and I haven't billed since then.

16 Q. Okay. So a -- a retainer of sorts?

17 A. Right.

18 Q. And how much was that?

19 A. Three hours' work, \$900.

20 Q. So you charge \$300 an hour for review of  
21 cases?

22 A. Yes, ma'am.

23 Q. And how much time have you spent on this  
24 case up until today, but not including today?

25 A. I don't know that offhand. Probably

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1 eight to 10 hours with reviews, discussions, and  
2 depositions and so on.

3 Q. So it would be the case that you still  
4 have about seven hours or --

5 A. Roughly.

6 Q. -- someplace between five and seven hours  
7 to bill for?

8 A. Right.

9 Q. And when you received your retainer, I  
10 take it that was from Ms. Lorant, was it?

11 A. I think so.

12 Q. Now, you charge more than \$300 per hour  
13 for giving deposition testimony, correct?

14 A. Yes.

15 Q. Why is that?

16 A. That's more stressful. I can do it -- I  
17 have to do it at a certain appointed time, whereas I  
18 can review the stuff at my leisure.

19 Q. And what is your charge per hour for  
20 deposition testimony?

21 A. Six hundred dollars an hour.

22 Q. And then your charge for testifying at  
23 trial?

24 A. Two hundred and fifty dol -- I'm sorry,  
25 \$2,500 a day.

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1 Q. And is that for a day or any part of a  
2 day? In other words, if you spent half a day, would  
3 it still be --

4 A. No, that would be -- it would be for a  
5 24-hour period usually.

6 Q. So that amount would be prorated or --  
7 say you spent half a day instead of a day, so it would  
8 be \$1,200 -- \$1,250?

9 A. In court, you mean? In court?

10 Q. (Nodding head.)

11 A. No, it would be \$2,500.

12 Q. Oh, even if you just spent half a day  
13 doing it?

14 A. Yeah, because it takes me --

15 Q. Okay.

16 A. -- yes.

17 Q. Have you ever had testimony that you've  
18 given in a medical malpractice case peer reviewed?

19 A. Yes.

20 Q. Under what circumstances?

21 A. There was a complaint from an ER  
22 physician that I had testified against. He sent a  
23 complaint to ACEP. ACEP reviewed it and said it's a  
24 meaningless complaint.

25 Q. So they reviewed it and they -- they

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1 didn't think that you were out of line in --

2 A. That's correct.

3 Q. -- your opinions?

4 When you used the terms standard of care

5 in your affidavit, that the care did not comply with

6 the applicable standard of care, what do you mean by

7 that?

8 A. What's the standard of care?

9 Q. What do you mean by that?

10 A. It's the treatment that is rendered by a

11 physician of equal training and experience in a -- in

12 a circumstance of equal -- equal existence in

13 complexity.

14 Q. Okay. So when you say that the care

15 rendered to [Patient] at [UNIVERSITY HOSPITAL] was not in

16 accordance with the standards of practice among

17 members of the same healthcare profession with similar

18 training and experience situated in the same or

19 similar communities at the time the healthcare was

20 rendered, what do you mean? What same healthcare

21 profession are you talking about?

22 A. Emergency -- emergency medicine.

23 Q. Okay. And you say with similar training

24 and experience. And I take it that you have been able

25 to familiarize yourself with the training, experience

1 of these defendants because you have copies of their  
2 CVs as well as their deposition testimony; is that  
3 right?

4 A. Correct.

5 Q. How have you -- well, withdrawn.

6 And you say that -- you refer to the  
7 standard of care in the same or similar communities.  
8 What -- what is the community which you're talking  
9 about here?

10 A. Well, in -- in situations involving major  
11 medical centers with availability of subspecialty  
12 groups like they have at [UNIVERSITY HOSPITAL] or here at Sentara  
13 Norfolk General.

14 Q. Okay. Have -- do you have any  
15 information about the standard of care at [UNIVERSITY HOSPITAL] or in  
16 [University Community] that allows you to compare  
17 that to the standard of care in the communities that  
18 you're familiar with?

19 A. The standard of care there would be the  
20 standard of care for this particular problem in a very  
21 well-established, influential hospital that is  
22 research oriented and training oriented. So it would  
23 be, you know, the -- the right up-to-the-date  
24 standard --

25 Q. How --

1 A. -- treatment plan.

2 Q. Uh-huh. How do you know that? I mean,  
3 how do you know --

4 A. Because that's what happens in -- in  
5 university hospital centers.

6 Q. Have you done anything to look at what  
7 happens in the [UNIVERSITY HOSPITAL] system in order -- and to compare  
8 and contrast that with what happens in the systems  
9 that you're familiar with?

10 A. Yes. By reading the depositions I see  
11 that it's the same sort of group approach that -- that  
12 can be accomplished very rapidly or can be -- have --  
13 can have some delays for whatever reasons unexpected.

14 Q. Uh-huh.

15 A. But it's really the very high level of  
16 care with very specific and technical advances used.

17 Q. Do you know what diagnostic modalities  
18 are available to the physicians in the emergency  
19 department at [UNIVERSITY HOSPITAL] to investigate a diagnosis of  
20 suspected pulmonary embolism?

21 A. Well, we know of two that would make the  
22 diagnosis. One would be the echo. It's immediately  
23 available at that time and was done. And the second  
24 was the availability or the theoretical availability  
25 of a CAT scan.

1 Q. If the cardiologist who read this echo,  
2 as well as other cardiologists, were to testify that  
3 echocardiograms do not -- are not diagnostic of  
4 pulmonary embolism, what would you say to that person  
5 in support of your opinion that an echo can make the  
6 diagnosis of PE?

7 A. In this case I would like to see him  
8 say -- say that, because I don't believe he could  
9 think of anything else that would cause those changes  
10 in this specific -- specific patient.

11 Q. So there are changes seen on the  
12 echocardiogram that are consistent with pulmonary  
13 embolism, correct?

14 A. Yes.

15 Q. And you're saying --

16 A. And they go along with her clinical  
17 findings and her presentation and her recent  
18 postpartum status.

19 Q. So -- and you're saying that those  
20 changes are, in fact, diagnostic?

21 A. In this case, yes.

22 Q. Okay. And we also -- we talked about CT  
23 scan.

24 A. Right.

25 Q. What other things are you aware of that

1 they have available to them to --

2 A. VQ scanner.

3 Q. How are you aware that they have VQ  
4 scans?

5 A. You know, I'm not. I'm not. I take that  
6 back.

7 Q. Okay. What else are you aware of?

8 A. That's an older modality that's present  
9 in all -- every hospital I've ever been in, so I would  
10 assume [UNIVERSITY HOSPITAL] would have it, but I don't know that for a  
11 fact.

12 Q. Okay. What else are you aware of that --

13 A. Well, they --

14 Q. -- would be available?

15 A. They have interventional radiology, so  
16 they would have people being able -- who are capable  
17 of doing angiography.

18 (There was an interruption in the  
19 proceedings.)

20 BY MS. CHENEY:

21 Q. Okay. So we know they have VIR  
22 capability, so they can do pulmonary angiogram?

23 A. Angiograms as well as interventional.

24 Q. Okay. What about treatment modalities  
25 that are available at [UNIVERSITY HOSPITAL], what are you familiar with?

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1 A. Heparin.

2 Q. Okay.

3 A. T-PA, oxy -- I mean, all the things  
4 that -- oxygen, fluids, lines.

5 Q. What about surgical thrombectomy, do you  
6 know if that's available there?

7 A. I don't know that.

8 Q. Is that something that you have ever  
9 used --

10 A. No.

11 Q. -- to treat pulmonary embolism?

12 A. No.

13 Q. What about catheter thrombectomy, is that  
14 something --

15 A. You mean suction?

16 Q. Uh-huh.

17 A. It's not been used, as far as I know,  
18 down here.

19 Q. Okay.

20 A. In a pulmonary embolus situation.

21 Q. Okay. What situations is that used in?

22 A. Here it's been in arterial -- peripheral  
23 arterial clots.

24 Q. What other forms of treatment are there  
25 for pulmonary embolism besides the things that we've

1 already discussed?

2 A. For the acute phase I think we mentioned  
3 them all.

4 Q. Okay. And you said that you are a member  
5 of the American College of Emergency Physicians --

6 A. Right.

7 Q. -- ACEP?

8 A. Correct.

9 Q. Are there any guidelines or standards  
10 that ACEP has set out for serving as an expert witness  
11 in medical malpractice cases?

12 A. I believe there are.

13 Q. Do you have a copy of those?

14 A. No.

15 Q. Do you -- have you read them before?

16 A. Several years ago.

17 Q. Do you basically agree with those  
18 standards?

19 MS. LORANT: Object.

20 THE WITNESS: I can't remember what they  
21 were, but I didn't have any huge disagreements at all.

22 BY MS. CHENEY:

23 Q. Okay. Do you believe that  
24 electrocardiogram is diagnosed -- diagnostic of  
25 pulmonary embolism?

1 A. No.

2 Q. Do you believe that blood gases are  
3 diagnostic?

4 A. No.

5 Q. Do you believe that chest x-rays are  
6 diagnostic?

7 A. By themselves chest x-rays can be  
8 suggestive, but are not diagnostic.

9 The same with blood gases can be  
10 suggestive, the same with EKGs can be suggestive.

11 Q. Okay. So they can show findings that are  
12 consistent with --

13 A. Right heart strain.

14 Q. -- pulmonary embolism but not specific to  
15 pulmonary embolism --

16 A. Correct.

17 Q. -- is that right?

18 A. That's right.

19 Q. What about D-Dimer?

20 A. D-Dimer is for thrombosis, doesn't  
21 necessarily mean pulmonary embolus.

22 Q. Okay. And have you -- have you studied  
23 the pharmacology of heparin?

24 A. In a research manner you're talking  
25 about?

1 Q. Uh-huh.

2 A. No.

3 Q. Have you ever participated in any  
4 clinical trials of heparin?

5 A. No.

6 Q. Have you ever participated in any  
7 research specifically looking at heparin as a  
8 treatment for pulmonary embolism?

