

IN THE CIRCUIT COURT OF HARRISON COUNTY  
WEST VIRGINIA

The Estate of Dennis Cowan, )  
et al., )

Plaintiffs, )

vs. )

Ahmed Husari, M.D., et al., )

Defendants. )

Civil Action No.  
98C-554-2

Judge Thomas A. Bedell

THE DEPOSITION OF NATHAN LEVITAN, M.D.

MONDAY, SEPTEMBER 25, 2000

The deposition of NATHAN LEVITAN, M.D., a witness,  
called for examination by the Plaintiffs, under the West  
Virginia Rules of Civil Procedure, taken before me,  
Michelle R. Hordinski, Registered Merit Reporter and  
Notary Public in and for the State of Ohio, pursuant to  
agreement, at the Hilton Hotel, 3663 Park East Drive,  
Beachwood, Ohio, commencing at 5:30 p.m., the day and  
date above set forth.

<p>2</p> <p>1 APPEARANCES:</p> <p>2</p> <p>3 On behalf of the <b>Plaintiffs:</b></p> <p>4 MICHAEL M. DJORDJEVIC, ESQ. The Nantucket Building at Maiden Lane 5 17 South Main Street Akron, Ohio 44308</p> <p>6</p> <p>7 AND</p> <p>8</p> <p>9 GEORGE E. LOUCAS, ESQ. CATHRYN N. LOUCAS, ESQ. 1370 Ontario Street 10 Suite 1700 Cleveland, Ohio 44113</p> <p>11</p> <p>12 On behalf of the Defendants:</p> <p>13</p> <p>14 STEPHEN R. BROOKS, ESQ. Flaherty, Sensabaugh &amp; Bonasso 7000 Hampton Center 15 Suite I Morgantown, West Virginia 26505</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>4</p> <p>1 A. Yes.</p> <p>2 Q. Secondly, I'm going to ask that you answer my 3 questions only if you understood them and can give 4 me the correct response.</p> <p>5 We work under a premise at these proceedings 6 that, if I pose a question, and you answer it, that 7 you understood the question you gave me, and you 8 gave me the correct answer.</p> <p>9 So if for whatever reason you're confused by a 10 question, or you don't know what the question's 11 significance is, please stop me so that we can get 12 that hashed out before we go further.</p> <p>13 Fair enough?</p> <p>14 A. Yes.</p> <p>15 Q. All right, Doctor, why don't we start by having you 16 state your full name and spell your last name for 17 the record?</p> <p>18 MR. BROOKS: Mike, if I 19 may, as I indicated before we got on the 20 record, I would, with your permission, like 21 to articulate the opinions that Dr. Levitan 22 will be asked to render at trial.</p> <p>23 MR. DJORDJEVIC: Fine.</p> <p>24 MR. BROOKS: Our 25 disclosures aren't always as precise as they</p>
<p>3</p> <p>1 NATHAN LEVITAN, M.D.</p> <p>2 a witness, called for examination by the Plaintiffs, 3 under the Rules, having been first duly sworn, as 4 hereinafter certified, deposed and said as follows:</p> <p>5 CROSS-EXAMINATION</p> <p>6 BY MR. DJORDJEVIC</p> <p>7 Q. Doctor, as I told you. my name is Mike 8 Djordjevic. I'm one of the attorneys in this case 9 that represents the estate of Dennis Cowan, 10 deceased.</p> <p>11 What I'm going to be doing here this evening, 12 hopefully over not too protracted a period of time, 13 is to ask you some questions under oath as if on 14 cross-examination.</p> <p>15 You've been identified on behalf of the 16 Defendant as an expert, and that entitles me to 17 examine you relative to the issues of this case. 18 I'm going to ask that you follow two simple rules 19 during the course of the deposition.</p> <p>20 First, I need you to make all of your answers 21 to my questions verbal and out loud. Michelle, as 22 good a court reporter as she is, can't take down an 23 uh-huh or an uh-uh or a yeah or a nah, a shake or 24 nod of the head, so you're going to have to speak 25 up, okay?</p>	<p>5</p> <p>1 need to be. The hopes is two-fold. One is 2 to make sure we have a record of what 3 everybody is going to ask. And two is to 4 help you focus your questioning a little bit 5 more.</p> <p>6 First, Dr. Levitan will opine that, 7 because of Mr. Cowan's other pulmonary and 8 cardiac concerns, Dr. Husari recognized that 9 there are many benign etiologies that can be 10 recognized and can be visualized on 11 x-rays.</p> <p>12 Second, Dr. Levitan will opine that it 13 is within the standard of care for Dr. 14 Husari to have followed this patient with 15 serial x-rays rather than CT scan from 16 September of 1994 -- or actually from early 17 1995 when Mr. Cowan first became a patient 18 of Dr. Husari's.</p> <p>19 And third, in the overall management of 20 this patient, considering everything, Dr. 21 Levitan has absolutely no problem supporting 22 that Dr. Husari did not deviate from the 23 appropriate standard of care in treating and 24 following Mr. Cowan.</p> <p>25 MR. DJORDJEVIC: Anything</p>

6

1 else?

2 MR. BROOKS: That's it.

3 MR. DJORDJEVIC: No proximate

4 cause opinions?

5 MR. BROOKS: No proximate

6 cause opinions.

7 MR. DJORDJEVIC: All right,

8 very good.

9 BY MR. DJORDJEVIC:

10 Q. All right, Dr. Levitan, let's begin very briefly

11 with your training, education, and background.

12 I understand that you went to Brandeis

13 University from 1972 to 1975, is that correct?

14 A. Correct.

15 Q. And apparently you graduated from Brandeis with a

16 B.A. in 1976?

17 A. Correct.

18 Q. And which area of study did you study at Brandeis?

19 A. Neareastern studies.

20 Q. That would be a liberal arts degree, basically?

21 A. Correct.

22 Q. And from Brandeis, then, you went to the Jewish

23 Theological Seminary of America in New York, New

24 York, from '75 to '76, is that correct?

25 A. Correct.

7

1 Q. I take it that was not a degeed course of study at

2 that point?

3 A. Actually, it is an academic institution, and some

4 of those credits were applied to my B.A.

5 Q. Was it your goal at that point in time to go into

6 Rabinical studies. or what was your goal?

7 A. I had already been scepted io medical school, and

8 that was simply an interim here.

9 Q. Is there a reason why you were accepted to -- was

10 there a year's waiting period for medical school,

11 or explain to me what happened?

12 A. No. That was simply my senior year in college.

13 Q. I see.

14 So your senior year at Brandeis, you took

15 training at the Jewish Theological Seminary of

16 America?

17 A. Correct.

18 Q. And then the course work that you did at the Jewish

19 Theological Seminary transferred and was used as

20 credit for Brandeis in awarding your baccalaureate

21 degree?

22 A. Correct.

23 Q. Okay.

24 You started, then, at Tufts University School

25 of Medicine in Boston in 1976, if I'm reading this

8

1 correctly?

2 A. Correct.

3 Q. And graduated with an M.D. degree in 1980?

4 A. Correct.

5 Q. Would you tell me, Doctor, about your postgraduate

6 education starting with your PGY 1 and go forward

7 in time from there?

8 A. I spent three years as an internal medicine intern

9 and resident at the Boston Veterans Administration

10 Medical Center.

11 Q. All right, so PGY 1, 2, and 3 would be internal

12 medicine internship, junior residency, and senior

13 residency?

14 A. Correct.

15 Q. All right.

16 What did you do next?

17 A. Then I began a hematology oncology fellowship at

18 the same institution.

19 And then when my mentor, who ran the

20 fellowship, was recruited to M.D. Anderson in

21 Houston, I switched to a different program at U.

22 Mass. Medical Center for my second and third year

23 of hematology oncology fellowship.

24 And during the course of that time I also

25 became board eligible in blood banking.

9

1 Q. Who was your mentor that went down to the

2 Anderson?

3 A. A fellow named Ki Hong.

4 Q. Could you spell that for me?

5 A. H-O-N-G, first name is K-I.

6 Q. And Dr. Hong is what?

7 A. He's the director of head. neck, and thoracic

8 oncology at M.D. Anderson.

9 Q. Do you have any idea why Dr. Hong went to M.D.

10 Anderson from -- where was it, Massachusetts

11 Medical Center?

12 A. He was offered this very prestigious position, and

13 therefore took advantage of it.

14 Q. We can agree that the M.D. Anderson is one of the

15 most prestigious cancer hospitals in the United

16 States, I would assume?

17 A. Correct.

18 Q. And we can agree, you and I, that arguably it's the

19 top medical cancer center in the United States?

20 A. It's among the best in the United States.

21 Q. You know Dr. Clifton Mountain, or you know of him

22 by reputation?

23 A. Yes, I know of him by reputation.

24 Q. Do you know what his position was at Anderson?

25 A. No.

10

1 Q. Do you know if Dr. Mountain was at the Anderson  
2 when Dr. Hong transferred or moved to the  
3 Anderson?  
4 A. I donot.  
5 Q. Again, I'm not sure I understood.  
6 What happened to you in your education when Dr.  
7 Hong left to go to the Anderson?  
8 A. Well, he offered me the opportunity to move to  
9 Houston with him, but for family reasons I  
10 declined. And with his departure, I thought that  
11 the quality of the fellowship program could be in  
12 jeopardy, and therefore sought a different program  
13 to finish my training.  
14 Q. And where did you ultimately wind up?  
15 A. At University of Massachusetts Medical Center.  
16 Q. Which year would have found you first at University  
17 of Massachusetts Medical Center?  
18 A. I'm sorry?  
19 Q. Which would be your first year, calendar year, at  
20 Massachusetts?  
21 A. 1984-'85.  
22 Q. Okay.  
23 And that's when you were, according to your CV,  
24 in a clinical and research fellowship in blood  
25 banking and immunohematology, is that correct?

11

1 is that what you did?  
2 A. Correct,  
3 Q. Then in 1985-'86, you were in a clinical  
4 fellowship in hematology oncology at the  
5 University of Massachusetts Medical Center, is that  
6 correct?  
7 A. Correct.  
8 Q. And then did you have any additional postgraduate  
9 medical training following 1985 to 1986?  
10 A. No.  
11 Q. What did you do then professionally, Doctor?  
12 A. I assumed a staff position as a hematologist  
13 oncologist at the Lahey Clinic Medical Center in  
14 Massachusetts.  
15 Q. How long were you at the Lahey Clinic?  
16 A. Five years.  
17 Q. Which would bring you up to what, 1989, 1990 or so,  
18 1991?  
19 A. Correct.  
20 Q. What did you do then?  
21 A. I was recruited by the director of the Ireland  
22 Cancer Center to come here and develop a lung  
23 cancer research program.  
24 Q. And you've been here ever since?  
25 A. Correct.

12

1 Q. All right.  
2 You are not, if I am reading your CV correctly,  
3 a surgical oncologist, are you?  
4 A. Correct.  
5 Q. You're not a cardiothoracic or thoracic surgeon?  
6 A. Correct.  
7 Q. You and I can agree, I presume, that you've never  
8 resected a lung?  
9 A. Correct.  
10 Q. All right.  
11 And you and I can agree that you've never  
12 performed any type of intrathoracic surgery for a  
13 non-small cell lung carcinoma?  
14 A. Correct.  
15 Q. You've provided us with a copy of the AJCC Cancer  
16 Staging Handbook. That goes through the various  
17 stage groupings, and you have written or someone  
18 has written in the margin certain numbers in  
19 parenthesis?  
20 A. Correct.  
21 Q. Are those your numbers?  
22 A. Those are numbers that I have written down as being  
23 representative of the approximate five-year  
24 survival for patients with stage 1 through 4  
25 non-small cell lung cancer.

13

1 Q. That's what I presumed them to be.  
2 So you and I can agree -- I don't -- it appears  
3 to me, Doctor, as if your survival statistics start  
4 with stage 1B?  
5 A. No, that's not correct.  
6 Q. All right.  
7 Although they're not written in rows straight  
8 across, the first set of numbers, 60 to 70, would  
9 be stage 1?  
10 A. 1A.  
11 Q. Allright.  
12 So it's your belief that the survival for five  
13 years of a non-small cell lung carcinoma is 60 to  
14 70 percent?  
15 A. Yes.  
16 And all of those numbers are give or take five  
17 or ten percent in either direction. There is some  
18 variation in the literature. But those are a  
19 representative ball park figure.  
20 Q. It's your belief that stage 1B is 40 to 50  
21 percent?  
22 A. Correct.  
23 Q. Your belief that stage 2A is 30 to 40 percent?  
24 A. Correct.  
25 Q. Stage 2B is 20 to 30 percent?

14

1 A. Correct.

2 Q. I wonder, Doctor, if you could tell me where you

3 got those numbers?

4 A. Those numbers represent my fund of knowledge

5 concerning lung cancer.

6 Q. Well, I want to talk specifically about non-small

7 cell lung cancer.

8 You and I can agree that there's a world of

9 difference between survival figures for non-small

10 cell lung cancer and small cell lung cancer, can't

11 we?

12 A. And those figures pertain to non-small cell lung

13 cancer.

14 Q. That's what I'm asking you.

15 Could you tell me where you got these? I'm

16 familiar with most of the major studies, and I

17 can't recall these numbers being cited by any of

18 them.

19 I wonder if you could give me a citation?

20 A. I do not carry those citations in my memory, but I

21 read hundreds of articles every month, and those

22 are representative figures.

23 Q. We can agree, then, you and I, that, if in this

24 case -- well, let's see if we can develop some

25 points of agreement.

15

1 We can agree that Mr. Cowan's cancer was a

2 non-small cell lung cancer?

3 A. Correct.

3 Q. We can agree, therefore, as a non-small cell lung

5 cancer, had he been diagnosed and resected as a

6 stage 1A, the likelihood is more likely than not

7 that he would still be alive after five years'?

8 A. Correct.

9 Q. And we can agree that none of your profession

10 consider a five-year survival rate to be the same

11 as cure in cancer statistics?

12 A. A five-year disease-free survival rate would be

13 tantamount to cure under most circumstances.

14 Q. We can agree that, if Mr. Cowan would have been

15 diagnosed at a stage where -- at a point in time

16 where he was stage 1A, more likely than not he

17 would have been cured by surgical resection, can we

18 not?

19 A. Correct.

20 Q. Sir, do you have an opinion as to when Mr. Cowan,

21 in this case, went from stage 1A to a stage 1B?

22 MR. BROOKS: Excuse me, I'm

23 going to object only because that's not

24 among the opinions that he will be asked at

25 trial. But I certainly don't want to imply

16

1 that you're certainly not welcome to inquire

2 on those lines.

3 MR. DJORDJEVIC: Right.

4 MR. BROOKS: Once you

5 inquire along those lines, it's certainly an

6 opinion that you have discovered.

7 MR. DJORDJEVIC: No question

8 about it. If I ask a question, I hear the

9 answer, I've discovered it.

10 MR. BROOKS: That's right.

11 A. You know, in preparing for this deposition, knowing

12 that I was not going to be asked about proximate

13 cause, I did not focus on trying to back date in

14 detail what stage this tumor was likely to be at

15 particular points in time.

16 It was my understanding that the focus of the

17 questioning would be on standard of care.

18 Q. Let's see if we can establish some other general

19 points.

20 The statistics that you and I have just

21 discussed relative to survivability for stage 1A is

22 dependent on the TNM staging of the cancer, am I

23 correct?

24 A. Every stage has a particular array of TNM

25 categories that either do or do not fit into that

17

1 stage.

2 Q. What I'm trying to -- what I'm trying to establish

3 with you, and I think we can agree, that those TNM

4 categories are exclusive of grade of cancer, that

5 grade of cancer is subsumed within the TNM

6 categories?

7 Can we agree?

8 A. I'm not quite sure what you mean by the grade is

9 subsumed within the categories.

10 But it is correct that these staging categories

11 do not differ based on whether a tumor is well,

12 moderately, or poorly differentiated.

13 Q. Right.

14 Let me ask the question in this way. If a

15 patient with a non-small cell lung cancer -- as

16 we've agreed Mr. Cowan had in this case,

17 correct?

18 A. Correct.

19 Q. All right.

20 If a patient with a non-small cell lung cancer

21 is treated surgically at such time when the cancer

22 is stage 1A, the probable outcome is that patient

23 will be cured of his cancer, regardless of the

24 grade of cancer at time of surgery.

