

Original Transcript

IN THE COURT OF COMMON PLEAS
OF CUYAHOGA COUNTY, OHIO

Richard Richnafsky, et al.,

Plaintiffs,

vs.

Case No. CV-05-559008

Shukri El-Khairi, M.D., et al.,

Defendants.

~~~~~

DEPOSITION OF

DAVID S. ETTINGER, M.D.

April 19, 2006  
2:49 p.m.

Office of Dr. Ettinger  
1650 Orleans Street, Suite 88  
Baltimore, Maryland 21231

Chad Joseph, Court Reporter and Notary in and for the Commonwealth of Virginia



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**APPEARANCES****ON BEHALF OF THE PLAINTIFFS:****BECKER & MISHKIND CO., LPA****PAMELA PANTAGES, ATTORNEY AT LAW**

Becker Haynes Building

134 Middle Avenue

Elyria, Ohio 44035

Telephone: 440.323.7070

Fax: 440.323.1879

Email: ppantages@beckermishkind.com

**ON BEHALF OF THE DEFENDANTS:****ROETZEL & ANDRESS, LPA****BEVERLY A. SANDACZ, ATTORNEY AT LAW**

1375 East Ninth Street

One Cleveland Center, 9th Floor

Cleveland, Ohio 44114

Telephone: 216.615.4834

Fax: 216.623.0134

Email: bsandacz@ralaw.com

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Deposition of David S. Ettinger, M.D.

April 19, 2006

COURT REPORTER: My name is Chad Joseph I'm the court reporter who will be taking today's testimony. I'm with the firm of County Court Reporters located at 1160 Jordan Springs Road, Stephenson, Virginia. Today is the 19th day of April, 2006, the time is approximately 2:49 p.m. We are at the doctor's office in Baltimore, Maryland to take the deposition of Dr. David S. Ettinger in the matter of Richnafsky versus, the deponent's name is El-Khairi pending in the Court of Common Pleas, Cuyahoga County, Ohio, case number CV 05559008.

Will counsel please idea themselves for the record stating your name, firm, address and whom you represent?

MS. PANTAGES: Pamela Pantages with Becker & Mishkind, 134 Middle Avenue in Elyria, Ohio. Plaintiff's counsel.

MS. SANDACZ: I'm Beverly

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1 Sandacz I'm the attorney for Dr.  
2 El-Khairi Northeast Cervical Associates of  
3 Ohio, LTD. My office address is 1375 East  
4 Ninth Street, One Cleveland Center,  
5 Cleveland, Ohio, 44114 and I am as I  
6 mentioned, defense counsel.

7 COURT REPORTER: Doctor, will  
8 you please raise your hand to be sworn.  
9 Do you solemnly swear or affirm that the  
10 testimony you are about to give shall be  
11 the truth, the whole truth and nothing  
12 but the truth so help you God?

13 THE WITNESS: I do.

14 COURT REPORTER: Thank you.  
15 Counsel, you may proceed.

16 DAVID S. ETTINGER, M.D. having  
17 first been duly sworn by the notary was  
18 examined and testified as follows:

19 EXAMINATION

20 BY-MS. PANTAGES:

21 Q. Would you please state your  
22 name for the record?

23 A. David S. Ettinger.

24 Q. Dr. Ettinger, good afternoon,  
25 you and I met a couple moments ago prior



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1 to going on the record here my name is  
2 Pamela Pantages and I am one of the  
3 lawyers representing the family of Susan  
4 Richnafsky in this case that has been  
5 brought in Cleveland, Ohio.

6 You have had your deposition  
7 taken before?

8 A. I have.

9 Q. So, just for our purposes  
10 today, if I could just briefly run  
11 through what, what I would like to do,  
12 I'm going to be asking you some questions  
13 about your opinions in this case, how you  
14 arrived at those opinions, a little bit  
15 about your background and training in  
16 your own medical practice. If you don't  
17 understand one of my questions, please  
18 tell me and I will be happy to rephrase  
19 it. All right?

20 A. Yes.

21 Q. It is very important that you  
22 verbalize all your responses, yes, no, or  
23 something more descriptive because the  
24 court reporter is writing down everything  
25 that we say and it is easier for him if



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1 we have verbal responses. Okay?

2 A. Okay.

3 Q. If you answer my questions the  
4 way that I phrase them, I'm going to  
5 presume that you understood them and gave  
6 me your best possible response. Fair  
7 enough?

8 A. Fair enough.

9 Q. All right. Dr. Ettinger, could  
10 you just describe for me a little bit  
11 about your current practice?

12 A. Well, 50 percent of my time is  
13 actually seeing formal patients, another  
14 30 percent of my time is clinical  
15 research with the patient related. And  
16 then 20 percent of my time is  
17 administration and other things related to  
18 other things that are related to patients  
19 but not formally seeing patients at that  
20 particular time.

21 Q. You are a professor of  
22 medicine here at Johns Hopkins?

23 A. Professor of oncology and  
24 medicine.

25 Q. And medicine, I'm sorry. And



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1 earlier did you say that you, 50 percent  
2 of your time is seeing formal patients?

3 A. Yes, I said it that way  
4 because I have clinic a day and a half,  
5 I do consultations a period of time which  
6 is a month -- five days a week and then  
7 I do a month of inpatient which is seven  
8 days a week and so, I would have to  
9 say, everything else I do that is  
10 patient-related I do formally, that is  
11 why I use the word formally. It would be  
12 50 percent and 30 percent is clinical  
13 research which is also patient-related and  
14 then 20 percent is administration and  
15 some of that is patient-related but that  
16 may be related to guidelines and things  
17 like that.

18 Q. You actually have your own  
19 patients that make an appointment to see  
20 Dr. Ettinger?

21 A. Absolutely.

22 Q. And that's 50 percent of your  
23 professional time?

24 A. Absolutely.

25 Q. What kind of patients come to



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1 see you?

2 A. 80 percent are lung cancer, 15  
3 percent may be sarcomas and five percent  
4 is everything else.

5 Q. And when you say five percent  
6 is everything else, can you give me kind  
7 of a summary of what --

8 A. Thymomas, mesotheliomas, adrenal  
9 cortical carcinomas, anything that's  
10 strange that no one else wants to care  
11 for since I'm one of the senior people  
12 here.

13 Q. Right. Breast cancer, is that  
14 in the five percent?

15 A. I see breast cancer, well, I  
16 see breast cancer patients when I'm on  
17 the floor doing consultations and  
18 inpatient, obviously breast cancer is a  
19 common disease.

20 Q. And --

21 A. But do I formally see them in  
22 my clinic, for the most part I may have  
23 one or two or three.

24 Q. But you have testified as an  
25 expert witness in cases where the issue



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1 is breast cancer?

2 A. Yes, I'm a medical oncologist.

3 Q. So, it doesn't matter that 80  
4 percent of your practice is related to  
5 lung cancer and one or two percent of  
6 your practice is related to breast  
7 cancer, when it comes to testifying about  
8 oncology issues because of your education,  
9 training and experience, you are equally  
10 competent to testify in lung cancer cases  
11 as you are to testify in breast cancer  
12 cases.

13 MS. SANDACZ: Object to the  
14 question.

15 A. I believe that to be true, I'm  
16 more competent to deal with lung cancer  
17 because that's what I do more frequently.

18 Q. But certainly you know your  
19 way around a breast cancer case?

20 A. I do.

21 Q. All right. Of the patients  
22 that you treat that have lung cancer,  
23 what are the stages of the patient, of  
24 that population of patients?

25 A. The bulk would be stage four,



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1 the next would be stage three. And then  
2 the last group would be one and two.

3 Q. Does the treatment differ as  
4 we talk about those stages?

5 A. Absolutely.

6 Q. All right. How does the  
7 treatment differ from stage one to stage  
8 two to stage three to stage four?

9 A. Stage 1 A would be surgery  
10 alone, for the most part. Stage 1 B  
11 would be surgery and adjuvant  
12 chemotherapy. Stage 2 would be surgery  
13 and adjuvant chemotherapy. Stage 3 is,  
14 could be a number of things, could be,  
15 it is multi modality meaning you can be  
16 using surgery, radiotherapy and  
17 chemotherapy. Chemotherapy followed by  
18 surgery, chemotherapy followed by  
19 radiation, concurrent chemo/radiation and  
20 stage 4 disease is chemotherapy and/or  
21 targeted therapy. Which is the lowest  
22 type of therapy.

23 Q. Did you give me a breakdown,  
24 I'm sorry if you did, did you give me a  
25 breakdown of what percentage of your



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1 patient population is stage 1 and 2, 3  
2 and 4 lung cancer?

3 A. Well, 70 percent of all lung  
4 cancer is 3 and 4. So, the bulk of it,  
5 in other words, that, I'm making a  
6 general statement about what lung cancer,  
7 the percentages of lung cancer. Ten  
8 percent make up stage 1 and 20 percent  
9 make up stage 2. So the bulk of  
10 anybody's, if they do a lot of lung  
11 cancer will be 3 and 4.

12 Now with adjuvant therapy you  
13 will see more one is and twos.

14 Q. Why is that, what is the  
15 relationship between ones and twos and  
16 adjuvant therapy?

17 A. Because adjuvant therapy is  
18 chemotherapy with a certain amount of  
19 people.

20 Q. I'm sorry?

21 A. A surgeon doesn't give  
22 chemotherapy.

23 Q. Oh. So it's not that stage 1  
24 and stage 2 lung cancer patients are such  
25 a rarity, it is because of the nature of



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1 your practice that the majority of stage  
2 1 and stage 2 patients who came to Johns  
3 Hopkins, for example, would be seen by a  
4 surgical oncologist as opposed to someone  
5 like yourself?

6 A. Oh, no, they are a rarity, in  
7 other words, when the numbers I gave you,  
8 70 percent of stage 3 and 4, that's the  
9 general population in the United States.  
10 One and two make up only 20, most lung  
11 cancer is diagnosed in advanced stages.  
12 Only about 30 percent --

13 Q. I guess what my question is,  
14 and I understand what you are saying,  
15 looking at that statistic from a  
16 different perspective, is it true that  
17 stage 1 patients since you told me this  
18 treatment is -- strike that. Stage 1 A  
19 patients, treatment is surgery alone?

20 A. Yes.

21 Q. Do you see stage 1 A patients?

22 A. Usually not.

23 Q. Okay, who sees stage 1 A  
24 patients?

25 A. Thoracic oncologist.



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1 Q. Okay. And stage 1 B patients  
2 are seen by a thoracic oncologist or  
3 surgical oncologist and you conjunctively?

4 MS. SANDACZ: Objection.

5 A. Yes, for chemotherapy.

6 Q. Okay. So the percentage of  
7 patients that you see that are stage 1  
8 are almost exclusively stage 1 B?  
9 Correct?

10 A. Yes, unless it is a poor risk  
11 stage 1 A that might benefit from  
12 chemotherapy.

13 Q. And what's a poor risk stage 1  
14 A?

15 A. A stage 1 A is less than  
16 three centimeters, so if it's, if it's  
17 2.8 wholly differentiated, margin is close  
18 in a 45 year old, that is a poor risk  
19 patient, that patient, most likely if the  
20 patient understands the risks of the  
21 current disease, I would recommend  
22 chemotherapy.

23 Q. Okay. Do you have any stage 1  
24 A patients that are currently patients of  
25 yours now that you are treating?



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1 A. Yes, one, one or two.

2 Q. And how long ago was that  
3 patient diagnosed?

4 A. About a year ago.

5 Q. The patient has had surgery?

6 A. Absolutely.

7 Q. Do you conclude at this point  
8 in time based upon your exams and your  
9 studies that the patient presently is  
10 cancer free?

11 A. I do.

12 Q. And how long does that patient  
13 have to remain cancer free before you  
14 consider that patient to be cured?

15 A. Until they die.

16 Q. That makes sense. Of the  
17 patients that are stage 1 A that you  
18 have treated over the course of your  
19 career, what percentage of them have been  
20 cured?

21 MS. SANDACZ: Objection.

22 A. Oh, I don't have a number to  
23 give you. In the literature it's  
24 depending on stage 1 A, depending on the  
25 grade that is whether it is well



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1 differentiated, or diffuse somewhere  
2 between 70 and 90 percent.

3 Q. And the differentiation of the  
4 tumor itself or the cancer cell itself  
5 doesn't impact on the stage of the  
6 cancer?

7 A. No.

8 Q. It is stage 1 A whether it is  
9 poorly differentiated, differentiated --

10 A. When you say stage 1 A you  
11 are basing it on the size of the tumor,  
12 regional node metastasis and distant  
13 metastasis, it is based on TNM  
14 classification. You add modifiers to  
15 that, would be everything else.

16 Q. Have you cured, I take it from  
17 your testimony that you have cured stage  
18 1 A cancer over the course of your  
19 career?

20 A. I have cured 1 and 2 and 3s  
21 even.

22 Q. Stage 3s?

23 A. Yes.

24 Q. Have you cured any stage 4s?

25 A. Not that I know of.



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1 Q. How do these patients come to  
2 you?

3 A. They could be either referred  
4 from a physician, self referred, the  
5 majority are referred by another  
6 physician.

7 Q. Do you have occasion in your  
8 practice to order CT scans on your  
9 patients?

10 A. We do.

11 Q. Do you attend the CT scanning  
12 procedure with your patients?

13 A. No.

14 Q. The information about the CT  
15 scan is passed on to you in some way?

16 A. Most of the CTs are, since  
17 most of the patients I see are already  
18 diagnosed, and if I'm going to treat them  
19 I follow them up with CTs, I usually try  
20 to get the CT at the time I would see  
21 them. So I see the patients on the first  
22 floor, the CT scanner is on the second  
23 floor, you always learn something, I go  
24 up and review with the radiologist or if  
25 the patient that comes in has a CT scan



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1 I ask him to send me a report. So  
2 either way. But on the day of my clinic  
3 I'm more efficient by looking at them  
4 rather than wait to read them, I do  
5 impression on them.

6 Q. So, you may actually go and  
7 look at the film yourself and interpret  
8 the film yourself?

9 A. No, I don't interpret the film  
10 myself. A board certified radiologist does  
11 that.

12 Q. And how does the board  
13 certified radiologist communicate his or  
14 her interpretation to you?

15 A. Looking right at their faces,  
16 that's how they communicate with me. But  
17 otherwise putting it in a report on a  
18 computer and it gets to me.

19 Q. It is sent to your office in  
20 some way?

21 A. Yes.

22 Q. At some point in time does the  
23 information from that CT scan get  
24 communicated to the patient?

25 A. Usually since I'm making a



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1 decision about treatment, it has to be  
2 communicated, yes.

3 Q. And are you the person that  
4 does that?

5 A. I'm the person that does that.

6 Q. How do you communicate the  
7 information to the patient?

8 A. I tell it to them.

9 Q. While the patient is sitting  
10 in front of you?

11 A. In front of me, that's right.

12 Q. Do you ever show the patient  
13 the CT scan or show the patient the  
14 report?

15 A. Some patients request a report  
16 and I give it to them.

17 Q. You don't have any problem  
18 doing that?

19 A. No.

20 Q. Do you ever mail a CT scan  
21 report to a patient?

22 A. No.

23 Q. Do you ever write a patient a  
24 letter about what's contained in a CT  
25 report?



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1 A. No.

2 Q. But you typically do you in  
3 your practice communicate the information  
4 contained on a CT to a patient?

5 A. Yes.

6 Q. Do you document in the  
7 patient's chart that you told the patient  
8 about what was on the CT scan?

9 MS. SANDACZ: Objection, I'm  
10 going to object to any of this line of  
11 questioning, this witness is not offered  
12 as a standard of care expert, you are  
13 asking him standard of care or questions  
14 that relate to standard of care which he  
15 has not been identified for and you  
16 cannot show me any relevance of this  
17 questioning to the opinions that this  
18 doctor forms, so I'm going to object to  
19 that. Go ahead, Doctor, and I will move  
20 to strike the question and answer as it  
21 relates to communication, documentation or  
22 anything as it relates to CT scans  
23 because it is not in this particular  
24 case, go ahead.

25 A. My note does not contain that



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1 I spoke, I told the patient that says  
2 what the CT scan results are.

3 Q. So you have the conversation  
4 with the patient on the day if it's  
5 possible the study is done, but you don't  
6 chart that, that you told the patient  
7 about the CT?

8 A. No, I say what the results  
9 are.

10 Q. Okay.

11 A. So, I don't tell them that I  
12 told the patient the results of this test  
13 and that's a phrase I've never used.

14 Q. Do you chart in some way that  
15 you discuss the findings of the CT with  
16 the patient?