9 A. As a researcher you're talking about?

10 Q. Yes, sir.

11 A. No, ma'am.

12 Q. What about in something similar to what  
13 you've done with your group in looking at response  
14 time for PE patients? Have you been involved in that  
15 kind of sort of academic way of looking at treatment  
16 of pulmonary embolism with heparin?

17 A. Other than what I mentioned, no.

18 Q. And you haven't published anything  
19 concerning heparin, right?

20 A. Correct.

21 Q. I looked at one of your old depositions  
22 in a pulmonary embolism case in which you testified  
23 that 10,000 units is the standard dose for an initial  
24 bolus in a patient with suspected PE. Is that still  
25 your opinion?

1       A.   My opinion is that it's defined better  
2 right now and it's really given -- the starting bolus  
3 is 100 per kilogram, and some even mention going  
4 higher, to 150 per kilogram. But it's done on a  
5 weight-based method now. It used to be just blasted  
6 for everybody the same size.

7       Q.   Are -- I'm not interested in getting into  
8 your specific opinions right now, but are you critical  
9 of the amount of heparin that was given to [Patient]  
10 as her initial bolus?

11           MS. LORANT: At which hospital?

12           MS. CHENEY: Well, she only got one  
13 bolus.

14           THE WITNESS: Right.

15           I'm not critical.

16 BY MS. CHENEY:

17       Q.   Okay.

18       A.   I think, actually, he did a pretty good  
19 job of getting her diagnosed and treated and out of  
20 there to the major medical center in such a short  
21 period of time.

22       Q.   So you're not critical of the 5,000  
23 units?

24       A.   Not really. That could have been  
25 improved upon, but it could have been improved upon at

1 [UNIVERSITY HOSPITAL] where they weighed the patient.

2 Q. Do you practice -- what is evidence-based  
3 medicine?

4 A. That's a trend that seems to be in  
5 existence now where some of the old canards of  
6 medicine are being challenged and thrown aside when  
7 newer techniques and statistics dictate these old  
8 canards were wrong.

9 Q. Do you practice evidence-based medicine?

10 A. I try to.

11 Q. What literature do you consider to be  
12 reasonably reliable in your specialty?

13 We talked about Tintinalli. We talked  
14 about Rosen. Anything else?

15 A. Journals, you know, that we mentioned  
16 earlier, the -- the Annals and the Emergency Medicine  
17 journal are reasonably reliable. I -- you know, I  
18 don't think any of them are the Bible, but they're  
19 good starting points to -- to study from.

20 Q. Okay. You -- you indicated that the  
21 5,000-unit bolus that [Outside Doctor] started at  
22 [Community Hospital], you didn't have any problems  
23 with that, but you thought it could have been improved  
24 upon --

25 A. Right.

1 Q. -- either there or at [UNIVERSITY HOSPITAL]. What did you  
2 mean by that?

3 A. Well, that was given without weighing the  
4 patient and that was given in a hurry knowing the  
5 patient was going to be sent to a major medical center  
6 via air ambulance. Five thousand is really not the  
7 dose to use. It's, as I mentioned before, 80 to 100  
8 or even more per kilogram.

9 She was subsequently weighed and found to  
10 be 79 kilograms, I think.

11 Q. Uh-huh.

12 A. Which at 100 bolus would be 7,900 instead  
13 of 5,000. So it was -- it was less than the presently  
14 accepted standard as the bolus.

15 Q. Okay. And that presently accepted  
16 standard is set out where?

17 A. Well, it's in the textbooks.

18 Q. Which textbooks?

19 A. Rosen's and I believe Tintinalli's has  
20 it.

21 Q. Is it in the pages that you gave to me  
22 today or is it someplace else in those textbooks?

23 A. I don't know if it's in those pages or  
24 not.

25 Q. Well, if it is, it will be, and if it's

1 not --

2 A. It won't be.

3 Q. -- it won't be.

4 But it's your opinion that it's not  
5 necessary to -- to weigh the patient before you start  
6 giving the heparin; is that right -- I mean, before  
7 you -- before you give the bolus and start the heparin  
8 drip?

9 A. The perfect way to do it would be to get  
10 the accurate weight from the patient either by  
11 weighing her or by her knowing what her weight is.

12 If you're in a rush situation like they  
13 were at [Community Hospital], they know the patient's going  
14 to be transferred as rapidly as possible. They --  
15 they basically got everything started and anticipated  
16 the receiving hospital would pick up the ball and  
17 complete the bolus or add to the bolus that was given  
18 initially and up -- upgrade the -- the dose given on  
19 an hourly basis as well.

20 Q. Okay. So in your opinion being treated  
21 with a less than -- well, let me withdraw that and  
22 say, would you say that the 5,000 units was a  
23 subtherapeutic amount?

24 A. Yes, if that's all the patient ever got  
25 as a bolus, that would be subtherapeutic at that

1 point --

2 Q. And --

3 A. -- once you found out what the weight  
4 was.

5 Q. Uh-huh. And are you saying that treating  
6 the patient for the first two hours after presentation  
7 with a subtherapeutic amount is -- what are you  
8 saying, that that's okay, that that didn't cause harm  
9 to the patient?

10 A. Whether it caused harm to the patient, I  
11 don't know. It's not the -- it's not the defined  
12 bolus and drip that the patient should have received.

13 But was anything else blocking that from  
14 getting -- getting done in -- in the [Community Hospital] -- in the  
15 hospital, first hospital, and I think yes. I think,  
16 you know, the attention was on making the diagnosis  
17 clinically and getting that patient to a major medical  
18 center as soon as possible while starting the  
19 treatment that was anticipated.

20 Q. And, again, you talked about the -- the  
21 defined amount or however you referenced it. Is it  
22 your opinion that at [Univeristy Hospital] as  
23 well as similar communities, such as [2 other university based  
24 hospitals in the state],  
25 that the emergency room physicians there believe that

1 the standard bolus to give would be 7,900 units as  
2 opposed to 5,000?

3 A. It's anywhere between 80 and 100 and  
4 maybe even higher. Five thousand would not be the  
5 acceptable dose of bolus for most people.

6 Q. So if the emergency departments at  
7 [Area university hospitals] would all give  
8 5,000 units, it would be your opinion that they --  
9 they are all not in compliance with what is considered  
10 by you to be the standard of care?

11 A. Well, it's not what's considered by most  
12 people and the people who write in Tintinalli at UNC  
13 to be the standard of care.

14 I don't know what [Area university hospitals] does. I don't  
15 know what [Area university hospitals] does.

16 Q. Do you concede that [Area university hospitals]  
17 Forest are similar communities to [University Community]?

18 A. Boy, you have to ask a [deleted] that?

19 They seem to be to me. They both have,  
20 you know, fine hospitals and research centers and so  
21 on.

22 Q. And if they all practice one standard of  
23 care and you practice a different standard of care,  
24 you're not sitting here telling us today that --  
25 that -- that you're right and they're wrong, are you?

1 A. I would like to see what they say in this  
2 specific case, you know --

3 Q. Okay.

4 A. -- because that's what you're asking me  
5 about.

6 Q. Okay. If they say different from you,  
7 perhaps it could be that the standard of care you  
8 practice is not similar to the standard of care  
9 practiced in those communities, correct?

10 A. I don't know what they -- I don't know  
11 what they use.

12 Q. And you've done nothing to try to -- to  
13 try to educate yourself about what the standard of  
14 care is there in terms of giving heparin --

15 A. That's --

16 Q. -- correct?

17 A. I have not.

18 Q. What are the risks associated with  
19 heparin?

20 A. Bleeding is certainly one of them,  
21 allergic reactions, and heparin-induced  
22 thrombocytopenia.

23 Q. And are there any contraindications to  
24 giving heparin?

25 A. Yeah, active -- active bleeding; recent

1 closed space surgery, like spinal cord or brain or  
2 eye; massive -- you know, massive gunshot wounds or  
3 injuries that you would anticipate bleeding with.

4 Probably several others.

5 Q. Okay. And what do you do in a patient  
6 who presents with pulmonary embolism and has  
7 contraindications to getting heparin?

8 A. Well, you'd certainly give -- you can  
9 give a thrombolytic.

10 Q. You certainly can --

11 A. Yeah.

12 Q. -- or you certainly wouldn't?

13 A. You can, yeah.

14 Q. Okay. In a patient with  
15 contraindications to heparin, you could still give  
16 thrombolytics?

17 A. Unless they have contraindications to  
18 thrombolytics.

19 Q. Okay. Isn't active bleeding a  
20 contraindication of thrombolytics?

21 A. From where?

22 Q. From anywhere.

23 A. No. If you have a little cut on your  
24 wrist or cut on your forearm and you're bleeding from  
25 it, you can still get thrombolytics.

1 Q. Okay. Active internal bleeding?

2 A. Heavy active internal bleeding would be a  
3 contraindication.

4 Q. So just active bleeding is a  
5 contraindication to heparin, but it would have to be  
6 heavy internal bleeding before it would be a  
7 contraindication to thrombolytics?

8 A. No. Heavy internal bleeding would be a  
9 contraindication to heparin as well.

10 Q. Okay. Why -- you gave active bleeding as  
11 a contraindication to heparin.

12 A. That's what I was talking about.

13 Q. Okay. You were talking about heavy  
14 active internal bleeding?

15 A. Right.

16 Q. And so if a patient is having heavy  
17 active internal bleeding and con -- and heparin is  
18 contraindicated, then thrombolytics would also be  
19 contraindicated, correct?