25 Can we agree?

1 A. Well, it's important for me to clarify, since I  
2 know in legal parlance, when you talk about  
3 probably, or more likely than not, you're referring  
4 to the 50 percent threshold.  
5 Q. That's correct.  
6 A. It's certainly worth stressing that, even for  
7 patients with 1A lung cancer, there is a  
8 substantial risk that those patients will develop  
9 metastatic disease and die.  
10 But if you use the 50 percent rule, it is more  
11 likely than not that a patient with 1A non-small  
12 cell lung cancer will be cured, despite the  
13 substantial risk that he or she could die.  
14 Q. And again, despite whatever the grade of the  
15 underlying tumor might be, correct?  
16 If a patient has a poorly differentiated stage  
17 1A cancer, it's still more likely than not, if that  
18 patient is resected at such time as the TNM stage  
19 still dictates a 1A, that that patient, more than  
20 50 percent, will survive and be cured, isn't that  
21 right?  
22 A. Well, I've actually never seen a specific break  
23 down of patients with stage 1A disease where those  
24 well, moderately, and poorly differentiated cancers  
25 are assigned different five-year survivals. I

1 don't know if those data exist.  
2 Q. You and I can therefore clearly agree that the data  
3 that you've seen supports the premise, and it's  
4 your opinion in this case, that, regardless of what  
5 the grade of the cancer is -- and you have seen no  
6 data that distinguished between grade -- regardless  
7 of what the grade of the cancer is, if the cancer  
8 is diagnosed at a point where it's a stage 1A, more  
9 likely than not surgical resection will be  
10 curative, right?  
11 A. There's a greater than 50 percent chance that that  
12 will be the case, yes.  
13 Q. Okay.  
14 And we agree to that, right?  
15 A. Yes.  
16 Q. Okay.  
17 You have no opinion in this case as we sit here  
18 today when this gentleman's cancer went from a  
19 stage 1A to a stage 1B, is that right?  
20 A. It's not an issue that I have given consideration  
21 to.  
22 As we have discussed, I certainly have opinions  
23 about the natural history of non-small cell lung  
24 cancer and over what period of time it is likely to  
25 grow. Though I don't know if that discussion is

1 germane to the contribution I'll be making in this  
2 case (Indicating).  
3 Q. Well, I guess what I -- let me ask it in a more  
4 general way.  
5 What is your understanding as to the clinical  
6 parameters or radiological parameters that have to  
7 be demonstrated for a cancer to go from stage 1A to  
8 stage 1B?  
9 What has to happen?  
10 A. Well, we can refer to the staging matrix for  
11 simplicity's sake. And when a cancer moves from a  
12 1A to a 1B, it moves from a T1 to a T2. And there  
13 is a whole variety of characteristics that render a  
14 tumor T2, which I'd be glad to read through, if  
15 that would be helpful.  
16 Q. T2 tumor would be a tumor that's greater than three  
17 centimeters in its largest dimension?  
18 A. Or it can involve the main stem bronchus. It can  
19 be involving the visceral pleura. It can be  
20 associated with atelectasis or obstructive  
21 pneumonia extending to the hilar region, but not  
22 the entire lung.  
23 Q. You and I, I presume, can agree that, in this  
24 particular case, we see no evidence that Mr.  
25 Cowan's non-small cell lung cancer was ever a stage

1 1B, isn't that right?  
2 A. I'm not sure I understand your question.  
3 Q. All right.  
4 Do you see anywhere in the records that you've  
5 reviewed that any of the tumor criteria in the TNM  
6 nomenclature were met in order for this cancer to  
7 be a 1B cancer as opposed to a 1A cancer?  
8 Let's go through them one at a time. Was his  
9 cancer ever greater than three centimeters?  
10 A. Well, we know at the time of chest CT on April 9th  
11 of 1998 his tumor measured 2.5 centimeters. And to  
12 my knowledge, that is the largest primary tumor  
13 size that has ever been visualized.  
14 Q. So in as late as 1998, under the measurement  
15 criteria, this is still a T1 lesion, correct?  
16 A. Correct.  
17 Q. Let's go through the other criteria on the work  
18 sheet, on the matrix.  
19 A. I understand your question now, and I would agree  
20 with you that at no point, to my knowledge, was  
21 there radiographic evidence that this tumor was a  
22 T2 or greater.  
23 Q. Allright.  
24 So you and I can agree that, at any time up  
25 until 1998, had this cancer been resected

<p style="text-align: right;">22</p> <p>1 surgically, the probability is that it would have  2 been cured, can't we, more likely than not, greater  3 than 50 percent?  4 A. I'm afraid I can't agree with that statement.  5 Q. All right.  6 Why don't you tell me why not?  7 A. Because of the issue of lymph node involvement.  8 Q. Okay.  9 A. We know that, in April of 1998, this cancer was  10 locally advanced, that is to say there was  11 extensive mediastinal adenopathy rendering this  12 cancer surgically unresectable.  13 When a tumor is associated with extensive  14 mediastinal adenopathy, it is surgically  15 unresectable not because it's impossible to get  16 those nodes out, but because of the certainty that  17 there's microscopic metastatic disease and that the  18 surgical procedure won't help that patient.  19 Q. No question once there was mediastinal metastasis  20 this patient was no longer curable through surgery.  21 My question, sir, is, would the patient be curable  22 when there was positive hilar adenopathy as opposed  23 to mediastinal adenopathy?  24 A. Well, a patient with hilar adenopathy is by  25 definition a patient with stage 2 non-small cell</p>	<p style="text-align: right;">24</p> <p>1 A. Well, there's a value judgment in your statement  2 that I wouldn't agree with.  3 I would agree factually that no CAT scan of the  4 chest was performed prior to April 9th of 1998. I  5 wouldn't agree with the implicit criticism  6 regarding the standard of care compliance of the  7 physicians that is inherent in your statement.  8 Q. I'm not sure that I offered any criticism. I'm  9 asking you simply, we don't know when there was  10 hilar involvement, because the test that would be  11 specific enough to demonstrate hilar involvement,  12 CT scanning of the chest, was never ordered, isn't  13 that true from a factual point of view?  14 A. It is true that a CAT scan was not ordered prior to  15 April 9th, 1998.  16 Q. So we know, Doctor, you and I, that sometime by  17 April of 1998 there was involvement of the  18 mediastinal nodes, is that right?  19 A. Your statement is that, sometime prior to April  20 9th, 1998, the nodes became involved with the  21 mediastinum? I would agree with that, yes.  22 Q. Right.  23 We don't know exactly when that happened,  24 correct?  25 A. Correct.</p>
<p style="text-align: right;">23</p> <p>1 lung cancer.  2 And a small percentage of these patients is  3 curable. Using your 50 percent threshold, it is  4 more likely than not, once a patient has hilar  5 lymph node involvement, that he or she would not be  6 surgically cured.  7 Q. Do you see hilar involvement on any of the x-rays  8 at any time or any of the imaging studies in this  9 case?  10 A. Well, the first CAT scan that we have, as I said,  11 is in April of 1998. And plain chest x-rays are  12 not a sensitive instrument for detecting hilar  13 adenopathy.  14 Q. So my question is, do you see hilar adenopathy at  15 any time, or don't you?  16 A. Well, you don't, although one cannot conclude  17 anything about its absence because the necessary  18 study to detect it wasn't performed.  19 Q. And the necessary study to detect it would be CT  20 scanning?  21 A. Correct.  22 Q. The truth of the matter is, we don't know in this  23 case when this cancer went from a stage 1A to a  24 stage 1B, because never was the proper test, a CT  25 scan, ordered, isn't that the truth?</p>	<p style="text-align: right;">25</p> <p>1 Q. And you have no opinion when that happened.,  2 correct?  3 A. Well, again, I want to be careful how I answer  4 that.  5 It is my belief that lung cancer grows very  6 slowly over a period of many years, and that the  7 process of spread to other nodes likely occurred  8 well prior to 1998.  9 This cancer was old at the time of diagnosis.  10 And spread to sites outside of the lung itself  11 likely occurred years before the April, 1998 time  12 of diagnosis.  13 Q. Sure.  14 So this was an old cancer, regardless of the  15 grade of cancer, isn't that the truth?  16 A. Correct.  17 Q. Okay.  18 And we know that this cancer, in your opinion,  19 was present to some extent for years, is the term  20 that you used?  21 A. Correct.  22 Q. Five years?  23 A. That is possible.  24 Q. Is that likely?  25 Is the probability that the primary lung cancer</p>

<p style="text-align: right;">26</p> <p>1 was present for five years?</p> <p>2 A. I believe so.</p> <p>3 Q. Okay.</p> <p>4 A. I don't believe necessarily that it was</p> <p>5 radiographically detectable.</p> <p>6 Q. I understand.</p> <p>7 A. But I believe it was likely present at least in</p> <p>8 microscopic form.</p> <p>9 Q. We can agree, you and I, that this cancer was</p> <p>10 certainly present. And again, whether or not it</p> <p>11 was radiographically detectable is something you</p> <p>12 and I will spend some more time with. But it was</p> <p>13 certainly radiographically detectable in 1993,</p> <p>14 wasn't it, Doctor?</p> <p>15 A. Again, and please excuse my ignorance about the</p> <p>16 rules of these proceedings. This line of</p> <p>17 questioning clearly pertains to proximate cause,</p> <p>18 and I just want to make sure that it's permissible</p> <p>19 for me to continue to answer these questions.</p> <p>20 I'm comfortable doing it.</p> <p>21 MR. BROOKS: It's</p> <p>22 certainly permissible. The understanding</p> <p>23 is, at the outset of this deposition,</p> <p>24 there was a clearly defined area in which</p> <p>25 I intended to ask your opinions at trial.</p>	<p style="text-align: right;">28</p> <p>1 fashion from hilar to mediastinal nodes.</p> <p>2 Spread to the blood stream occurs through a</p> <p>3 different mechanism and can occur very early on.</p> <p>4 Q. Do you have any opinions as to when, in this</p> <p>5 particular case, the hilar nodes first became</p> <p>6 involved?</p> <p>7 A. It's hard for me to hazard a guess.</p> <p>8 And again, I haven't taken the time to clearly</p> <p>9 think through the dates. I wasn't anticipating</p> <p>10 this line of questioning. So I, at this moment,</p> <p>11 don't feel comfortable trying to answer that</p> <p>12 question without some careful forethought.</p> <p>13 Q. You and I can therefore agree that, as you sit here</p> <p>14 at least today, you have no opinion as to when this</p> <p>15 cancer went from a stage 1 to a stage 2 cancer,</p> <p>16 right?</p> <p>17 A. That is true.</p> <p>18 THE WITNESS: Again, a</p> <p>19 question for Mr. Brooks. If this line of</p> <p>20 questioning opens up at trial, and I</p> <p>21 re-focus my attention on this case and the</p> <p>22 chronology, I could probably come up with a</p> <p>23 rough opinion in that regard.</p> <p>24 But I'm not prepared today to offer</p> <p>25 that.</p>
<p style="text-align: right;">27</p> <p>1 He's permitted to ask you about anything</p> <p>2 he wants to with the understanding that it</p> <p>3 will be evidence at trial because he's</p> <p>4 opened it up if I choose to use it or if he</p> <p>5 chooses to use it.</p> <p>6 So yes, you can answer.</p> <p>7 BY MR. DJORDJEVIC:</p> <p>8 Q. So there's no question this cancer was present?</p> <p>9 Whether or not it was diagnosable</p> <p>10 radiographically, it was present, certainly, in</p> <p>11 1993, wasn't it, Doctor?</p> <p>12 A. I believe, more likely than not, that it was.</p> <p>13 Q. And again, it was present regardless of the</p> <p>14 histopathology or the grade of the cancer. isn't</p> <p>15 that true?</p> <p>16 A. I believe that is likely.</p> <p>17 Q. Sometime along the line, I presume that this cancer</p> <p>18 went from a solitary primary nodule in the lung to</p> <p>19 involve the hilar nodes, is that right?</p> <p>20 Would that be the normal -- you used the term</p> <p>21 the natural history of the disease.</p> <p>22 Is that the natural history of non-small cell</p> <p>23 lung cancer as you understand it?</p> <p>24 A. The spread of non-small cell lung cancer through</p> <p>25 the lymphaticus tends to occur in a sequential</p>	<p style="text-align: right;">29</p> <p>1 BY MR. DJORDJEVIC:</p> <p>2 Q. By the way, this AJCC method of staging, is this</p> <p>3 the method of staging that was initially described</p> <p>4 by Dr. Mountain at the Anderson, Dr. Clifton</p> <p>5 Mountain?</p> <p>6 A. Dr. Mountain has been principally involved in</p> <p>7 recent revisions to this staging system.</p> <p>8 Q. In 1997?</p> <p>9 A. Correct.</p> <p>10 Q. All right.</p> <p>11 Along with Dr. Lipschitz from the Anderson?</p> <p>12 A. I believe so.</p> <p>13 Q. Okay, all right.</p> <p>14 You and I can agree that, at least in 1997, the</p> <p>15 1997 revisions to both the American and the</p> <p>16 International Cancer Staging Handbook, are</p> <p>17 primarily the work of Dr. Clifton Mountain?</p> <p>18 A. I know that he was involved in this. I can't tell</p> <p>19 you who else was. But he is certainly credited</p> <p>20 with major involvement.</p> <p>21 Q. Doctor, in reviewing your CV, I note that you are</p> <p>22 not board certified in pulmonology?</p> <p>23 A. That is correct.</p> <p>24 Q. Are you board eligible in pulmonology?</p> <p>25 A. No.</p>



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1 Q. Are you credited by any hospital to practice  
 2 pulmonology?  
 3 A. No.  
 4 Q. Have you ever been credentialed by any hospital to  
 5 practice pulmonology?  
 6 A. No.  
 7 Q. Have you ever sought to be credentialed by any  
 8 hospital to practice pulmonology?  
 9 A. No, sir.  
 10 Q. But it's your testimony in this case that you're  
 11 familiar with the standards of care that apply to  
 12 pulmonologists?  
 13 A. I am quite familiar with the standards of care  
 14 pertaining to the diagnosis, screening, and  
 15 treatment of lung cancer.  
 16 Q. That's a little different than my question.  
 17 My question to you, sir, is, despite the fact  
 18 that you're not board certified, presumably not  
 19 board eligible, and never have been credentialed at  
 20 any institution to practice pulmonology, are you  
 21 familiar with the standards of care that apply to  
 22 the practice of clinical pulmonology?  
 23 A. Regarding the procedures that should be carried out  
 24 in evaluating abnormal chest x-rays that could  
 25 signify the presence of lung cancer, I am

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1 extensively experienced in that area, work closely  
 2 with pulmonologists, do this kind of work myself as  
 3 an internist and an oncologist.  
 4 I feel quite capable of rendering opinions in  
 5 that regard.  
 6 Q. Doctor, can you and I agree that, when you -- well,  
 7 let me ask you open-endedly.  
 8 Have you, during the course of your practice,  
 9 made the diagnosis of a stage 1 or a stage 2  
 10 non-small cell lung cancer?  
 11 A. Many, many times.  
 12 Q. What do you do when you make that diagnosis?  
 13 Do you refer them to a cardiothoracic surgeon?  
 14 A. At our institution, we take a multi-disciplinary  
 15 approach to the treatment and diagnosis of lung  
 16 cancer. And therefore, we work as a team with  
 17 pulmonologists, radiologists, thoracic surgeon,  
 18 medical oncologist, radiation oncologist. So we  
 19 continue to work together in the care of those  
 20 patients.  
 21 Q. All right.  
 22 So in a hypothetical patient in whom you've  
 23 made the diagnosis of stage 1 non-small cell  
 24 carcinoma, how is that patient treated?  
 25 What is the appropriate therapy for that

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1 patient?  
 2 A. In most cases, that patient would undergo surgical  
 3 resection.  
 4 Q. Same question, hypothetical patient of yours with  
 5 the diagnosis of a stage 2 non-small cell lung  
 6 cancer, how is that patient treated?  
 7 A. We have an experimental protocol in which some of  
 8 these patients are offered preoperative  
 9 chemotherapy. But ultimately those patients  
 10 undergo surgical resection in most cases.  
 11 Q. All right.  
 12 Your use of the word preoperative chemotherapy  
 13 was kind of a tip off to where you were going.  
 14 There's no mystery. Stage 1 and stage 2  
 15 patients get operated on, right?  
 16 A. In most cases, that's correct.  
 17 Q. And that's how you treat your patients where you  
 18 make this diagnosis, is that correct?  
 19 A. Correct.  
 20 Q. Now, you and I can certainly agree, sir, I think,  
 21 that the diagnosis of non-small cell lung cancer is  
 22 not made from x-rays, is it?  
 23 A. If you're asking whether histologic confirmation is  
 24 necessary to make the diagnosis of cancer, the  
 25 answer is, of course.