17 MS. SANDACZ: Objection, asked  
18 and answered.

19 A. Sometimes, I have a PA so my  
20 PA does it, case discussed with Dr.  
21 Ettinger, she sees the patient, and then  
22 I discuss the findings, unless she  
23 documents it, if I'm seeing a patient on  
24 my own without my PA, then I routinely  
25 don't do that, I say these are the



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1 results of the CT scan findings.

2 Obviously it is implied since I have to  
3 make a decision on what I do next.

4 Q. Okay. But you feel it is  
5 important that you have a conversation  
6 with the patient about what's on a test  
7 that you ordered?

8 MS. SANDACZ: Objection.

9 A. I would.

10 Q. That is good medical care?

11 A. Good medical care.

12 MS. SANDACZ: Objection, move  
13 to strike all these questions related to  
14 communications, this doctor has not been  
15 for that purpose and this is absolutely  
16 irrelevant to the issues and the opinions  
17 that he is offered for. Go ahead.

18 Q. Thank you. How were you  
19 contacted in this case, Doctor?

20 A. I think either by phone, would  
21 I review the case and then a letter, so  
22 you have the letter I think.

23 Q. I think we marked it as an  
24 exhibit I think, didn't we? I'm going to  
25 hand you what we marked as Exhibit-3, is



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1           that the letter you are referring to Dr.  
2           Ettinger?

3           A.           Yes.

4           Q.           Is that the first contact that  
5           you had relative to this case?

6           A.           With the lawyer? I don't  
7           understand your question.

8           Q.           Do you know when you were  
9           contacted about reviewing this case?

10          A.           Must have been a week before,  
11          I don't know. I don't recall.

12          Q.           Do you know how the first  
13          contact occurred?

14          A.           By phone.

15          Q.           Do you know who you spoke to?

16          A.           No.

17          Q.           Do you know, I'm sorry. You  
18          believe it was a phone call?

19          A.           Yes.

20          Q.           Do you know what you were  
21          asked to do or what the content of the  
22          phone call was?

23          A.           Look at the case and review it  
24          for causation.

25          Q.           And you agreed to do that?



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1 A. Yes.

2 Q. You do accept as a valid  
3 medical proposition that there is such a  
4 thing as stage 1 A lung cancer?

5 A. Absolutely.

6 Q. And you do accept as a valid  
7 medical proposition that stage 1 A cancer  
8 or just stage 1 cancer can and is  
9 diagnosed in this country on a regular  
10 basis?

11 A. I have already given you the  
12 percentages as diagnosed.

13 Q. And how is a stage 1 cancer  
14 diagnosed?

15 A. The best way to diagnose it  
16 would be studies, CT scan, possibly a PET  
17 scan depending upon whether you have  
18 blood studies. Pulmonary function studies.  
19 Depending on where the lesion is, whether  
20 it is peripheral or central, you might do  
21 a mediastinoscopy and and surgical  
22 resection and surgical staging the  
23 patient.

24 Q. Would you agree with me that  
25 stage 1 cancers are typically diagnosed



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1 or typically first detected on a chest  
2 X-ray?

3 A. It might be but chest X-rays  
4 are a poor screen.

5 Q. I'm not asking about screening,  
6 I'm asking about how they are diagnosed,  
7 how the diagnosis is made or how they  
8 are detected?

9 A. Detected many ways, they are  
10 detected just like in this case you go  
11 in for surgery and you can have a  
12 routine chest X-ray a lesion can be  
13 picked up, you can't stage anybody with a  
14 chest X-ray or an incomplete work up.

15 Q. But at some point in time  
16 something has to be detected that is  
17 ultimately staged as a stage 1?

18 A. Staged as an abnormality, it's  
19 determined to be an abnormality, then the  
20 appropriate stage are used to stage the  
21 patient.

22 Q. I, we are on the same page, I  
23 understand you can't stage a cancer by an  
24 imaging study, but you can detect a  
25 cancer by an imaging study, correct?



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1 A. You can detect an abnormality.

2 Q. And then the diagnosis is made  
3 at some point in time?

4 A. Pathologically.

5 Q. I guess what I want to, to  
6 learn from you, your opinion with respect  
7 to how is a stage 1 cancer typically  
8 first detected? For example, are stage 1  
9 cancers typically symptomatic or  
10 asymptomatic?

11 A. They could be asymptomatic or  
12 they -- first of all, you can have  
13 anywhere from stage 1 to stage 4 and be  
14 asymptomatic.

15 Q. Okay.

16 A. 15 percent of stage 4 are  
17 asymptomatic.

18 Q. What percentage of stage 1  
19 are --

20 MS. SANDACZ: Objection, go  
21 ahead, finish your answer. Go ahead.

22 MS. PANTAGES: It's my  
23 deposition. You can just stop.

24 MS. SANDACZ: You can't  
25 interrupt the witness, you can't interrupt



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1 the witness, that's rude.

2 MS. PANTAGES: Come on.

3 MS. SANDACZ: Come on.

4 MS. PANTAGES: For heaven's  
5 sake.

6 MS. SANDACZ: Show this  
7 gentleman some respect that he deserves.  
8 Go ahead, Doctor.

9 A. I would assume that more  
10 cases, more patients are asymptomatic at  
11 stage 1. And that the patient may have a  
12 cough and goes in to their primary care  
13 physician, gets a chest X-ray and finds  
14 an abnormality. And then there is a  
15 work-up that ensues.

16 Q. Do you have an opinion as to  
17 what percentage of stage 1 patients are  
18 symptomatic versus what percentage of  
19 stage 1 patients are not symptomatic?

20 A. I would have to say the bulk  
21 are probably asymptomatic, I don't have  
22 the data for that.

23 Q. So more likely than not a  
24 stage 1 patient is asymptomatic, correct?

25 A. I would have to believe that.



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1 Q. All right.

2 A. I don't know the hard data.

3 Q. So, recognizing that the  
4 majority of stage 1 patients are  
5 asymptomatic, how are those cancers  
6 detected?

7 A. By accident.

8 Q. And I'm not a doctor, you are,  
9 by chest X-ray that is done as pre-  
10 admission testing?

11 A. No, because the bulk, what I'm  
12 saying to you the bulk of those studies,  
13 the bulk of those studies are not stage  
14 1, even on chest X-ray. It would be the  
15 best way now would be the CT scan,  
16 screening CT scan, spiral CT, low dose  
17 spiral CT.

18 Q. Something like we had in this  
19 case?

20 A. No, you didn't have it, you  
21 had a, you didn't have a complete scan,  
22 you had a scan that just showed the  
23 lower side, missed everything else above,  
24 in the hilum and the and the mediastinum.

25 Q. But that's how this cancer was



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1 first detected?

2 A. That's correct.

3 Q. Was by CT scan?

4 A. That's correct.

5 Q. I guess that is kind of what  
6 my question is, what I'm what I'm trying  
7 to focus us on, recognizing that you  
8 accept the medical proposition that there  
9 is such a thing as a stage 1 cancer  
10 that can be diagnosed and treated for  
11 cure, how does a physician like you or a  
12 surgeon come across those patients?

13 A. There are many ways, by chest  
14 X-ray, patient comes in symptomatic, by  
15 CT scan, by accident, by screening.  
16 Screening and CT scans, by someone going  
17 to the jack in the box CT scan people  
18 that said for \$744 I can get you a  
19 virtual scan, that is how it is all  
20 done. If you have a fear of cancer, you  
21 get, you get, you might get a scan. Do  
22 you, does an internist usually get a  
23 chest X-ray as part of a physical  
24 examination, many do. However, is it a  
25 valid thing? Is it a valid procedure to



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1 use for screening for cancer, the answer  
2 to that is no, it's not.

3 Q. And I have seen those, I have  
4 seen those studies that it's not like a  
5 pap test or mammogram where you have the  
6 same results, these are things that  
7 happen kind of fortuitously for the  
8 patient, but my point is Doctor, when you  
9 have a patient, we already talked about  
10 you have different treatments for  
11 different stages of cancer, you personally  
12 in your practice when you are caring for  
13 patients, you accept that there is such  
14 an animal as a stage 1 cancer and you  
15 treat a stage 1 cancer patient  
16 differently than you treat a stage 4  
17 cancer patient?

18 A. That's correct.

19 Q. Absolutely, right?

20 A. Absolutely.

21 Q. You don't presume in your  
22 patients where there is a stage 1 cancer  
23 diagnosis that these patients are in  
24 reality because of micrometastatic disease  
25 or whatever stage 4 cancers and treat



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1           them like stage 4 cancers, do you?

2           A.       No, you always err on the side  
3           of what's curable.

4           Q.       And, and you accept as a valid  
5           medical proposition that there is such a  
6           thing as a diagnosable and treatable  
7           stage 1 cancer, correct?

8                   MS. SANDACZ:   Asked and  
9           answered.

10          A.       I have said that I think.

11          Q.       A couple of times?

12          A.       Right.

13          Q.       In this case you reviewed the  
14          Mrs. Richnafsky's CT scan of November  
15          18th, 2001, is that correct?

16          A.       Yes.

17          Q.       And I understand that you have  
18          reviewed a CT scan from June of 2003?

19          A.       That's correct.

20          Q.       Have you reviewed, and you  
21          have looked at the films yourself?

22          A.       Correct.

23          Q.       Did you, did you also review  
24          the radiology reports that were the  
25          actual interpretations in this case?



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1 A. Yes.

2 Q. Do you agree with, does your  
3 review of the imaging studies that you  
4 did comport with the analysis by the  
5 radiologists in Cleveland?

6 A. Yes.

7 Q. You didn't find any error by  
8 anybody?

9 A. No.

10 Q. Have you reviewed any other  
11 imaging studies other than the two CT  
12 scans?

13 A. No.

14 Q. You haven't seen the PET scan?

15 A. No.

16 Q. Have you asked to see any  
17 other scans other than those two?

18 A. No.

19 Q. Do you know whether or not the  
20 dimensions of the cancer as it was  
21 diagnosed in 2003 is the same on the CT  
22 scan that was done in 2003 as it is on  
23 the PET scan in 2003?

24 A. I don't know that, actually  
25 unless it is a PET CT, the PET is not



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1 going to give you good size, the better  
2 thing for size is the CT scan.

3 Q. All right. Can you get a size  
4 from a PET scan?

5 A. Not well, you have to have a  
6 PET CT.

7 Q. When you in formulating your  
8 opinions in this case, did you accept as  
9 a fact that the two centimeter lesion on  
10 Mrs. Richnafsky's lung that was described  
11 in the November 2001 CT was cancer?

12 A. Yes.

13 Q. Was there any other finding on  
14 that CT that you accepted as cancer?

15 A. There was a five millimeter  
16 nodule right below it, inferior to it  
17 that I said was indeterminate, only time  
18 will tell whether it was.

19 Q. So in formulating your opinions  
20 in this case, did you reject that as  
21 cancer or include that as cancer?

22 A. No, I rejected it as cancer.

23 Q. In formulating your opinions in  
24 this case, did you accept that two  
25 centimeter lesion that was apparent on



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1 the 2001 CT as the primary tumor?

2 A. Yes.

3 Q. How are you at drawing?

4 A. What?

5 Q. How are you at drawing?

6 A. Not good. Otherwise I'd be an  
7 artist.

8 Q. Can you draw a picture for me?

9 A. What do you want to see?

10 Q. I would like you to draw me a  
11 picture of the entire lung, both lungs on  
12 Mrs. Richnafsky. Okay, what is that, that  
13 you drew?

14 A. This is the diaphragm, this is  
15 the heart, these are the two lungs on  
16 the side.

17 Q. So this is the right lung?

18 A. That's the left.

19 Q. Because when you look, when  
20 you look at it, I'm looking at it upside  
21 down, I apologize, that's the left,  
22 that's the right.

23 A. And the lesion was right over  
24 here.

25 Q. All right. Can you also, and



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1       you know what, I'm going to give you a  
2       different color pen. I don't know the red  
3       one, let's do the highlighter, not to  
4       scale. Okay. Can you with the yellow  
5       highlighter I brought out, Dr. Ettinger,  
6       can you make a boundary as to where the  
7       CT scan stopped?

8           A.       Oh, I think it is about here  
9       somewhere.

10          Q.       Now, do you hold that where  
11       you highlighted, do you hold that to a  
12       reasonable degree of medical probability?

13          A.       No, I'm not an artist I would  
14       rather you look at the scan and show, do  
15       that.

16          Q.       I'm just asking how strongly  
17       you feel about --

18          A.       Not that strongly about it.

19          Q.       Okay, so you can just put a  
20       little arrow, that's the lesion. You are  
21       editorializing on the drawing, that --

22          A.       If you are going to use it  
23       for something I will tell you what the  
24       facts are.

25          Q.       Absolutely. I have no problem



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1 with that.

2 A. Go ahead.

3 Q. And the yellow line is the,  
4 however you want to designate the cutoff  
5 for the CT?

6 A. Right. For abdominal CT, this  
7 is 2001.

8 Q. Okay. We are going to do 2003,  
9 can you do the same drawing? That's the  
10 heart, right?

11 A. That's the heart but there's a  
12 diaphragm as well, there is a lesion,  
13 there is a consolidation here.

14 Q. Okay, that's a consolidation,  
15 that is what I was going to ask you,  
16 what's your understanding of what the  
17 cancer looked like?

18 A. Well, could have been, since  
19 the patient had an endobronchial lesion,  
20 meaning it was in the bronchus, could  
21 have had atelectasis and compression and  
22 consolidation plus a mass within it.

23 Q. Okay.

24 A. So that's what that was and  
25 then up here there was a six centimeter



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1       hilar mass that was separate from the  
2       lung mass.

3           Q.       All right.

4           A.       And then there was mediastinal,  
5       subcarinal lymph nodes, let's see how we  
6       do this. Let's see, this is the carina  
7       here, so there was subcarinal lymph nodes  
8       here, I think four by 3.2, 4.2 by  
9       something, so this would be a hilar mass,  
10      up to six centimeters, I think it was a  
11      subcarinal lymph node.

12          Q.       Is the carina part of --

13          A.       Mediastinum.

14          Q.       Is it part of the bronchus, is  
15      it, is the --

16          A.       No, it is the lymph nodes  
17      below it.

18          Q.       Okay.

19          A.       In other words, the  
20      bifurcation, when you say subcarinal, it  
21      is below the carina which is the  
22      bifurcation of the, of the, of the, I  
23      just want to get the exact measurements,  
24      4.2, subcarinal, 4.2 by 3.2 that was six,  
25      okay.



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1 Q. All right.

2 A. Then there is a right  
3 paratracheal mass right up here, it's a  
4 little 1.7. Right paratracheal, right,  
5 paratracheal, whatever it is, something  
6 like that.

7 Q. On what do you base your  
8 opinion that the hilar mass was separate  
9 from the mass in the lower right lung?

10 A. I looked at it, the report the  
11 radiologist ran was separate.

12 Q. All right.

13 A. In other words, he saw two  
14 distinct masses, he said this is a six  
15 centimeter hilar mass and then he said  
16 below that is a consolidation, it wasn't  
17 continuous.

18 Q. All right. And when you say  
19 below that there is a consolidation, what  
20 does that mean exactly?

21 A. The way the report is read by  
22 Dr. Meyers, the radiologist, at the  
23 University Hospital of Cleveland, six by  
24 four centimeter right hilar mass, distal  
25 to it in the anterior right lower lobe,



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1 mass-like structure about seven  
2 centimeters, so, distal to it. Not  
3 attached to it, distal to it. Distal to  
4 it is my understanding I look at it, it  
5 is separate.

6 Q. And do you know whether or not  
7 each of those areas were biopsied?

8 A. No, the thing that was  
9 biopsied I think was the subcarinal, I  
10 want to be sure of that, there was an  
11 F&A of the mediastinum lymph node.

12 Q. Okay.

13 A. And there was a bronchoscopy,  
14 I think they made a diagnosis that way,  
15 of course they also made a diagnosis when  
16 they looked at the pancreas, the  
17 subcarinal lymph node if I'm not mistaken  
18 that was biopsied.

19 Q. So, the manner in which the  
20 biopsy was conducted assumed that this  
21 was all one process? Correct?

22 MS. SANDACZ: Objection.

23 A. Well it's a metastatic process  
24 but it is not really one process.

25 Q. They did separately biopsy --



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1 A. You don't have to do that.

2 Q. Why not?

3 A. Why not, because they assumed  
4 the primary was here and they went to  
5 the hilum and mediastinum, and wherever  
6 else they would biopsy. You don't have to  
7 do different biopsies.