20 A. In that case they would be, correct.

21 Q. And so then what would you treat with?

22 A. You may be on the -- on the down side of  
23 treatment.

24 Q. There -- there are -- are alternatives to  
25 giving heparin, aren't there?

1 A. There are -- there's a --

2 Q. Heparin substitutes sort of?

3 A. There's a heparin substitute that you can  
4 use in people who you want to use heparin but have  
5 some previous complication with heparin, like --

6 Q. Uh-huh.

7 A. -- heparin-induced thrombocytopenia. I  
8 think it's called Hurdian (phonetic) that you can  
9 use.

10 Q. Okay.

11 A. The low-molecular weight dextran -- I'm  
12 sorry, low-molecular weight heparin is used but not --  
13 is used for DVTs but not commonly used as often for  
14 PEs as heparin.

15 Q. What is heparin-induced thrombocytopenia?

16 A. It's a patient that receives heparin and  
17 a couple days later gets -- platelets get lower and  
18 lower and lower.

19 Q. Uh-huh. If a patient develops  
20 heparin-induced thrombocytopenia, is thrombolytic  
21 therapy contraindicated?

22 A. No.

23 Q. So a patient can have --

24 A. You mean in the past, if they've had  
25 heparin in the past and developed thrombocytopenia?

1 Q. No. Say -- say a patient has been  
2 getting heparin, platelets get low. Would you  
3 thereafter feel comfortable giving thrombolytics?

4 A. For what?

5 Q. For pulmonary embolism.

6 MS. LORANT: Objection.

7 THE WITNESS: You could still use -- if  
8 there's a need to get fibrinolytics, you could still  
9 use them.

10 BY MS. CHENEY:

11 Q. Is there any -- are there increased risks  
12 of giving t-PA in a patient with low platelets --  
13 increased bleeding risks, I should have said?

14 A. There probably are. That's always a  
15 thing you have to weigh.

16 Q. Assuming that [Patient] had a pulmonary  
17 embolism, where do you believe that the clot in her  
18 lungs originated?

19 A. Probably from the pelvis.

20 Q. And why do you think that?

21 A. Because she didn't have any evidence of  
22 lower extremity DVTs. She had had a recent delivery,  
23 had a vaginal tear that was sutured. I think that the  
24 most likely place would have been a pelvic origin for  
25 her DVT.

1 Q. Now, how do you -- what do you mean by  
2 there was no evidence of lower extremity DVTs?

3 A. Well, nobody mentioned any swelling  
4 consistent with -- I'm sorry, uni -- unilateral or  
5 even bilateral swelling consistent with DVT  
6 presentation.

7 Q. Okay. Lower extremity DVTs were not  
8 actually ruled out in [Patient], though, were they?

9 A. She never got the PVLs. No, they weren't  
10 ruled out.

11 Q. Okay.

12 A. She didn't need to have them ruled out.

13 Q. So -- she didn't need to have them ruled  
14 out?

15 A. No.

16 Q. What do you mean by that?

17 A. Well, she had a pulmonary embolus.  
18 That's what you have to treat. You worry about the --  
19 the source of it later.

20 Q. So you're saying that it was not -- not  
21 necessary for her to have gotten the lower extremity  
22 Doppler studies that were ordered --

23 A. It's a waste of time at that point.

24 Q. -- in the emergency room?

25 Okay. If the -- would -- would it make

1 any difference in terms of her diagnosis, management,  
2 or outcome whether her clot in her lungs came from her  
3 legs versus her pelvis?

4 A. Not at this point, no.

5 Q. Okay.

6 A. Not -- not the treatment you do in the  
7 ER. If she had -- let's say she had a -- a DVT in the  
8 left extremity and she developed post-thrombotic  
9 syndrome or something. That would be a concern. Of  
10 course, that would happen less frequently using  
11 fibrinolytics.

12 But the main thing is to get this lady  
13 through the day --

14 Q. Right.

15 A. -- before she dies.

16 Q. Right. Do you have any knowledge or  
17 information about whether she had any remaining clot  
18 in her pelvis or legs or wherever this came from after  
19 the thrombus embolized to her pulmonary artery?

20 A. Oh, I don't know. I don't know that  
21 there was ever a postmortem exam done.

22 Q. It's possible that she had clot remaining  
23 in her pelvis or her legs or wherever the source of  
24 origin was, isn't it?

25 A. Yes, ma'am.

1 Q. Is it also possible that she further  
2 embolized thrombus while she was in the emergency  
3 room?

4 A. You mean from the time she arrived  
5 until --

6 Q. Uh-huh.

7 A. -- she died could she have possibly  
8 thrown another PE?

9 Q. (Nodding head.)

10 A. Sure.

11 Q. And that would increase the clot burden  
12 that's already there?

13 A. Yep, absolutely, which is why the rush  
14 for treatment.

15 Q. Okay. Is there anything about giving  
16 systemic t-PA that would prevent that from happening?

17 A. Systemic t-PA is known to reduce the clot  
18 formation -- I'm sorry, the clot presentation and the  
19 clot amount in the lung tissue itself --

20 Q. Uh-huh.

21 A. -- in the pulmonary arteries.

22 Q. But it doesn't prevent further clot from  
23 embolizing to the pulmonary arteries, does it?

24 A. It breaks down the clots and so it, in  
25 fact, most likely does prevent them from embolizing.

1 Q. Okay. As it -- as it begins to break  
2 down clots from working on the outside, isn't it true  
3 that there is a concern that it will make it easier  
4 for any remaining clots to further embolize into the  
5 pulmonary artery?

6 A. Well, there's always that concern. The  
7 same with heparin. But, you know, you have to -- to  
8 take those chances when you have somebody at such high  
9 risk. You have to -- to give everything you have and  
10 not hold back.

11 Q. Heparin won't dissolve a clot, but it  
12 just prevents any clots that remain from getting  
13 bigger; isn't that --

14 A. That's what it's --

15 Q. -- what heparin does?

16 A. Theoretically does, yes.

17 And then the clots that are there would  
18 have to be -- over a period of time have to be broken  
19 down by the body's own processes. And, you know, the  
20 problem is that the clots don't get completely  
21 cleared. You still have remnant clots and -- and  
22 their sequelae --

23 Q. Uh-huh.

24 A. -- both in the legs, the pelvis, and the  
25 lung fields.

1 Q. So it doesn't let the -- or it helps  
2 then -- helps the clot from getting any bigger, but it  
3 doesn't resolve the thrombus in the legs --

4 A. The heparin?

5 Q. -- or -- right.

6 A. Correct.

7 Q. -- or the pelvis or anyplace?

8 A. Right.

9 Q. And it doesn't prevent the thrombus from  
10 further embolizing, right?

11 A. No, that's for sure.

12 Q. And, in fact -- withdrawn.

13 What did [Patient] 's PTT values show  
14 about her level of -- about the therapeutic value of  
15 the heparin, the amount of heparin that she was given?

16 A. I think there was -- no, let me not  
17 think. Let me look.

18 Q. Yeah. This is certainly not a memory  
19 test, so you can refer to anything you need to refer  
20 to.

21 A. The blood collected at 4 -- I'm sorry,  
22 1620 had a PTT of 69.3.

23 Q. Okay. Can you speak to that amount as --  
24 well, let me -- let me rephrase that.

25 Is 69.3, does that indicate that she was

1 getting an appropriate amount of heparin?

2 A. If you've just given a bolus and the drip  
3 was started, you'd probably expect it to be a little  
4 higher than that, hope -- hope it to be a little  
5 higher than that.

6 Q. Okay. If she had --

7 A. You want to maintain it about two and a  
8 half to three times normal.

9 Q. Okay. If she had gotten the bolus and  
10 the drip had been started a couple of hours before  
11 this, would you expect that this would indicate that  
12 she was on a therapeutic dose?

13 A. It's -- it's really subtherapeutic, but  
14 close to it.

15 Well, 69 -- she could have used some more  
16 heparin with the bolus, but that -- that is certainly  
17 a PTT that's been affected by the medication given  
18 already and demonstrating a prolongation, which is  
19 where you want it to be.

20 Q. Uh-huh. And so she could have been given  
21 more heparin certainly, anybody could have given her  
22 more heparin, but the PTT values don't indicate  
23 that -- that she needed more heparin, do they?

24 A. As I said, this -- this is early in the  
25 beginning of the treatment. You'd like it to be

1 higher than that.

2 Q. Okay. This is at 4:20?

3 A. Right.

4 Q. She was initially treated at [Community Hospital]

5 some two hours before that, right?

6 MS. LORANT: Objection.

7 THE WITNESS: I don't think it was quite

8 two hours, was it?

9 BY MS. CHENEY:

10 Q. Well, what time --

11 A. What -- whatever.

12 Q. -- did she present to [Community Hospital] and get

13 treated, and she was there for, what, an hour and a

14 half, and then she was transferred and finally

15 arriving at [UNIVERSITY HOSPITAL] at around 4:00.

16 A. Let me look at those times.

17 She was given 1445 a bolus, and the drip

18 was started right about the same time.

19 Q. So 1445 is 2:45?

20 A. Let's make it 1445, yes.

21 Q. Okay. And then the -- the PTT was at?

22 A. Let's see. 1420.

23 Q. Oh, 1420.

24 Is that right? Was that a PTT obtained

25 at [UNIVERSITY HOSPITAL] or at -- oh, no, 1620 --

1 A. 1620.

2 Q. -- is when the PTT was.

3 A. So 1445 to 1620, that's about an hour and  
4 a half or so. I would like to see the PTT higher than  
5 that at that point, because you've given the bolus and  
6 then started the drip and started the treatment.  
7 That's a satisfactory range over a longer period of  
8 time.