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1 Q. Ofcourse.  
 2 What would happen, so you and I are  
 3 communicating, is somebody will generally see  
 4 something on an x-ray that will either make them  
 5 suspicious or not suspicious of a lung cancer,  
 6 correct?  
 7 A. Correct.  
 8 Q. Then, depending on the level of the index of  
 9 suspicion, if the level of suspicion is high  
 10 enough, then there has to be a histological  
 11 pathological analysis of that tissue to see  
 12 whether, in fact, it is lung cancer, correct?  
 13 A. Correct.  
 14 Q. Lung cancer is neither ruled in nor ruled out on  
 15 the basis of radiographs alone, is it, Doctor?  
 16 You need to have some kind of a pathological  
 17 study done, don't you?  
 18 A. Well, it certainly isn't ruled in by radiographs  
 19 alone. Though as far as it being ruled out, we  
 20 don't -- we don't go and perform surgical  
 21 procedures willy-nilly on patients with x-ray  
 22 findings that are not sufficiently suggestive to  
 23 justify an invasive procedure.  
 24 Q. I'm not suggesting that you do.  
 25 There is a threshold that you and I, I suspect,

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1 will have a disagreement on what that threshold is.  
 2 But in concept, the way it works is there's a  
 3 threshold of suspicion at which point it's the  
 4 obligation of the treating physician to do a  
 5 definitive pathological study to see firstly  
 6 whether the questionable finding on the radiographs  
 7 is cancerous, and secondly, what the  
 8 histopathology of the cancer is, should it prove to  
 9 be cancerous.  
 10 Is that how it works?  
 11 A. That's fair.  
 12 Q. Okay.  
 13 And the question that we're discussing in this  
 14 case is, when is that threshold met, correct?  
 15 Is that your understanding of this particular  
 16 case?  
 17 A. Correct.  
 18 Although the term threshold, I think, is  
 19 potentially misleading, in that, you know, in the  
 20 general population, especially those with chronic  
 21 obstructive pulmonary disease, radiographic  
 22 abnormalities are ubiquitous. And rather than  
 23 calling it a threshold point, I'd say that the  
 24 physician has to use clinical judgment in  
 25 determining when an abnormality is sufficiently

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1 concerning to merit an invasive procedure.  
 2 And the radiologist is particularly helpful in  
 3 making those recommendations combined with the  
 4 patient's clinical situation.  
 5 Q. All right.  
 6 Ultimately, the physician that makes the  
 7 decision as to whether or not additional testing by  
 8 way of histopathology needs to be done on a  
 9 particular patient is the patient's treating  
 10 physician, am I right?  
 11 A. That's right.  
 12 Although when it comes to s-ray interpretation,  
 13 most clinicians are not also boarded in radiology.  
 14 So therefore, they need to rely heavily on the  
 15 expertise of the reading radiologist.  
 16 Q. Well, you've told me that you're familiar with the  
 17 diagnosis of cancers of the lung based on x-rays,  
 18 haven't you?  
 19 A. Correct.  
 20 And although I read x-rays all the time, I  
 21 never assume that my interpretation supersedes that  
 22 of the radiologist.  
 23 Q. Do you know what pulmonologists do?  
 24 A. I know what the pulmonologists at the two  
 25 institutions -- actually, I've worked at more than

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1 two institutions.  
 2 But at all of the institutions where I have  
 3 worked closely with pulmonologists, they may look  
 4 at x-rays, as do I, but they ultimately rely on the  
 5 expertise of those who are specifically trained in  
 6 radiology, i.e. radiologists.  
 7 Q. Well, aren't pulmonologists specifically trained to  
 8 deal with diseases and problems of the chest and  
 9 lungs?  
 10 A. They are, but they're not radiologists.  
 11 Q. And you, as a medical oncologist, you deal with  
 12 cancers throughout the body, don't you?  
 13 A. Although I have a particular subspecialty expertise  
 14 in cancers of the lung.  
 15 Q. Small cell or non-small cell cancers of the lung?  
 16 A. I don't follow your question.  
 17 Q. Allright.  
 18 Is your expertise in the area of small cell  
 19 lung cancer or non-small cell lung cancer?  
 20 A. Lung cancers in general, thoracic malignancies in  
 21 general.  
 22 Q. I've noticed some publications in your CV, Doctor,  
 23 and I need -- I'll be honest with you. I kind of  
 24 breezed through it quickly.  
 25 I've noticed that you've had some publications

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1 on small cell carcinoma of the lung. **As** a matter  
 2 of fact, publication article 1 is, "Staging of  
 3 small cell carcinoma of the lung."  
 4 Have you ever published anything on non-small  
 5 cell carcinoma of the lung?  
 6 A. Well, many things.  
 7 Q. Okay, why don't you -- can you point them out?  
 8 Do you have a copy of that, Doctor?  
 9 A. This is my copy here (Indicating).  
 10 Q. Oh, that's your copy? Why don't you just refer to  
 11 them by number?  
 12 A. Sure. We'll start at the bottom.  
 13 Q. Page -- which page?  
 14 A. On page 11.  
 15 Q. I don't have a page 11. I have a page 10. Article  
 16 22, is that how -- or publication 22?  
 17 A. It's number 23 on my version of this CV.  
 18 What is your CV dated?  
 19 Q. My CV, sir, is dated December the 2nd of 1999.  
 20 A. Okay. This is a more recent version.  
 21 Q. Okay.  
 22 So there should be a publication 23?  
 23 A. 23 pertains to non-small cell lung cancer.  
 24 Q. What's the title of that publication?  
 25 A. "Phase II and Pharmacokinetic Trial of

<p style="text-align: right;">38</p> <p>1 9-Aminocamptothecin Colloidal Dispersion 120-Hour</p> <p>2 continuous Intravenous Infusion in Advanced</p> <p>3 Non-Small Cell Lung Cancer."</p> <p>4 Q. That was going to be my guess.</p> <p>5 When you're talking about advanced non-small</p> <p>6 cell lung cancer, presumably those are patients</p> <p>7 that have either failed surgery or have had a</p> <p>8 time of diagnosis when their stage was too</p> <p>9 advanced to have surgery as their primary mode of</p> <p>10 treatment?</p> <p>11 A. That's correct.</p> <p>12 Q. You see these patients generally in one of two</p> <p>13 ways, either they fail surgery or they're diagnosed</p> <p>14 at a time where they are already worse than a stage</p> <p>15 2?</p> <p>16 Is that a fair way to put it?</p> <p>17 A. No, that's not true.</p> <p>18 Q. Okay.</p> <p>19 A. I'm involved in the initial diagnosis of patients</p> <p>20 with lung cancer, as well, including patients with</p> <p>21 2% stage 1 and 2 disease.</p> <p>22 Q. All right, so article 23.</p> <p>23 Let's go through the rest of your articles.</p> <p>24 A. On page 11, number 21 pertains to largely patients</p> <p>25 with non-small cell lung cancer.</p>	<p style="text-align: right;">40</p> <p>1 But it's not a -- it's not a precise term.</p> <p>2 Q. All right, hilar nodal involvement, is <b>hilar</b> nodal</p> <p>3 involvement, in your nomenclature, advanced</p> <p>4 disease?</p> <p>5 A. I don't generally think of it as such.</p> <p>6 Q. Let me, then, re-focus my questions so we don't</p> <p>7 spend a lot of time on this.</p> <p>8 I'd like you, sir, to point out to me any</p> <p>9 articles that you've authored that deal with non-</p> <p>10 advanced non-small cell lung cancer.</p> <p>11 A. I don't believe that I have published <b>specifically</b></p> <p>12 on stage 1 and 2 non-small cell lung cancer, though</p> <p>13 probably more than half of these publications deal</p> <p>14 with non-small cell lung cancer.</p> <p>15 Q. Okay, very good. That kind of shortens that up,</p> <p>16 Doctor, thank you.</p> <p>17 I'm <b>curious</b>, and maybe you could explain to me</p> <p>18 how it comes to pass that a medical oncologist</p> <p>19 originally, or in the <b>first</b> instance, makes the</p> <p>20 diagnosis of lung cancer.</p> <p>21 How does that happen?</p> <p>22 A. Patients are referred to me with abnormal chest</p> <p>23 x-rays that could conceivably represent cancer.</p> <p>24 And I'm asked to clarify whether, in fact, there is</p> <p>25 cancer present, help to make the diagnosis of</p>
<p style="text-align: right;">39</p> <p>1 Q. Okay, alright.</p> <p>2 And again we're talking about advanced</p> <p>3 cancer?</p> <p>4 A. Correct.</p> <p>5 Q. When you're talking of advanced cancer, is that a</p> <p>6 term of art for distant metastasis?</p> <p>7 A. Either locally advanced or distant metastasis.</p> <p>8 Q. Okay, fine.</p> <p>9 A. Now, because I suspect you're going to make this</p> <p>10 point on each article, my publications pertain</p> <p>11 largely to patients with locally advanced and</p> <p>12 metastatic disease.</p> <p>13 My clinical experience pertains equally to</p> <p>14 patients with all stages of cancer.</p> <p>15 Q. All right.</p> <p>16 A. But I will state at the outset, since you seem to</p> <p>17 be interested in this in particular, that, in fact,</p> <p>18 most of my publications do pertain to advanced</p> <p>19 disease.</p> <p>20 Q. Allright.</p> <p>21 And by that we would -- would nodal</p> <p>22 involvement, in your nomenclature, be advanced</p> <p>23 disease?</p> <p>24 A. The term "Advanced Disease" is not that precise.</p> <p>25 It could refer to mediastinal node involvement.</p>	<p style="text-align: right;">41</p> <p>1 cancer.</p> <p>2 Q. So patients are referred to you by their primary</p> <p>3 doctors?</p> <p>4 A. Correct.</p> <p>5 Q. Because the primary doctor sees something on the</p> <p>6 patient's s-rays that causes his or her to be</p> <p>7 suspicious of what's going on in the lung, is that</p> <p>8 right?</p> <p>9 A. Correct.</p> <p>10 Or patients may be self-referred.</p> <p>11 Q. And then that particular primary care physician</p> <p>12 asks you to rule in or rule out lung cancer as <i>the</i></p> <p>13 cause of whatever the finding on <i>film</i> may be, is</p> <p>14 that how it works?</p> <p>15 A. Correct.</p> <p>16 Q. And how do you do that, sir?</p> <p>17 How do you either rule in or rule out lung</p> <p>18 cancer as the cause of what you see on the</p> <p>19 x-rays?</p> <p>20 A. Well, I would utilize the radiologist's expertise</p> <p>21 heavily in determining whether an abnormality on a</p> <p>22 single chest x-ray, for instance, is sufficiently</p> <p>23 concerning.</p> <p>24 A frequent modality is to obtain serial chest</p> <p>25 x-rays and look for stability or normalization of</p>

<p>42</p> <p>1 an x-ray, look for stability or resolution of a 2 questionable abnormality.</p> <p>3 If the radiology expert, my radiology 4 colleague, opines that the abnormality on chest 5 x-ray is sufficiently concerning to merit a CT 6 scan, then I would get a CAT scan.</p> <p>7 Q. " Do you ever, in your exercise of your medical 8 obligation to the patient, decide whether or not 9 the patient should get a CT scan?</p> <p>10 A. I generally work closely with the radiologists in 11 making that determination.</p> <p>12 Q. And I'm going to make sure that I understand what's 13 going on here.</p> <p>14 The patient comes in on referral from a primary 15 care physician. Can we agree that that's the bulk 16 of the way it happens?</p> <p>17 A. Well, I work at a national cancer institute 18 designated comprehensive cancer center where a 19 great many of our patients are self-referred 20 through discovering us on the internet or seeing 21 advertisements.</p> <p>22 So I wouldn't say the bulk. I'd say the two 23 sources of patient referrals are either physician 24 directed or self-referral.</p> <p>25 Q. All right.</p>	<p>44</p> <p>1 radiologists, is that right?</p> <p>2 A. Correct.</p> <p>3 Q. Do you call up the radiologists that originally 4 interpreted the film for the patient, or do you 5 avail yourself of other consulting radiologists 6 that work at the Ireland Cancer Center?</p> <p>7 A. The latter.</p> <p>8 Q. Allright.</p> <p>9 So that there's no confusion on the record, 10 when a patient comes in with the film that you 11 believe or films that you believe are suspicious of 12 something, what you do is you <b>will</b> consult with a 13 third radiologist or another radiologist here at 14 the Ireland Cancer Center, is that right?</p> <p>15 A. That's right, unless the patient has come from my 16 own institution. And if the films were read by 17 radiologists at my own institution, or at one of 18 the University Hospitals Health System institutions 19 -- and there are nine hospitals that are part of 20 our system -- then I would rely on the expertise of 21 those radiologists.</p> <p>22 Q. And how do you do that?</p> <p>23 Do you take the films and you go see the 24 radiologist, or you make an appointment with the 25 radiologist, or you call the radiologist on the</p>
<p>43</p> <p>1 And when the patient comes in to see you 2 initially, you're serving as a consultant either to 3 the patient who is self-referred or to the 4 physician that sends the patient to you for 5 evaluation. am I correct? Am I right?</p> <p>6 A. Correct.</p> <p>7 Q. All right.</p> <p>8 Now, when the patient comes in, the patient 9 generally probably almost 100 percent of the time 10 already has chest films, is that right?</p> <p>11 That's what prompts the consultation with 12 you?</p> <p>13 A. Unless the patient comes in because he or she is 14 coughing up blood or has some other symptom that 15 might be suggestive of cancer. But you're correct. 16 Abnormal chest films are certainly the most common 17 finding.</p> <p>18 Q. The most common finding is a patient comes in with 19 a film or more films, and you are then charged with 20 the responsibility of deciding whether the lesion 21 or the structure shown on film is worrisome or not 22 worrisome, right?</p> <p>23 A. That's correct.</p> <p>24 Q. Now, when you're in the process of doing that, 25 you've told me that you will consult with</p>	<p>45</p> <p>1 phone?</p> <p>2 How do you do that?</p> <p>3 A. Well, very often, if I'm comfortable with the 4 expertise of the radiologist who has rendered the 5 original reading, I'll have his or her report in 6 front of me, and I'll have the films, and I'll 7 simply read the report and look at the films.</p> <p>8 Q. And then you're done at that point'?</p> <p>9 A. Yes, unless there's some reason that additional 10 clarification is needed. But usually I would rely 11 on the expertise of the radiologist.</p> <p>12 Q. What I'm failing to understand, Doctor, is if 13 that's the case, what function are you serving?</p> <p>14 Why doesn't the primary physician simply ask 15 the radiologist, or why doesn't the patient simply 16 ask the radiologist?</p> <p>17 Why are you in the link? Why are you in the 18 chain?</p> <p>19 A. Well, there are many components to the diagnosis of 20 lung cancer other than the radiographs. There are 21 other symptoms involved. There are invasive tests 22 that may be needed.</p> <p>23 But you're only focussing on the interpretation 24 of a questionably abnormal radiograph. And my job 25 as a medical oncologist is to assemble all of the</p>

1 appropriate data, of which the radiograph is only  
 2 one component.  
 3 Q. Would the pulmonologist treating the same patient  
 4 have the same job, to assemble all the relevant  
 5 data?  
 6 A. Yes.  
 7 I think in regard to this piece of the  
 8 diagnosis of lung cancer, there is overlap between  
 9 what I do and what the pulmonologist does. I don't  
 10 do bronchoscopies. The pulmonologist does.  
 11 But in terms of making this kind of assessment,  
 12 there is considerable overlap.  
 13 Q. And that really hones in on the difference between  
 14 the role of the radiologist and the role of either  
 15 you or the pulmonologist as the primary care  
 16 physician.  
 17 The radiologist is looking at films at discreet  
 18 points in time, correct, and it's your obligation,  
 19 or the treating pulmonologist's obligation, to, as  
 20 you put it, and we can have the court reporter read  
 21 it back, put together all the information and  
 22 decide what to do next?  
 23 A. That's correct, although, again, I mean, I'm not  
 24 sure where you're going with that.  
 25 If I understand your question, if a patient has

1 multiple films that have been read by multiple  
 2 radiologists, you're asking whether there is a need  
 3 to assemble all those films and have them read by a  
 4 single radiologist?  
 5 Q. Well, I think you told me that there's a need for  
 6 somebody, and you said in the case where you're the  
 7 physician who is doing the consultation. it's your  
 8 obligation to put together all the information to  
 9 see what needs to be next.  
 10 Do you remember your testimony to me along  
 11 those lines?  
 12 A. I do.  
 13 Q. All right, and --  
 14 A. I think, though, that you need to remember the real  
 15 world. and you need to -- you need to consider not  
 16 just what things look like in hindsight, but how  
 17 things really happen. And you need to remember  
 18 that, among patients with a cigarette smoking  
 19 history, or a history of chronic obstructive  
 20 pulmonary disease, the frequency of abnormalities  
 21 on chest x-ray is great.  
 22 One particular study using CAT scans showed  
 23 that, among smokers, 25 percent of those patients  
 24 had abnormal nodules on their CAT scan. And only a  
 25 tiny percentage of those actually had cancer.