8 Q. So when you say, the court  
9 reporter can't write down what you are  
10 writing, they assumed in your opinion  
11 that the primary was the mass in the  
12 lower right lung?

13 A. That's correct.

14 Q. And that it, it spread to the  
15 hilar?

16 A. The hilar mass and the  
17 mediastinum.

18 Q. Okay. Let's mark this as 2003.

19 A. I would say --

20 Q. And just for the purpose of  
21 consistency, if you can mark where that  
22 cutoff would have been on the 2001 CT?

23 MS. SANDACZ: Chest CT in  
24 2003.

25 Q. Can you make a notation that



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1 that's what that is? Okay. Thank you.  
2 Thank you, Doctor. You are not such a  
3 bad artist, better than I would do.

4 MS. SANDACZ: Let me ask that  
5 they both be entered as exhibits.

6 MS. PANTAGES: That is what I  
7 was just going to do.

8 MS. SANDACZ: Okay.

9 MS. PANTAGES: Give me a  
10 moment. Thank you.

11 Q. Doctor, you and I talked a  
12 little bit about the TNM staging system.

13 A. That's correct.

14 Q. What is that exactly?

15 A. It is based on the American  
16 Joint Committee on cancer, it is how we  
17 stage cancer, all cancer so we talk in  
18 the same language, so if I'm in China  
19 and I say it is stage 1, the Chinese  
20 would know that as well.

21 Q. It is the gold standard, isn't  
22 it?

23 MS. SANDACZ: Objection.

24 A. The gold standard is based on  
25 the size of the tumor, whether there is



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1 normal metastasis, or whether it is  
2 distal metastasis.

3 Q. And it is the staging center,  
4 staging, it is the staging system that is  
5 used around the globe?

6 A. That's correct.

7 Q. It is internationally accepted?

8 A. Internationally accepted.

9 Q. Can we say that it is used by  
10 all oncologists in staging their patients?

11 A. That's correct.

12 Q. And for what purpose do  
13 oncologists use the TNM system?

14 A. So they can determine what the  
15 treatment is and talk about prognosis to  
16 the patient.

17 Q. All right. So it is used in  
18 patient care?

19 A. That's correct.

20 Q. Is TNM staging also routinely  
21 used in peer review literature?

22 A. Yes.

23 Q. Is it also the accepted  
24 standard for staging in the clinical and  
25 academic research that you do?



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1 A. That's correct.

2 Q. You already told me it was  
3 recognized by the American Drug Committee  
4 on Cancer Staging, correct?

5 A. Right.

6 Q. It's used by the International  
7 Union Against Cancer?

8 A. That's correct.

9 Q. Used by the American Cancer  
10 Society?

11 A. Yes.

12 Q. Used by the National Cancer  
13 Institute?

14 A. It is used by everybody.

15 Q. Everybody. And I don't know if  
16 you have textbooks in here, do you have  
17 textbooks?

18 A. I do.

19 Q. You do. What textbooks do you  
20 have?

21 A. Cancer Medicine.

22 Q. That's K-U-F-E is the editor?

23 A. K-U-F-E, I have Devita's book  
24 up there I have Abeloff's book up there.  
25 I have my own book over there, Thoracic



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1 Oncology. They all have the same staging.

2 Q. For the purpose of my  
3 question, I'm going to ask you to assume  
4 a hypothetical for me. Okay?

5 A. Yes.

6 Q. Assume that in Mrs.  
7 Richnafsky's case as of November 2001 the  
8 two centimeter mass that is described on  
9 the CT is cancer. All right? Assume that  
10 for me. Assume that it's the only  
11 cancer in her body, there's no positive  
12 nodes, there's no metastatic disease,  
13 would you agree with me that if you  
14 accept that hypothetical as true that she  
15 is a stage 1 A cancer?

16 MS. SANDACZ: Objection to the  
17 hypothetical.

18 A. That hypothetical case, if her  
19 T lesion is two centimeters, maybe a T-1  
20 and she had no nodal metastasis at all  
21 and she had no distal metastasis, that is  
22 a stage 1 cancer.

23 Q. All right. And, and what would  
24 have happened to Mrs. Richnafsky had  
25 appropriate follow-up by anybody been done



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1 in November of 2001, what would have  
2 happened next? There's this finding on  
3 this CT scan, a doctor sees it, suspects  
4 it as cancer, what is the next thing  
5 that happens?

6 A. First of all she had an  
7 abdominal CT scan for, for a different,  
8 for a different reason for acute  
9 appendicitis. And the recommendation would  
10 have been then to have a complete chest  
11 CT scan.

12 Q. All right, and if the  
13 abdominal CT scan is dated November 18th,  
14 2001, what would your expectation as a  
15 diligent medical oncologist be with  
16 respect to when that chest CT would be  
17 done?

18 MS. SANDACZ: Objection, you  
19 may answer.

20 A. After she recovered from her  
21 acute appendicitis, I think within a  
22 month you get the CT scan.

23 Q. Can we say December 1, 2001?

24 A. You can say December 1, 2001.

25 Q. Earlier if she feels well and



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1 that can be scheduled?

2 A. Yes.

3 Q. She gets the, I'm sorry, she  
4 gets the chest CT and it shows a two  
5 centimeter mass.

6 A. Yes.

7 Q. What happens next?

8 MS. SANDACZ: Objection,  
9 hypothetical.

10 A. You mean hypothetically?  
11 Hypothetically if that's the only  
12 thing --

13 Q. Hypothetically. Absolutely. I'm  
14 not trying to trick you, this is a  
15 hypothetical, we will say it every  
16 question.

17 A. Hypothetically, then she would  
18 have had surgery.

19 Q. And when would that have  
20 occurred?

21 A. Whenever the surgeon is  
22 available.

23 Q. What would you like to see,  
24 hypothetically?

25 A. I think within the month.



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1 Q. All right. So by the end of  
2 December?

3 A. By the end of December, since  
4 it would be the holidays she would  
5 probably want to wait until after the  
6 holidays, after Christmas, after New Years  
7 have it done then.

8 Q. All right, so, what date are  
9 you comfortable with?

10 A. Doesn't make a difference,  
11 sometime January 1, 2nd, January 3rd.

12 Q. Okay, January 3rd. So she has  
13 this surgery January 3rd and then what  
14 happens?

15 A. She may have had the  
16 mediastenoscopy first. Depending on the  
17 surgeon, same with the lymph nodes  
18 depending what he said, then she would  
19 have been surgically staged.

20 Q. All right. And assume it is a  
21 two centimeter mass and she's node  
22 negative?

23 A. Node negative and the CT scan  
24 of course was negative of the abdomen  
25 except for the mass, so then she would



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1 have had the surgery, lobectomy and  
2 hypothetically speaking since she had  
3 stage 1 disease, since it was a wholly  
4 differentiated tumor, she would have on  
5 the lower side of that cure rate, 70  
6 percent.

7 Q. So more likely than not taking  
8 our hypothetical to its logical  
9 conclusion, more likely than not in our  
10 hypothetical Mrs. Richnafsky would be  
11 alive today and you and I would not be  
12 sitting here having this conversation,  
13 correct?

14 MS. SANDACZ: Objection.

15 A. Well hypothetical case that  
16 five years she would still be here, still  
17 be risk of 30 percent at that time at  
18 that stage disease having a recurrence.

19 Q. You testified enough as an  
20 expert witness all we need to talk about  
21 is more likely than not?

22 A. More likely than not.

23 Q. So in our hypothetical, more  
24 likely than not Mrs. Richnafsky would be  
25 alive and well in Ohio today?



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1 A. That's correct.

2 Q. Do you agree with the medical  
3 maxim that early detection of cancer  
4 increases the probability of cure?

5 A. That's correct.

6 Q. You used doubling time in this  
7 case, right?

8 A. I used it.

9 Q. You had lots of conversations  
10 with lots of lawyers about doubling time,  
11 I'm almost embarrassed to embark upon it.  
12 You have had lots of this analyzed by  
13 you and by other people in the past,  
14 right?

15 A. I have.

16 Q. You have. What is doubling  
17 time?

18 A. How fast the tumor doubles in  
19 size.

20 Q. What is doubling time, the  
21 doubling time theory used for?

22 A. Well the doubling time theory  
23 depends on what they are talking about.  
24 The doubling time theory is used to  
25 determine growth of tumors, in the one



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1 situation that it is used clinically is  
2 an osteogenic sarcoma whereby a tumor is  
3 that is less than, if the patient has an  
4 osteogenic sarcoma with lung metastasis,  
5 if the doubling time that is measuring  
6 two points on the curve is less than 40  
7 days, normally they're not going to try  
8 to resect that disease.

9 If it is greater than 40 days,  
10 you would attempt to resect the disease,  
11 you have, the patient would have a better  
12 chance of having what they call a  
13 metastastectomy. But it's obviously the  
14 doubling time, when you have two points  
15 on the curve is easy to do, there has  
16 been some research done in the '70s and  
17 '80s looking at, and in some textbooks  
18 the intent of looking at the growth of  
19 tumors, you talk about science, it is  
20 part of our culture, when we're talking  
21 science. Do we use it to talk to a  
22 patient? No, we talk about fast growing  
23 tumors, slow growing tumors and moderately  
24 growing tumors. Because a tumor has to  
25 grow.



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1 Q. You don't use doubling time in  
2 your medical practice, do you?

3 A. No.

4 Q. Not even with your sarcoma  
5 patients?

6 A. No.

7 Q. No you don't?

8 A. I would, I haven't recently  
9 had an osteogenic sarcoma that had, had  
10 lung metastasis to consider a  
11 metastastectomy. So that is usually in  
12 children, osteogenics therefore is not  
13 that common, and when I usually see them  
14 it's usually with metastatic disease.

15 Q. When was the last time you  
16 used doubling time in one of your sarcoma  
17 patients?

18 A. I don't use doubling time.

19 Q. You don't use doubling time in  
20 your medical practice? Correct?

21 A. That's correct.

22 Q. In fact, the only time that  
23 you use doubling time is to testify in a  
24 courtroom?

25 A. That's correct.



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1 Q. Is there a reason why you  
2 don't stage this cancer in this case  
3 using the TNM staging?

4 A. I did, I used the doubling  
5 time to confirm what I believe. The  
6 patient, the patient in my opinion at  
7 the, in the letter I sent, that in my  
8 opinion in November of 2001 had a stage  
9 3 carcinoma based on the TNM  
10 classification. That is, T 1, T 2, the  
11 patient had a two centimeter, the patient  
12 two centimeter we use T 1, in my opinion  
13 the patient had disease in the subcarinal  
14 lymph node and in the hilar lymph node  
15 she had a six centimeter hilar lymph node  
16 and she had distal metastasis as best we  
17 could determine at that point in time.  
18 That is based on a TNM classification.  
19 That belief was based on what I know  
20 about lung cancer, my experience and  
21 treating thousands of patients with lung  
22 cancer over 32 years. However, I wanted  
23 to confirm that that made sense, that is  
24 why I used the doubling time.

25 I understand the doubling time



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1 has issues, that tumors don't grow at a  
2 constant rate, that tumors, that somebody  
3 used that as calculation of the volume of  
4 a sphere, the cancer is not a sphere as  
5 it has fibrous tissue in it and  
6 everything else. And of course of course  
7 as I said it was not constant rate, but  
8 I took under consideration that this was  
9 an anaplastic wholly differentiated tumor  
10 and used a 30 day doubling time.

11 That is a very fast growth of  
12 a tumor to see if there can be any  
13 cells there in 2001 and there were. And  
14 for the most part, if you look at  
15 article by Dr. Shackeny from the National  
16 Cancer Institute that actually looked at  
17 tumors, metastatic disease and they  
18 calculated that adenocarcinoma of a lung  
19 had a mean doubling time of 134 days  
20 with a range of 15 days over 500 days,  
21 Shackeny, 1978, Annals of Internal  
22 Medicine.

23 I took, I took a fairly fast  
24 tumor, the fastest tumors that we know in  
25 solid tumors are testicular carcinoma in



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1 immunology, would be leukemia and  
2 lymphoma, and the fastest lung cancer  
3 would be small cell. I took a 30 day  
4 doubling time and at least on the  
5 doubling time calculations with all the  
6 vagaries, still had cells in there.  
7 Therefore, it was stage 3, not based on  
8 the doubling time, the doubling time  
9 confirmed what I believed based on the  
10 TNM classification.

11 Q. Stage 3 shows she's T what in  
12 2001?

13 A. T-1.

14 Q. You accept the two centimeter  
15 size?

16 A. Absolutely.

17 Q. Okay, so that's a fact, that's  
18 something you and I can agree on in 2001  
19 Mrs. Richnafsky's primary tumor was two  
20 centimeters in size?

21 A. Yes, we can agree on that.

22 Q. Was it a two centimeter  
23 sphere?

24 A. It was more of a sphere but  
25 it didn't -- you know, close.



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1 Q. You don't know?

2 A. It was, you know, whether it  
3 is a sphere or not doesn't make a  
4 difference, the largest diameter was two  
5 centimeters.

6 Q. All right.

7 A. That is how you base it.

8 Q. All right. So the end was --

9 A. Based on the, based on the, on  
10 the 2003 six centimeter lesion, my belief  
11 it was, well, subcarinal lymph node, it  
12 was two. But there, we have no CT scan  
13 to demonstrate that either way.

14 Q. And that's what I'm trying to  
15 understand, what is the basis of your  
16 opinion that she was node positive in  
17 2001?

18 A. My basis of that opinion is  
19 based on what I said, what I understand  
20 about her disease, the growth of the  
21 tumor, what the size was in 2003.

22 Q. The size of the tumor in 2003?

23 A. Size of the hilar mass and  
24 subcarinal lymph node.

25 Q. All right.



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1 A. In 2003.

2 Q. So you looked at the size of  
3 the nodes in 2003 and interpreted that  
4 they were likewise affected with cancer  
5 in 2001?

6 A. But much less. Much less. As a  
7 matter of fact, even one cubic centimeter  
8 of cells is a billion cells. Whether you  
9 have, if you could see one cell, or you  
10 can see big bulky disease that is still  
11 stage 3. So what I did to prove my  
12 point is I did the calculation. Now with  
13 all the vagaries, all the doubling time,  
14 I don't have to say, I used it to  
15 confirm what I believe, that is how I  
16 used doubling time.

17 Q. So getting back to our staging  
18 in 2001, we have a two centimeter lesion  
19 which we know is a fact because it is  
20 present on the film?

21 A. That's correct.

22 Q. Okay, so there is no dispute  
23 about that. With respect to the nodes,  
24 your, it is your opinion that the nodes  
25 were positive in 2001 because of the way



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1 that they appear on the film in 2003.

2 A. That's correct.

3 Q. You accept as an equally  
4 likely circumstance or scenario that the  
5 nodes were negative in 2001?

6 A. No, I don't.

7 Q. Why?

8 A. Based on the size of the lymph  
9 nodes, based on the size of the lymph  
10 nodes on 2003, based on my education,  
11 based on my experience and based on what  
12 I know about cancer, irrespective of  
13 anything else I say statistically, 70  
14 percent of lung cancer is stage 3 or 4,  
15 so if you if you just go by statistics  
16 alone, more likely than not she has  
17 advanced disease. I'm not even doing  
18 that, but what I will say is based on a  
19 six centimeter lesion, based on a 4.2  
20 subcarinal lesion based on a 19 month  
21 delay and based on the growth of her  
22 tumor, it was there. And based on the  
23 TNM classification.

24 Q. When we are talking about the  
25 lymph nodes you are giving me the



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1 measurements from the CT of Mrs.  
2 Richnafsky's chest on June 5th, 2003,  
3 correct?

4 A. Correct.

5 Q. And the measurements that you  
6 are using are what, Doctor?

7 A. I took the six by 4.7, well,  
8 the measurement, the only measurement I  
9 did is looked at the density of the  
10 lymph node, subcarinal 4.2 and again,  
11 with all the vagaries of the doubling  
12 time, I took the 4.2 and the volume of  
13 the sphere and of course that is not a  
14 sphere, it is 4.2 by 3.2 and I took the  
15 biggest measurement 4.2 and then  
16 calculated the volume and assumed 30 day  
17 doubling time because that's fast and she  
18 had an anaplastic or differentiated tumor.  
19 And what I wanted to know is to find  
20 out if there were cells in there to  
21 confirm what I believed.

22 Q. Did you add to your  
23 calculations the, the paratracheal lymph  
24 nodes that measured 17 by 13 millimeters?