9 Q. Actually, the PTT is supposed to reflect  
10 the treatment, isn't it? I mean, isn't that why  
11 you're checking PTTs as you go along --

12 A. Sure.

13 Q. -- to find out if the dosing of heparin  
14 is appropriate or if it needs to be increased or  
15 decreased?

16 A. That's correct, or decreased.

17 Q. Is pregnancy a hypercoagulable state?

18 A. Yes.

19 Q. In a patient three days postpartum, such  
20 as [Patient] , there would be some degree of  
21 hypercoagulability still expected to be present,  
22 correct?

23 A. That's right.

24 Q. Do you agree that you don't treat every  
25 patient the same, you have to treat each patient as an

1 individual?

2 A. That's correct.

3 Q. And you need to be cautious in a patient  
4 such as [Patient] in order not to over coagulate  
5 with heparin, don't you?

6 A. Well, you have to be cautious in  
7 everybody not to over coagulate, because there is a  
8 complication rate, although small, even for heparin.

9 Q. Do you have any sort of figures in your  
10 mind of the percentage of patients who present with  
11 pulmonary embolism in the emergency room and are  
12 treated with heparin alone who survive?

13 MS. LORANT: Objection.

14 THE WITNESS: The numbers I remember are  
15 90 percent, with a 10 percent non-surviving rate.

16 BY MS. CHENEY:

17 Q. Okay. Using your figures of 90 percent,  
18 then that would indicate that prospectively [Patient]  
19 had a 90 percent chance of survival with  
20 heparin alone, right?

21 MS. LORANT: Objection.

22 THE WITNESS: The numbers I quoted were  
23 from all statuses of people, and certainly she was at  
24 a much higher risk and a much higher risk in  
25 presentation of her clinical symptoms.

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1 BY MS. CHENEY:

2 Q. Okay. Then let's be more specific. What  
3 percentage of patients who present as [Patient]  
4 presented survive with treatment by heparin alone?

5 A. I don't know those numbers.

6 Q. In your opinion was there any -- well,  
7 let me withdraw that.

8 What about [Patient] 's presentation, if  
9 anything, should have suggested to her healthcare  
10 providers that she was in imminent danger of death,  
11 that death was imminent for her?

12 A. What about her presentation?

13 Q. Uh-huh.

14 A. Well, a red flag goes up when someone  
15 comes in who's recently postpartum with clinical signs  
16 and symptoms of pulmonary embolus. She was high  
17 oxygen dependent just to maintain sats in the 90s.  
18 Any stress at all or even slight movement out of the  
19 bed or on the stretcher showed marked decrease in her  
20 saturation. She was tachycardic almost all the time.  
21 And, of course, when she desatted, her pulse went up  
22 in the 130s and '50s.

23 Those -- those things alone put her at a  
24 high rate for having an unsatisfactory outcome.

25 Q. And do you believe --

1 A. And the longer you waited to treat that,  
2 the longer the -- the higher the -- the odds against  
3 living became.

4 Q. Based upon these -- these things that  
5 you've listed alone, is it your opinion that the --  
6 her healthcare providers should have known that she  
7 would not survive longer than three hours,  
8 three-and-a-half hours?

9 A. I don't know if you could put a number on  
10 it, and certainly you don't want to. You don't want  
11 to wait until the end to treat. You want to treat  
12 early on in this particular case.

13 People that have pulmonary emboli but are  
14 not as symptomatic as she was, you may have a little  
15 time -- longer time to wait.

16 Q. Oxygen and heparin are the standard  
17 treatments for pulmonary embolism, right?

18 MS. LORANT: Objection.

19 THE WITNESS: Fibrinolytics are the  
20 standard treatment for people who are unstable and  
21 have pulmonary emboli. Heparin is -- is used in  
22 people who have small pulmonary emboli, and oxygen is  
23 used in anybody thought to have pulmonary emboli.

24 BY MS. CHENEY:

25 Q. But it would be incorrect to say of [Patient]

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1 that she was not receiving treatment for her  
2 suspected pulmonary embolism, wouldn't it?

3 A. She had been receiving heparin, she had  
4 been receiving oxygen, but she required more than  
5 that.

6 Q. Okay. But those are standard treatments?

7 A. No, they're not. They're part of the  
8 standard treatment. Oxygen, heparin, and in her case  
9 fibrinolytics are the standard treatment.

10 Q. Okay. And other than pointing me to  
11 these textbooks which talk about may use and -- and  
12 things like that, is there anyplace that you can point  
13 me to where there is a standard of care that says that  
14 in patients presenting with pulmonary embolism with  
15 whatever criteria you want to add to it, that the  
16 standard of care is for them to get thrombolytics,  
17 systemic thrombolytics?

18 A. I -- I don't know if anybody -- of any  
19 articles that use those specific -- all of those  
20 specific words, no.

21 Q. Well, what do you rely on to -- to say  
22 that that's a standard of care?

23 A. Actually, what's said in those -- in that  
24 page there is what is the standard of care.

25 Q. Okay. Is there anything else that --

1 A. There are many other articles that --  
2 that demonstrate the difference between heparin use  
3 alone in PE versus heparin plus thrombolytics --

4 Q. But those articles --

5 A. -- and point out the difference and --  
6 and contrast the difference between the two.

7 Q. Has any -- any article or any book or  
8 anything else that you've ever read or any study that  
9 you're aware of that's ever been done shown a  
10 difference in the mortality rate between patients  
11 treated with thrombolytics versus patients treated  
12 with heparin alone? And I'm talking about a  
13 statistically significant difference in mortality.

14 A. Yes. The numbers that are quoted are 11  
15 percent death rate for people with PEs and treated  
16 with heparin and 5.1 or something percent death rate  
17 in PEs -- from people treated for PEs who have -- in  
18 addition to heparin have thrombolytics given.

19 Q. And --

20 A. It doesn't say systemic thrombolytics,  
21 however.

22 Q. Okay. And where is that? Where are  
23 those figures?

24 A. That's in the same article.

25 Q. The --

1 A. Not the same article, the same copy that

2 I--

3 Q. Rosen -- the Rosen book?

4 A. Right, yeah.

5 Q. And were those people in whom pulmonary  
6 embolism had been confirmed?

7 A. They were I think highly suspected or  
8 confirmed.

9 Q. And were those people -- were those --  
10 were those -- were -- was that a population of  
11 pulmonary embolism patients that was considered stable  
12 or unstable or massive or submassive pulmonary  
13 embolism? Do you know what they were looking at  
14 specifically?

15 A. They were either unstable or had evidence  
16 of right heart strain.

17 Q. I take it -- well, withdrawn.

18 Can you speak to the issue -- you know  
19 that [Patient] was weighed when she got to [UNIVERSITY HOSPITAL] and  
20 they discovered that she -- or they -- they found out  
21 that she weighed 79.1 kilograms, I think it was?

22 A. Right.

23 Q. In your opinion -- and -- and you also  
24 know, I take it, that they increased her heparin drip?

25 A. They -- an order was written to increase

1 it.

2 Q. Okay.

3 A. I don't know if it was -- I don't know,  
4 honestly, if it was increased or not.

5 Q. Okay. You don't -- you don't know one  
6 way or the other, but you know that an order was  
7 written?

8 A. Yeah.

9 Q. And I take it you have no knowledge or  
10 information that the heparin drip was not, in fact,  
11 increased?

12 A. It was not documented as being increased.  
13 I don't know what happened.

14 Q. You don't know that it wasn't, though?

15 A. I don't know that it was or wasn't.

16 Q. Okay. So, now, having gotten through  
17 that, let me ask you if you -- if you have any  
18 criticisms of the amount by which the heparin dose was  
19 increased?

20 A. The drips sound right.

21 Q. From 1,000 to 1,260?

22 A. Right.

23 Q. Based on her weight?

24 A. Right.

25 Q. But I take it you believe they should

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1 have done something else in the way of bolusing?

2 A. They could have re-bolused her up to the  
3 level that was indicated as --

4 Q. You say that --

5 A. -- as we discussed earlier.

6 Q. Right. You say they could have  
7 re-bolused her. Based on her PTT do you believe that  
8 it was a deviation from the standard of care not to  
9 re-bolus her?

10 A. Yes.

11 Q. Okay. And tell me why.

12 A. Because the standard of care says X, you  
13 know, you give this amount, and she didn't get it.

14 Q. And the standard of care says X. What is  
15 it? I don't --

16 A. Eighty to 100 bolus.

17 Q. The standard of care says 80 to 100 units  
18 per kilogram as a bolus?

19 A. Uh-huh, yes.

20 Q. And you said that's -- that standard of  
21 care is set out where?

22 A. In the texts.

23 Q. The ones that you gave me?

24 A. Yep.

25 Q. Rosen and Tintinalli?

1 A. Right.

2 Q. And they say that that's the standard of  
3 care?

4 A. Well, I don't know about -- one of them  
5 has those numbers in that.

6 Q. Are there --

7 A. One of them also suggests maybe even  
8 higher because of their hypercoagulable state.

9 Now, if it was 80 you decide to give,  
10 she'd only get 6,400 units, which is not a whole lot  
11 more. If it was 100, then -- then she'd be up to  
12 7,900 units.

13 Q. So it would have been acceptable to give  
14 80 --

15 A. I believe so.

16 Q. -- in your opinion?

17 And so since she had already gotten a  
18 bolus of 5,000, you're saying they should have given a  
19 bolus of an additional 1,400?

