

1           IN THE CIRCUIT COURT OF OHIO COUNTY  
2           WHEELING, WEST VIRGINIA

3  
4       IN RE:

5           TOBACCO LITIGATION       CASE NO. 00-C-6000  
6           MEDICAL MONITORING CASES

7  
8                   \*   \*   \*  
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10                   JURY TRIAL

11  
12       Whereupon the above-entitled matter came on for  
13       hearing before the Honorable Arthur M. Recht at the  
14       Ohio County Courthouse, Wheeling, West Virginia, and  
15       the proceedings are as follows.  
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19                   \*   \*   \*  
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21                   VOLUME 7-A

22                   September 24, 2001

23                   8:30 a.m.

24                   \*   \*   \*

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23 (There are other counsel representing interested  
parties also present in the courtroom gallery.)

24

1 Monday Morning Session  
2 September 24, 2001  
3 8:30 a.m.

4 -- -- --

5 P R O C E E D I N G S

6 -- -- --

7 (In open court with a jury present.)

8 THE COURT: Be seated, please.

9 Good morning, everybody. You lost one of your  
10 number. There is nothing wrong, nothing -- just  
11 that he had a personal problem or personal situation  
12 that he had to be excused.

13 All right. We are in the middle of  
14 Dr. Gaziano's cross-examination?

15 MR. NEWBOLD: Yes, sir.

16 THE COURT: Is he here?

17 MR. SEGAL: Yes, he is, Your Honor.

18 THE COURT: Doctor, step forward, please.

19 Is there a desire to readminister the oath to  
20 Dr. Gaziano?

21 MR. NEWBOLD: No, Your Honor.

22 THE COURT: Doctor, step forward, please, sir.

23 Please consider yourself under the oath that was  
24 administered to you on Wednesday, I believe it was.

1 THE WITNESS: All right, sir.

2 THE COURT: All right. Mr. Newbold.

3 MR. NEWBOLD: May it please the Court. Good  
4 morning, ladies and gentlemen of the jury

5 -- -- --

6 DOMINIC GAZIANO, M.D.,

7 being first duly sworn by the Clerk, testifies and  
8 says as follows:

9 -- -- --

10 CROSS-EXAMINATION (Cont'd)

11 BY MR. NEWBOLD:

12 Q. Good morning, Dr. Gaziano.

13 A. Good morning, Mr. Newbold.

14 Q. Dr. Gaziano, since we have been away from  
15 each other and from the jury for several days, the  
16 Court has allowed me to simply ask you a few  
17 questions to refresh the jury on your testimony of  
18 last week, which is what I'm going to do now. Is  
19 that okay, sir?

20 A. Yes, sir.

21 Q. Okay. The substance of your opinion in  
22 this case is that the detection of lung cancer and  
23 COPD through medical monitoring -- that's what you  
24 testified about?

1       A. Yes, sir.  
2       Q. Okay. And we have agreed, Doctor, that you  
3 have not written anything on the subject of medical  
4 monitoring?  
5       A. Yes, sir.  
6       Q. Okay. And we have agreed that you have  
7 nothing that's been peer reviewed or published in a  
8 peer-reviewed journal on the subject of medical  
9 monitoring?  
10      A. Yes, sir.  
11      Q. In fact, you have written nothing  
12 whatsoever on the subject of medical monitoring; is  
13 that correct, sir?  
14      A. That's correct.  
15      Q. And you have taught no class on medical  
16 monitoring?  
17      A. No, sir.  
18      Q. And you have never lectured on medical  
19 monitoring?  
20      A. No, sir.  
21      Q. All right. You have never been in charge  
22 of the design of a medical screening program or a  
23 medical monitoring program?  
24      A. No, sir.



1 Q. All right. And you have never conducted a  
2 screening program of smokers to determine whether or  
3 not they have lung cancer?

4 A. No.

5 Q. All right. And when you first formulated  
6 your opinions in this case, when your deposition was  
7 taken, you had no scientific opinion on the  
8 feasibility of the medical monitoring program  
9 recommended by the plaintiffs?