1 So I think it's easy for you as an attorney to  
 2 look back and say, well, you know, this or that  
 3 should have been done. But when you're faced with  
 4 a subtle abnormality on x-ray, it's analogous to a  
 5 breast surgeon being faced with a breast lump.  
 6 A small number of breast lumps, in fact, are  
 7 breast cancer. And what one has to do is follow a  
 8 breast lump over time. And you don't take them all  
 9 out and disfigure women.  
 10 Similarly, you don't biopsy or even CAT scan  
 11 all abnormalities on chest x-ray. You have to  
 12 consider, over time, whether the abnormalities  
 13 appear to either stabilize or recede.  
 14 Q. All right, are you finished? I don't want to cut  
 15 you off.  
 16 A. Yes.  
 17 Q. And I appreciate your answer. I'm not sure it was  
 18 responsive to my question. I don't think I'm quite  
 19 to the point in my questioning that you are in your  
 20 answers. And let me tell you what my question is  
 21 designed to do.  
 22 My question isn't designed to obtain from you  
 23 your opinions as to what the standard of care  
 24 requires that the pulmonologists do. My question  
 25 is designed to elicit from you whether it's the

1 pulmonologist's responsibility to do it as opposed  
 2 to the radiologist's responsibility to do it.  
 3 I think you've already told me, and maybe we  
 4 can harken back to Harry Truman where he says, "The  
 5 buck stops here."  
 6 The buck stops with somebody in these cases.  
 7 doesn't it, Doctor?  
 8 A. Well, you know, I might have an easier time  
 9 answering that question if we become less  
 10 theoretical and actually look at the chronology in  
 11 this particular case.  
 12 Q. Well, let's do that.  
 13 What would be helpful to you in the chronology  
 14 in this case?  
 15 A. Well, if we look at the x-rays that were obtained  
 16 in the case of this patient, and we see that, in  
 17 August of 1991 --  
 18 Q. Doctor, you're looking at something now as you are  
 19 testifying, right?  
 20 Can you identify what you're looking at? Are  
 21 those your notes?  
 22 A. Yes.  
 23 I'm looking at my summary of some of the key  
 24 x-ray findings.  
 25 Q. And I know that that summary has been provided to

1 me. I just want to see if I can find it while  
 2 you're testifying. So if you'll --  
 3 MR. LOUCAS: The doctor has  
 4 it now.  
 5 BY MR. DJORDJEVIC:  
 6 Q. Do you only have one copy of the *summary*?  
 7 A. Only *one copy*.  
 8 Q. Do you know, can we get a copy of that?  
 9 (Thereupon, a short recess was taken.)  
 10 Q. Doctor, while we're waiting, let's just go to some  
 11 general matters in terms of your background in  
 12 testifying.  
 13 How was it that you were contacted in this  
 14 case?  
 15 A. I have no idea how this law firm found my name.  
 16 Q. Qkay.  
 17 Do you advertise your services at all?  
 18 A. Absolutely not.  
 19 Q. Are you a member of any service organization  
 20 that provides --  
 21 A. No.  
 22 Q. -- expert testimony?  
 23 A. No.  
 24 Q. Have you testified in cases other than this case?  
 25 A. Yes.

1 Q. And give me an idea of how frequently you do  
 2 that.  
 3 A. I probably review six or eight cases a year.  
 4 sometimes less.  
 5 Q. And how long have you done that?  
 6 A. About four years.  
 7 Q. I understand we're talking ball park, but six to  
 8 eight for four years would be somewhere between,  
 9 what, 24 and 32 cases that you've reviewed?  
 10 A. I think that's fair.  
 11 Q. Of those 34 to 32 cases, what percentage of those  
 13 cases would be on behalf of Plaintiffs or  
 13 patients?  
 14 A. About 20 percent are on behalf of the Plaintiff,  
 15 and about 80 percent are on behalf of the  
 16 physician.  
 17 Q. Have you ever testified as to standard of care for  
 18 a pulmonologist prior to this case?  
 19 A. I don't specifically recall, though I certainly  
 20 have testified pertaining to the standard of care  
 21 in the work up and diagnosis of lung cancer.  
 22 Q. Allright.  
 23 Let's talk about the work up and diagnosis of  
 24 lung cancer as performed by a pulmonologist.  
 25 Have you ever done that before?

1 A. I don't specifically recall. But as I made clear a  
 2 few minutes ago, the function of a pulmonologist  
 3 and a medical oncologist in this regard has a great  
 4 deal of overlap.  
 5 Q. I understand that, but we can agree, you and I, to  
 6 the best of your recollection, this would be the  
 7 first case where you've ever given standard of care  
 8 testimony as to what the standard of care is for a  
 9 pulmonologist, right?  
 10 A. I don't believe that I said that. I said that I  
 11 can't recall either way.  
 12 Q. Well, that's my question. To the best of your  
 13 recollection, this would be the first -- do you  
 14 recall it, or don't you?  
 15 A. I think it's entirely possible that I have. I  
 16 simply don't recall the specifics of those prior  
 17 cases.  
 18 But I wouldn't agree with you that we can  
 19 conclude, therefore, that I have not testified to  
 20 that effect.  
 21 (Thereupon, a discussion was had off the record.)  
 22 BY MR. DJORDJEVIC:  
 23 Q. You *think* maybe you've testified as to the  
 24 standard of care for a pulmonologist, but you can't  
 25 recall?

1 A. I don't recall the specifics to that degree of  
 2 derail.  
 3 Q. All right.  
 4 Relative to giving testimony at trial or by  
 5 video tape to be played at trial, have you ever  
 6 testified at trial or videotaped to be played at  
 7 trial on behalf of a Plaintiff?  
 8 A. Yes, once.  
 9 Q. And can you tell me what issues those were involved  
 10 in that case, Doctor?  
 11 A. As I recall, that pertained to a delay in diagnosis  
 12 of lung cancer.  
 13 Q. And what was your testimony in that case?  
 14 A. Well, I don't recall the details, but my testimony  
 15 was in support of the fact that a delay in  
 16 diagnosis contributed to the patient's demise.  
 17 Q. And I would guess, given my limited knowledge about  
 18 lung cancers, that that would be a non-small cell  
 19 lung cancer?  
 20 A. I believe that *was*.  
 21 Q. So the only time that you can recall testifying for  
 22 a trial by tape or by trial testimony for a  
 23 Plaintiff or a patient, you took the position that  
 24 delay in diagnosis of non-small cell lung cancer  
 25 materially altered the outcome for that patient,

1 right?  
 2 A. Correct.  
 3 The details of that case were quite different  
 4 from the details of this case.  
 5 Q. Where was that case filed, do you know?  
 6 A. Well, the trial was in Dayton, Ohio.  
 7 Q. Do you recall any of the attorneys involved in that  
 8 case?  
 9 A. I don't recall their names.  
 10 Q. And you don't recall who was defending the case,  
 11 either, I take it?  
 12 A. No.  
 13 Q. In the 24 to 32 cases in which you've testified,  
 14 can you give me an approximation as to the cases in  
 15 which you've testified on behalf -- or in regards,  
 16 I guess, to the standard of care issue as opposed  
 17 to the proximate cause issue?  
 18 MR. BROOKS: Objection to  
 19 form. I think he said he reviewed 24 to 32.  
 20 I'm not sure he said he's testified.  
 21 MR. DJORDJEVIC: Fine. I'll  
 22 withdraw that and ask you the same way as  
 23 counsel has indicated.  
 24 BY MR. DJORDJEVIC:  
 25 Q. In the 24 to 32 cases that you've reviewed, what

1 percentage of those cases involved elicitation of  
 2 your opinions on the cause issue as opposed to the  
 3 care issue?  
 4 A. I'm afraid I couldn't hazard a guess in that  
 5 regard.  
 6 Q. All right.  
 7 And in the Dayton case where you testified at  
 8 trial for the Plaintiff patient, do you recall the  
 9 patient's name, or the Plaintiff's name?  
 10 A. I'm afraid I don't.  
 11 Q. How recently was that, Doctor?  
 12 A. That was about a year ago.  
 13 Q. And did you go down to Montgomery County to testify  
 14 live?  
 15 A. Yes.  
 16 Q. Do you recall what the verdict was in that case, or  
 17 what the outcome was?  
 18 A. I believe that the outcome was in favor of the  
 19 Plaintiff.  
 20 Q. Do you know what the amount of the award was?  
 21 A. I don't.  
 22 Q. Doctor, before we get to your chronology, you say  
 23 in your records, reviewed multiple x-rays. That's  
 24 the first thing that you list, correct?  
 25 A. I believe I listed, "Reviewed multiple x-ray

1 reports."  
 2 Q. You're right. I'm a little bit dyslexic.  
 3 Did you look at any original x-rays in this  
 4 case?  
 5 A. Not that I remember.  
 6 Q. Did you look at any copies of x-rays?  
 7 A. Again, I'm fairly conscientious about making notes  
 8 of what I review, so I must conclude, because I  
 9 didn't write it down, that I have not reviewed  
 10 x-rays in this case.  
 11 Q. So the truth of the matter is, Doctor, that you  
 12 don't know, as a matter of fact, from your own  
 13 review, what any of the x-rays actually show?  
 14 A. You're asking whether I have personally interpreted  
 15 any of these x-rays?  
 16 Q. Right.  
 17 A. I don't consider myself a radiologist, so I believe  
 18 that I have a sense of what they show based on the  
 19 expertise of the reading radiologists.  
 20 Q. Well, you know that these expert radiologists  
 21 settled out of this case, don't you? Don't you,  
 22 Doctor?  
 23 A. Well, I'm not sure how that is relevant.  
 24 Q. Does that indicate to you as to whether or not  
 25 their interpretations were correct or incorrect?

1 A. It doesn't indicate to me either way.  
 2 Q. It doesn't matter either way to you?  
 3 A. I'm not following your point.  
 4 Q. Well, I'm asking you, does it matter to you  
 5 whether or not the radiologists in this case  
 6 settled out? You're willing to assume their  
 7 interpretations at face value?  
 8 A. I'm afraid I don't understand this line of  
 9 questioning.  
 10 Q. Well, you don't need to.  
 11 I guess my question, sir, to you is, and let me  
 12 ask it in a very simple manner, do you know -- and  
 13 this question can be answered by a simple yes or no  
 14 -- whether the radiologists in this particular case  
 15 settled out of court?  
 16 A. I was informed of that moments before the  
 17 deposition began, and you have stated that  
 18 yourself.  
 19 Q. And I take it, being aware that they settled out,  
 20 you have no idea why they settled out of court, do  
 21 you, Doctor?  
 22 A. Correct.  
 23 Q. Does it stand to reason to you that they settled  
 24 out of court because their interpretations of the  
 25 films were incorrect?

- 1 A. I have no basis on which to make such a judgment.
- 2 Q. And since you've never looked at the films, you
- 3 don't know as a matter of fact whether or not
- 4 their interpretations were correct or incorrect, do
- 5 you?
- 6 A. Well, even if I looked at the films, not being a
- 7 radiologist, it wouldn't be appropriate for me to
- 8 declare their readings to be incorrect.
- 9 Q. So you will defer to the expertise of the
- 10 radiologists in this case as to what the correct
- 11 interpretation of each specific film would be, is
- 12 that right?
- 13 A. Well, I don't know for a fact how many expert
- 14 radiologists are going to be brought into the case
- 15 and whether or not they're disagreeing with one
- 16 another.
- 17 As a practicing doctor, I can tell you that I
- 18 do not consider myself to be a radiologist. And
- 19 therefore I rely on the expertise of my radiology
- 20 colleagues in managing patients.
- 21 Q. All right.
- 22 My question, sir, is you aren't going to be
- 23 rendering any opinions in this case as to what any
- 24 of these films show at any point in time?
- 25 A. Other than the information that has been provided

- 1 by reading radiologists.
- 2 Q. All right, well, that's what I'm asking you.
- 3 Is it going to be your position, sir, in this
- 4 case, that the interpretation of the reading
- 5 radiologist for any particular film was correct?
- 6 MR. BROOKS: I'll represent
- 7 no. I don't intend to have him even look at
- 8 the films.
- 9 BY MR. DJORDJEVIC:
- 10 Q. You're not going to vouch for the correctness of
- 11 any of these interpretations?
- 12 A. No.
- 13 I think I've been very clear over the last
- 14 hour: stated multiple times, that I'm not a
- 15 radiologist and therefore don't feel
- 16 appropriately trained to render an official reading
- 17 of an x-ray.
- 18 Q. And can you and I agree that, if any of these
- 19 interpretations are incorrect, that may or may not
- 20 alter your opinions in this case, correct?
- 21 A. Well, in view of the fact that I am testifying
- 22 largely regarding standard of care, and in view of
- 23 the fact that Dr. Husari made his clinical
- 24 judgments based on the x-ray readings available to
- 25 him at that time, those being the same readings

- 1 that I had available when I reviewed this case, if,
- 2 in fact, one of those x-ray readings was
- 3 incorrect, in retrospect, Dr. Husari had no way of
- 4 knowing that. So therefore, that type of
- 5 information is not likely to alter my opinion
- 6 regarding whether or not Dr. Husari complied with
- 7 the standard of care.
- 8 Q. Explain to me how Dr. Husari wouldn't know if one
- 9 of the interpretations was correct simply by
- 10 looking at the film.
- 11 Couldn't he simply look at the film and know
- 12 whether the interpretation was correct or
- 13 incorrect?
- 14 A. Well, I think we've covered this ground a few
- 15 minutes ago, and that is I've been very clear in
- 16 stating that Dr. Husari, like myself, is not a
- 17 radiologist. And therefore, he must rely on the
- 18 expertise of the radiologists regarding the
- 19 interpretation of these films.
- 20 So there's no way that I would expect Dr.
- 21 Husari to overrule a radiologist in the
- 22 interpretation of a film.
- 23 Q. Despite the fact that Dr. Husari is a pulmonologist
- 24 and these are specifically films of the chest, it's
- 25 your position that he has no obligation to look at

- 1 those things?
- 2 A. The training program for pulmonologists is not the
- 3 same as the training program for radiologists.
- 4 And to my knowledge, Dr. Husari is not boarded
- 5 in radiology.
- 6 Q. I'm not sure that answers my question.
- 7 My question to you is, is it your position,
- 8 sir, in this case, that a pulmonologist, or a chest
- 9 doctor, has no obligation to look at the chest
- 10 x-rays of his patient?
- 11 A. I don't believe that I said that
- 12 Q. It's a question
- 13 A. I look at the chest x-rays of most of my patients.
- 14 and I believe -- not all of them, but in many
- 15 cases, when there's a particularly striking
- 16 abnormally identified by the radiologist, I will
- 17 pull out those films and look at them.
- 18 But I would expect that a pulmonologist would
- 19 look at x-rays with a similar frequency to my own,
- 20 which means that a pulmonologist will rely on the
- 21 radiologist for his or her interpretation of those
- 22 films.
- 23 Q. Well, let me ask you in a very straight forward,
- 24 open-ended manner.
- 25 Does the pulmonologist have an obligation to