25 A. No, I didn't. And I didn't



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1 even do the hilar either for the simple  
2 reason is the hilar is N 1, N 2 is the  
3 paratracheal and, and the subcarinal, you  
4 don't have to have ten lymph nodes to  
5 make it N 2, all you have to do is have  
6 one lymph node and I took the lymph node  
7 subcarinal 4.2 centimeters. If I took the  
8 six centimeter lesion which is even  
9 bigger, by the way, so it would have  
10 been N 1 disease and by the way, the,  
11 if you ask me if she was forgetting  
12 about the subcarinal she was stage 2,  
13 more likely than not she would have died  
14 of her lung cancer with that stage, stage  
15 2. It's 30 to 50 percent.

16 Q. The 6 by 4 point centimeter  
17 mass is the hilar mass?

18 A. Yes, it is N 1.

19 Q. And why are you referring to  
20 that as an N?

21 A. It is N 1, hilar mass is N 1.

22 Q. Okay, so that's --

23 A. It is a lymph node.

24 Q. So you are referring to that  
25 as a lymph node?



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1 A. As a lymph node.

2 Q. Okay. And then you are also  
3 referring to --

4 A. The right paratracheal 1.7 and  
5 1.3 subcarinal.

6 Q. Those are essentially normal,  
7 aren't they, 1.7 and 1.3?

8 A. No. Less than normal --

9 Q. All right. But you didn't use  
10 that in your calculations?

11 A. No, wasn't necessary.

12 Q. And the report said, describes  
13 the pretracheal lymph nodes as measuring  
14 17 by 13 millimeters?

15 A. Yes, that's 1.7 centimeters.  
16 Ten centimeters.

17 Q. But it is referring to more  
18 than one node?

19 A. Yeah, again, it didn't, I  
20 don't care if they had three or four  
21 nodes mixed in, it wouldn't change  
22 anything.

23 Q. And if it is three or four  
24 nodes, it is not, they are not larger  
25 than a centimeter?



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1 A. But again, I --

2 Q. There are three of them and it  
3 is 17 by 13 millimeters.

4 A. I think there were three nodes  
5 it would be normal, correct.

6 Q. Okay. Same with respect to the  
7 subcarinal adenopathy. That's not saying  
8 that is one node.

9 A. I didn't say it was three  
10 nodes.

11 Q. It doesn't say it is one node.

12 A. You would have to consider it  
13 as one node.

14 Q. Why is that?

15 A. Because that's -- it says --  
16 the subcarinal is at least 4.2 by 3.2.  
17 Normally a radiologist, normally a  
18 radiologist would say no to the nodes,  
19 they didn't do that.

20 Q. Well it doesn't say it is a  
21 single node either, does it?

22 A. It says, now we are playing  
23 with semantics.

24 Q. Right.

25 A. You can say anything you want.



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1 That's what that means to me.

2 Q. All right.

3 A. Okay? If you looked at what  
4 the radiologist said that is multiple  
5 lymph nodes, that is not what that, now  
6 we're looking at an interpretation, you  
7 can't have it both ways, all I'm saying  
8 is I read that as one node.

9 Q. That is your interpretation.  
10 Does it make a difference to your opinion  
11 if it is multiple nodes?

12 A. No because then I would take  
13 the hilar mass which is six centimeters  
14 which is even bigger and more likely than  
15 not you had a different stage more likely  
16 than not she would have died from her  
17 cancer.

18 Q. You've staged her as T 1, N  
19 1.

20 A. No, N 2.

21 Q. Sorry, N 2, let me start  
22 again. You staged her at T 1, N 2, M 0?

23 A. That's correct. And by the  
24 way, staging her, yeah, M0, that's  
25 correct.



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1 Q. And why are you staging her as  
2 M 0?

3 A. Because in 2001 I believe that  
4 there was no evidence of metastatic  
5 disease in the pancreas.

6 Q. And what do you base than  
7 opinion on?

8 A. The reason being the pancreas  
9 was very small was anaplastic formula,  
10 different -- didn't describe it as  
11 consistent with non-small cell, they said  
12 anaplastic malignant cells, and we are  
13 making the assumption that it's, it's the  
14 same primary by the way and what's even  
15 more interesting where small cell lung  
16 cancer goes to the pancreas, it is very  
17 uncommon for non-small cell to go to the  
18 pancreas, as a matter of fact, I may  
19 have seen maybe one. I don't recall  
20 seeing that, that is a very uncommon  
21 place, it is not uncommon for small cell  
22 but very uncommon for non-small cell so  
23 it is possible we're even dealing with  
24 another primary, but I'm, that wasn't  
25 what I, what I said, you don't like to



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1 say there's two different primary cells,  
2 so I'm willing to say it was metastatic  
3 disease.

4 Q. All right. You do accept as a  
5 general proposition that lung cancer can  
6 metastasize to the pancreas, correct?

7 A. I said small cell can easily,  
8 non-small cell, very, very uncommon.

9 Q. Uncommon but it happens?

10 A. Less than five percent  
11 probably.

12 Q. But it happens?

13 MS. SANDACZ: Objection.

14 A. Anything can happen, yes.

15 Q. It is reported in the medical  
16 literature?

17 A. That's correct.

18 Q. That lung cancer, non-small  
19 cell lung cancer metastasizes to the  
20 pancreas?

21 A. That's correct.

22 Q. Did you consider in formulating  
23 your opinion as to the M0 staging of  
24 Mrs. Richnafsky's cancer in 2001 that the  
25 CT that was done in 2001 did not show



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1 any evidence of cancer in the pancreas?

2 A. Since I didn't have both  
3 disease, I used that in my information,  
4 but the truth of the matter is a CT  
5 scan could miss a very small tumor, it  
6 could miss a four millimeter, a CT scan  
7 can miss a four millimeter tumor easily.  
8 Four millimeters if you believe that one  
9 cubic centimeter is ten to the ninth  
10 cells, a billion cells.

11 Four millimeters would have a  
12 lot of cells as well, it could be missed  
13 on the CT scan. But since the CT scan,  
14 the pancreas there was no evidence of  
15 disease in that since, in my opinion I  
16 try to be objective as I can, I felt it  
17 was M0.

18 Q. And that's what I'm trying to  
19 find out what the basis of your opinion  
20 is, I'm sorry, but I didn't understand  
21 your response, did you consider in  
22 formulating your opinion that she was M 0  
23 in 2001 that the CT that was done in  
24 2001 did not show any evidence of cancer  
25 in the pancreas, or was that not part of



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--

A. I used that piece of evidence plus the CT, that is the data from 2003.

Q. All right.

A. Obviously it would be easy if she had a mass in the pancreas we wouldn't be here.

Q. Correct.

A. So, since what was given was given, is it possible she did, yes, but I just said, I try to be objective in my, in my determination, that's why I said it was M 0.

Q. All right. Do you have an opinion as to when the metastasis to the pancreas occurred?

A. No. Obviously if I said it was M 0 it had to be between 2001 and 2003.

Q. And that is what I'm asking you if you have an opinion to a medical --

A. I didn't make that calculation, the answer, I didn't try to.

Q. In formulating your opinion in this case, did you examine or review the



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1 health of the lymph nodes that were  
2 visible on the CT for 2001?

3 MS. SANDACZ: Objection.

4 A. Chest in 2001 because there's  
5 no, the CT scan didn't go high enough.

6 Q. So there are no lymph nodes  
7 present anywhere on that study?

8 A. They may be abdominal lymph  
9 nodes but I didn't focus, I didn't  
10 focus --

11 Q. That's what I'm asking.

12 A. I didn't focus on the abdomen.  
13 Unless the report says there is abdominal  
14 lymph nodes, if I'm not mistaken it says  
15 there was 4 by 3 point centimeter cyst,  
16 cyst fluid collection in the right lower  
17 lobe, there is no mention of a, of a  
18 lymph node in the abdomen, so, and since  
19 lung cancer going to the abdominal lymph  
20 nodes as a site would be very unusual, I  
21 didn't focus on that, no.

22 Q. You didn't make any assessment  
23 of the lymph nodes at all on the film  
24 from 2001 in formulating your opinion?

25 A. The only one, no, the



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1 assessment I did note is try to find  
2 lymph nodes in the chest. They didn't  
3 have any because they didn't have any,  
4 they didn't go high enough up the  
5 finding.

6 Q. You mentioned earlier that one  
7 of the, I think using a word you used,  
8 one of the vagaries of doubling time  
9 theory is that it requires you to make a  
10 number of assumptions to get to the end  
11 result, correct?

12 A. You make some assumptions,  
13 that's correct.

14 Q. What assumptions did you make  
15 in this case?

16 A. I made the assumption that  
17 the, that the tumor number of spheres you  
18 can calculate the volume. I made the  
19 assumption that the growth rate is  
20 constant which we know it isn't. And I  
21 made the assumption that the double time  
22 was 30 days.

23 Now if the tumor grows fast,  
24 slow, fast and the 30 days is the  
25 fastest part and the tumor at some point



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1 grows slower at 150, the tumor is bigger  
2 than in 2001. So it is, it would be  
3 hard to believe that a solid tumor could  
4 grow, would double in size in 15 days,  
5 because if that was the case, then that  
6 is even worse. The 30 days is pretty  
7 fast doubling time.

8 Q. What is the range of days for  
9 lung cancer that is available to you?

10 A. Numbers 15 to 500. The mean of  
11 134.

12 Q. And what value did you use?

13 A. 30.

14 Q. Did you calculate the doubling  
15 time using any other value besides 30?

16 A. No.

17 Q. You could do that though,  
18 couldn't you?

19 A. Sure, if I, I could do it at  
20 zero, I could do it at one to every  
21 day, I mean I could it to change, I  
22 can do it at 500 days. Either way, in  
23 either extreme, I can do it that way.

24 Q. And the stage would be  
25 different --



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1           A.       No, no, the stage, the stage  
2       would be different maybe at 10 days and  
3       15 days. It wouldn't be different at 30,  
4       now remember, I based, in other words, to  
5       confirm what I said based on the TNM  
6       process, anything above probably 25 days,  
7       30 days, let's say 30 days, anything  
8       above that wouldn't change the stage  
9       whatsoever.

10       Q.       What doubling time, what value  
11       would you have, would you use if you  
12       wanted the end result to be a stage 1?

13       A.       It is not what I want, if you  
14       want to do a calculation, you have to  
15       probably have a 15 day doubling time,  
16       probably have a 15 day doubling time.  
17       Then you still might have cells.

18       Q.       So, if we used 15 as opposed  
19       to 30, we would have stage 1?

20       A.       We might, I don't know, I have  
21       to do it.

22       Q.       And then there are other  
23       values we could use if we the end number  
24       was stage 2, that would require a  
25       different value?



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1           A.       No, you know, stage 2,  
2       remember, stage 2 would be a six  
3       centimeter lesion, so it would be  
4       actually probably not only the 30 day,  
5       you can -- you can go lower than that  
6       and you'd still probably have stage 2  
7       because that is a bigger lesion.

8           Q.       All right, what would be the  
9       value that you would use in that  
10      equation?

11          A.       I don't know, again, I used,  
12      I'm going to repeat it, I don't usually  
13      determine the stage based on the doubling  
14      time. I use it for confirming what I  
15      believe and since obviously they're in  
16      sync, then obviously that's why I'm  
17      testifying.

18          Q.       Well I'm confused though as to  
19      where you got the 30?

20          A.       Oh, I'm sorry, normally when  
21      you talk about, when people that know  
22      about, know about doubling time, they  
23      normally say 30 to 60 would be a fast  
24      growing tumor, 60 to 90 would be moderate  
25      growing tumor and above 90 would be a, a



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1 slow growing tumor. Since this was a  
2 differentiated tumor I took 30.

3 I actually could have taken  
4 60. And it would have made the, the more  
5 tumor cells there. If you took a 15 day,  
6 illogical to take 15 day doubling time is  
7 that you'd then are talking about small  
8 cell lung cancer, testicular carcinoma,  
9 lymphoma.

10 In other words, when you look  
11 at, when you see some diffuse lymphomas,  
12 you can actually watch the tumors double  
13 before your eyes. That's not lung cancer.  
14 And since -- in the growth rate of  
15 tumors the adenocarcinomas I already told  
16 you was a, was 134 day doubling time  
17 with a range of say 15 days to 500  
18 days, 30 days is fast.

19 Q. If we pulled any one of those  
20 text books off your shelf, the Divita,  
21 the Kufe or any of those books, could  
22 you point to a place in that book where  
23 it says that 30 days is the, the  
24 doubling time of --

25 A. I don't know, I didn't look at



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1 any of those textbooks to find that out.

2 Q. Well I did before I came here.

3 A. Did you find any?

4 Q. I looked in three different  
5 editions of Devita. And each edition is  
6 two volumes, each volume is 1500 pages.  
7 9,000 pages of Devita I went through and  
8 I did not see one reference to doubling  
9 time in adenocarcinoma or lung cancer or  
10 anything like that.

11 MS. SANDACZ: Object. Go  
12 ahead.

13 A. How many, how much time is  
14 devoted into that book on the issue of  
15 tumor growth and doubling time, tumor  
16 growth?

17 Q. He doesn't even mention  
18 doubling time.

19 A. So, does that mean it is not,  
20 it is not, there is no such thing?

21 Q. That is what I'm trying to  
22 understand --

23 A. I really --

24 Q. Where does the 30 number come  
25 from, what is your authority for that



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1 number?

2 A. I have given you the  
3 reference, Shackeny, Annals of Internal  
4 Medicine, 1978.

5 Q. An article that is 28 years  
6 old?

7 A. You know, it is 28 years old.  
8 Tennent 's book on the Basic Science of  
9 Oncology by Tennent. He talks about  
10 doubling time.

11 Q. What has happened to the state  
12 of knowledge in oncology in 28 years in  
13 this country?

14 A. Doubling time, I gave you  
15 reference to doubling time because  
16 doubling time is as we talked about, you  
17 talk about growth of tumors exponential  
18 growth, as a matter of fact, you talk  
19 tumors as I said in the situation, you  
20 talk about well differentiated, poorly  
21 differentiated, moderately differentiated.

22 Does that have, talk about  
23 anaplastic cells. When you, when you talk  
24 to someone if you have a wholly  
25 differentiated tumor, everybody knows what



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1       that means, that means a fast growing  
2       tumor.   However, in certain, in the 30  
3       day doubling time is considered fast. 30  
4       to 60. Is there data? There is data as  
5       I said to you in the articles I gave  
6       you there is data to support that.

7           Q.       Can you cite anything more  
8       recent to me that says that doubling time  
9       is a reliable method of calculating tumor  
10      growth? Anything written between 1978 and  
11      2006 that says that doubling time is a  
12      reliable method of calculating tumor  
13      growth?

14           A.       I didn't say, I hope you are  
15      not, I didn't say is a reliable method,  
16      I admitted to you it had its drawbacks.  
17      And I already said to you, I didn't base  
18      my opinion on the doubling time. I based  
19      it on the TNM classification. All I did  
20      was use the doubling time to confirm what  
21      I believe. That's all.

22           Q.       But you are going to talk to  
23      our jury in this case about the doubling  
24      time theory, are you not?

25           A.       Yes.



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1 Q. So that is what I'm asking  
2 you, I'm asking you Dr. Ettinger to give  
3 me a citation.

4 A. I have given you a citation,  
5 Shackeny's article and Tennant's book.

6 Q. Okay, what year was Tennant's  
7 book?

8 A. 1992.

9 Q. Okay, and what is that book  
10 called?

11 A. The Basic Science of Oncology.

12 Q. And I want to make sure I  
13 understand --

14 A. The Basic Science of Oncology.

15 Q. What are you referring to?

16 A. That's the book.

17 Q. You have notes?

18 A. And I refer to--of, of-- the  
19 Annals of Thoracic Surgery the doubling  
20 time for osteogenic sarcoma 1984--

21 Q. This case isn't about  
22 osteogenic sarcoma--

23 A. No, but it uses--it gives you  
24 the use of the-- for the clinical use of  
25 doubling times, and then there is Gettis'



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1 book of 1979 it talks about tumor  
2 volumes, it's all yours.

3 MS. SANDACZ: Is that an  
4 exhibit too?

5 MS. PANTAGES: Yeah--

6 MS. SANDACZ: Well, then we're  
7 going to copy it before you take it.

8 THE WITNESS: And Shackney's  
9 article.

10 MS. SANDACZ: No, no, no,  
11 don't-- don't --don't do that.