10 A. Yes, sir.

11 Q. Okay. And when you first formulated your  
12 opinions in this case, you had not evaluated the  
13 methodology set forth in the Guide to Clinical  
14 Preventive Services, which was this blue book, on  
15 how to assess whether a medical monitoring program  
16 or screening program is safe and effective?

17 A. At that time, yes, sir, that's correct.

18 Q. Okay. And you now know, however, that  
19 contained within this book is the criteria that the  
20 United States Preventive Task Services uses to  
21 assess whether or not screening is reasonably  
22 necessary?

23 A. Yes, sir. But I just want to add that some  
24 screening tests fall outside that particular

1 particular recommendation. But other than that, I  
2 have no personal experience with it.

3 Q. Okay. And Doctor, we had talked about the  
4 difference between diagnosing and medical  
5 monitoring, and you do not hold yourself out to be  
6 an expert on medical monitoring?

7 A. That's correct.

8 Q. Okay.

9 Now, Doctor, the plaintiffs in this case during  
10 opening argument -- opening statement, I'm sorry --  
11 used a board wherein they described the monitoring  
12 recommendations that they are proposing for this  
13 class of plaintiffs, which is, age 40, spirometry  
14 for COPD.

15 And then age 45, spirometry for COPD, and then  
16 a spirometry test every two years thereafter. Is  
17 that correct, sir?

18 A. Yes, sir.

19 Q. And insofar as long lung cancer is  
20 concerned, what the plaintiffs are proposing is a CT  
21 scan, or sometimes called a CAT scan, starting at  
22 age 50 and then once every year, and that's for the  
23 early detection of lung cancer; is that correct, sir?

24 A. Yes, sir.

1 Q. And you understand of course, that this  
2 particular program was designed by a particular  
3 doctor whose name was Dr. Burns?

4 A. Yes, sir.

5 Q. Okay. Now, you have never spoken with  
6 Dr. Burns specifically about this program, have you?

7 A. No, sir. I have never spoken  
8 specifically. I did recall a teleconference that  
9 was a year and a half ago with the law firm calling  
10 the conference in which I was a participant, and I  
11 believe Dr. Burns was in the teleconference as well.

12 Q. But you had no input into the program  
13 before it came into existence, did you, sir?

14 A. I had no input, no, sir.

15 Q. All right. So you have never met Dr. Burns?

16 A. No, sir.

17 Q. And to your knowledge, Dr. Burns' program,  
18 as proposed by the plaintiffs, has not been  
19 published anywhere?

20 A. Not specifically that way, because it's a  
21 unique program.

22 Q. Well, that's my question, sir. This unique  
23 program of giving spirometries to people with a five  
24 pack year history of smoking at age 40 and then

1 every two years thereafter, and then, age 50, for a  
2 CAT scan and every year thereafter, specifically has  
3 that program been published anywhere?

4 A. Not that very specific program, no, sir.

5 Q. Okay. Now -- and when I talk about this  
6 program, I mean this program.

7 A. I see.

8 Q. Okay. Now, Doctor, this program, the  
9 program that the plaintiffs are recommending for all  
10 the West Virginia people who have a five-year  
11 pack -- five pack year history of smoking, has not  
12 been peer reviewed either, has it?

13 A. I don't think so.

14 Q. Okay. And to your knowledge, this  
15 particular program, the program that they want for  
16 West Virginia smokers, has not been published in any  
17 peer-reviewed journal, has it?

18 A. No, sir.

19 Q. To your knowledge, Dr. Burns' program,  
20 which is the program they recommend for these  
21 plaintiffs, has not been tested through any  
22 randomized trial or cohort study, has it, this  
23 particular program?

24 A. Well, it's a very strict definition of a

1 program. But similar ones have been tested.

2 Q. I'm not asking you about similar.

3 A. But this one has not been tested, no, sir,  
4 not this specific program.

5 Q. Okay. And this specific program, the one  
6 that they want to have for the residents of West  
7 Virginia, has not been subject of any case control  
8 study, has it?