20 A. Right.

21 Q. And what effect do you think that had on  
22 her outcome, if any, not getting that additional  
23 bolus?

24 A. I don't think the heparin was going to  
25 save her. She needed fibrinolytics.

1 Q. So no -- so no effect on causation?

2 A. I don't believe so.

3 Q. Do you intend to limit your opinions in  
4 this case to your specialty of emergency medicine?

5 MS. LORANT: Objection.

6 THE WITNESS: I intend to limit my  
7 questions and opinions to what went on in the ER.

8 BY MS. CHENEY:

9 Q. Let me put it another way. Which  
10 defendants do you intend to testify violated the  
11 standard of care?

12 A. Well, the -- the attending ER physician.

13 Q. [Doctor #1]?

14 A. Yes.

15 I think [Doctor #3] if she didn't do what  
16 [Doctor #1] asked her to do violated the standard of  
17 care.

18 Q. If she didn't do what?

19 A. Make the plan happen.

20 Q. And what specifically --

21 A. If that was the sequence of orders and  
22 responses, then [Doctor #3] didn't do it and didn't relay  
23 that information to the oncoming resident that it  
24 wasn't done.

25 Q. Okay. And what specifically are you

1 talking about?

2 A. To establish the contact with the VIR, to  
3 see if that could go down, when it could go down, how  
4 rapidly, and so forth.

5 Q. So you say if [Doctor #3] didn't do what Dr.  
6 [Doctor #1] asked her to do -- i.e., establish contact with  
7 the VIR team --

8 A. No, establish contact and make a plan --  
9 I'm sorry, make a time that we could get this patient,  
10 and a very soon time, as a matter of fact, to get this  
11 patient up to get everything done that had been part  
12 of the big plan.

13 Q. Okay. So if the evidence in this case  
14 shows that it was not [Doctor #3] who -- who did this but  
15 [Doctor #6] or Dr. Carrizosa, the medical team, who  
16 did this, with [Doctor #1]'s knowledge, then what are  
17 your criticisms of [Doctor #3], if any?

18 A. Well, if that was done and -- and the  
19 plan had a time to it, it was very soon after that  
20 echo was done, then that would have been satisfactory.  
21 But that didn't come out, didn't come about at all.

22 Now --

23 Q. Now, what do you mean?

24 A. If these two medical residents, in fact,  
25 made contact but didn't inform the VIR that this had

1 to be done right now, that's unsatisfactory. Just  
2 making contact is not good enough. You have to make  
3 contact and get the job done as rapidly as possible --

4 Q. Okay.

5 A. -- after you have all the evidence you  
6 had with the echo.

7 Q. All right.

8 A. That information should have been relayed  
9 back to [Doctor #1] one way or the other so that Dr.  
10 [Doctor #1] could put accessory plans in place if it  
11 couldn't be done with --

12 Q. Okay. And I kind of got ahead of myself.

13 MS. LORANT: Did you finish your answer?

14 THE WITNESS: -- with the -- with the  
15 expected efficiency --

16 BY MS. CHENEY:

17 Q. Sorry.

18 A. -- and expediency that she would like it  
19 to be done.

20 Q. And I got ahead of myself, because I'm  
21 actually going to come back and talk to you in great  
22 detail about [Doctor #3]. I was just trying to get a  
23 list here of which defendants you intend to testify  
24 violated the standard of care.

25 A. Okay.

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1 Q. Just kind of got --

2 A. And so we got two.

3 Q. -- diverted there.

4 A. Yeah, we got two.

5 Now, I don't know what Dr. --

6 Q. There's two left, [Doctor #2] and Dr.

7 [Doctor #4].

8 A. Yeah. [Doctor #2] thought everything was done.

9 He got the patient intubated adequately. I don't have

10 a significant criticism with him.

11 Q. No criticism with him.

12 A. [Doctor #4], I don't know what part his --

13 I don't know what part he really played in the

14 development of their VIR -- I'm sorry, CT/VIR plan. I

15 don't know what he -- you know, was that in place of

16 the fibrinolytic systemically? And I don't know what

17 that would mean, because I can't find any literature

18 comparing the two.

19 Q. Uh-huh.

20 A. But if he caused the delay in -- from her

21 getting systemic fibrinolytics after the echo, then he

22 has a big part in this play as far as delaying the

23 care that would have prevented her death.

24 Q. Okay. Now, as to [Doctor #4], since

25 you don't know what part he played, are you able to

1 say to a reasonable degree of medical certainty that  
2 he violated any standard of care applicable to him?

3 A. Well, the standard of care would be the  
4 standard of care for the ER, number one.

5 Q. For an emergency physician?

6 A. Because it happened in the ER.

7 Q. Okay. So the standard of care applicable  
8 to a pulmonary medicine specialist is identical to the  
9 standard of care applicable to an emergency medicine  
10 specialist because the pulmonary medicine specialist  
11 was treating the patient or was seeing the patient in  
12 the emergency department; is that --

13 A. That's correct.

14 Q. -- your testimony?

15 A. Now, his -- his standard may be higher  
16 than the ER physicians in that care, but at least it  
17 has to be to the level of that ER physician.

18 Q. Okay. Okay. I just wanted to make sure  
19 that I had that.

20 Now, I need you to give me every reason  
21 that you think you should be allowed to testify  
22 concerning the standard of care applicable to a  
23 pulmonary medicine specialist. And I need you to be  
24 specific about this, because this is something -- a  
25 part of the deposition that we're actually going to be

1 having the court look at.

2 A. Okay.

3 MS. LORANT: Objection.

4 BY MS. CHENEY:

5 Q. So I just need a complete and specific  
6 answer.

7 A. Well, the fact that the patient's  
8 receiving treatment in the ER for a -- a pulmonary  
9 problem doesn't take that patient's critical disease  
10 out of the ER medicine. It has to be at least at the  
11 level of the emergency medicine treatment for that  
12 particular patient.

13 If the pulmonologist had extra training  
14 and extra techniques and extra skills that the ER --  
15 that the -- the standard ER physician had, then I can  
16 comment on that. But I certainly would expect that ER  
17 physician level of care to be done by the  
18 pulmonologist and not to prevent that level of care  
19 from happening.

20 Q. Okay. Now, before I get into what your  
21 specific opinions are about [Doctor #4], can you  
22 tell me every fact upon which your opinions about Dr.  
23 [Doctor #4] are based?

24 MS. LORANT: Objection.

25 THE WITNESS: Number one, he came down

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1 and saw the patient.

2 BY MS. CHENEY:

3 Q. Do you have an assumption or any  
4 knowledge or information about what time he came down  
5 and saw the patient?

6 A. Yeah. Let me see.

7 He arrived I believe shortly after the  
8 patient did, within probably 15, 20 minutes after the  
9 patient arrived in the ER, was with the patient from  
10 around 4 -- 1625 to 1700 hours, on and off, and  
11 discussing the case, the care and treatment with Dr.  
12 [Doctor #1], the attending ER physician.

13 Q. What is the time on [Doctor #4]' note?

14 That might be one of the things that we  
15 had marked as an exhibit.

16 A. Looks like 1815.

17 Q. Okay. Is it your opinion -- and 1815  
18 would be 6:15 p.m., correct?

19 A. Yeah.

20 Q. Is it your opinion that he was -- and you  
21 were talking about 16 something --

22 A. Right.

23 Q. -- which would be in the 4 range. Is it  
24 your opinion that he was there for two hours before  
25 this note was written?

1 A. I don't know if he was there the entire  
2 time.

3 Q. Okay.

4 A. But he saw the patient at 1630, 1615.

5 Q. If he has testified that he saw the  
6 patient at around 6 p.m., or 1800, or shortly  
7 thereafter, do you have any knowledge or information  
8 upon which you base your opinion that it was a  
9 different time?

10 A. Well, the times that were described  
11 earlier in the other depositions certainly were at a  
12 much earlier time in the day and -- and much sooner  
13 than two hours after the arrival of the patient.

14 Q. Okay. Let me -- let me ask you this:  
15 If -- does it matter to your opinions whether he was  
16 there in the 4 p.m. range as opposed to the 6 p.m.  
17 range?

18 A. Sure.

19 Q. Okay. Tell me why. If he got there --

20 A. If he was involved at all in the delay in  
21 treatment of this patient and got there at 4 p.m., or  
22 1600, 1630-ish, then he could have delayed the  
23 patient's treatment for -- from that time on.

24 Q. Uh-huh.

25 A. If he didn't get there until two hours

1 later, then he could only delay the patient's  
2 treatment for -- from that time on.

3           So the time he got there is fairly  
4 important, if, in fact, he had any play in the delay  
5 of treatment of the patient.

6       Q.   Okay. We were talking about the facts  
7 upon which you based your opinions about Dr.  
8 [Doctor #4], and you said he came down and he saw the  
9 patient, he arrived shortly after the patient, and  
10 then we got into this discussion. So whatever time he  
11 arrived, he arrives, and then what are the next facts  
12 that you base your opinions on?

13       A.   That after arriving, seeing the patient,  
14 examining the patient, he discussed the care of the  
15 patient with [Doctor #1], the attending ER physician,  
16 and a plan was hatched at that point to do the endo --  
17 intubation on elective basis, to do the CT, and to do  
18 the VIR and get all that implemented as quickly and as  
19 efficiently as possible.

20       Q.   Okay.

21       A.   He was a part of that plan.

22       Q.   Okay. And what's your -- what's the next  
23 fact that you're basing this -- your opinions on?

24       A.   That he realized, number one, the patient  
25 had a right ventricular heave on his examination,

1 which indicates a right heart strain.

2 Q. Okay.

3 A. I don't remember if he saw the echo or  
4 not. I believe he did.

5 So at that point whenever the echo was  
6 done and he got the information about it, he was aware  
7 of the right heart strain both on physical exam and on  
8 echocardiography.