12 MS. PANTAGES: No, don't go  
13 through all my stuff. Okay. Let me just  
14 put it down here --

15 MS. SANDACZ: All right. Okay.

16 THE WITNESS: Shackney's, I  
17 think that's how you spell it, Shackney's  
18 Annals of Internal Medicine, 1978.

19 And the others are Annals of  
20 Thoracic Surgery, 1984. And that's  
21 Rosenberg, surgical oncologist. And the  
22 other was Gettis' British, right--British  
23 Journal of --

24 ///

25 ///



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## EXAMINATION

BY-MS. PANTAGES:

Q. Of diseases something?

A. British Journal of Diseases of the Chest, 1979. And Tennent--Tennent--Tennent Book of Basic Science of Oncology.

Q. Do you intend to testify before our jury that doubling time is a reliable method of calculating tumor growth?

A. Reliable? No, I-- it's flawed. That's what I'm going to say.

Q. Would you agree with me that is an unreliable method of calculating tumor growth?

A. No. It's flawed.

Q. But you don't say it's a reliable method of tumor growth?

A. I would not say it is a reliable method.

Q. You would agree with me that it has not been accepted by the scientific and medical community as a reliable method of calculating tumor

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1 growth?

2 A. It's not been accepted as a  
3 reliable method of calculating tumor  
4 growth as I just said, it's flawed. It  
5 has -- reliable, I didn't say its  
6 unreliable and I didn't say it's  
7 reliable, its somewhere in between.

8 Q. But you agreed with me that  
9 it's not been accepted by the medical  
10 community as a reliable method of  
11 calculating --

12 A. I don't know what medical  
13 community you're talking about? Are you  
14 talking about a clinician? I don't use  
15 doubling time in my practice.

16 Q. That's my point.

17 A. Yes.

18 Q. So you agree with me that--  
19 that doubling time has not been accepted  
20 by the medical community, oncologists such  
21 as yourself, as a reliable method of  
22 calculating tumor growth, that's true,  
23 right?

24 A. That's true, yes.

25 Q. We're talking about the



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1 assumptions that you made in this case.  
2 You assumed, and I'm still, I don't mean  
3 to be argumentative, I'm not sure where  
4 you got the 30 days. You picked the 30  
5 days, correct, you didn't go to a table  
6 or to a textbook or to an article, you  
7 took a range of values, 15 days to 500  
8 days and you picked the 30 day figure?

9 A. Yes. Now, I could have  
10 picked, tell you that 500 -- I could  
11 have picked the 500 days. The mean is  
12 134 in the Shackney article. It's my  
13 understanding about tumor growth, I've  
14 given you a range of 30 to 60 days, 60  
15 to 90 days, and 90 to 120 days.

16 Say a tumor has a one day  
17 doubling time would be as fast -- to say  
18 a tumor has a 15 day doubling time would  
19 be extremely fast. That's where the range  
20 is what we say is the 30 to 60, 60 to  
21 90, 90 to 120. You know-- Could it be  
22 different? The answer is yes. And I've  
23 already said to you, and I'm not trying  
24 to be argumentative either, is that I use  
25 it to confirm what I believe.



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1 Remember one thing, the CAT  
2 scan didn't show on 2001 the hilum or  
3 the mediastinum. So I was a little  
4 confused when I read Dr. Goldfarb's  
5 testimony, that he was able to stage it  
6 as T1N0M0. In truth, the best he could  
7 have done since he doesn't use the other  
8 CAT scan of 2003 was to stage it as  
9 T1NXMX, because he didn't have any other  
10 data to look at the scans.

11 Q. Nor did you?

12 A. No. That's why -- absolutely  
13 I didn't. That's why one has to use  
14 the previous -- the scan in 2003 to try  
15 to get some idea of what happened in  
16 2001. That's what I did.

17 Q. I think my understanding could  
18 be, because I was at Dr. Goldfarb's  
19 deposition, my understanding was that he  
20 based his opinion that it was T1N0M0 days  
21 based upon his clinical training and  
22 experience and review of the literature  
23 where the probability of a tumor, a  
24 primary tumor of two centimeters more  
25 likely than not was node negative



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1 disease?

2 A. But of course he did not use  
3 the data, he just took that in isolation,  
4 and did not look at the 2003 scan and  
5 saw a 6 centimeter hilar lymph node and  
6 a 4.2 centimeter subcarinal lymph node.  
7 And to be honest with you, he's a  
8 surgeon.

9 Q. And what does that mean?

10 A. Well--He doesn't do lung  
11 cancer. As a matter of fact, it's my  
12 understanding he rarely does lung cancer.

13 Q. Well, you rarely do breast  
14 cancer but you testify in breast cancer  
15 cases?

16 A. That's true. But this is not  
17 a breast cancer case, this is a lung  
18 cancer case.

19 Q. But you don't have any problem  
20 testifying in a breast cancer case  
21 though?

22 A. No, but I see breast cancer --  
23 I'm not here to argue with you.

24 Q. No, I don't want to argue with  
25 you either. That's why I asked that you



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1 line of questioning at the beginning.

2 A. I know.

3 Q. It's still within your realm  
4 of knowledge?

5 A. Still within my realm of  
6 knowledge, that's correct.

7 Q. And likewise lung cancer is  
8 still within Dr. Goldfarb's realm of  
9 knowledge?

10 MS. SANDACZ: Objection.

11 THE WITNESS: That's correct.

12 MS. SANDACZ: He -- yeah.

13 THE WITNESS: He had said in  
14 his own deposition that he would refer to  
15 a thoracic surgeon.

16 **EXAMINATION**

17 **BY-MS. PANTAGES:**

18 Q. He also said that he sits on  
19 tumor boards where lung cancer patients  
20 are --

21 A. That's arguing --

22 MS. SANDACZ: Objection. You  
23 know the testimony was absolutely not  
24 that. Go ahead.

25 MS. PANTAGES: You don't need



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1 to editorialize, Bev.

2 MS. SANDACZ: No, no, I'm not  
3 editorializing, I'm just telling you that  
4 I'm objecting to the based upon it and  
5 the facts that that is not the way the  
6 testimony is. I'm not telling you what  
7 his testimony was, but I'm telling you  
8 that's not what it was. Don't  
9 mischaracterize and be unfair to this  
10 witness--

11 **EXAMINATION**

12 **BY-MS. PANTAGES:**

13 Q. Do you remember a case, a case  
14 captioned Fry versus Humana Health?

15 A. No.

16 Q. You testified in this case in  
17 September -- on September 11, 1998. The  
18 issue in that case, you were again a  
19 defense expert in that case, the issue in  
20 that case was 17 month delay in  
21 diagnosing lung cancer. You and I can  
22 agree that in this case there was a 19  
23 month delay in diagnosing Susan's cancer,  
24 right?

25 A. That's correct.



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1 Q. No dispute about that?

2 A. That's correct.

3 Q. In this case there was a 17  
4 month delay in diagnosing cancer and the  
5 cancer that was missed was observed as a  
6 1 centimeter lesion both on a chest film  
7 and on a CT scan. And it was a CT  
8 scan of the chest?

9 A. Yes.

10 Q. No evidence of any nodal  
11 disease, no evidence of any metastatic  
12 disease, a lesion that was half the size  
13 of Susan's?

14 A. Yes.

15 Q. Your opinions in that case  
16 were identical to the opinions in this  
17 case?

18 MS. SANDACZ: Objection, I'm  
19 going to -- unless you want to show him  
20 the deposition and give him all the facts  
21 in the case.

22 MS. PANTAGES: Well, I haven't  
23 asked my question yet.

24 MS. SANDACZ: I understand  
25 that.



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**EXAMINATION****BY-MS. PANTAGES:**

Q. You have testified in cases, have you not, Dr. Ettinger, where you did have a full view of the lung and it was clean and you still held the opinion that there was nodal involvement and potential for micro metastatic disease, that's been your opinion in other cases, correct?

MS. SANDACZ: Objection.

THE WITNESS: That's been my opinion in other cases and it's not been my opinion in other cases. Because the majority of cases I do are plaintiff, as a matter of fact.

**EXAMINATION****BY-MS. PANTAGES:**

Q. We're going to talk about that in a minute?

A. Okay.

Q. But I want to talk about Mr. Fry's case for a moment.

A. I don't know the case, I don't remember it.

Q. But you're not, you're not

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1 taking issue with me. You have in prior  
2 cases served as an expert witness where  
3 there was a significant delay -- do you  
4 consider 17 months to be a significant  
5 delay in diagnosing cancer?

6 A. That's a delay.

7 Q. That certainly could impact on  
8 a patient's outcome?

9 A. That's correct.

10 Q. Just like had Mrs. Richnafsky  
11 gotten--Mrs. Richnafsky gotten treatment  
12 19 months prior, irrespective of whether  
13 or not you think she was going to die  
14 as result of her disease, certainly her  
15 chances for a longer survival were  
16 affected by that, correct?

17 MS. SANDACZ: Objection.

18 THE WITNESS: Can you repeat  
19 the question?

20 **EXAMINATION**

21 **BY-MS. PANTAGES:**

22 Q. I absolutely can. I  
23 understand that it's your opinion in this  
24 case that Susan Richnafsky was going to  
25 die from lung cancer?



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1 A. That's correct.

2 Q. Is it your opinion in this  
3 case that had treatment been initiated in  
4 December or January of 2001 or 2000 --  
5 let me ask the question differently.

6 Is it your opinion in this  
7 case had treatment been initiated as  
8 early as December of 2001 that more  
9 likely than not Mrs. Richnafsky would  
10 have died on October 10, 2003?

11 A. No more likely than not she  
12 might not have.

13 Q. She would have lived longer  
14 than October 10, 2003?

15 A. Yes.

16 Q. If she had gotten treatment as  
17 early as December 2001, do you have an  
18 opinion as to how much longer after  
19 October 10, 2003 she would have lived?

20 A. No. But the statistics would  
21 say the median survival for metastatic  
22 disease is 8 to 10 months. The one  
23 year survival is 35 percent. The two  
24 year survival is about 15 to 20 percent.  
25 That's the data.



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1 Q. But it's your opinion in this  
2 case more likely than not had she been  
3 treated as early as December 2001 that  
4 she would have lived longer than October  
5 10, 2003?

6 A. That's correct.

7 Q. You can't tell me how much  
8 longer, whether it would have been a  
9 month, six months, a year, you just can  
10 tell me that she would have lived beyond  
11 the date of her death, October 10, 2003?

12 A. In my opinion the answer it to  
13 that is yes.

14 Q. Now getting back to Mr. Fry's  
15 case, you were a defense expert in this  
16 case. And in this case you still came  
17 to the opinion that there was nodal  
18 involvement and micro metastatic  
19 involvement even in the circumstance where  
20 there was a clean CT of the chest as  
21 far as the nodes were concerned?

22 MS. SANDACZ: I'm going to  
23 object.

24 Doctor, if you need to look at  
25 the deposition --



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1 THE WITNESS: I would like to  
2 read the deposition because I would like  
3 to know what the CAT scan was 17 months  
4 later and what disease she said, he, she,  
5 you said Mr. Fry.

6 MS. PANTAGES: It's Ira.

7 THE WITNESS: Ira Fry, what he  
8 had 17 months later.

9 **EXAMINATION**

10 **BY-MS. PANTAGES:**

11 Q. My point is that you have  
12 testified in other cases where you did  
13 have the information that we're missing  
14 in this case with respect to whether or  
15 not a chest X-ray or a CT of the chest  
16 was a full view and you have still  
17 testified in certain cases even with that  
18 information, even with a primary lesion  
19 smaller than Mrs. Richnafsky's, that that  
20 patient was going to die from the disease  
21 one way or another?

22 MS. SANDACZ: Same objection--

23 THE WITNESS: I have for the  
24 simple reason, even with a T1 lesion like  
25 this, that is T1, on the CAT scan, and



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1 M0, N0, in 2000 when this case was, the  
2 patient, there is still a 7 to 8 --  
3 depending on how fast tumor divides and  
4 everything else, that's the grade of the  
5 tumor, well differentiated sector, still  
6 has a 70 percent chance -- only a 70  
7 percent chance being free at five years.  
8 So that means there is a 30 percent  
9 chance. And in this case you're asking  
10 know make a decision on one point on the  
11 curve, what is 17 months later what did  
12 the scan look like.

13 **EXAMINATION**

14 **BY-MS. PANTAGES:**

15 Q. I'm not finding it.

16 A. I would assume I would have  
17 had a good reason for saying that.

18 Q. I'm sure you did.

19 I-- I have gotten probably 30  
20 transcripts from various sources of your  
21 testimony from the early '90s to as  
22 recent as last year. Out of 30 they're  
23 all defense depositions. Can you tell me  
24 when the last time you testified in a  
25 deposition on behalf of a plaintiff?



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1           A.       I'd have to ask my-- you know  
2       what I could do. I could give you my,  
3       since I've testified in Federal Court I  
4       can give you a list.

5           Q.       And how recent is the Federal  
6       Court list?

7           A.       Maybe three years ago, last  
8       one.

9           Q.       Is that something that's  
10      accessible that we could get before I  
11      leave?

12           MS. SANDACZ: No. I'll get  
13      to them.

14           THE WITNESS: We'll get it--

15           MS. PANTAGES: Well, we're  
16      three days before trial.

17           MS. SANDACZ: I still don't  
18      have Dr. Deborah's documentation that you  
19      were supposed to provide me two weeks  
20      ago. I'll provide it when the doctor  
21      gives to me and then I'll provide it.

22           MS. PANTAGES: Is that  
23      something that you can get today, Doctor?

24           MS. SANDACZ: No. He cannot.

25           MS. PANTAGES: Beverly, I'm



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1 asking him.

2 MS. SANDACZ: No. I'm  
3 instructing the witness, no, I will get  
4 it, I will review it, and then I will  
5 provide it. So that's --

6 **EXAMINATION**

7 **BY-MS. PANTAGES:**

8 Q. That's something that's easily  
9 accessible, notwithstanding Ms.  
10 Sandacz's --

11 A. Well, my attorney --

12 Q. She's not your attorney.

13 A. She's the attorney.

14 Q. She is a attorney?

15 A. A attorney.

16 Q. An attorney?

17 A. An attorney.

18 Q. Can you tell me when the last  
19 time you testified for a plaintiffs  
20 lawyer?

21 A. Yeah, it's recent, but I don't  
22 recall.

23 Q. Can you tell me the lawyer's  
24 name?

25 A. You know, I block these all



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1 out to be honest with you.

2 Q. Can you tell me what the issue  
3 in the case is?

4 A. Lung or breast, it may have  
5 been a breast case. You know, I do  
6 more sarcoma, but --

7 Q. Can you tell me when the last  
8 time when you testified for a plaintiff  
9 in a lung cancer case is?

10 A. I don't recall it to be honest  
11 with you.

12 Q. Have you done that in 2006?

13 A. It's 2006 already. No, the  
14 answer is no.

15 Q. Did you do it in 2005?

16 A. Yeah, but I just don't  
17 remember.

18 Q. Can you tell me anything --

19 A. I can't tell you anything.

20 Q. Can you tell me about the  
21 issue in the case?

22 A. Delay in diagnosis. Understand  
23 a couple things. I review cases for  
24 both plaintiff and defense, and not many  
25 of them go to trial. And not many of



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1       them even get depositions. So just to let  
2       you know that. I guess --

3           Q.       Can you and I agree that the  
4       majority of cases that you testify in,  
5       you testify for the defense?

6           A.       No, recently it's been more  
7       for the defense. But over time, I've  
8       been doing it since 1985, it's about 55  
9       percent plaintiff and about 45 percent  
10      defense.

11          Q.       And that's what I'm trying to  
12      understand. I'm trying to understand two  
13      things. Have you ever heard of ATLA,  
14      The American Trial Lawyers Association?

15          A.       No.

16          Q.       I'm a member of that, it's a  
17      national academy or national association,  
18      there is thousands of members. And we're  
19      computer connected so I can go to the  
20      ATLA computer site, I can go to the  
21      message board and I can post a question.  
22      And I posted a question that said, I'm  
23      going to take Dr. David Ettinger's  
24      deposition. Prior depositions say that  
25      he testifies for plaintiffs 60 percent of



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1 the time. Out of the thousands of  
2 members here, if you've retained him as a  
3 plaintiff's expert could you please  
4 contact me. Thousands of members. Do you  
5 know how many contacts I got?

6 A. How many?

7 Q. One. And I called the guy  
8 and said, tell me about the case, and he  
9 said I can't. It was 15, 20 years ago.  
10 Have you testified for a plaintiff in a  
11 lung cancer case within the last 15  
12 years?

13 MS. SANDACZ: Objection, he  
14 just said he did last year.

15 THE WITNESS: Absolutely, but  
16 I just don't recall to be honest with  
17 you. I don't keep records of that.  
18 Unless my secretary for the Federal  
19 Court, I will give you the list or she  
20 will give you the list.