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1 look at chest x-rays done on the pulmonologist's  
 2 patient, or does the pulmonologist have no  
 3 obligation to look at the chest x-rays done on his  
 4 or her patient?  
 5 A. So you're asking whether the pulmonologist has to  
 6 look at every x-ray that he or she orders, or  
 7 whether I, as a thoracic oncologist -- I'm also a  
 8 general oncologist -- but in my practice as a  
 9 thoracic oncologist, whether I'm obligated to look  
 10 at every single x-ray that I order?  
 11 Q. Well, let me make my question very specific.  
 12 I have no interest at all in learning whether a  
 13 thoracic oncologist or a medical oncologist has an  
 14 obligation to look at x-rays. My sole interest is  
 15 whether a pulmonologist has an obligation to look  
 16 at the x-rays, and that's my question.  
 17 Is it your testimony in this case that a  
 18 pulmonologist has no obligation to look at chest  
 19 x-rays that he or she orders for his patients?  
 20 A. It is my testimony that, in the course of his or  
 21 her work day, a pulmonologist probably orders  
 22 x-rays on most of the patients who walk in the  
 23 door, as do I.  
 24 So there is considerable similarities between  
 25 what they do and what I do. And there is no

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1 obligation that the pulmonologist would review, for  
 2 instance, a normal film or a resolving pneumonia,  
 3 when an expert radiologist has rendered an opinion  
 4 on that film.  
 5 Q. So the answer to my question is, there's no  
 6 obligation on the part of the pulmonologist?  
 7 A. I think it depends upon the situation, on the  
 8 patient, on the abnormality involved.  
 9 But as far as a rigid statement that he or she  
 10 has to look at all films, I think, in the real  
 11 world, that's absurd.  
 12 Q. And what's your factual understanding of the case  
 13 here?  
 14 Did Dr. Husari in this case personally review  
 15 any of these x-rays?  
 16 A. I don't know.  
 17 Q. Maybe he did, maybe he didn't?  
 18 A. I don't recall specifically if that question was  
 19 asked in his deposition.  
 20 Q. And it doesn't matter to you whether he did or he  
 21 didn't, because he conformed with the standard of  
 22 care either way, right?  
 23 A. Correct.  
 24 Q. Okay.  
 25 Well, did someone have the obligation, Doctor,

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1 to make a determination, in this particular case  
 2 involving Mr. Cowan, as to whether additional  
 3 follow-up studies should be done, or is that  
 4 another thing, it's okay if they did, it's okay if  
 5 they didn't?  
 6 A. Well, it might be easier to answer your question if  
 7 we do what we started to do before the break, and  
 8 that is to go through the chronology. I think that  
 9 can answer your question more clearly.  
 10 Q. Why don't you do whatever you think would be  
 11 helpful?  
 12 A. Okay. Let's start back in August of 1991 where we  
 13 started before. And a chest x-ray is obtained on  
 14 August 28th, which shows opacification anteriorly  
 15 seen on the lateral view. It's thought to  
 16 represent most likely a pericardiac pleural  
 17 reflection.  
 18 There's a slight increased opacity on this film  
 19 at the left lung base, not a striking abnormality,  
 20 but something that is called attention to  
 21 nonetheless. And therefore, just a couple of weeks  
 22 later, an x-ray is repeated, and this abnormality  
 23 seems to have resolved. The only abnormality that  
 24 remains is thought to represent a fat pad.  
 25 The conclusion is, "No evidence of acute

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1 cardiopulmonary disease." So again, that's great  
 2 in terms of standard of care.  
 3 Q. Let me stop you there for a moment.  
 4 What would be within the differential diagnosis  
 5 of that opacification in August and September of  
 6 1991?  
 7 A. Well, that's the kind of thing that I would rely on  
 8 a radiologist for.  
 9 A radiologist can tell me what he or she thinks  
 10 that is likely to represent. If this radiologist  
 11 concludes that it's a pericardial fat pad, I have  
 12 to rely on that radiology report.  
 13 Q. Well, is there anything about either of those  
 14 radiology reports, August or September of 1991,  
 15 that, in your mind's eye, rules out neoplasm in  
 16 this case?  
 17 A. Well, the fact that we look over time, and in  
 18 January of '92 there is no active disease. And in  
 19 October of '93, no acute change. In October of  
 20 '93, again, no active disease. January, '94,  
 21 normal.  
 22 So we have 1, 2, 3, 4, 5, 6 serial chest  
 23 x-rays. The early ones raise a little question,  
 24 and then all the rest confirm and confirm and  
 25 confirm that it's normal.

1 Q. Well, is there any opacification that is visible on  
 2 the 1-25-92 film, Doctor?  
 3 A. The conclusion of the radiologist is no active  
 4 cardiopulmonary disease.  
 5 Q. Does that say anything about an opacification?  
 6 A. I don't have the full text of that report in front  
 7 of me. Perhaps, if that's important, we could look  
 8 at it.  
 9 Q. Well, why don't we?  
 10 Do you have it in the materials that you  
 11 brought with you?  
 12 MS. LOUCAS: Which x-ray?  
 13 MR. BROOKS: 1-25-92.  
 14 MR. DJORDJEVIC: 1-25-92.  
 15 THE WITNESS: If you can  
 16 find it more quickly, I'll look at your  
 17 copy.  
 18 BY MR. DJORDJEVIC:  
 19 Q. While we're looking, Doctor, are these your notes,  
 20 these typewritten notes?  
 21 A. Yes, sir.  
 22 Q. And how did you prepare these, sir?  
 23 A. I went through the records, again, over the last  
 24 few days, and pulled out what I felt to be the  
 25 important x-rays.

1 Q. Allright.  
 2 And were there some x-rays that you felt were  
 3 unimportant and some x-rays that you felt were  
 4 important?  
 5 A. Well, I think that most of the films that I came  
 6 across in reading the records have been included in  
 7 this list. I might have inadvertently missed one  
 8 or two, but I think that most of them are here.  
 9 Q. And at the top of your notes, it says Flaherty,  
 10 Sensabaugh, et cetera.  
 11 What's that there for?  
 12 A. Well, that simply identifies the law firm that  
 13 contacted me and asked me to do this review.  
 14 Q. You're just making a notation that -- were you  
 15 requested to draw this up by that law firm?  
 16 A. No.  
 17 Q. You drew it up on your own?  
 18 A. Yes.  
 19 Q. And just placed their name on it as a reminder to  
 20 yourself that they're the ones that are advancing  
 21 your opinions in this case?  
 22 A. Ofcourse.  
 23 Q. Okay, all right.  
 24 So the '92 film, does it say anything about an  
 25 opacity one way or the other, the interpretation?

1 A. It reads, "A single frontal portable view of the  
 2 chest dated 1-25-92 shows heart, lungs, and  
 3 mediastinum to be within normal limits. Cardiac,  
 4 no active cardiopulmonary process is seen."  
 5 So there's no reference to any type of  
 6 infiltrate.  
 7 Q. We don't know whether there's an opacity there in  
 8 '92, do we, one way or the other?  
 9 A. Well, if I'm not mistaken, these films were all  
 10 taken at the same institution and read by the same  
 11 group of radiologists.  
 12 So it is my assumption that these films were  
 13 compared with prior films when they were read.  
 14 Q. That's your assumption in this case?  
 15 A. Yes.  
 16 Q. Okay.  
 17 How about the 10-25-93 interpretation?  
 18 A. The conclusion there is no acute changes.  
 19 Q. And again, does that say anything about the opacity  
 20 that's referred to in the '91 films?  
 21 A. No. They see nothing wrong here at all.  
 22 Q. So what does that mean, that there is no opacity?  
 23 Is that your interpretation?  
 24 A. It means there is no opacity as far as the  
 25 radiologist could determine in this film. It looks

1 like a normal film.  
 2 Q. What film are we up to now, the 10-28-93 film?  
 3 A. Correct.  
 4 Q. How about that one?  
 5 A. They identify scarring or atelectasis in the left  
 6 lower lung zone. The lungs otherwise appear clear.  
 7 The heart size is within normal limits, and there  
 8 is no evidence of interstitial edema. The lungs  
 9 are mildly hyperinflated.  
 10 Impression, hyperinflation without other  
 11 evidence of active pulmonary disease.  
 12 Q. So there's no mention of the opacification at that  
 13 time?  
 14 A. It's another normal x-ray.  
 15 Q. And again, you're relying on the interpretation of  
 16 the radiologist as being correct in making that  
 17 conclusion, right?  
 18 A. Ofcourse.  
 19 Q. The next film that you have is what?  
 20 A. January 1, 1994.  
 21 And the impression here is normal chest.  
 22 Q. Again, no reference to opacity one way or the  
 23 other?  
 24 A. If you understand how radiologists work, there  
 25 would be no reason to do that. This is a normal

1 I certainly don't look at all my patient's  
2 films. I wouldn't have time to do my work.  
3 Q. How do you know whether or not there's anything  
4 sufficiently abnormal without looking at the  
5 films?  
6 A. Based on the radiologist's report.  
7 Q. So when you look at films in your practice, the  
8 only time you look at films is if the radiologist  
9 has suggested that there's something sufficiently  
10 abnormal in the film, is that how it works?  
11 A. In general, I wouldn't be so rigid as to say the  
12 only time, but that is generally what will lead me  
13 to do that.  
14 Q. When the radiologist reports an opacification, is  
15 that important enough for you to look at?  
16 A. If the radiologist tells me that's just a fat pad,  
17 I certainly don't see the need to take 20 minutes  
18 out of my day and go down and look at the film.  
19 Q. And if he says that it's -- what else here - a  
20 pericardial reflexion, not important enough for  
21 you to take 20 minutes out of your day to look at  
22 it?  
23 A. Absolutely.  
24 Q. What does he have to report to you for it to be  
25 important enough for you to take 20 minutes to look

1 at the film?

2 A. Well, you know, again, we're getting into kind of  
3 absurd theoretical discussions here.

4 Perhaps since what you're most interested in is  
5 whether I believe that Dr. Husan complied with the  
6 standard of care, I'd be happy to tell you at each  
7 step of the way here whether I believe it was  
8 incumbent upon Dr. Husari to look at any particular  
9 chest film.

10 Q. Well, let's see if we can cut to the chase  
11 It's your belief in this case that it was never  
12 Dr. Husan's obligation to look at any of these  
13 films?

14 A. Based on the fact that every abnormality that is  
15 potentially -- let me restate that. Every finding  
16 that potentially represents an abnormality is so  
17 conscientiously followed up with serial films all  
18 along the course of this patient's treatment, and  
19 in each instance, these films normalize such that  
20 there is no enduring abnormality identified by the  
21 radiologist.

22 Given that fact, there is no instance in this  
23 chronology where Dr. Husan deviated from the  
24 standard of care in not looking at those films.

25 Q. Did there come a time when the cancer diagnosis was

- 1 made in this case, Doctor?
- 2 A. You're asking when the actual diagnosis of cancer
- 3 was made here?
- 4 Q. Sure.
- 5 A. Yes.
- 6 In April of 1998, a discreet mass for the first
- 7 time is identified on the x-ray dated April 6. And
- 8 a CT scan is obtained three days later and confirms
- 9 the presence of this mass as we've discussed
- 10 earlier with mediastinal adenopathy.
- 11 Q. And is there something about a discreet mass that's
- 12 important?
- 13 A. Well, if this is what you're asking, the x-ray
- 14 report by the radiologist on April 6th, 1998,
- 15 clearly identified, unequivocally described this as
- 16 an abnormality in need of follow up. And at this
- 17 point in time, appropriate follow-up studies were
- 18 done which lead to the diagnosis.
- 19 Q. So in this particular case involving Mr. Cowan, Dr.
- 20 Husari, the managing pulmonologist, had no
- 21 obligation to do anything with the films until the
- 22 radiologist told him that it was time to do
- 23 something, is that right?
- 24 A. Well, until the radiologist identified an
- 25 abnormality that was clearly suggestive of

- 1 malignancy, I think that what Dr. Husari was
- 2 obligated to do was obtain follow-up films, which
- 3 he did with great care.
- 4 Q. So he had no obligation to do anything to work up
- 5 what was seen on the film until the radiologist
- 6 told him that that's what he should do.
- 7 Q. Well, the findings that were identified earlier on
- 8 were quite subtle. And in every instance, they
- 9 resolved over time.
- 10 So given that fact, there was no indication to
- 11 do anything else.
- 12 Q. Didn't the radiologist suggest to Dr. Husari
- 13 following the November 21st, 1995 film that a CT
- 14 scan be done?
- 15 A. Let me see. On that film, he identifies irregular
- 16 nodule in the left second anterior interspace,
- 17 recommend comparison film. If this is not --
- 18 comparison with prior films. If this is not
- 19 possible, CT scan of the chest is recommended.
- 20 So the very next day, Dr. Husari obtains a PA
- 21 and lateral. And, as recommended, it is compared
- 22 with the prior film. So this is precisely
- 23 following the recommendation of the radiologist.
- 24 And the report reads, "PA and lateral
- 25 projections compared with 3-30-95 demonstrate

- 1 chronic interstitial changes but no acute
- 2 infiltrates or effusions. No interval changes seen
- 3 when compared to the prior study. The previously
- 4 suspected left upper lung infiltrate is now less
- 5 well seen and may be obscured by overlying rib
- 6 shadows. If further evaluation is deemed
- 7 clinically necessary for the assessment of any left
- 8 upper lung lesion, apical lordotic film may be of
- 9 benefit, fluoroscopy, CT, et cetera."
- 10 And then in follow up of this, a few weeks
- 11 later, Dr. Husari orders yet another chest x-ray
- 12 which describes an ill-defined area of increased
- 13 density in the left upper lung essentially
- 14 unchanged from the prior films dating all the way
- 15 back to September of 1994.
- 16 And the radiologist then concludes this is, in
- 17 all likelihood, fibrosis. No acute changes,
- 18 chronic changes, as described. So here again,
- 19 there's a questionable abnormality and very careful
- 20 follow up with two serial films.
- 21 Q. Isn't the recommendation of 11-22-95 to do apical
- 22 lordotic films, a chest fluoroscopy, or CT?
- 23 Isn't that what the radiologists suggest Dr.
- 24 Husari do?
- 25 A. Well, he says, if further evaluation is deemed

- 1 clinically necessary. And I would assume that, if
- 2 the patient were symptomatic, that would constitute
- 3 clinical necessity.
- 4 But for an asymptomatic patient, where this
- 5 film was compared and shows no interval change
- 6 compared to the prior study, I think that's
- 7 sufficient.
- 8 Q. Doctor, the truth of the matter is, on the November
- 9 21st, 1995 film, the radiologist suggested a CT
- 10 scan, right?
- 11 A. Well, his first recommendation is comparison to
- 12 prior films. And only if this is not possible is a
- 13 CT scan recommended.
- 14 Q. Did Dr. Husari do that?
- 15 Did Dr. Husari follow the radiologist's
- 16 recommendation, get the prior films and compare
- 17 them?
- 18 A. The recommendation is not specifically that Dr.
- 19 Husari do this, but that this be done.
- 20 And the answer to your question is yes.
- 21 Because, on 11-22-95, that x-ray is compared with
- 22 the 3-30-95 films. So yes, the recommendation of
- 23 the radiologist is carried out precisely.
- 24 Q. But it just wasn't done by Dr. Husari, it was done
- 25 by someone else?