9 Q. Okay. And what other facts?

10 A. That's all the facts.

11 Q. Okay. Now, tell me each and every way  
12 that you, an emergency room physician, say that Dr.  
13 [Doctor #4], a pulmonary medicine specialist, violated  
14 the standard of care that's applicable to him as a  
15 doctor specializing in pulmonary medicine.

16 A. Okay. If he, in fact, had some part in  
17 the delay in treatment of the patient, [Patient] --  
18 I don't know that he did, but if he did delay the  
19 treatment, then he's -- he stopped the normal  
20 treatment of an -- of an emergency patient from  
21 happening.

22 Q. Okay. Anything else?

23 A. That's it.

24 Q. From happening.

25 Now, what facts do you need in order for

1 you to determine to your own satisfaction that he did  
2 or did not have a part in what you characterize as a  
3 delay in treating the patient?

4 A. Well, we know there was a discussion  
5 between he and [Doctor #1], okay. We don't know what  
6 that discussion entailed. We don't know what elements  
7 of his experience versus her experience were brought  
8 into -- into the mix. I don't know if he told her  
9 about new statistics out proving that  
10 catheter-directed t-PA was better than systemic t-PA  
11 and what those numbers were. I don't know what that  
12 discussion was all about.

13 Q. Okay.

14 A. I'd like to hear them describe to me or  
15 to -- in general what alternative plans were discussed  
16 and why this one plan was chosen overall.

17 Q. Okay. And what is it about that  
18 discussion that will help you to decide whether he had  
19 a part in delaying treatment of this patient?

20 A. Well, if -- if the ER physician wanted to  
21 give systemic thrombolytics and the pulmonary guy  
22 comes down and says, no, we have to give  
23 catheter-directed thrombolytics in this patient and  
24 I'll take care of it and I'll be responsible for it  
25 and I'll get my guys to set up the -- the three parts

1 of that plan, then the ER person would say, okay, it's  
2 your patient, even though it's in the ER it's your  
3 patient and you're going to get that all done and --  
4 and you have statistical proof that's a better way to  
5 handle it in this case, then he's, obviously, delayed  
6 the -- the incipient use of the thrombolytics that she  
7 wanted to do.

8 Q. Okay. Now, what if it was not his plan  
9 but it was a joint plan between him and the emergency  
10 physician?

11 A. Well, I want --

12 Q. What if they conferred and they agreed  
13 that, you know, after conferring and weighing risks  
14 and benefits and using -- each of them using their  
15 best medical judgment, what if they conferred and  
16 reached the opinion that this was the -- this was the  
17 best plan for this patient?

18 A. I'd like to know what part he played in  
19 that, period.

20 Q. Okay.

21 A. I want to know what statistics -- or if  
22 he quoted statistics what they were, what research he  
23 had done to -- or was aware of that would raise the  
24 VIR treatment plan above the systemic treatment plan  
25 in this critically ill patient.

1 Q. If you don't have that information, are  
2 you in a position -- let's say [Doctor #1] and  
3 [Doctor #4] can't remember the specifics of their  
4 discussions and you -- you never get this information.  
5 Are you in a position to testify that [Doctor #4] to  
6 a reasonable degree of medical certainty violated the  
7 standard of care applicable to him?

8 A. Yes, because --

9 MS. LORANT: Objection.

10 THE WITNESS: -- the patient should have  
11 gotten thrombolytics right after the echo report came  
12 back.

13 You have to weigh the illness -- the  
14 degree of illness in the patient versus the degree of  
15 satisfaction from treatment in the studies. I don't  
16 know what the degree of satisfaction studies in the  
17 VIR, but we do know what it is in systemic treatment.  
18 It's pretty darn good.

19 BY MS. CHENEY:

20 Q. I'm sorry. Say that again.

21 A. I don't know what the -- the  
22 catheter-directed thrombolytic effect is --

23 Q. Okay.

24 A. -- versus.

25 Q. So even without the information that

1 would tell you what role he played, it would still be  
2 your opinion that he violated the standard of care  
3 applicable to him just because the patient didn't get  
4 thrombolytics right after the echo?

5 A. Patient should have gotten thrombolytics  
6 right after the echo. If there was someone that  
7 stopped that from happening, they're responsible.

8 Q. Uh-huh. If the echo -- those results  
9 were available that we said around shortly after 5; is  
10 that right? You said the echo start time was 4:50  
11 something?

12 A. Six, 4:56.

13 Q. Yeah, something like that. So the  
14 results would have been available shortly after 5?

15 A. Yes.

16 Q. And --

17 A. Verbally. I mean, not -- not written up  
18 but verbally.

19 Q. Right. And if [Doctor #4] didn't get  
20 down there to the emergency room -- assuming for  
21 purposes of this question that he doesn't get there  
22 until 6 --

23 A. P.m.

24 Q. -- p.m., what are your criticisms?

25 A. I really don't have any criticisms of him

1 if he didn't get down there until 6 p.m.

2 Q. Okay. So if the facts --

3 A. Because the -- because the plan was  
4 already put -- you know, the plan was supposedly made  
5 and put into effect.

6 Q. So if the facts of this case, the jury  
7 finds them to be that [Doctor #4] does not arrive to  
8 the emergency room until around 6 p.m., then you would  
9 have no criticisms of him in terms of violations of  
10 the standard of care?

11 A. If that was the first time [Doctor #4]  
12 got down and saw the patient and participated in the  
13 patient care, I wouldn't have any criticisms of that.

14 THE VIDEOGRAPHER: I've got just a couple  
15 minutes left on this video.

16 MS. CHENEY: Okay.

17 BY MS. CHENEY:

18 Q. Do you believe --

19 MS. CHENEY: Well, you want to change it  
20 now?

21 THE VIDEOGRAPHER: That would be fine.

22 MS. CHENEY: Okay.

23 THE VIDEOGRAPHER: We're going off record  
24 at 1:58 p.m.

25 (A recess was taken.)

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1 THE VIDEOGRAPHER: This is tape three --  
2 four of the continued deposition of Dr. Philip Leavy.  
3 We are back on the record at 2:03 p.m.

4 BY MS. CHENEY:

5 Q. Okay. Dr. Leavy, we were talking about  
6 your opinion that this patient should have gotten  
7 thrombolytics right after the echo, which we think the  
8 results were probably available shortly after 5 p.m.  
9 What is the latest amount of time after the echo that  
10 you believe thrombolytics could have been administered  
11 to this patient and within the standard of care?

12 In other words, if they had given  
13 thrombolytics at 5:45, would that have been within the  
14 standard of care?

15 A. They got the information around 5:00?

16 Q. Uh-huh.

17 A. You have to give a lot of little leeway  
18 for the information to get back to the responsible  
19 physician, for the -- to get the fibrinolytics where  
20 they keep them in the ER or pharmacy.

21 The objective would be to give them as  
22 soon as possible after that definitive diagnosis was  
23 made by the echo.

24 Q. Uh-huh.

25 A. You know, if it's going to be 15 minutes

1 or 45 minutes, probably both are acceptable if they  
2 can get the high-dose -- high doses of thrombolytics  
3 in early.

4 The longer out it goes, the less -- less  
5 standard it becomes. I don't know if there's an end  
6 point. Certainly after she arrests is not --

7 Q. Uh-huh.

8 A. Whether they used thrombolytics then or  
9 not wouldn't make any difference.

10 Q. So it could have even gone after 6:00 and  
11 still been within the standard of care?

12 MS. LORANT: Objection.

13 THE WITNESS: Yes, but how far after I  
14 don't know.

15 BY MS. CHENEY:

16 Q. Okay. Let's just -- let's just work with  
17 6:00 p.m. Say they -- they give her all the  
18 appropriate doses of t-PA. And we're saying t-PA.  
19 I'm assuming that it would be t-PA or an equivalent  
20 thrombolytic.

21 If they give her all the appropriate  
22 doses at 6 p.m., do you have an opinion to a  
23 reasonable degree of medical certainty as to whether  
24 that would have changed the outcome in this case for  
25 [Patient] ?

1 A. I believe it would have, yes, 6:00.

2 Q. And what is the basis for that opinion?

3 A. Because t-PA works pretty quickly.

4 Q. It works pretty quickly to do what?

5 A. To improve vascular supply through the  
6 pulmonary artery and, therefore, include -- improve  
7 oxygenation.

8 Q. Okay. T-PA works quickly enough to have  
9 made a difference in this patient so that she --  
10 assuming that she arrested as a result of pulmonary  
11 embolism that she wouldn't have arrested when she did?

12 A. I believe she would not have, correct.

13 Q. And other than your opinion that t-PA  
14 works that quickly to change outcomes, had -- do  
15 you -- do you base your opinion on any -- any specific  
16 data that proves that?

17 A. Just my experience.

18 Q. If the data show certain end points but  
19 not an improvement in mortality, how do you explain  
20 that your experience is different from the experience  
21 of the researchers who have actually looked at this  
22 issue?

23 MS. LORANT: Objection.

24 THE WITNESS: Would you rephrase that --  
25 rephrase that, please?

1 BY MS. CHENEY:

2 Q. Okay. If -- if there are no studies that  
3 have shown a statistically significant difference in  
4 mortality in patients who have received t-PA --

5 A. Versus patients who have not received it?

6 Q. -- versus patients who have not received  
7 it, then how do you explain the difference in your  
8 clinical experience from the difference in the  
9 experience of those researchers who have been  
10 specifically looking at this question?

11 A. Well, in -- in fact, the patients with  
12 pulmonary emboli who are not treated, about 30 percent  
13 of them die.

14 Q. Wait. Patients with PE who are not  
15 treated?

16 A. About 30 percent of them die.

17 Q. Not treated with --

18 A. Anything.

19 Q. With anything, okay.

20 A. About 10 percent of those people who are  
21 treated with just heparin die within the first month  
22 or so, the first week even.