21 **EXAMINATION**

22 **BY-MS. PANTAGES:**

23 Q. And that's the other thing  
24 that I'm trying to wrap myself around.  
25 If in Mr. Fry's case there was a 17



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1 month delay in diagnosis and the sentinel  
2 lesion was barely detectible, one  
3 centimeter, what -- and you think you  
4 were comfortable testifying for the  
5 defense in that case? Because you don't  
6 talk about proximate cause -- I'm sorry,  
7 you don't talk about standard of care,  
8 you're talking about proximate cause, it  
9 was your opinion in that case that that  
10 17 month delay in diagnosing a one  
11 centimeter lesion where there was  
12 absolutely no evidence of nodal  
13 involvement or metastatic involvement  
14 anywhere, your opinion on that case was  
15 that man was not a stage one cancer in  
16 that situation. Based on those facts.

17 A. No, I-- excuse me. You're  
18 giving me half the facts.

19 Q. Okay.

20 A. You're giving me what happened  
21 in, to start where the delay was, but I  
22 didn't get nor did you give me the  
23 information on what happened 17 months  
24 later. What is the size of the --  
25 because obviously the patient must have



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1 had metastatic disease or advanced  
2 disease, otherwise there wouldn't be a  
3 case. So what I'm asking you is what  
4 was 17 months later? What did that CAT  
5 scan look like? All did I here was the  
6 same thing. As far as I'm concerned you  
7 could have had a normal CAT scan. You  
8 could have had a complete chest x-ray.  
9 And been normal. In 2001 on your  
10 client. And based on what I know about  
11 the disease in 2003 I would have said  
12 the same thing.

13 Q. So the fact that we only have  
14 an abdominal CT in 2001 makes no  
15 difference in your opinions at all,  
16 right?

17 MS. SANDACZ: Objection, that's  
18 not what he said.

19 THE WITNESS: I didn't say  
20 that. I said if you had a CAT scan and  
21 hypothetically speaking it was normal,  
22 except for the mass, chest CT,  
23 hypothetically speaking if it was normal,  
24 although I don't think it would be  
25 normal, but say it was normal, and based



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1 on what I know in 2003, I would have  
2 said to a reasonable degree of medical  
3 probability the patient had stage 3  
4 disease.

5 **EXAMINATION**

6 **BY-MS. PANTAGES:**

7 Q. I thought that's what I just  
8 said. It doesn't matter in your opinions  
9 in this case, your opinions in this case  
10 are your opinions in this case,  
11 irrespective of whether that CT in 2001  
12 was an abdominal CT or a chest CT,  
13 correct?

14 MS. SANDACZ: Objection.

15 THE WITNESS: Well, obviously  
16 if the chest CT saw it, a hilar lymph  
17 node, I mean a hilar mass, it would be  
18 different.

19 **EXAMINATION**

20 **BY-MS. PANTAGES:**

21 Q. Right.

22 A. I'm saying, no -- I'm giving  
23 you hypothetical -- you gave me a  
24 hypothetical, I'm giving you a  
25 hypothetical. Had the CAT scan been



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1 done, chest CT been done, and it was  
2 done and it was read as normal except  
3 for the mass, and nothing further was  
4 done and then 2003 came around and the  
5 hilar mass was 6 centimeters, the  
6 subcarinal was 4.2 centimeters, despite  
7 the normal chest CT scan, I would have  
8 said she had stage 3 disease--it was  
9 microscopic in 2001, based on what I know  
10 about the anaplastic carcinoma, based on  
11 what I know about a poorly differentiated  
12 carcinoma and based on what I know about  
13 the 4.2 centimeters subcarinal lymph node,  
14 and the 6 centimeters hilar lymph node.

15 Q. So your opinions in this case  
16 are based upon the information that you  
17 got from the CAT scan in June of 2003,  
18 correct?

19 A. Sure, because that's the only  
20 information we have.

21 Q. And it doesn't make any  
22 difference to your opinion one way or  
23 another assuming that the rest of the  
24 chest was clear, whether or not there was  
25 an abdominal CT scan or a chest CT,



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1 correct?

2 MS. SANDACZ: Objection.

3 THE WITNESS: Yes, unless it  
4 was positive.

5 Then we wouldn't be here.

6 **EXAMINATION**

7 **BY-MS. PANTAGES:**

8 Q. Right. And that's -- that's  
9 essentially, I don't remember all the  
10 details from Mr. Fry's case, but that's  
11 essentially what happened in that case.  
12 There was a one centimeter lesion and 17  
13 months later there was some finding that  
14 allowed you to conclude that the  
15 advancement of the disease was such that  
16 this patient was going to die from this?

17 A. Absolutely.

18 Q. All right. So what I'm trying  
19 to envision, Dr. Ettinger, and I guess  
20 this is what I'm hoping you can help me  
21 with, under what circumstances could you  
22 possibly be a plaintiff's expert, there  
23 wouldn't be a circumstance instance that  
24 a plaintiff would bring a medical  
25 malpractice case or a wrongful death case



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1 where the delay in diagnosis did not  
2 result in an incredibly advanced disease  
3 at the time of diagnosis?

4 A. Well, I'll give you the  
5 example.

6 Q. Great. I'm all ears.

7 A. Stage 3 B non small cell lung  
8 cancer, pleural effusion, 17 months delay,  
9 the only thing that the patient has is a  
10 lung mass, two centimeters lung mass, and  
11 a pleural effusion. And the patient --  
12 and they do a needle biopsy-- needle  
13 aspiration of those cells and it was --  
14 and it was cells were positive for  
15 adenocarcinoma, TTF1 which is thyroid  
16 transcript factor 1, positive, meaning  
17 it's lung cancer, 17 months before the  
18 only thing the patient had was a chest  
19 X-ray, there was no evidence of pleural  
20 effusion.

21 I'd take that case for the  
22 plaintiff and win it on the basis of  
23 that the patient didn't have a-- I don't  
24 know if I'd win it but I would testify  
25 on behalf and say that the patient did



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1 not have fluid 17 months before, that  
2 stage 1 disease.

3 Q. All right. And what's the  
4 difference between -- because pleural  
5 effusion is evidence of a very advanced  
6 disease, correct?

7 A. Single cells, you see you have  
8 to have -- in other words, there is no  
9 way, it's probably -- unless the patient  
10 had masses in the pleura, it's fluid and  
11 cells so it's a smaller amount of tumor.  
12 And doesn't take that many cells because  
13 the hydrostatic mechanism of a pleural  
14 effusion is very, the body is a very  
15 unique thing, and so it doesn't take that  
16 many cells for fluid to leak out. 17  
17 months later it would be significant. And  
18 I would believe, and again we're talking  
19 about to a reasonable degree of medical  
20 probability that that patient would have  
21 had stage 1 disease.

22 Q. Can you remember the last time  
23 you testified in a case like that?

24 MS. SANDACZ: Objection. He  
25 just said it three times. 2005.



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1 THE WITNESS: I don't know.

2 EXAMINATION

3 BY-MS. PANTAGES:

4 Q. The truth of the matter is,  
5 Doctor, that there is a very narrow  
6 selection of cases that you actually  
7 could testify as a plaintiff's witness  
8 in, correct?

9 MS. SANDACZ: Objection.

10 THE WITNESS: Well, I don't  
11 know if that's narrow thing. I get  
12 asked, to be honest with you, to review  
13 cases for the plaintiff and for the  
14 defense, and a lot of times the good  
15 lawyers ask me to look at case to see  
16 if they have a case that's reasonable.

17 So a lot of the plaintiffs'  
18 cases that I get to review and I say  
19 that is six months delay or a ten months  
20 delay or 15 months delay, but let me  
21 tell you, when the patient died the  
22 patient had wide spread disease, I don't  
23 think, unless you're dealing with an  
24 idiot on the defense side, and I don't  
25 know of any idiots on this side in



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1 Maryland that are on the defense to be  
2 honest with you, I'd say you're going to  
3 lose this. Most good lawyers don't want  
4 to take frivolous cases.

5 And a lot of those are on the  
6 plaintiff's side, to be honest with you.  
7 So--so the defense has to defend three  
8 months delay, six month delay. So -- but  
9 I do get involved in good plaintiff's  
10 cases. But I don't want to -- that's  
11 why-- I do both plaintiff and defense and  
12 that's I didn't say to you about the  
13 doubling time is fraught with danger  
14 because I want to be consistent and not  
15 -- and I try to be.

16 **EXAMINATION**

17 **BY-MS. PANTAGES:**

18 Q. Is it your testimony that 60  
19 percent of the cases that you review are  
20 plaintiffs cases? Or 60 percent of the  
21 cases that you testify in are plaintiffs  
22 cases?

23 A. No, 60 percent of what I  
24 review are plaintiff's cases. And those  
25 are harder cases in the sense from the



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1 standpoint of the delay. I mean, the  
2 individual is upset and thinks there's  
3 delay and calls the-- and calls the  
4 lawyer, says, I think I want to -- you  
5 know --

6 Q. We're talking about the  
7 assumptions that you made, one of the  
8 assumptions that you made in formulating  
9 your opinion in this case is that there  
10 is a constant doubling time, correct?

11 A. That's correct.

12 Q. No variation in the doubling  
13 time cycle, correct?

14 A. That's correct.

15 Q. And that you and I can agree  
16 that that is not based -- that's not  
17 based, in fact, in terms of how you know  
18 that cancer actually does progress?

19 A. I've said that, yes.

20 Q. You also have to assume that  
21 the cancer is a perfect sphere in order  
22 to do the calculation, correct?

23 A. That's correct.

24 Q. And you and I can agree that  
25 you didn't know the shape of the tumor



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1 in 2001, correct?

2 A. Well, I could put a -- try to  
3 get a radiologist to really draw it out  
4 for me and put a number, but that's  
5 correct.

6 Q. You didn't do that?

7 A. No, I would have taken --  
8 since I would have had to take, since  
9 I'm dividing up a sphere, I have to  
10 assume a sphere, I took the largest  
11 diameter.

12 Q. And you don't know actually  
13 what shape this tumor was?

14 A. That's correct.

15 Q. By virtue of the fact that  
16 this may not be spherical, your  
17 calculations could be off by 5, 10, 20  
18 percent, correct?

19 MS. SANDACZ: Objection.

20 THE WITNESS: They could be  
21 off, that's correct.

22 **EXAMINATION**

23 **BY-MS. PANTAGES:**

24 Q. What's the margin for error in  
25 your calculation?



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1           A.       A lot.    But again I used a  
2           calculation -- let me reiterate.    Since  
3           I've already testified it's based on the  
4           TNM classification, all I did was to use  
5           it to confirm what I believe, I just  
6           wanted to be consistent.    So-- could it  
7           be wrong? Yes.    Would it change what I'm  
8           going to say? No, since I already based  
9           it on the TNM.    Would I be disappointed?  
10          Absolutely.    I might have gone back to  
11          the -- I might have gone back to the  
12          lawyer and said, I had a problem here in  
13          my own mind, but at the moment since  
14          I've used a doubling time understanding  
15          the vagueries, understanding the problems  
16          with it, at least it was in the right  
17          direction?

18          Q.       You also assumed that the  
19          tumor was a hundred percent cancer?

20          A.       That's correct.    And we know  
21          that's not.

22          Q.       What else are they made of?

23          A.       Fibrous tissue, other things,  
24          and vessels, and a few other things.

25          Q.       And you can't say to a



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1 reasonable degree of medical probability  
2 what percentage of cancer these tumors  
3 are, correct?

4 A. Yes. But the bulk would be,  
5 the bulk would be tumor cells.

6 Q. You're also assuming that  
7 cancer grows predictably?

8 A. As I said, as a constant, a  
9 constant growth, yes.

10 Q. And it doesn't, does it?

11 A. That's correct.

12 Q. And you've had patients that  
13 have been cancer free for years and years  
14 and years and the cancer comes up later?

15 A. That's correct including stage  
16 1 disease.

17 Q. Can you tell me how many  
18 active cases you have right now?

19 A. Oh, I have about 10, 15 --  
20 remember, the case can go back four years  
21 and still be active. I may have more  
22 than that. 10 cases-- 20 cases, over a  
23 couple year period that are still active.

24 Q. Are any of your active cases  
25 plaintiffs cases?



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1 A. Yeah, I think they are but I  
2 don't recall the names. I don't recall.

3 Q. Is that information that is  
4 accessible to you?

5 A. No, because I would have to  
6 spend a lot of time looking and I don't  
7 plan on doing that.

8 Q. So you're not willing to look  
9 up for me of the ten cases, 10 to 15  
10 cases which are plaintiff's cases and  
11 which are defense cases?

12 MS. SANDACZ: Objection. Go  
13 ahead, Doctor. You have no obligation to  
14 do anything.

15 THE WITNESS: No, I have no  
16 intention of doing that. I have other  
17 obligations.

18 EXAMINATION

19 BY-MS. PANTAGES:

20 Q. Are they all lung cancer  
21 cases?

22 A. No, probably not. No.

23 Q. What other types of cases  
24 would they be?

25 A. Sarcomas, breast, colon.



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1 Q. Have you ever had to prepare a  
2 list of your, the cases that you  
3 testified for in courts other than  
4 Federal courts?

5 A. No.

6 Q. Have you ever testified in  
7 Colorado, for example?

8 A. No.

9 Q. Do you plan to come testify at  
10 trial in this case?

11 A. Depending on when it is, I do.

12 Q. Are you scheduled to appear at  
13 trial?

14 A. No, not yet.

15 Q. You haven't made any  
16 arrangements to come to Cleveland next  
17 week?

18 A. No.

19 Q. Did you know the trial was  
20 next week?

21 A. I heard.

22 Q. You have, I believe, one, on  
23 one of these documents, I don't want to  
24 take those -- your calculations. Can you  
25 describe for me, we've got this marked as



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1 Plaintiff's Exhibit-2.

2 A. The calculations based on a 19  
3 month delay from 11/01 to 6/03, I took a  
4 subcarinal lymph node of 4.2 by 3.2  
5 centimeters.

6 Q. Can I stop you one second,  
7 Doctor, please?

8 Do you have, do you have a  
9 copy of that in front of you?

10 A. Yes.

11 Q. Because I'm not going remember  
12 it.

13 A. And I took the -- and I  
14 calculated it, I assume that this is a  
15 sphere-- knowing full well that it's not,  
16 and I took the diameter as 4.2 and since  
17 we solve for R which is radius, radius  
18 3, the radius is cubed rather, R is 2.1.  
19 And I calculated the volume for 6/03 and  
20 then I assumed the 30 day doubling time  
21 and worked backwards to get down to  
22 11/01.

23 And what the size of the tumor  
24 was. And the tumor diameter was .000074.  
25 And of course with that volume there is



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1 still tumor cells in it, therefore the  
2 node is positive. I didn't calculate how  
3 many tumor cells were in it though.

4 Q. All right. So I'd like to you  
5 break down your calculation a little bit  
6 more just so I understand. You take the  
7 volume of the tumor that's 38.8, correct?

8 A. Yeah, I calculated the volume  
9 of the tumor and it's that of a sphere.  
10 So it's 4/3rds pie, which is which is  
11 3.14 R cubed. And I calculated for what  
12 the volume would be, it would be cc.  
13 So it's 38.8 ccs. And then all I did  
14 is divide by 2 and go down each month.

15 Q. Because you're--you're using as  
16 a measurement that the tumor volume  
17 doubles once a month?

18 A. That's correct.

19 Q. So you're doing doubling time  
20 in reverse order and you're halving it?

21 A. That's correct.

22 Q. And as of November of 2001  
23 what is that number?

24 A. .000074, ccs.

25 Q. 74 or 94?



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1 A. 74. It's 1.5 so it's 74, I  
2 think.

3 Q. Oh, okay. I'm sorry. 74.  
4 The tumor, then the node is always going  
5 to be positive using this formula, it's  
6 never not going to be positive, when are  
7 you going to get to 0?

8 A. Oh, you will get to 0  
9 eventually.

10 Q. When will you get to 0?

11 A. All I've got to do is work it  
12 all the way back. The cancer is in the  
13 body 8 to 10 years.

14 Understand that. That's why  
15 the bulk of, what you hope to do is  
16 when you give adjunct therapy, you get  
17 rid of micro metastatic disease. So  
18 here, this is fact, how a tumor grows,  
19 it's not it just doesn't pop up. And  
20 another thing, I am sure of, the closer  
21 it is to the diagnosis the surer, the  
22 more sure I am of what the stage is.  
23 The further away it is, it's all to a  
24 reasonable degree of medical probability.