1 A. It was done by someone better than Dr. Husari,  
2 because Dr. Husari is not a radiologist.  
3 Q. And then when the comparison of the films is done,  
4 that somebody better than Dr. Husari recommends  
5 that apical lordotic films, CT scan, or chest  
6 fluoroscopy be done, right?  
7 A. Well, no, that's not true.  
8 Q. No? Okay.  
9 A. That expert says no interval changes seen when  
10 compared to the prior study. The previously  
11 suspected left upper lung infiltrate is now less  
12 well seen.  
13 So cancer doesn't go away. And he says, "If  
14 further evaluation is deemed clinically  
15 necessary," that's what he says. And to my  
16 knowledge, this patient was asymptomatic and  
17 therefore didn't have clinical indications to  
18 obtain further studies.  
19 So again, I believe that he follows the letter  
20 of the recommendation.  
21 Q. What are the clinical symptoms of a stage 1  
22 non-small cell lung cancer?  
23 A. Well, a patient with stage 1 disease, depending  
24 upon the location, a 2.8 or two and a half  
25 centimeter tumor could cause airway obstruction,

1 could cause chronic cough, could cause a  
2 post-obstructive pneumonia, could cause  
3 hemoptysis. Those are all possible in association  
4 with a stage 1.  
5 Q. Was this a 2.8 or 2.5 lesion in November of '95,  
6 Doctor?  
7 A. Oh, even a smaller lesion could potentially cause  
8 cough or hemoptysis.  
9 Q. Isn't the truth that most stage 1 non-small cell  
10 lung carcinomas are asymptomatic?  
11 A. That's usually the case. Not always, but that's  
12 usually the case.  
13 Q. And there is nothing on the interpretation of the  
14 radiologists in November of 1995 or thereafter that  
15 rules out non-small cell lung carcinoma as the  
16 cause of what they're seeing on those films, isn't  
17 that right?  
18 A. You know, again, you're using what we call a  
19 retrospectoscope in medicine, which is to say it's  
20 very easy to look back and say, what about this,  
21 and what about that, and why didn't you do this.  
22 In fact, in the course of taking care of  
23 patients day to day, and in the course of looking  
24 at little details on the x-rays of patients who are  
25 smokers, when following a multitude of patients

1 with these symptoms, you have to have sufficient  
2 abnormality over time to justify invasive or  
3 extensive work ups.  
4 And again, in the real world, it's unfair to  
5 look back with this approach and this perspective  
6 and criticize Dr. Husari.  
7 The number of x-rays that he got was indicative  
8 of how cautious he was in following this patient.  
9 And in every instance, the questionable abnormality  
10 that was identified improved or resolved before he  
11 let go of it.  
12 Q. Well, that's not my question.  
13 My question is, Doctor, is there anything in  
14 the interpretations of the November 21st or  
15 November 22nd, 1995 films that rules out non-small  
16 cell lung cancer as the explanation for that  
17 lesion?  
18 We don't need to have a retrospectoscope to  
19 answer that question. Do you see anything that  
20 rules it out?  
21 A. Well, the fact that it is not well seen and the  
22 fact that the subsequent x-ray done 12 months later  
23 is also read as normal is very powerful in telling  
24 us that it is unlikely that there was an  
25 abnormality that was diagnosable at that point on

1 chest x-ray.  
2 Q. You're the one that's using the retrospectoscope,  
3 aren't you, Doctor? You're the one that's looking  
4 at the next film. I'm not asking you about '96.  
5 I'm asking you about '95.  
6 A. So you want to know whether there is anything here  
7 that absolutely rules out lung cancer?  
8 Q. That's what I want to know.  
9 A. You could ask me that question about even; x-ray  
10 that was ever done on this patient, and the answer  
11 would be the same. No.  
12 Q. Nothing on any of these films ever rules out lung  
13 cancer as the explanation for the irregularity  
14 described, is that right?  
15 A. You know, the fact that the irregularity continues  
16 to improve or resolve in these series of films  
17 grouped together as we've discussed them, the 11-95  
18 to 11 -- excuse me, 11-21-95 and then 12-96 -- this  
19 is, again, in the real world, in the functioning of  
20 a clinician evaluating a patient, there is  
21 insufficient evidence of malignancy to have  
22 required further testing.  
23 Q. In your opinion?  
24 A. Correct.  
25 Q. Do you have an opinion as to what a CT scan would

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1 have shown had it been done in November of 1995?

2 A. I think it's impossible to know.

3 Q. Do you have an opinion as to what chest fluoroscopy

4 would have shown had it been done in 1995?

5 A. Likewise, there's no way to know that.

6 Q. Or what an apical lordotic film would have shown in

7 1995? -- --

8 A. The same response.

9 Q. But we do know that, in April of -- I'm sorry, in

10 November of 1995, it is your opinion, more likely

11 than not, there was a cancer already present in

12 this gentleman's lung, right?

13 A. Correct, though not necessarily radiographically

14 detectable.

15 Q. So the only question is -- it was there. The only

16 question is, would a CT scan, would chest

17 fluoroscopy, or would have an apical lordotic film

18 picked it up had it been ordered?

19 A. Correct.

20 And then if it had been picked up, would it

21 have made any difference? I need to cite, for

22 instance, all of the studies that have looked at

23 the efficacy of screening chest x-rays in smokers

24 to improve survival. I don't know if you're

25 familiar with this literature.

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1 Q. I'm very familiar with it.

2 A. Basically what these studies show is that you can

3 do x-rays every six months or every year in a

4 smoker to try to pick up a cancer when it's

5 smaller. And even when you do this, the outcome of

6 that patient is not improved.

7 And the reason for that is most likely

8 because microscopic metastatic disease has occurred

9 early.

10 Q. Well, the counterpart to that, Doctor, and we've

11 already agreed that, if the diagnosis is made as a

12 stage 1A cancer, the likelihood is that the patient

13 is going to survive, right?

14 A. Well, because you're not asking me to testify

15 regarding proximate cause, I don't know that we

16 need to get into that. But I think that your

17 conclusion isn't necessarily correct.

18 And the screening studies show that very

19 possibly, when you find a cancer earlier, all

20 you're doing is introducing what we call a lead

21 time. But, in fact, you're not impacting that

22 patient's outcome.

23 Q. Doctor, I'm taking the survival figures from your

24 own handwriting on your own note.

25 A. That's correct.

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1 Q. And your survival statistics in your handwriting on

2 your note are, more likely than not, these people

3 will survive five years or more and be cured if the

4 diagnosis is made at stage 1A.

5 A. That's right.

6 Q. And you and I agree -- we can't agree whether the

7 AP -- or whether a CT scan or fluoroscopy or

8 anything else would have been diagnostic in '95,

9 but we can agree that, if it was diagnostic in '95,

10 this would have been a stage 1A cancer, wouldn't

11 it?

12 A. You know, I follow your reasoning, and you're

13 raising what is a classic paradox in the natural

14 history of lung cancer, which is to say that both

15 are true.

16 And if you're going to present this, for

17 instance, to a jury, or to any group of people who

18 need to learn about this, to be fair, both pieces

19 of data need to be presented.

20 On the one hand, it is true that an earlier

21 stage at diagnosis is associated, in general, with

22 an improvement in outcome. It's also true that,

23 when you do chest x-rays earlier and earlier in

24 time for patients with lung cancer, those earlier

25 x-rays don't seem to improve their survival. And

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1 it is a paradox.

2 Q. Let's look at your experience, Doctor.

3 In your experience, you've told me, when you

4 get a stage 1 or stage 2 cancer, as part of the

5 team approach, that patient is treated surgically,

6 is that right?

7 A. That's correct.

8 Q. In your experience, have you kept track of

9 mortality in your own patients who have undergone

10 resection for stage 1A cancer?

11 A. I don't have specific data from our institution

12 regarding stage 1A patients. My opinions are

13 reflective of a larger body of experience.

14 Q. I'm talking about your personal experience.

15 You've told me that you have personal

16 experience in this regard, right?

17 A. In order -- yes. Although, you know, if you

18 understand statistics, it's much more powerful to

19 conclude what the survival is for a particular

20 stage with a larger denominator.

21 Therefore, my opinion regarding five-year

22 survival statistics for lung cancer is not derived

23 from my own experience at a single institution, but

24 rather from larger numbers of patients.

25 Q. And I know what the statistics are from the

<p style="text-align: right;">86</p> <p>1 Memorial Sloan-Kettering trials, from the Mayo  2 Clinic trials, from the National Lung Cancer Study  3 Group trials, which are the largest groups, I think  4 you'll agree.  5 But let's put that aside, because apparently  6 you're questioning that. I'm asking you, sir, what  7 is your personal-experience?  8 A. You're asking whether I have data regarding the  9 specific survivals by stage at our institution?  10 Q. Just for stage 1A.  11 A. I don't have those from our own institution.  12 Q. How about for your own patients?  13 A. Again, I don't collect those for my own patients.  14 Q. And you have no recollection as to what they would  15 be just by treating your patients?  16 A. It would not be a statistically valid opinion to  17 tell you, oh, I remember John Smith, and he lived  18 for four years. I mean, that would not be valuable  19 information.  20 Q. Let's see if we can just get a couple other areas  21 of agreement.  22 We know that, at some point between 1995 and  23 1998, Mr. Cowan's cancer went from being surgically  24 curable to being surgically not curable, more  25 likely than not, am I right?</p>	<p style="text-align: right;">88</p> <p>1 patients?  2 A. Yes.  3 Q. Can we agree that the reason that you order those  4 tests is to see whether they will reveal additional  5 information that may be helpful to you in  6 determining whether the patient's lesion, as  7 visible on plain film, is neoplastic or  8 nonneoplastic?  9 A. That's correct.  10 And it's generally done upon recommendation of  11 the radiologist.  12 Q. And when the radiologist recommends it, you do it,  13 don't you?  14 A. Generally.  15 Q. All right.  16 When the radiologist recommends it, is it your  17 obligation by virtue of the standard of care to  18 obtain a CT scan?  19 A. I think it depends upon the clarity with which it's  20 recommended by the radiologist.  21 If the radiologist says, there's a mass on  22 chest x-ray, you must follow this up with a CT, I  23 think that the standard of care would dictate that  24 that scan should be done.  25 Q. But if he says if it's clinically necessary, that's</p>
<p style="text-align: right;">87</p> <p>1 A. Well, if I remember correctly regarding my  2 testimony earlier this evening, I think that I  3 declined to speculate what his stage would have  4 been in 1995.  5 And I think that I, therefore, declined to say  6 anything other than the fact that patients with  7 stage 1A disease, in general, have a greater than  8 50 percent likelihood of surgical cure.  9 Q. Doctor, in your practice, do you ever do any of the  10 things that were recommended to Dr. Husan in this  11 case, i.e. chest fluoroscopy?  12 A. Depending upon the situation, that may be done.  13 Q. You have ordered chest fluoroscopy in your  14 practice?  15 A. Yes.  16 These days, we use that far less than CAT  17 scans, but yes.  18 Q. Have you ordered apical lordotic films in  19 your practice?  20 A. Yes.  21 Q. In your practice, have you ordered CT scans?  22 A. Yes.  23 Q. And Doctor, in your practice, have you ever ordered  24 one of those tests that then leads to the  25 ultimate diagnosis of cancer in one of your</p>	<p style="text-align: right;">89</p> <p>1 a loop hole, and you don't have to do it, is that  2 how it works?  3 A. I wouldn't identify that as a loop hole.  4 I would read the radiologist's words. And if  5 there are clinical signs or symptoms that, in my  6 judgment, render that appropriate, I would do it.  7 But that's a different statement than, CT or  8 fluoroscopy is necessary in this patient.  9 Q. Even though you know and I know that, in most  10 cases, stage 1A cancer doesn't have any clinical  11 symptoms, right?  12 A. Well, I think by clinical it means in view of the  13 larger picture of this patient.  14 Radiologists don't know very much about the  15 patient except what they see on the film. And so,  16 you know, you asked a while ago, what do I do, or  17 what does the pulmonologist do that is different  18 from the radiologist. He or she will consider the  19 larger picture.  20 Q. It's their obligation to consider the larger  21 picture, isn't it?  22 A. I think so, yes.  23 Q. So you and I can agree that the standard of care  24 for the pulmonologist in this case is to consider  25 the larger picture over and above what the</p>

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1 individual films may or may not show, isn't that  
 2 right?  
 3 A. I **think** that's true.  
 4 You know, your use of the word "larger picture"  
 5 is probably one that you're going to **define** in a  
 6 particular way, and so I would answer that with  
 7 caution.- -  
 8 Q. I thought I was using your term.  
 9 Didn't you use "larger picture" originally?  
 10 A. Yes, but I **think** it's possible you may be using it  
 11 in a slightly different way than I am. I have a  
 12 sneaking suspicion that might be the case.  
 13 Q. Why don't you tell me how you're using it?  
 14 A. I don't have any definition for that.  
 15 Q. I'm a pretty easy guy to figure out.  
 16 A. So am I.  
 17 Q. Why don't you tell me how you're using "larger  
 18 picture?"  
 19 A. I don't have any particular definition for that.  
 20 Q. Neither do I.  
 21 A. Okay.  
 22 MR. DJORDJEVIC: Can we agree  
 23 on that?  
 24 MR. BROOKS: Yeah, we can  
 25 agree on it.

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1 BY MR. DJORDJEVIC:  
 2 Q. You and I can agree that, in the way you practice  
 3 medicine, you sometimes order CT scans, and those  
 4 CT scans are helpful in either ruling out or ruling  
 5 in non-small cell cancer, right?  
 6 A. That's true.  
 7 Q. And your goal, presumably, in doing that is to  
 8 either rule it in or rule it out before it goes  
 9 from stage 1 to stage 2, from stage 2 to stage 3,  
 10 right?  
 11 A. Correct.  
 12 Q. Because you know and I h o w , if you can rule it in  
 13 while it's still stage 1, you might very well save  
 14 this patient's life, right?  
 15 A. Yes, although you can't do CAT scans on every  
 16 patient.  
 17 Q. No, you can't. But when it's indicated, and when  
 18 it's discussed by the radiologist, you and I can  
 19 agree that there was no reason why Dr. Husari  
 20 couldn't have done a CAT scan in November of  
 21 1995?  
 22 A. I fail to see where the radiologist specifically  
 23 told Dr. Husari to get the CAT scan.  
 24 Q. I'm going to grant you, he doesn't specifically,  
 25 "Get the CAT scan," all right? I'm using a little

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1 judgment here. He says, if it's clinically  
 2 indicated, get a CAT scan, right?  
 3 A. What he says is very mild. He says, if -- this is  
 4 very mild. "If further evaluation is deemed  
 5 clinically necessary for the assessment of any left  
 6 lung lesion, apical lordotic films may be of  
 7 benefit."  
 8 This is a very mild statement, very different,  
 9 in my mind, from, "There's an abnormality here, get  
 10 a CAT scan."  
 11 Q. Doctor, let's agree, you're not a technician, and  
 12 Dr. Husari isn't a technician, is he?  
 13 You don't simply wait around and have the  
 14 radiologist tell you what to do, do you?  
 15 A. As I said before, I rely heavily on the  
 16 interpretation of the radiologist and the  
 17 recommendation of the radiologist regarding other  
 18 studies.  
 19 Q. And ultimately you decide, as Dr. Husari presumably  
 20 did in this case, as to whether or not additional  
 21 study was indicated, isn't that right?  
 22 A. Well, I have to rely on the radiologist. I don't  
 23 believe that, with subtleties such as interpreting  
 24 changes in a vague infiltrate or nodule over time,  
 25 that I have, or that Dr. Husari as a pulmonologist

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1 has the expertise to make that judgment.  
 2 Q. So was the radiologist, you think, wrong, in  
 3 saying, "If further evaluation is deemed clinically  
 4 necessary?" Should the radiologist know, gees,  
 5 this doctor doesn't have the clinical judgment to  
 6 make that determination?  
 7 A. *Your* question is --  
 8 Q. Yeah, I mean, h e a pulmonologist have the level  
 9 of expertise to answer the question posed by the  
 10 radiologist, if further evaluation is deemed  
 11 clinically necessary?  
 12 A. It appears that, in this situation, as of 11-22-95,  
 13 it was Dr. Husari's judgment that there was not  
 14 enough clinical indication to obtain additional  
 15 tests.  
 16 Q. So in other words, Dr. Husari had to sit down on  
 17 about 11-22-95 and think about it, should I order  
 18 more tests or shouldn't I order more tests,  
 19 right?  
 20 A. And in view of the fact that the radiologist did  
 21 not specifically suggest that it was necessary, I  
 22 don't *think* we can fault Dr. Husari, except by  
 23 unfairly judging him in retrospect.  
 24 Q. Let's take it one step at a time.  
 25 Dr. Husari was obligated to sit down at or



1 around 11-22-95 and think about it, can we agree  
 2 he had **an** obligation to sit down and think about  
 3 it?  
 4 A. I think that's fair.  
 5 Q. Should I order additional studies or shouldn't I,  
 6 is that fair?  
 7 A. Yes. --  
 8 Q. **Can** we agree that the standard of care required  
 9 that, on or about November the 22nd, 1995, Dr.  
 10 Husari think about what to do in his patient?  
 11 A. That he read the radiologist's interpretation and  
 12 then decide on his own how he should proceed based  
 13 on that information?  
 14 Q. Let's go through what would be the pros of ordering  
 15 additional studies.  
 16 A. You know, I wasn't -- I can't put myself in Dr.  
 17 Husari's shoes at that point in time. I don't have  
 18 very much information about this patient at that  
 19 point in time. I can't answer that question.  
 20 Q. Well, let me ask you this, let me ask you if we can  
 21 agree that one of the potential pros of ordering  
 22 more tests at that time would be, maybe this is a  
 23 stage 1, non-small cell lung cancer, and maybe, if  
 24 I order a CT scan, I'll be able to diagnose it  
 25 before this is a dead man.