23 Q. Uh-huh.

24 A. Of those people treated with heparin and  
25 thrombolytics together, 5 percent of them die, 5 point

1 something percent.

2 I mean, that's proof to me that the  
3 thrombolytics are of value.

4 Q. Okay. And your -- what are you relying  
5 on for these figures?

6 A. The articles that I presented --  
7 presented to you.

8 Q. Okay. So somewhere in this group of  
9 articles that's been marked as Exhibits 33, 34, or 35  
10 I would find those data?

11 A. Yes, ma'am. Plus others, but those are  
12 the ones I remember specifically.

13 Q. Okay. What others?

14 A. There are other -- there's other data  
15 there that are similar, but those are the ones that I  
16 remember specifically.

17 Q. Okay. And as you sit here today I take  
18 it you can't specifically cite me to any of those  
19 other data?

20 A. No, I can't.

21 Q. Okay. Do you believe -- do you give t-PA  
22 to patients who have contraindications for t-P -- for  
23 receiving t-PA?

24 MS. LORANT: Objection.

25 THE WITNESS: You mean relative

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1 contraindications or -- or solid contraindications?

2 BY MS. CHENEY:

3 Q. Okay. Let's talk about some definitions.

4 What -- what's an absolute contraindication?

5 A. For t-PA?

6 Q. Uh-huh.

7 A. Recent brain or closed space surgery, eye  
8 surgery, active GI bleeding.

9 Q. Any others?

10 A. There are others. I'd have to look up  
11 the list.

12 Q. Okay. So there are others, but you don't  
13 know what they are?

14 A. I'd have to look it up.

15 Q. What are the relative -- wait. Before we  
16 get to that let me just -- let's stay with  
17 definitions.

18 What -- what do we mean when we're  
19 talking about absolute versus relative  
20 contraindications?

21 A. It's a matter of degree. Absolute means  
22 this should not be used ever. Relative means it can  
23 be used but should be used under consideration of the  
24 complications.

25 Q. Okay. And what are you aware of that are

1 some of the -- well, not some. What relative  
2 contraindications to t-PA are you aware of?

3 A. Actually, the postpartum phase was  
4 mentioned at one time as being a relative  
5 contraindication.

6 Q. That was mentioned at one time?

7 A. Uh-huh.

8 Q. Is that no longer the case?

9 A. I believe it's up in the air whether that  
10 really is even a relative contraindication.

11 Q. And when was it that it was mentioned as  
12 possibly a relative contraindication?

13 A. That was in Rosen's book.

14 Q. So Rosen's book mentioned that it was a  
15 con -- a relative contraindication, but since that  
16 time that has been questioned?

17 A. Other -- other -- other publications have  
18 taken that off -- off the list of the relative  
19 contraindication situations.

20 Q. Okay. Now, when -- what -- how does --  
21 how is postpartum defined?

22 A. I guess within the first 20 to 30 days  
23 after delivery.

24 Q. Does it matter whether it's the first  
25 three days as opposed to the first week as opposed to

1 the first three weeks?

2 A. Oh, it matters to the -- the intensity of  
3 the coagulation situation is -- is greater the closer  
4 to the pregnancy delivery.

5 Q. Does it matter whether the patient is  
6 having active bleeding still or not?

7 A. Bleeding from where?

8 Q. Well --

9 A. Uterine bleeding?

10 Q. After patients deliver they have a period  
11 of time when they have active bright red bleeding and  
12 they have to wear pads and --

13 A. Some do, yes.

14 Q. -- and then that lasts for however long  
15 it lasts and then it subsides.

16 A. Right.

17 Q. Does it make a difference to whether this  
18 is a relative contraindication or not as to whether  
19 the patient is still bleeding?

20 A. No. The amount of bleeding that you do  
21 through the uterus can be controlled, and it can be  
22 treated in other fashions.

23 Q. So at --

24 A. Once you get the fibrinolytics in there.  
25 You don't know that the bleeding is going to get any

1 worse or not.

2 Q. Okay. Now -- and -- and that's not my  
3 question. My question is, you've got a patient who's  
4 having active bright red bleeding per vagina following  
5 delivery.

6 A. How active?

7 Q. Are you saying that that's --

8 A. I'm sorry.

9 Q. Are you saying that that's not a relative  
10 contraindication in this day and age?

11 A. In a patient who was critically ill from  
12 a pulmonary embolus and was even hemorrhaging from the  
13 uterus, you can take the uterus out and still save the  
14 patient.

15 Q. In a patient --

16 A. Or you can pack the uterus. You know,  
17 there's other treatments, but you have to -- A, B, C,  
18 and B is breathing. You have to continue that --

19 Q. Okay.

20 A. -- before you do anything about  
21 circulation.

22 Q. So you would agree that it might be a  
23 relative contraindication; but in a patient who's  
24 critically ill, you would still elect to go ahead and  
25 treat?

1 A. Right.

2 Q. And --

3 A. You're talking about a uterine hemorrhage  
4 now, right?

5 Q. No, I'm just talking about active bright  
6 red bleeding --

7 A. No.

8 Q. -- per vagina.

9 A. That's --

10 Q. So that's not even a relative  
11 contraindication in your opinion?

12 A. No, not to me.

13 Q. Okay. Are you critical of authors who  
14 have written on this subject who say that it is a  
15 contraindication?

16 A. I'd like to see what they wrote.

17 Q. Okay. Do you agree that this could be an  
18 area in which reasonable physicians in this area  
19 disagree?

20 A. If -- if they're saying something  
21 differently than I, I'd just like to see what they're  
22 saying.

23 Q. Do you believe that in a patient of yours  
24 who is having uterine bleeding in whom you give t-PA,  
25 if that patient starts hemorrhaging and somebody is

1 called in to have to do emergency surgery on a patient  
2 who has just received t-PA and things don't go well,  
3 you believe that you would be in pretty good standing  
4 if somebody came by to review your care in giving t-PA  
5 to that patient; is that right?

6 MS. LORANT: Objection.

7 THE WITNESS: Yes. If the patient was  
8 critically ill from a pulmonary embolus, you have to  
9 treat that. If you get complications from your  
10 treatment, then you treat those complications.

11 BY MS. CHENEY:

12 Q. So as far as you're concerned, if a  
13 patient is critically ill there's no weighing of risks  
14 and benefits; there's just treat the patient  
15 regardless of risk?

16 A. No, that's not what I said.

17 Q. Okay. What did you say?

18 A. You have to weigh -- you have to do  
19 exactly that. You have to weigh the risks and the  
20 benefits. If the -- if the risks of not treating the  
21 patient are death and the risks of treating the  
22 patient is uterine bleeding, there's really no  
23 discussion there. You prevent the death.

24 Q. Well, in this case prospectively the risk  
25 of treating the patient was 90 percent at least, if

1 not greater, that the patient was not going to die;  
2 isn't that correct?

3 MS. LORANT: Objection.

4 THE WITNESS: That's incorrect, because  
5 in this particular case it was very sick, didn't fall  
6 into the nine out of 10 category, and, in fact, was  
7 getting worse despite heparin.

8 BY MS. CHENEY:

9 Q. Okay. And -- but you said -- that's  
10 right. You said you didn't have those figures for  
11 patients who present as [Patient] did in terms of  
12 how many of those survive with heparin alone, correct?

13 A. Correct.

14 Q. So in this case if multiple physicians  
15 were conferring, were weighing the risks and benefits,  
16 and discussing and agreeing upon a treatment plan for  
17 this patient and using their best clinical judgment,  
18 you're saying that -- that they just -- that they just  
19 got it wrong?

20 MS. LORANT: Objection.

21 THE WITNESS: No, I'm not saying that.  
22 I'm saying that there was a -- too long a delay from  
23 the patient's arrival to the initiation of the only  
24 definitive treatment that was going to help her, and  
25 that was thrombolytics. If they had a plan and if

1 that plan was put into effect and she had gotten the  
2 treatment early enough to save her life, obviously, I  
3 wouldn't have a complaint. But there wasn't any plan  
4 that really became effectual.

5 BY MS. CHENEY:

6 Q. Okay. What if -- what if the  
7 treatment --

8 A. And all it did was delay the treatment.

9 Q. Okay. What if the treatment hadn't saved  
10 her life?

11 A. We wouldn't be here.

12 Q. I take it we wouldn't be here.

13 Well, you wouldn't be here. Somebody may  
14 be, but you wouldn't be here, right?

15 A. I mean, we wouldn't be discussing the  
16 case is what I'm saying.

17 Q. What if the treatment had caused a  
18 complication that had caused her death, might -- might  
19 we be here?

20 A. No.

21 MS. LORANT: Objection.

22 BY MS. CHENEY:

23 Q. Okay.

24 A. If the complication was attempted to be  
25 taken care of properly, we wouldn't be here.

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1 MS. LORANT: Are you watching the time?

2 MS. CHENEY: Yeah, I know.

3 BY MS. CHENEY:

4 Q. So we were talking about [Doctor #4],  
5 and I asked you what was the latest time that systemic  
6 t-PA could have been -- or even catheter directed, I  
7 take it, that t-PA could have been gotten into this  
8 patient and still be within the standard of care, and  
9 we got up to 6:00. And it's possible that it could  
10 have been later, but you're comfortable with at least  
11 6:00, right?

12 A. Right.

13 Q. And you think that if she had gotten it  
14 by 6:00 that that would have made a difference between  
15 life and death for this patient?

16 A. Yes, ma'am.

17 Q. And you base that upon these statistics  
18 that you gave me that you say are -- are in this  
19 medical literature that you provided, as well as other  
20 data, correct?

21 A. That's correct.

22 Q. Now --

23 A. In addition to my own experience with --  
24 with the use of the drug in this similar situation.

25 Q. Okay. And your own experience in -- do

1 you give t-PA in every patient who presents as [Patient]  
2 presented?