25 So you start with a normal --



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1       you start with a normal cell and it gets  
2       hit with, whether you smoke or not it,  
3       gets affected, or secondhand smoke, then  
4       it becomes hyperplastic, and then you get  
5       an intermediate stage, then it becomes  
6       carcinoma, and then develops metastasis.  
7       That process takes about 8 to 10 years,  
8       depending on the growth.

9           Q.       You're reviewing to a chart  
10       that you have in the materials you gave  
11       me.   What's the source of this chart?

12          A.       I don't remember what the  
13       source is.   This applies to most, most  
14       people believe this.   And it applies to  
15       lung cancer.   That is applies to most  
16       solid tumors.   If you don't want this  
17       one I can give you one that I wrote in  
18       the New England Journal of Medicine in  
19       2004, it's the management of lung cancer,  
20       and there is a very similar graph on  
21       this.

22                   What the graph is, it shows  
23       you -- what this does, the graph that  
24       one shows you is this part of it.   It  
25       doesn't show you this part of it.



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1 Q. Did you do this graph? Did  
2 you design this graph?

3 A. No, I don't remember where I  
4 got it.

5 Q. How old is this graph?

6 A. About ten years old. And it's  
7 based on what they call the Vogle,  
8 Ferson-Voglestein developed this model for  
9 colorectal carcinoma. And now, most  
10 people now apply this to all solid  
11 tumors. But the idea of a cancer being  
12 1 to 30 doubles in Tennent, it's in the  
13 Tennent's books I've given you. By the  
14 time it goes 40 doublings it's-- the  
15 patient dies.

16 Q. So if I'm understanding your  
17 calculations here, you're saying that this  
18 tumor in November --in the node or the  
19 cancer in the node was .000074 ccs?

20 A. That's correct.

21 Q. So what are we talking about,  
22 74 hundredths?

23 A. No. You can--You can  
24 calculate--

25 Q. Hundred thousandths?



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1 A. It's one cubic centimeter is  
2 to one billion as X is to -- as .000074  
3 is to X.

4 Q. All right.

5 A. And what you will solve there  
6 is how many cells are in that lymph  
7 node.

8 Q. What's the parameter for  
9 determining that a node is positive on  
10 CT?

11 A. Look at the microscope.

12 Q. On CT?

13 A. One centimeter or less.

14 Q. One centimeter or less?

15 A. Is considered normal. That  
16 doesn't mean it has any cells.

17 Q. Okay. It's considered  
18 negative?

19 A. Yeah.

20 Q. Right.

21 A. It's considered negative on a  
22 technical piece of equipment.

23 Q. Right. Is this then a change  
24 the size of the node in 2001?

25 A. It's probably normal.



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1 Q. So the node is going to look  
2 normal?

3 A. That's correct.

4 Q. If the node is biopsied what  
5 is the likelihood of getting a positive  
6 biopsy with .000074 ccs?

7 A. There is hundreds of thousands  
8 of cells, yes, it would be positive.

9 Q. It could be positive?

10 A. It would be positive.

11 Q. More likely than not?

12 A. In my opinion.

13 Q. Is it possible that it would  
14 be tested as negative?

15 A. Depends on where they biopsied.  
16 You can do, we do routinely  
17 bronchoscopies with SNAs of the, of lymph  
18 nodes. However, if they did a  
19 mediastinoscopy and took it out, they  
20 would sample the lymph node. You see?  
21 They would have done the mediastinoscopy  
22 in this patient, sample the lymph node,  
23 gets the whole lymph node.

24 Q. With .000074, it's just as  
25 likely that node is going to be tested



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1 negative?

2 A. No, I don't buy that. That's  
3 your opinion.

4 Q. Well, how much of the node  
5 space is this .000074 tumor taking?

6 A. I didn't calculate it.

7 Q. How big would that be?

8 A. I didn't calculate it.

9 Q. Can you estimate for me how  
10 big it would be?

11 A. I wouldn't even estimate as a  
12 matter of fact. Because I don't know,  
13 I'd have to calculate it.

14 Q. Well, if a node -- how would  
15 we calculate it? If a normal node is  
16 one centimeter in size --

17 A. You can solve for R.

18 Q. Okay. How do we do that?

19 A. So this is the volume, .000074  
20 equals  $4/3$  pi or 3.14 times R cubed.  
21 So four times 3.14 equals 12.6, divided  
22 by 3 equals 4. --

23 Q. Because this is the exhibit,  
24 we're keeping that.

25 A. Okay. 000 -- 50764 equals



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1 4/3rds pi, 3.14 R cubed, equals .000074  
2 equals 4.187 R cubed. So you have R  
3 cubed equals 4.187 divided by 0 -- I  
4 think this is correct -- that's why I  
5 went into medicine.

6 Q. That's why I went to law  
7 school. You're closer to it than I am,  
8 I think.

9 A. I think I'm wrong -- probably  
10 -- so this is 1. Is that correct? So  
11 I think this is correct. So R cubed  
12 equals .000017 so R -- now here's my  
13 problem, I've got to solve for R and I  
14 don't know how to do that. So it's trial  
15 and error. Let's do it this way.

16 Are you a mathematician?

17 MS. SANDACZ: Huh-huh.

18 THE WITNESS: Let's see what  
19 that looks like. Nope, it's not that.  
20 Let's try that. No it's not this  
21 because that's too many zeros.

22 (WHEREUPON, There was a  
23 discussion off the record.)

24 ///

25 ///



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## EXAMINATION

BY-MS. PANTAGES:

Q. What -- on the record, what you're calculating is the radius?

A. Yes, then you have to do you believe that.

Q. Of the tumor?

A. Yes.

Q. Inside the lymph node?

A. Yes.

Q. That's what we're talking about. Okay.

A. Getting closer.

Q. And what you're--what you're trying to do is, you've got the value for R cubed?

A. NO now I've got to solve for R.

Q. So once you find R you do you believe that and that's the diameter?

A. That's correct.

Q. And that's going to be how big the tumor in the node is in November of 2001?

A. Well, this is as close as I'm

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1 going to get. But I put point -- it's  
2 probably .025. Let's take look. .025  
3 -- no -- plus times .025 equals, times  
4 0.025 equals -- that's close. So it's R  
5 equals 0.025 and so the diameter would be  
6 0 -- the diameter would be .050.

7 Q. .050 --

8 A. The radius I think is  
9 centimeters.

10 Q. Okay. .050. So .050  
11 centimeters or .050 millimeters?

12 A. I think it's centimeters, cubic  
13 centimeters. Cubic centimeters. That's  
14 not small. That would be picked up,  
15 that's my opinion. You could check my  
16 calculations you can solve it.

17 Q. Have you ever, doctor, in  
18 formulating these opinions, taken your  
19 calculations out until you get 0?

20 A. Oh, yeah, it's easy to do.  
21 Just go down and keep on going.

22 Q. You've done that before in  
23 other cases?

24 A. I was asked to do it before  
25 and I just went, keep on going. Again,



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1 cancer is in the body 8 to 10 years by  
2 the time it gets diagnosed so it has to  
3 be one cell.

4 Q. And I want to understand how--  
5 how this figure that's your opinion. This  
6 is the tumor volume as in the node, as  
7 of June 2003 which is 38.8 cubic  
8 centimeters, correct?

9 A. Yes.

10 Q. And you have that, using a  
11 month as the period of doubling time, you  
12 have that until you got to the month  
13 that the diagnosis was missed, correct?

14 A. That's correct.

15 Q. And because we have .000074  
16 ccs of cancer in a lymph node, you  
17 conclude that that lymph node is  
18 positive?

19 A. No. I-- Well--Yeah. What I  
20 concluded from my doubling time, it  
21 confirmed what I believed based on the  
22 TNM classification, based on the TNM.  
23 Irrespective of this, if I threw this  
24 away, and you said you cannot use  
25 doubling values, based on the size of the



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1 lymph nodes in 2003, and from what I  
2 know about cancer, I would have come to  
3 the same conclusion.

4 Q. That she was node positive in  
5 November of 2001?

6 A. That's correct.

7 Q. And I just want to make sure,  
8 is that the ultimate conclusion that  
9 we're talking about, that whether you use  
10 the doubling time or whether you rely  
11 upon your own education, training and  
12 experience with cancer, it's your opinion  
13 in this case that notwithstanding the 19  
14 month delay in diagnosis, because of what  
15 is described on the CAT scan in June of  
16 2003, you are making the assumption, or  
17 you are of the opinion in November of  
18 2001 that she was node positive?

19 A. That's correct.

20 Q. And taking that one step  
21 further, since she was node positive and  
22 she had a tumor that was less than 3  
23 centimeters in size, you're presuming that  
24 she's T1N2; is that correct?

25 A. That's correct.



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1 Q. Where are you getting the N2,  
2 if we're talking about the -- disease  
3 the --

4 A. Subcarinal lymph node is N2.

5 Q. Why is it N2?

6 A. Because the mediastinal lymph  
7 nodes, which is subcarinal, is N2?

8 Q. So the location of the one  
9 positive node makes it N2?

10 A. That's correct.

11 Q. All right. It's not that  
12 there are metastasis or micro metastasis  
13 or pretracheal nodes, it's the size of  
14 the subcarinal node in June of 2003, and  
15 the location of the positive node that  
16 makes it a T2?

17 A. That there is cancer cells in  
18 that lymph node. You can have--  
19 Understand the CAT scan, that's why the  
20 gold standard in evaluating the  
21 mediastinum is not CT, it's not the PET,  
22 it's the mediastinoscopy, the tissue.  
23 Tissue is the issue. And you always err  
24 on the side of what's curable.

25 Q. All right so--And I want to



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1 make sure that I'm understanding the  
2 practical result of your opinion.

3 A. You understood it.

4 Q. It's your opinion in this case  
5 that in November 2001 more likely than  
6 not Susan had a 2 centimeter lesion at  
7 the base of her lung, and a positive  
8 mediastinal lymph node that had .000074  
9 ccs of cancer in it?

10 A. Oh, I don't know if it had  
11 that much or, it could have had more, it  
12 could have had a little less. But I'm  
13 just saying -- again, I'm not basing my  
14 upon on this. So you're focusing on  
15 this and I'm focusing on the TNM  
16 classification, that's all. It's that  
17 simple.

18 Because we're all talking about  
19 -- irrespective of me using the doubling  
20 time, for Dr. Goldfarb to get to his  
21 opinion he has to think about growth of  
22 tumor. I try to put a tad bit of  
23 science, numbers to the calculation. But  
24 a tumor is not stagnant, it grows fast,  
25 slow, fast.



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1                   So he's basing his opinion on  
2                   what he thinks is -- based on his  
3                   thinking of the TNM classification, and  
4                   I'm basing it on my thinking of the TNM  
5                   classification. And all I attempted to  
6                   do is add a tad more to this. And  
7                   that's what I use this for. Irrespective  
8                   of .000074 I don't care if it's .008,  
9                   even a higher number or even a lower  
10                  number, all it did was confirm. That's  
11                  how I use it. That's all.

12                Q.           Around that's what I'm trying  
13                to understand from a practical standpoint.  
14                What is your opinion more likely than  
15                not?

16                A.           More likely than not --

17                Q.           I'm rethinking my question.

18                        It's Dr. Goldfarb's opinion in  
19                this case that in November of 2001 Mrs.  
20                Richnafsky had a two centimeters lung  
21                cancer in her right lung?

22                A.           I agree.

23                Q.           And that was it. That's his  
24                opinion.

25                A.           I don't agree with that.



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1 Q. That's my next question. What  
2 is your opinion as to what kind of --  
3 or what was the extent of Mrs.  
4 Richnafsky's cancer more likely than not  
5 in November of 2001?

6 A. More likely than not Mrs.  
7 Richnafsky had stage 3, not a small cell  
8 cancer, based on mediastinal involvement  
9 with cells of cancer.

10 Q. All right. So she had a 2  
11 centimeters lesion in her right lower  
12 lung?

13 A. That's correct.

14 Q. More likely than not?

15 A. Correct.

16 Q. And she had lymph node  
17 involvement in her subcarinal nodes?

18 A. Right, as well as the hilar  
19 lymph node.

20 Q. That's what I'm trying to find  
21 out. You also believe more likely than  
22 not that the hilar node was involved?

23 A. Absolutely.

24 Q. And you didn't calculate --

25 A. I didn't do that because



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1 that's end 1. Since I'm worried about  
2 the higher stage I calculated the other  
3 node, the lymph node that would make it  
4 a higher stage. Stage 3 rather than  
5 stage 2.

6 Q. All right. So it's your  
7 opinion in this case that she had cancer  
8 in her lower lung, cancer in her hilar  
9 lymph node, and cancer in her subcarinal  
10 lymph node, correct?

11 A. Correct.

12 Q. More likely than not?

13 A. More likely than not.

14 Q. Cancer anywhere else?

15 A. No, I said more likely than  
16 not my feeling was she had, didn't have  
17 the disease in the pancreas.

18 Q. Right, so it's your opinion  
19 more likely than not as of November of  
20 2001 it hadn't metastasized to any organ  
21 outside the lung?

22 A. That's correct my opinion.

23 Q. Are subcarinal and hilar  
24 positive nodes treatable?

25 MS. SANDACZ: Objection, vague.



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1 THE WITNESS: Oh, yeah.

2 EXAMINATION

3 BY-MS. PANTAGES:

4 Q. How would that be treated?

5 A. With chemo, radiation.

6 Q. All right. So Mrs.

7 Richnafsky's cancer treatment in December  
8 2001 would have been resection of the  
9 primary tumor?

10 A. Well, if they knew, if they  
11 did -- the appropriate therapy would have  
12 been to do a mediastinoscopy, and once  
13 they would have diagnosed her as having  
14 positive lymph nodes then they would have  
15 either given her chemotherapy in attempt  
16 to make this resectable and sterilize the  
17 lymph nodes, or chemotherapy plus  
18 radiation therapy concurrently and giving  
19 her definitive radiation therapy that is  
20 66 grade of radiation in an attempt to  
21 sterilize everything.

22 And they wouldn't have done  
23 surgery. But that's where we discussed  
24 these cases in a multi modality approach  
25 to get everybody's opinion, the



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1 radiotherapist, the chemo therapist and  
2 the surgeon.

3 Q. Have we talked about all of  
4 your calculations?

5 A. You talked about all my  
6 calculations.

7 Q. And I can -- it's your  
8 testimony in this case that as long as  
9 this number is not 0, the .000074 value,  
10 I'm going to keep halving that and  
11 halving that and halving that, and as  
12 long as it's not 0, that's a node  
13 positive?

14 A. That's correct.

15 Q. So I can calculate into  
16 October of '01?

17 A. You can go audit way down.

18 Q. I could go all the way back.  
19 But as long as I'm still getting some  
20 number, no matter how many 0s come in  
21 front of it, it's still a positive node?

22 A. Yes, with all the vagueries of  
23 the doubling time.

24 Q. And since, no matter how many  
25 0s are in front of it, because this is



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1 a mediastinal node, it's still an N2 no  
2 matter how many .0s are in front of it?

3 A. Oh, yes, that's correct.

4 Q. Okay. I want to talk to you  
5 a little bit about your report.

6 You read Dr. Goldfarb's  
7 deposition, correct?

8 A. Yes.

9 Q. He said something that made  
10 sense to me as a lay person and I'd  
11 like your perspective on it.

12 He said that if you assume  
13 that this was a patient with an  
14 aggressive cancer, which I think is what  
15 you've referred to Mrs. Richnafsky's  
16 cancer as; that it didn't make sense that  
17 she would be a stage 3 having an  
18 aggressive cancer and live the quality of  
19 life that she lived for 19 months before  
20 becoming symptomatic, that that was not  
21 consistent with a stage 3 aggressive  
22 cancer?

23 A. Well, first of all --

24 Q. You understand why to me as a  
25 lay person that would be logical?



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1           A.       Yes, yes.   First of all, he  
2       does not look at -- as a surgeon he  
3       does not follow these type of patients  
4       longitudinally, that's left to the medical  
5       oncologist.

6                       Second of all, the woman was  
7       asymptomatic until three weeks before her  
8       diagnosis with pulmonary symptoms and then  
9       she had a rapid course downhill.   15  
10      percent of patients that have advanced  
11      stage IV disease are asymptomatic.   We're  
12      talking about, remember, before you have  
13      visible disease you have microscopic  
14      disease. And so we have patients that are  
15      untreated the same way.   Is that an  
16      anomoly, does happen?   Yes.   It happens.