1 Is that one of the potential pros here?  
 2 A. Again, you're being unfair by looking at this  
 3 retrospectively. You put up the x-rays of patients  
 3 who have chronic obstructive pulmonary disease and  
 5 who are smokers, and they're all going to have  
 6 abnormalities on them.  
 7 And you can't go and CAT scan and biopsy all  
 8 these patients. Again: it's only in retrospect  
 9 that you can pursue this line of reasoning, which  
 10 is highly unfair.  
 11 Q. Well, Doctor, I don't see the recommendations or  
 12 the mentions of apical lordotic films, chest  
 13 fluoroscopy, or CT scan on any of the previous  
 14 films, do you?  
 15 A. Well, I don't see here that he specifically  
 16 recommends that he obtain these tests.  
 17 Q. Okay, we can go around in circles on this.  
 18 Can you and I agree that a potential benefit of  
 19 ordering a CT scan in November of 1995 is, if this  
 20 gentleman has a cancer, maybe we can diagnose it  
 21 early when it's still stage 1?  
 22 Can we agree that's a potential benefit?  
 23 A. Right. And I think there's a potential benefit to  
 24 getting CAT scans on all smokers twice a year.  
 25 It's a similar line -- I'm not being flippant.

1 It's a similar line of reasoning.  
 2 Q. I don't expect that you are.  
 3 What's the down side? What is the con to  
 4 ordering a CT scan for this particular patient in  
 5 November of 1995?  
 6 Is it dangerous to the patient?  
 7 A. You know, again, I would hazard a guess that, in a  
 8 pulmonary practice, caring for patients with  
 9 chronic obstructive pulmonary disease, that almost  
 10 every patient has abnormalities on chest x-ray.  
 11 And one simply cannot obtain CAT scans on all those  
 12 patients. The problem in doing that is identifying  
 13 an endless number of nodules that one then doesn't  
 14 know what to do with.  
 15 For instance, as I said earlier, 25 percent of  
 16 patients who are smokers have nodules on their CAT  
 17 scan.  
 18 **MR. LOUCAS:** What was the  
 19 question? Could you read the question back,  
 20 please?  
 21 (Thereupon, the record was read.)  
 22 A. Right, and I believe I'm **trying** to answer that  
 23 We have CAT scan technology. We have PET  
 24 scans. We have MRI scans. We have colonoscopies.  
 25 We have all kinds of diagnostic tests available.

1 And you could make a case that every person over  
 2 the age of 40 in this country should have all of  
 3 these tests done, because, in fact, any patient  
 4 that develops a pancreatic cancer, you could go  
 5 back and say, what does it cost to do an abdominal  
 6 CT scan? How can you defend not having done that  
 7 abdominal CAT scan in that patient for just a few  
 8 hundred dollars? Wouldn't that have saved that  
 9 patient's life?  
 10 It's an absurd argument. And you have to  
 11 consider issues of standard of care and scientific  
 12 data that indicate the efficacy of these studies as  
 13 a screening procedure.  
 14 Q. Is there any study that you're aware of CT scan  
 15 following recommendation or following recognition  
 16 of an abnormality on plain chest film as being  
 17 inefficient in diagnosing -- or being not  
 18 cost-effective in diagnosing chest cancer?  
 19 A. Well, we have to use CAT scans judiciously based  
 20 upon the recommendations of our radiology  
 21 colleagues.  
 22 **MR. DJORDJEVIC:** Let's take a  
 23 real quick break.  
 24 (Thereupon, Mr. Djordjevic left the deposition, and  
 25 Mr. Loucas resumed questioning.)

## CROSS-EXAMINATION

1 BY MR. LOUCAS:

2 Q. Doctor, we've been introduced. My name is George  
3 Loucas. I'm going to continue briefly.

4 I heard you reference -- well, would you agree  
5 with me that, if a patient presents with two -- I'm  
6 sorry, if a patient presents with signs, symptoms,  
7 or findings on a laboratory test which may be  
8 consistent with two different disease states, which  
9 one of which may be life-threatening, there is a  
10 duty or responsibility on the part of the physician  
11 to rule out the life-threatening condition?

12 A. Well, I think that's a potentially very misleading  
13 statement that, of course, is germane to the  
14 details here.

15 As I have stated several times this evening,  
16 there are lots of little nodules on any chest x-ray  
17 of any patient with chronic obstructive pulmonary  
18 disease. And you could, with your  
19 retrospectoscope, when one of those nodules out of  
20 200 turns into cancer --

21 Q. May I interject, Doctor?

22 MR. BROOKS: Let him answer  
23 the question.

24 MR. LOUCAS: I want to get  
25

1 A. As I said, your question is an attempt to trap me  
2 into making a statement that would undermine my  
3 standard of care opinion regarding Dr. Husari.

4 Q. It's not an attempt to do anything, Doctor.

5 If I come to you with chest pains, you're going  
6 to tell me I've got gastritis, or are you going to  
7 make sure that I don't have a heart attack before I  
8 walk out your door and drop over dead? That's all  
9 I'm asking you. Same principle.

10 A. Let's use your example of chest pain, then.

11 If a patient comes to me with chest pain, I  
12 need to make a determination whether that chest  
13 pain is cardiac, since cardiac chest pain is  
14 potentially lethal.

15 I need to make a decision whether that patient  
16 has a dissecting aortic aneurysm, whether that  
17 patient has a cancer in his or her chest. It is  
18 not incumbent upon me to pursue every potential  
19 component of the differential diagnosis on every  
20 patient who comes to me with chest pain. That  
21 patient would never get out of the office for all  
22 the tests that he would have.

23 Q. And one of the things you're going to do to  
24 determine if it's lethal or not is consider risk  
25 factors in our little scenario of chest pain,

1 out of here. Generally speaking. I'm not  
2 talking about this.

3 A. Please let me finish.

4 You could look with your retrospectoscope at  
5 that nodule that has turned into cancer and say.  
6 just as you did now, well, wasn't it possible that  
7 that nodule was a benign granuloma, but wasn't it  
8 possible that it was a cancer? And therefore, in  
9 direct response to your question, cancer was one of  
10 the two possibilities, and was it incumbent upon  
11 that physician to pursue that? Of course not.

12 Q. So, no, if a patient presents with a sign, symptom,  
13 or laboratory finding which may be consistent with  
14 two different disease states, one of which is  
15 life-threatening, there is no duty on the part of  
16 the physician to rule out the life-threatening  
17 condition?

18 That's what you just said, correct?

19 A. I think that your question is extremely misleading,  
20 whether one answers it in the affirmative or in the  
21 negative. It's a distortion.

22 Q. Okay.

23 That's the entire principle behind a  
24 differential diagnosis, isn't it, what I just  
25 said?

1 wouldn't you, Doctor? Or are you going to deny  
2 that, too, today?

3 A. Sir, I don't appreciate your sarcasm. That's not  
4 the tone that your colleague used in the deposition  
5 earlier this evening, and I'd prefer that we  
6 conduct this in a different manner.

7 Q. I'm not my colleague, so please answer the  
8 question.

9 You are here to answer my questions.

10 THE WITNESS: Please repeat  
11 the question.

12 (Thereupon, the record was read.)

13 A. As I said, when a patient presents -- as I think  
14 we're talking about a theoretical arena rather than  
15 the specifics of this case.

16 When a patient presents with any particular  
17 sign or symptom, there's generally an extensive  
18 differential diagnosis that's associated with that.  
19 And I think that it would be overly rigid and, in  
20 fact, absurd, to say that the standard of care  
21 would dictate that a physician would have to pursue  
22 every component of that differential diagnosis each  
23 time a patient presents with a particular  
24 complaint.

25 Q. So my question was, would you consider risk factors

1 in the patient who presents to you with chest pain  
 2 when you're trying to work up whether he's got a  
 3 dissecting aneurysm or if it's cardiac origin, et  
 4 cetera?  
 5 A. Well, I think that I would consider a whole array  
 6 of factors, including physical examination,  
 7 history, family history. A great many issues would  
 8 be considered.  
 9 Q. And how about risk factors? Just answer the  
 10 question, please.  
 11 A. What do you mean by risk factors?  
 12 Q. Do you even know what risk factors are if  
 13 somebody presents with chest pain of cardiac  
 14 origin?  
 15 A. Of course there are several risk factors associated  
 16 with chest pain as there are risk factors  
 17 associated with lung cancer.  
 18 Q. Coronary artery disease, what are the risk factors,  
 19 Doctor, so you can tell me whether or not that is  
 20 something you would consider with a patient who  
 21 presents to you with chest pain?  
 22 A. I'm afraid I don't understand what your question  
 23 is.  
 24 Q. It's very simple.  
 25 MR. BROOKS: Excuse me, I'm

1 going to object. You're asking a chest  
 2 oncologist about coronary artery disease.  
 3 I'm not sure we're even in the right  
 4 analogies. If we can give a better analogy,  
 5 you may get a better answer.  
 6 MR. LOUCAS: I'm sorry,  
 7 this is a man who has testified he's  
 8 qualified in internal medicine, he can come  
 9 in here and give opinions on standard of  
 10 care of pulmonologists, that I am now  
 11 inquiring as to what this gentleman's  
 12 knowledge is on risk factors.  
 13 MR. BROOKS: On coronary  
 14 artery disease.  
 15 BY MR. LOUCAS:  
 16 Q. Risk factors for patients who present with chest  
 17 pain.  
 18 Do you consider risk factors in the  
 19 differential diagnosis, for instance, of patients  
 20 who present with chest pain?  
 21 MR. LOUCAS: And the reason  
 22 I'm asking is, all I want to know is if this  
 23 man ever uses the concept of differential  
 24 diagnosis in working up his patients. I  
 25 want to know if he uses risk factors. It's

1 a very simple question. I don't think he  
 2 wants to answer it.  
 3 MR. BROOKS: So the  
 4 question, excuse me, is, "Dr. Levitan, do  
 5 you ever use risk factors in working up  
 6 diagnoses on patients?" Is that the  
 7 question?  
 8 MR. LOUCAS: Let's try that  
 9 one. He'll answer yours, I'm sure.  
 10 A. That's the question? The answer is, of course.  
 11 Q. Okay. Let's talk about Dennis Cowan. Can we do  
 12 that?  
 13 A. Ofcourse.  
 14 Q. Thank you.  
 15 As of September, 1994--  
 16 THE WITNESS: Excuse me,  
 17 your name is -- what's your last name?  
 18 MR. BROOKS: George Loucas.  
 19 THE WITNESS: Mr. Loucas,  
 20 I've been deposed a number of times over the  
 21 years, and let me just go on record as  
 22 saying, every attorney who has ever deposed  
 23 me has been a gentleman. And your tone and  
 24 demeanor I find offensive and are  
 25 unprecedented, in my experience.

1 MR. LOUCAS: And please, I  
 2 don't want to take myself down to your  
 3 level, or I would give you my opinion of  
 4 what I think of you.  
 5 MR. BROOKS: Wait, George.  
 6 This isn't being productive at all.  
 7 MS. LOUCAS: Let's go  
 8 forward with the questions.  
 9 MR. BROOKS: West Virginia  
 10 has a code of civility, too, George. You  
 11 may want to read it.  
 12 MS. LOUCAS: Let's go on  
 13 with the examination. We're all tired.  
 14 We're only days away from trial. This has  
 15 gone on too long, so let's just get our  
 16 questions in.  
 17 BY MR. LOUCAS:  
 18 Q. As of September 23, 1993, until the abnormality in  
 19 the left upper lobe of Dennis Cowan was found, may  
 20 we agree it was an incidental finding on the  
 21 x-ray?  
 22 MR. BROOKS: September of  
 23 '94, George?  
 24 MR. LOUCAS: Yes.  
 25 THE WITNESS: You know, I'd

1 actually like to take a break for about two  
 2 or three minutes, if we could.  
 3 MR. BROOKS: Okay.  
 4 THE WITNESS: Thank you.  
 5 (Thereupon, a short recess was taken.)  
 6 BY MR. LOUCAS:  
 7 Q. Doctor; I'm going to take your attention, please,  
 8 back to September 23 of 1994.  
 9 May we agree that the left upper lobe  
 10 abnormality as found on the x-ray ~~was an~~ incidental  
 11 finding?  
 12 A. Mr. Loucas, I'm not sure what you mean by an  
 13 incidental finding. We know that multiple serial  
 14 x-rays were obtained thereafter, and the small area  
 15 of increased density identified on the 9-23-94 scan  
 16 seems to go away.  
 17 Q. Do you know why the x-ray was taken September 23,  
 18 '94?  
 19 A. The patient had a productive cough, symptoms of  
 20 pneumonia, so it was done to rule out pneumonia.  
 21 Q. All right.  
 22 March of 1995, Doctor, the left upper lobe  
 23 abnormality re-appears, is that a fair statement?  
 24 A. Well, on March 28th, 1995, an abnormality is seen  
 25 in the left upper lobe peripherally. We don't know

1 that it's the same exact area or that it is the  
 2 same etiology. But there is another abnormality  
 3 seen within the left upper lobe.  
 4 Q. Have you ever made a determination, in reviewing  
 5 the records in this case and based upon your  
 6 knowledge and experience, many years of training,  
 7 as to whether or not the left upper lobe  
 8 abnormality found September 23 of '94 was the same,  
 9 in fact, on April 4 of 1998?  
 10 A. I can't be sure of that either way.  
 11 Q. The left upper lobe abnormality, may we agree there  
 12 was one identified on several occasions throughout  
 13 that time period between September of '94 through  
 14 April of 1998?  
 15 A. Yes, there are several abnormal findings that come  
 16 and go in the left upper lobe.  
 17 Q. Did you ever arrive at an opinion as to what that  
 18 abnormality was in Dennis Cowan?  
 19 A. Well, as I said a minute ago, in retrospect, one or  
 20 more of these prior films probably, or at least  
 21 possibly, reflected the abnormality that we finally  
 22 see on 4-6-98 on the chest x-ray.  
 23 And we both know that the radiologist who  
 24 read the 4-6-98 film does say this has been present  
 25 on films dating back to 1995, but is more

1 prominent.  
 2 Q. You had mentioned on more than one occasion, I  
 3 noted earlier, that it resolved ~~more than~~ one time  
 4 during that time period.  
 5 Am I correct in paraphrasing something to that  
 6 effect, that that's how your testimony went  
 7 earlier?  
 8 A. What I'm doing is putting myself in Dr. Husari's  
 9 shoes looking at the chronology of x-ray reports  
 10 that are available to him.  
 11 And on a couple of occasions, there was a  
 12 questionable abnormality. And then, with  
 13 appropriate follow up, that seems to go away, or at  
 14 the very least, to stabilize.  
 15 Q. And if it did not go away, what would the standard  
 16 of care have been?  
 17 A. Well, when we're diagnosing lung cancer based on  
 18 abnormalities on x-ray, a lesion which either  
 19 resolves or fails to grow is one that we tend not  
 20 to pursue. Whereas one that persistently enlarges  
 21 over time is behaving like a malignancy. And those  
 22 are ones that we would work up with further  
 23 testing.  
 24 As we look at the series of x-rays here, the  
 25 radiologists look at multiple films over time. And