3 A. Yes.

4 Q. Okay. Let me ask you about your opinions  
5 regarding [Doctor #3]. She was the next person on your  
6 list, I think.

7 No, [Doctor #1], the emergency department  
8 attending.

9 A. Okay. Well, did we finish talking about  
10 Yaskouskas?

11 Q. About [Doctor #4]?

12 A. Yeah, [Doctor #4].

13 Q. Well, I thought you said that if he  
14 didn't come until 6:00 that you didn't have any  
15 criticisms of him?

16 A. Well, except that his residents were  
17 responsible to him, I would presume, in their care and  
18 treatment, if they got into it.

19 Q. Okay. Now, when did you think of that  
20 one?

21 A. Well, I mean, that's a continuation of  
22 his -- of his -- his job is to do the right thing for  
23 himself and his job is to make sure that his  
24 residents, if they're involved, do the right thing.

25 Q. Okay. Because, I mean, we had pretty

1 well covered this, and you said you would have no  
2 criticisms if he didn't get there until 6:00.

3 A. No criticisms of him.

4 Q. And then we took a break and you guys  
5 disappeared, and now you come back and you have  
6 another criticism.

7 MS. LORANT: Objection.

8 THE WITNESS: These are --

9 BY MS. CHENEY:

10 Q. Okay.

11 A. These are criticisms of the team, really.

12 Q. Okay. So --

13 A. He has his own --

14 Q. -- your additional criticism now after  
15 the break is that --

16 A. Of the team.

17 Q. -- [Doctor #4]' residents were  
18 responsible to him. So if they didn't do something  
19 right, then he would be liable for that?

20 A. Well, it's -- it's a sticky situation.

21 Are they going to be responsible to him after talking  
22 to the attending ER person if he's not there or what?

23 Q. Okay. Now, what --

24 A. If they -- if they are really responsible  
25 for setting up the VIR and getting everything to run

1 smoothly, then they really should report to the  
2 attending in the ER to let him -- let her know that  
3 this was happening and will happen at such-and-such a  
4 time.

5 Q. Okay. Do -- do you have any knowledge or  
6 information one way or the other about things that his  
7 residents did?

8 A. I don't know what they did.

9 Q. Okay. Now, [Doctor #6] was the  
10 medical --

11 A. Wait a minute, wait a minute, excuse me.  
12 One of the residents I guess consulted or discussed  
13 with [Doctor #3] about the orders that were written at  
14 1610.

15 Q. Uh-huh.

16 A. So that was some precip -- participation  
17 there. But I don't know what exactly that resident  
18 did. I don't see any writings that he actually saw  
19 the patient. Or -- or maybe it was just a curbside  
20 consult of some type.

21 Or if there -- there was any discussion  
22 at that time who was going to make the -- the calls to  
23 set up the -- you know, the CAT scan and the VIR.

24 Q. Okay. You say "at that time." Are you  
25 talking about at the time that this resident consulted

1 with [Doctor #3] --

2 A. Yeah. [Doctor #3] wrote the --

3 Q. -- about the orders?

4 A. [Doctor #3] wrote the orders about 1410.

5 Q. Okay. So this would --

6 A. No, 1610.

7 Q. Yeah. So this would have been the -- the  
8 person they're referring to as the medical admitting  
9 officer, [Doctor #6]?

10 A. Right.

11 Q. Is it your opinion or do you have any  
12 knowledge or information that [Doctor #6] was  
13 reporting to [Doctor #4] and that [Doctor #4] was  
14 supervising [Doctor #6]?

15 A. I don't know where -- I don't know where  
16 this guy flies.

17 Q. Okay.

18 A. I don't know.

19 Q. Okay. So I'm just trying to --

20 A. If he was -- you know, if he was under  
21 [Doctor #4], then whatever effect he had would  
22 eventually be backed up to [Doctor #4] as his director.

23 Q. And if he was not under [Doctor #4]?

24 A. Then there's no.

25 Q. Okay. And any -- you said his residents.

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1 Are you also referring to Dr. Carrizosa?

2 A. Yeah. And I don't know who that is. You  
3 mentioned him earlier.

4 Q. Uh-huh.

5 A. I don't know what part that individual  
6 played either.

7 Q. Okay. So other than --

8 A. But if those two folks were given the job  
9 of getting the CAT scan and the VIR set, organized,  
10 and ready, I don't see where that was done. So if  
11 they were responsible for it, they should have  
12 mentioned to somebody they couldn't get it done.

13 Q. And by saying they couldn't get it done,  
14 you're saying that they couldn't get somebody there  
15 before 7 p.m.; is that it?

16 A. Right.

17 Q. Okay. So if they -- if they contacted  
18 somebody from VIR and if the VIR team was on their way  
19 in but had not gotten there by 7 p.m., that's what you  
20 mean by --

21 A. Six p.m. we were talking about.

22 Q. Okay.

23 A. Six p.m.

24 Q. Well, I'm -- I mean, I'm -- I'm going  
25 even later than that. The VIR team by 7 p.m. we know

1 was not there.

2 A. Okay.

3 Q. So you're saying that -- that these  
4 residents and, therefore, [Doctor #4] would be  
5 liable for not getting the VIR team there sooner?

6 A. If that was their responsibility.

7 Q. What if it --

8 A. No, they were -- they were liable --  
9 if -- if their job was to get that organization set  
10 and if it could not be set for whatever reason, the  
11 table wasn't working or whatever --

12 Q. Uh-huh.

13 A. -- I don't find them at fault for that.  
14 Just let them -- their responsibility is to let the ER  
15 doc know that so that the ER doc can then make  
16 other -- have other choices as to how to treat the  
17 patient.

18 Q. What is a length of time that you  
19 consider to be okay or within the standard of care for  
20 the VIR team's response once they're called?

21 A. I don't know what their -- what they  
22 are -- are required to by the hospital or by their  
23 standard of care, but this lady had to be taken care  
24 of by 6:00. So if they couldn't get there until 8 and  
25 that's within the hospital policy, that's too late for

1 this lady.

2 Q. Okay.

3 A. And I -- you know, it's getting --

4 Q. Yeah, it is, and I just wanted to make  
5 sure that we covered all of the additional opinions  
6 that you are now giving me about [Doctor #4].

7 And I know you got to go, so is there  
8 anything else other than his two residents based on  
9 facts that you don't know right now may cause  
10 liability for him?

11 A. That's -- that's it.

12 Q. And you can't say right now to a  
13 reasonable degree of medical certainty whether  
14 anything about the residents constituted a deviation  
15 from the standard of care on the part of [Doctor #4]  
16 based on your current knowledge, right?

17 A. That's correct.

18 MS. CHENEY: Okay. So the doctor has to  
19 go now, and we are going to agree to adjourn the  
20 deposition. And I've agreed with Ms. Lorant that I'm  
21 perfectly willing to do it by telephone so that we  
22 don't have to drive up here again and we --

23 MS. LORANT: Will another 10 minutes help  
24 you, because that's about how much you've got?

25 MS. CHENEY: Well, it's not going to --

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1 I'm not going to finish in 10 minutes. I mean, we --  
2 my next person that I was going to go on to was Dr.  
3 [Doctor #3]. So it's up to you. We can talk about [Doctor #3]  
4 or you can split and try to get something to eat on  
5 your way to --

6 THE WITNESS: Yeah, exactly. I'd rather  
7 go to work.

8 MS. CHENEY: I can't imagine why.

9 MS. LORANT: Let me ask -- go ahead and  
10 go off.

11 THE VIDEOGRAPHER: You want to go ahead  
12 and go off?

13 MS. LORANT: Go ahead, go off.

14 THE VIDEOGRAPHER: We are adjourning the  
15 depo for the end of today, and we are going off record  
16 at 2:27 p.m. A total of four tapes was used today.

17 (There was a discussion off the record.)

18 MS. CHENEY: He has now decided he wants  
19 to read and sign his deposition.

20 (The deposition was adjourned at 2:30  
21 p.m.)

22

23

24

25



1 CITY OF \_\_\_\_\_,

2 STATE OF \_\_\_\_\_.

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4

5

6 I hereby certify that PHILIP G. LEAVY,

7 JR., M.D. appeared before me this \_\_\_\_\_ day of

8 \_\_\_\_\_, 2005 and affixed his signature

9 to the foregoing deposition.

10

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\_\_\_\_\_

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Notary Public

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16 My commission expires:

17 \_\_\_\_\_

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1 COMMONWEALTH OF VIRGINIA AT LARGE, to wit:

2 I, Kristi R. Weaver, RPR, a Notary Public  
3 for the Commonwealth of Virginia at Large, of  
4 qualification in the Circuit Court of the City of  
5 Chesapeake whose commission expires September 30,  
6 2006, do hereby certify that the within deponent,  
7 PHILIP G. LEAVY, JR., M.D., appeared before me at  
8 Norfolk, Virginia, as hereinbefore set forth; and  
9 after being first duly sworn by me, was thereupon  
10 examined upon his oath by counsel; that his  
11 examination was recorded in stenotype by me and  
12 reduced to typescript under my direction; and that the  
13 foregoing transcript constitutes a true, accurate, and  
14 complete transcript.

15 I further certify that I am not related to  
16 nor otherwise associated with any party or counsel to  
17 this proceeding, nor otherwise interested in the event  
18 thereof.

19 Given under my hand and notarial seal at  
20 Norfolk, Virginia this \_\_\_\_\_ day of \_\_\_\_\_,  
21 2005.

22

23

24 \_\_\_\_\_  
25 Kristi R. Weaver, CCR No. 0313158

Notary Public

TAYLOE ASSOCIATES, INC.