17                      We already said she had  
18      pancreatic metastasis.   You asked me is  
19      that common.   I said no.   And you asked  
20      me again, does it happen?   Yes.   Does  
21      this happen?   The answer is yes.   Is it  
22      surprising?   It's not surprising because  
23      she didn't have the same amount of tumor  
24      burden in 2001 as she had in 2003.   So  
25      there are people that come to the



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1 doctor-- walk in asymptomatic and the  
2 diagnosis is stage 4 disease. Why?

3 There are people that have a  
4 chest x-ray -- you already talked about  
5 the chest X-ray is not a good screen.  
6 You have the 12 centimeters lesion on the  
7 chest X-ray, you do the metastatic work  
8 up and its wide spread disease, why, the  
9 patient is asymptomatic. That's the nature  
10 of the beast. Depends on where the  
11 tumor is, what's it obstructing.

12 Here's a woman that had  
13 disease in the bronchoscopy, no-- or  
14 anything else, causing a few weeks of  
15 symptoms before then-- with the amount of  
16 tumor that she subsequently had, with a  
17 hilar lymph node, you would have  
18 expected, I would have expected her to be  
19 sicker than you know what, but she  
20 wasn't. Then whatever happened, it took a  
21 turn.

22 Q. You said in earlier in your  
23 testimony that an advanced stage 4  
24 patient can be asymptomatic. What's the  
25 life expectancy of a personal with stage



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1 4 cancer?

2 A. As I said to you, median  
3 survival is 8 to 10 months. The one year  
4 survival is 35 percent. And at two year  
5 survival is 15 to 20 percent. And with  
6 now with a targeted therapy its now 22  
7 percent and there are a percentage of  
8 those patients that are at three years,  
9 four years.

10 I had put a patient on  
11 hospice, a young woman on hospice and  
12 usually you put someone on hospice you  
13 have six months or less to live. And  
14 after a year and a half I had to take  
15 her off hospice and she went another  
16 three years except for some pain, treated  
17 and did well. Can I explain that? I  
18 look to the heavens.

19 You know, that's medicine.  
20 That's why you treat, you treat advanced  
21 disease to make it a chronic disease like  
22 diabetes and heart disease. Are we doing  
23 that? The answer is yes. But remember,  
24 the focus is quality of life. That's the  
25 focus. So this doesn't surprise me.



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1 Q. If I'm understanding your  
2 testimony more likely than not stage 4  
3 cancer patients have a life expectancy of  
4 less than a year?

5 A. That's correct.

6 Q. So more likely than not Mrs.  
7 Richnafsky could not have been a stage 4  
8 in November and gone on to be  
9 asymptomatic for 17 months?

10 A. Statistically that would be  
11 true. But more likely than not, again,  
12 I've already started the beginning  
13 statement that taking all stages of lung  
14 cancer, the five year survival is 15  
15 percent. So if you take statistics more  
16 likely than not any patient with lung  
17 cancer, whatever the stage, will not  
18 survive more than 15 percent. But that's  
19 not true because that's all stages. So  
20 the statistics are against the patient  
21 with lung cancer. But then you have the  
22 individual patient.

23 Q. What's the life expectancy for  
24 an untreated stage B -- I'm sorry,  
25 untreated stage 3 cancer?



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1           A.       It would be less.    Untreated  
2       would be lower than advanced disease, but  
3       it's hard to say.    I would have to  
4       believe if you're at five years I'm not  
5       sure you'd be around five years.

6           A.       Might as well go ahead--

7           Q.       Might as well, yes.    I'm  
8       messing up the -- one second.    Here we  
9       go.

10                   Do you agree, Dr. Ettinger,  
11       that the histology of cancer can change  
12       over the life of the cancer?

13           A.       Not lung cancer, no.

14           Q.       Okay.    Why is that?

15           A.       Because it just, in this case  
16       it doesn't -- tumors are heterogeneous.  
17       You can have components of a cell, but  
18       when it's poorly differentiated when it  
19       starts it's poorly differentiated. There  
20       are certain tumors people believe like  
21       liposarcoma, can dedifferentiate into a  
22       pleomorpha.    Lung cancer doesn't do that.

23           Q.       Right.    How about in  
24       metastatic disease, can the histology of  
25       a metastasis differ from the histology of



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1 the primary?

2 A. It-- biochemically probably  
3 can. But what does -- we talk about  
4 metastatic disease we talk about the  
5 faster cells metastasize.

6 Q. Right. And that was my next  
7 point. Is that often times metastatic  
8 disease will grow at a much more rapid  
9 rate than the primary?

10 A. Sure. That's why I gave --  
11 that's why, and the paper by Shackney  
12 talks about metastatic disease. That's  
13 why it came up to 30 day doubling time.

14 Q. Why is that?

15 A. Because that's fast rate. And  
16 the mean, the mean of his chart as I  
17 said to you was 15 to 500 days with a  
18 mean of 134 days, that's all tumors he  
19 took into consideration, fast growing,  
20 slow growing, moderate growing. So it's  
21 consistent.

22 Q. So you can't compare the  
23 growth rate or the histology of Susan's  
24 pancreatic cancer to the primary in her  
25 right lung?



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1           A.       Oh, well it's actually -- and  
2       again, I can revoke, which I said -- can  
3       you have two primaries, the answer is  
4       yes. Could you have another primary the  
5       answer is yes. Do you want me to  
6       revoke that? No. I don't.

7                   But she had a poorly  
8       differentiated lung cancer. And the  
9       anaplastic is still poorly differentiated.  
10      Is it different? Yes.

11                  But is it the same. If you  
12      look consistency in the aggressiveness the  
13      answer is yes. Does look different, yeah,  
14      because this was an FNA, the other was,  
15      they may have gotten more tissue. Things  
16      are different. Depending on the amount of  
17      tissue you get and everything else.

18           Q.       The fact that there was a  
19      description, when you're talking about the  
20      term anaplastic, you're referring to the  
21      histology from the pancreatic metastasis?

22           A.       Yes. And anaplastic means bad  
23      actor. Aggressive. Poorly differentiated.  
24      Bad actor, aggressive.

25           Q.       And that would be consistent,



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1 the fact that the cells histologically  
2 were determined to be anaplastic in the  
3 pancreas is consistent with metastatic  
4 disease?

5 A. Yeah. Again, even though it's  
6 rare since I'm not trying to invoke two  
7 different tumors, I think it is, yes.

8 Q. You--Your opinion--One of the  
9 factual assumptions that you made in this  
10 case, or one of the things that you  
11 assumed in this case is that the cancer  
12 in the pancreas was metastatic?

13 A. That's correct.

14 Q. And the fact that it was  
15 described as anaplastic would be  
16 consistent with metastasis to the  
17 pancreas?

18 A. That's correct.

19 Q. You can't necessarily assume  
20 that the cancer in the primary tumor in  
21 the right lung was also anaplastic,  
22 correct?

23 A. Oh, you say it's poorly  
24 differentiated, yes.

25 Q. Which is different than



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1 anaplasty?

2 A. No, you can't have it both  
3 ways now.

4 Q. All right.

5 A. She had a lymph node biopsy.

6 Q. Yes.

7 A. It was poorly differentiated.  
8 She had this disease--it was anaplastic,  
9 meaning it's poorly differentiated.

10 Q. In the pancreas?

11 A. In the pancreas. What came  
12 from the lung is poorly differentiated.  
13 Whether we say it's anaplastic or poorly  
14 differentiated, I'm looking at them as  
15 interchangeable.

16 Q. But why were the two different  
17 words used?

18 A. Maybe a different pathologist  
19 read it.

20 Q. Okay. If I'm understanding  
21 your testimony you do not have an opinion  
22 in this case as to when Susan's cancer  
23 metastasized to her pancreas?

24 A. Well, it's between, as I said  
25 between 2001 and 2003. And obviously the



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1 closer to the diagnosis the more sure I  
2 am that it was a metastasis.

3 Q. But you can't be more specific  
4 than that?

5 A. No.

6 Q. You and I can agree that once  
7 Mrs. Richnafsky began cancer treatment,  
8 she underwent every available therapy  
9 there was for her disease at her stage?

10 A. Yes.

11 Q. And did you see from your  
12 review of those records that she was  
13 absolutely compliant with all of those  
14 treatments?

15 MS. SANDACZ: Objection.

16 THE WITNESS: It's my opinion  
17 she was.

18 **EXAMINATION**

19 **BY-MS. PANTAGES:**

20 Q. This was not a patient that  
21 rejected treatment or opted not to have  
22 treatment, correct?

23 MS. SANDACZ: Objection.

24 THE WITNESS: No, not that I  
25 know of.



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1           **EXAMINATION**2           **BY-MS. PANTAGES:**3           Q.       And just so I'm clear on your  
4           staging in this case, you're staging her  
5           at a stage 3 because of the location of  
6           the positive node; is that correct?

7           A.       That's correct.

8           Q.       I think that I'm done, Doctor.  
9           Let me just look at my notes.10          Have you worked with this law  
11       firm in the past, Roetzel & Andress?

12       A.       I think I have.

13       Q.       Have you worked with Ms.  
14       Sandacz in the past?

15       A.       No.

16       Q.       Do you know who you've worked  
17       with?

18       A.       No.

19       Q.       But you think --

20       A.       I think, I don't recall.

21       Q.       Do you know how she got your  
22       name in this case?

23       A.       No.

24       Q.       You worked with other defense  
25       firms in Cleveland?**setdepo****Streamlined • Centralized • Standardized**  
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1           A.       Reminger & Reminger.   Berger,  
2       which is a, I think Berger is a  
3       plaintiff's lawyer, Josh Berger.

4           Q.       Okay.   Don't know him.   Who  
5       else?

6           A.       I don't recall.

7           Q.       You've testified in Ohio about?

8           A.       Oh, yeah.

9           Q.       How are you charging for your  
10      time?

11          A.       \$500 an hour.

12          Q.       Have you submitted any bills  
13      in this case?

14          A.       No.

15          Q.       Do you know how much time you  
16      have into the case?

17          A.       You have a list there.   Plus  
18      the deposition plus time before.   And if  
19      I go to Cleveland it's portal to portal.

20          Q.       \$500 an hour?

21          A.       Yeah.

22          Q.       Do you know any of the other  
23      physicians involved in this case?

24          A.       None whatsoever.

25          Q.       Had any conversations with Dr.



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1 El-Khairi?

2 A. No.

3 Q. Dr. Walsh?

4 A. No.

5 Q. Is there any way to test the  
6 validity of the doubling time theory? Has  
7 anybody ever done that? Is it possible  
8 to test the validity of the theory?

9 A. Oh, yeah. Watch tumors grow.  
10 Actually you can. You take a tumor, you  
11 watch -- you watch it grow and doubling  
12 it and double and do you believe and see  
13 what happens over time. You need two  
14 points on the curve to do that.

15 Q. Has anybody done that?

16 A. Yes, there are some patients  
17 that have done this in lung cancer,  
18 Japanese have done it. But I don't  
19 recall the literature. I've seen it in  
20 passing in a meeting once. But for the  
21 most part, because they want to determine  
22 if they can predict which tumors would  
23 grow fast so you might give more therapy  
24 but I don't recall where the article is.

25 Q. And how did they test it?



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1 A. Watch tumors grow.

2 Q. I'm not sure how--

3 A. You have to watch -- you can  
4 determine -- that's how they did it with  
5 metastatic disease as well. You watch,  
6 you need to two points on a curve-- so  
7 then you can determine how fast the tumor  
8 is growing. You know the two sizes you  
9 can determine what the doubling time is  
10 based on that.

11 Q. And in the Japanese study was  
12 it determined that the doubling time was  
13 30 days?

14 A. No.

15 Q. So has --

16 A. I've given you the literature  
17 where you would get that information. The  
18 Shackney article, the Tagg article, and  
19 the other article by Giddings.

20 Q. And I understand that. My  
21 question is, has anybody tested the  
22 validity of the theory that a lung cancer  
23 grows at the rate of 30 -- that a lung  
24 cancer tumor doubles at the rate of 30  
25 days?



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1 A. No.

2 Q. I know from reviewing your  
3 notes, or your file, that you're aware  
4 that I've filed a motion to exclude  
5 testimony about the doubling time theory?

6 A. Yes.

7 Q. Is that something new or had  
8 you ever heard that about?

9 A. I've never exclude as an  
10 expert in any trial I've ever been in,  
11 including the doubling time.

12 Q. Has anybody tried to exclude  
13 your doubling time theory in the past,  
14 that you're aware of?

15 A. No. No.

16 Q. Are you aware that other  
17 courts in other states have excluded  
18 testimony about the doubling time theory?

19 MS. SANDACZ: I want to object  
20 to that. Go ahead and answer, Doctor.

21 THE WITNESS: Since I based my  
22 testimony on the TNM classification, if  
23 they want to exclude the doubling time  
24 then it's my opinion as an expert in  
25 lung cancer and my experience, and



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1       probably an expert in one who is panel  
2       chair of the national conference of  
3       cancer network guidelines for non small  
4       cell lung cancer, I base it on the TNM  
5       classification and not talk about the  
6       doubling time. Because I've already said  
7       in my testimony here that I use the  
8       doubling time to confirm what I believe.  
9       But it has never been I couldn't talk  
10      about it have.

11               Because tumors grow, otherwise  
12      I don't understand -- all did I was put  
13      a number to it. With all the vagueries  
14      what I've admitted to, for doubling time.

15                   **EXAMINATION**

16                   **BY-MS. PANTAGES:**

17               Q.       I'm just asking you if anybody  
18      told you you couldn't talk about it?

19               A.       Nope.

20               Q.       Johns Hopkins is ranked as a  
21      cancer center, right?

22               A.       Yeah, number 3. Behind the  
23      two free standing ones, Memorial and --  
24      Memorial Sloan-Kettering and MD Anderson.

25               Q.       That means what? Why are you



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1 ranked 3?

2 A. They're bigger. And they do  
3 good research as well.

4 Q. Is it patients --

5 A. It's patient related. We're  
6 the number one hospital in the country.

7 Q. And it's patient related  
8 because --

9 A. Put it this way. If you're  
10 going to be on a list and it's a good  
11 list, you'd rather be number one than the  
12 other list. So patients rate us, doctors  
13 rate us. We've been rated number one  
14 hospital for 16 years straight I think,  
15 or 15 years.

16 Q. And certainly the goal at  
17 Johns Hopkins is to cure as many patients  
18 cancer as possible?

19 A. That's correct.

20 Q. That's what you hope for?

21 A. That's what I do. That's  
22 exactly what I do.

23 Q. And you also want to give your  
24 patients the best possible chance of  
25 cure?



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1 A. You're absolutely correct.

2 Q. And one of the ways that you  
3 do that is that you start treatment as  
4 early as possible?

5 A. I think we've gone over that,  
6 yes. But we don't always succeed.

7 Q. And you're familiar with the  
8 Ireland Cancer Center in Cleveland?

9 A. Yes.

10 Q. That's a top cancer center as  
11 well?

12 A. Top cancer center.

13 Q. Dr. Ettinger, have we talked  
14 about all of your opinions in this case?  
15 As far as you can tell? Have I left  
16 anything out? Any stone unturned?

17 A. No, you've turned over every  
18 stone I know.

19 Q. Okay. If you come across any  
20 document or testimony or anything like  
21 that that changes your opinion in think  
22 way, or modifies your testimony in any  
23 way, if you could let Ms. Sandacz know?

24 A. I will do that.

25 MS. PANTAGES: But as that



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1 said I'm done. It was wonderful to see  
2 you again.

3 MS. SANDACZ: Doctor, you have  
4 a right to read the transcript. I  
5 suggest that you do read it to make sure  
6 that the deposition was -- your testimony  
7 was taken down accurately.

8 THE WITNESS: Yes. I will  
9 read and sign.

10 (WHEREUPON, The Deposition of  
11 DAVID S. ETTINGER, M.D. was concluded at  
12 5:27 p.m.)  
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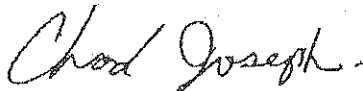
## CERTIFICATE OF REPORTER

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I do hereby certify that the witness in the foregoing transcript was taken on the date, and at the time and place set out on the Title page hereof by me after first being duly sworn to testify the truth, the whole truth, and nothing but the truth; and that the said matter was recorded stenographically and mechanically by me and then reduced to typewritten form under my direction, and constitutes a true record of the transcript as taken, all to the best of my skill and ability.

I further certify that the inspection, reading and signing of said transcript were not waived by counsel for the respective parties and by the witness.

I certify that I am not a relative or employee of either counsel, and that I am in no way interested financially, directly or indirectly, in this action.



COURT REPORTER / NOTARY

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2  
3 I Hereby certify that in addition to the  
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6 has been sealed pending the witness' right to  
7 review said deposition within 30 days, which  
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