1 on several occasions they conclude that something  
 2 that was seen previously is really of no further  
 3 concern.  
 4 Q. Was cancer ever within the differential diagnosis  
 5 of Dennis Cowan, in your opinion, ever, with that  
 6 left upper lobe abnormality?  
 7 A. Well, we discussed this before, Mr. Loucas. There  
 8 is a very broad differential diagnosis for any  
 9 finding on chest x-ray. And it is only when an  
 10 abnormally appears to enlarge over time, that is a  
 11 subtle abnormality, or when something is an obvious  
 12 mass, that further work up is required.  
 13 Q. So when this left upper lobe abnormality first  
 14 presented -- and I'm not going to concede that it  
 15 first presented in September of '94, but I'm going  
 16 to assume for purposes of this question, if you  
 17 would agree with me and assume with me September of  
 18 '94 was the first appearance of this left upper  
 19 lobe abnormality, there was a duty on the part of  
 20 Dr. Husari or anybody else to consider cancer  
 21 within the differential diagnosis, is that your  
 22 testimony, sir?  
 23 A. You know, I feel like we've been over this many  
 24 times tonight. I feel like, with all due respect,  
 25 this is the same question that has been asked

1 before.  
 2 And in the real world, in view of the fact that  
 3 most of his patients with chronic obstructive  
 4 pulmonary disease had, we can assume, one or more  
 5 areas of scarring or nodular findings or granulomas  
 6 or something on the x-ray that could theoretically,  
 7 'over time, actually grow and ultimately turn out to  
 8 be a cancer, having said that, in the real world,  
 9 it's absurd to think that one is obligated to  
 10 follow up on every little nodule just because,  
 11 theoretically speaking, the differential diagnosis  
 12 includes cancer. You can't do that.  
 13 And to look back in retrospect, not at the data  
 14 available to the doctor at that time, not at the  
 15 environment in which the doctor practices, but to  
 16 say, there's a cancer in 1998. There was a little  
 17 ditzel in 1994. It's theoretically possible that  
 18 that could have been a cancer. Therefore, the  
 19 standard of care would dictate that he pursue that  
 20 with a CAT scan, that's ridiculous.  
 21 Q. Okay.  
 22 So there was no duty, then, to include cancer  
 23 within the differential in September of '94, is  
 24 that a fair statement? That's what you're telling  
 25 me?

1 A. No, I don't think that's what I said.  
 2 Q. Are you able to say whether or not cancer should  
 3 have been ruled out at all as a result of the  
 4 abnormality that arose in the left upper lobe in  
 5 September of '94?  
 6 And if so, how do you go about ruling it out?  
 7 That's all I really want to know  
 8 A. Right.  
 9 And the best way I can explain that to you is,  
 10 once again, to say that, strictly speaking, any  
 11 tiny nodule on any of these films that belong to  
 12 any of Dr. Husari's patients could include cancer  
 13 as a differential diagnosis. But by no means is  
 14 Dr. Husari required to get CAT scans on all of his  
 15 patients with a chronic obstructive pulmonary  
 16 disease just because, theoretically speaking, each  
 17 of those little ditzels could be cancer.  
 18 Q. So in this instance, the abnormality could have  
 19 been cancer, but it didn't rise to the level or  
 20 raise your index of suspicion enough to say it was  
 21 standard of care to rule out cancer, is that a fair  
 22 statement?  
 23 A. I think that is a fair statement.  
 24 Q. Okay.  
 25 Now, let's talk about risk factors for Dennis

1 Cowan. What risk factors did he have that would  
 2 increase the index of suspicion or the likelihood  
 3 that that may be cancer?  
 4 A. Well, probably, like almost every one of Dr.  
 5 Husari's patients, I would hazard a guess, he was  
 6 probably a smoker -- he was a smoker. And smokers  
 7 get chronic obstructive pulmonary disease, and  
 8 smoking is a risk factor for lung cancer.  
 9 Q. What are his other risk factors at that moment in  
 10 time, September of '94?  
 11 A. To my knowledge, that is his principal risk factor.  
 12 Q. Any others?  
 13 A. I don't know any details about his occupational  
 14 history, so I don't know whether he was exposed to  
 15 nickel, cadmium, asbestos, et cetera, etcetera.  
 16 So I would again say that, to my knowledge, smoking  
 17 was his principal risk factor.  
 18 Q. How about the frequency of smoking when he did  
 19 smoke, is that relative at all to increasing the  
 20 indicia or the likelihood of the risk factor that  
 21 it may be cancerous?  
 22 A. At this moment, I'm not recalling when and if he  
 23 quit smoking. Perhaps you could supply me with  
 24 that detail, and then I could answer your  
 25 question.

1 Q. That's all right, Doctor. I'm just testing your  
 2 knowledge of the facts in the case.  
 3 How about the frequency, that was my question?  
 4 Does that matter at all in evaluating a risk factor  
 5 for whether or not a first presenting abnormality  
 6 is cancerous or not?  
 7 A. I don't understand your question.  
 8 Q. I just want to know whether the frequency of  
 9 smoking is a risk factor in and of itself; you  
 10 know, whether you are a half pack a day or a pack a  
 11 day smoker?  
 12 A. To some extent? sure, There is a dose response  
 13 relationship between smoking and the risk of  
 14 developing lung cancer to some extent. It's not  
 15 linear, but people who do smoke more do have a  
 16 higher risk of developing lung cancer.  
 17 Q. Now, considering the risk factors for Dennis  
 18 Cowan, did that raise at all the index of suspicion  
 19 in the differential diagnosis that would cause one  
 20 to rule in or rule out cancer as of September of  
 21 '94?  
 22 A. Well, I think that I've answered that question.  
 23 Q. No, no, this is a new question.  
 24 Now that the risk factors have been identified,  
 25 does that change your opinions at all?

1 A. Well, as I said, in a pulmonary practice, dealing  
2 with chronic obstructive pulmonary disease, most of  
3 those patients are smokers. And most of those  
4 patients have abnormalities on their chest x-ray.

5 So, in fact, while it is certainly true that  
6 anyone who was a smoker is at a higher risk for  
7 developing lung cancer than one who is not,  
8 returning to the real world in which Dr. Husari is  
9 practicing where all these patients have  
10 abnormalities on their x-rays and all of these  
11 patients smoke, that's some hyperbole, of course.  
12 But the point is true. It doesn't help him very  
13 much.

14 And what he really has to do is rely on looking  
15 at serial chest x-rays and to use the principle  
16 that, if a nodule enlarges over time, that's reason  
17 to worry about cancer. Whereas, if it remains  
18 stable over a long period of time or seems to  
19 decrease in size or disappears, the likelihood of  
20 that being cancer is considerably less.

21 Q. Let's assume for a moment a hypothetical using what  
22 you said, the question of a benign granuloma or a  
23 carcinoma.

24 What are the diagnostic approaches to make that  
25 determination?

1 A. Well, I have prepared carefully for this  
2 deposition, Mr. Loucas. But I think this is not a  
3 memory test. This is really an inquiry into my  
4 professional opinion regarding this case. I didn't  
5 commit to memory every word of these requisitions.  
6 But if you'd hold on just a minute, I'm happy to  
7 answer this question by looking through the  
8 reports.

9 Q. I have a new question.

10 MR. BROOKS: Or you can  
11 withdraw it, because we all know how many he  
12 ordered and how many he didn't order.

13 MR. LOUCAS: You know, I  
14 know. She knows. I just wanted to know if  
15 the doctor knows.

16 BY MR. LOUCAS:

17 Q. Is it fair to say you do not know unless you  
18 refresh your recollection by going over the charts  
19 rightnow?

20 A. Your question is, Mr. Loucas, among the 18 chest  
21 x-rays ordered here, can I tell you exactly who  
22 ordered each one without looking at the report?

23 Q. No. I just asked you a new question, and that was,  
24 is it fair to say you don't know the number unless  
25 you now go through the medical record to refresh

1 A. Well, largely those that I just explained.

2 I mean, to some extent, the radiologist can  
3 help us make that determination based on certain  
4 radiographic features, and I defer to the  
5 radiologist in that regard.

6 And again, it's the issue of change over time.  
7 The value of looking at a series of films over time  
8 can't be overstated. And, in fact, the fact that  
9 Dr. Husari obtained so many follow-up films really  
10 points to how conscientious his care was. Because  
11 he believed, as do I, that it is that follow up  
12 over time that tells you when something needs to be  
13 pursued.

14 Q. How many films did Dr. Husari order'?

15 A. Well, we can count them up here. I'm going to --

16 MR. BROOKS: I would prefer  
17 you look at the requisitions.

18 A. Let's just go back to each of the films. It will  
19 take me a few minutes, but I'll be happy to do  
20 this.

21 Q. Is it fair to say, Doctor, that you don't know the  
22 answer to that unless you refresh your recollection  
23 by looking at the record? And let us then move on  
24 so we don't waste this time.

25 Is that a fair statement?

1 your recollection?

2 Is that a fair statement?

3 A. As I said --

4 Q. It's not a memory test, is that a fair statement?

5 A. As I said, there are 18 chest x-rays here. And in  
6 preparing for this deposition, it did not seem to  
7 me to be of sufficient importance to commit to  
8 memory who ordered each of those 18 chest x-rays.

9 Q. As you said, it was so important to follow up.

10 How often should follow up have been done as  
11 soon as the left upper lobe abnormality  
12 occurred?

13 A. Well, let's look at the chronology here. 8-25-91.  
14 the first abnormality is identified, and this is in  
15 the film read by Dr. Crossen --

16 Q. I'm sorry, Doctor, starting with the September of  
17 '94 left upper lobe abnormality.

18 Listen, I just want to make this short. I'm  
19 really not playing a game here at all.

20 A. I'm doing my very best to answer your questions.

21 Q. Please, Doctor, I want to know, first of all, what  
22 the diagnostic approaches were to determining  
23 whether a solitary lesion that appears in a left  
24 upper lobe is benign or cancerous.

25 You mentioned observing it over a period of

- 1 time with x-rays. Are you familiar with other  
2 approaches to make that determination?
- 3 A. Well, one could certainly do a needle biopsy, a  
4 bronchoscopy, a thoracoscopy, a thoracotomy, a  
5 fluoroscopy, a positron emission tomography, and  
6 others. There's a whole variety of modalities  
7 available to pursue an abnormality on chest x-ray,  
8 which, over time, exhibits features that are  
9 sufficiently worrisome to justify that kind of  
10 intervention.
- 11 Q. How about CT scan, is that one, also?
- 12 A. Yes, of course.
- 13 Q. With CT scan, you mentioned before radiologic  
14 features that you look at to determine a change  
15 over time.
- 16 What are those radiologic features in an  
17 abnormality of the left upper lobe?
- 18 A. Well, again, I rely on my radiology colleagues to  
19 interpret the film, interpret those radiographic  
20 features, and tell me when it's sufficiently  
21 worrisome.
- 22 But broadly speaking, progressive enlargement  
23 over the period of serial films rather than  
24 stability or resolution is what would lead me to be  
25 concerned.

- 1 Q. How about anything else, specifically with the  
2 architecture of the abnormality?
- 3 A. You know, those kinds of findings are ones that I  
4 rely on my radiology colleagues to discern.
- 5 Q. And are you familiar with what those architecture  
6 criteria are, though, in determining whether it's  
7 more consistent with benign or malignant?
- 8 A. Again, not being a radiologist. I rely on my  
9 radiology colleagues for that recommendation.
- 10 Q. I'm asking, as an internist who is here giving  
11 pulmonary testimony on standard of care today, what  
12 the architecture and those criteria are in  
13 determining whether it's more consistent with  
14 benign or cancerous, Doctor?
- 15 A. Well, certainly a nodule that is calcified is less  
16 likely to be malignant. One that is dense is more  
17 suggestive of malignancy as opposed to something of  
18 lower density. Something that is smooth and  
19 rounded is often less likely to be malignant. And  
20 there are other features.
- 21 But, again, I don't make these determinations  
22 myself. I utilize my radiology colleagues for that  
23 purpose.
- 24 Q. May we agree that a CT scan better helps one  
25 visualize those types of things that we just talked

- 1 about than simple x-ray?
- 2 A. Well, it might. But again, you can't get CAT scans  
3 on everybody. You have to really rely on your  
4 radiology colleagues to tell you which subset of  
5 patients has an abnormality on chest x-ray  
6 sufficiently worrisome to merit a CAT scan.
- 7 Q. Let's talk about those that do merit CAT scan.  
8 May we agree CAT scan is a better imaging  
9 source to help one look at the architecture of an  
10 abnormality in a lung than simple x-ray imaging?
- 11 Very general question.
- 12 A. Your question is --
- 13 MR. LOUCAS: Could you  
14 please read my question back?  
15 (Thereupon, the record was read.)
- 16 A. Yes.
- 17 Q. What is the best imaging source for visualizing a  
18 posterior left upper lobe abnormality?
- 19 A. Well, one can do a lordotic film, but if there's  
20 sufficient concern raised by the radiologist about  
21 that lesion or any other lesion, and the  
22 radiologist recommends CAT scan, a CAT scan is a  
23 better modality than any particular view of a plain  
24 chest x-ray.
- 25 Q. Other than the PA and the lateral, are there any

- 1 other x-ray views that you are familiar with that  
2 help one visualize more adequately the left  
3 upper lobe -- posterior left upper lobe  
4 abnormality?
- 5 A. You know, at our institution, we don't tend to use  
6 anything other than plain chest x-rays under most  
7 circumstances, and CAT scans.
- 8 In this day and age, our radiologists tend to  
9 use special views less often and to go to CXT  
10 scans. I'm not saying that is the only way to do  
11 it, but, in my experience, we seldom use those  
12 additional views.
- 13 Q. Do you have any opinions as to whether this was, in  
14 fact, a carcinoma more likely than not with Dennis  
15 Cowan?
- 16 A. I have no opinion in that regard.
- 17 Q. Do you presently have plans to testify in  
18 Clarksburg, West Virginia in this case?
- 19 A. Yes.
- 20 Q. And on what date will you be going? Have you made  
21 your travel arrangements?
- 22 A. Yes.
- 23 Q. What date?
- 24 A. Wednesday, October 4th.
- 25 MR. BROOKS: That's before

1 you told me you were going to take a week to  
 2 put your case on. And you represented to  
 3 the Court you would accommodate.  
 4 MR. LOUCAS: I have no  
 5 further questions, Doctor. **Thank** you.  
 6 MR. BROOKS: In light of  
 7 the ~~time~~ factor, I'm not certain we'll be  
 8 able to read and sign, so we'll waive  
 9 that.

10  
 11  
 12 (DEPOSITION CONCLUDED)

13  
 14 (SIGNATURE WAIVED)

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1 IN THE CIRCUIT COURT OF HARRISON COUNTY  
 2 WEST VIRGMIA  
 3 CERTIFICATE  
 3 I, MICHELLE R. HORDINSKI, a Registered  
 5 Merit Reporter and Notary Public within and for the State  
 6 of Ohio, duly commissioned and qualified, do hereby  
 7 certify that the within-named witness, NATHAN LEVITAN,  
 8 M.D., was by me first duly sworn to tell the truth, the  
 9 whole truth and nothing but the truth in the cause  
 10 aforesaid; that the testimony then given by him was  
 11 reduced to stenotypy in the presence of said witness, and  
 12 afterwards transcribed by me through the process of  
 13 computer-aided transcription, and that the foregoing is a  
 14 true and correct transcript of the testimony so given by  
 15 him as aforesaid.  
 16 I do further certify that this deposition was taken  
 17 at the time and place in the foregoing caption specified.  
 18 I do further certify that I am not a relative,  
 19 employee or attorney of either party, or otherwise  
 20 interested in the event of this action.  
 21 IN WITNESS WHEREOF, I have hereunto set my hand and  
 22 affixed my seal of office at Cleveland, Ohio, on this  
 23 27th day of September, 2000.  
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 \_\_\_\_\_  
 Michelle R. Hordinski, RPR and Notary Public  
 in and for the State of Ohio  
 My Commission expires January 25, 2001.