9 A. Not that I'm aware of, no, sir.

10 Q. In fact, this program has not been the  
11 subject of uncontrolled experiments, has it, sir?  
12 This particular program --

13 A. No, sir, it hasn't.

14 Q. In fact, for this specific program, there  
15 are no data that support or even reflect upon the  
16 safety and efficacy of Dr. Burns' proposed program,  
17 this program, five pack year history, spirometry at  
18 40 --

19 A. Would you repeat that question, please?

20 Q. Yes, sir. In fact, there are no data  
21 supporting or that even reflect upon the safety and  
22 efficacy of Dr. Burns' proposed program as a  
23 program; that's true?

24 A. I am going to say that that's not true,

1 that there is in evidence a body of literature that  
2 does speak to the safety of -- and effectiveness of  
3 these programs.

4 Q. You know, Doctor, you recall when your  
5 deposition was taken on August the 22nd. Do you  
6 recall that, sir?

7 A. Yes, sir.

8 MR. NEWBOLD: Do you have a copy for the other  
9 side, please, and a copy for the Court.

10 May I approach the bench, Your Honor?

11 THE COURT: All right.

12 MR. NEWBOLD: And I have a copy for the  
13 witness, Your Honor. Shall I hand it to him or --

14 THE COURT: Well, here, it will be a little  
15 easier.

16 THE WITNESS: Okay.

17 BY MR. NEWBOLD:

18 Q. Sir, I would like to direct your attention  
19 to your deposition of August the 22nd.

20 A. All right.

21 Q. Do you have that, sir?

22 A. Well, I'm not sure what you are referring  
23 to.

24 Q. Page 364, Lines 15 through 19. Would you

1 put that on the screen please, Jason. Could you  
2 blow that up, please.

3 Doctor, I have this up on the board so that the  
4 jury can see it as well. And, when I took your  
5 deposition on August the 22nd, I asked you the exact  
6 question that I asked you:

7 Question: In fact, there are no data  
8 supporting or that even reflect upon the safety  
9 and efficacy of Dr. Burns' proposed program as  
10 a program; that's true?

11 And on August the 22nd of last year, you  
12 answered: I believe that's true.

13 Is that correct, sir?

14 A. That's what it says here, and I believe  
15 that's correct as far as that data is concerned.  
16 But --

17 Q. Thank you, sir. That's the question I  
18 asked you, whether or not you gave me that answer to  
19 my deposition question on that day?

20 A. I modified my answer a little bit this  
21 morning, which I think is appropriate, an  
22 appropriate response. But did I say that.

23 Q. You did say that on August 22nd when I  
24 asked you that under oath; is that correct, sir?

1       A. Well, I'm still under oath, and, in fact,  
2 my response is truthful today that this specific  
3 test is not been subject -- the specific age and the  
4 specific individual and the specific group of  
5 individuals has not been tested.

6       It would be unusual for it to be because this  
7 is unique, this is the first time. But that doesn't  
8 mean that studies haven't been done that are similar  
9 and which you can transfer at least some experience  
10 with to get an idea of safety. And that's the way I  
11 answered it today.

12       Now, you know, however that comes out, that's  
13 my answer today based upon my knowledge today.

14       Q. Thank you, sir.

15       But this is a unique program. This is a  
16 program that has never been tested before as it sits  
17 here right now. Is that correct?

18       A. Yes, sir.

19       Q. Okay. Now, Doctor, insofar as this  
20 particular test is concerned, which is a CAT scan at  
21 age 50 to detect lung cancer, you testified on  
22 Wednesday that nobody says that a single CT, that  
23 nobody says that a single CT will separate malignant  
24 cancers from benign nodules in the first sweep; is



1 that correct, sir?

2 A. Yes, sir.

3 Q. All right. So that, after you do the first  
4 sweep, the first cut, this one CT scan that the  
5 plaintiffs want to give to these 270,000 West  
6 Virginians will not tell you which of the nodules  
7 that are seen are benign and which of the nodules  
8 are malignant; is that correct?

9 A. Yes, sir. I think I testified to that  
10 earlier.

11 Q. Okay. The thing that the CAT scan looks  
12 for, it simply looks for a noncalcified nodules of a  
13 certain size; is that correct?

14 A. Yes, sir.

15 Q. So with this first CAT scan, the only thing  
16 that the plaintiffs are proposing once a year with  
17 that CAT scan, all you know is whether or not they  
18 have nodules. At this point, you can't say that  
19 they are cancer, can you, sir, at this -- is that  
20 right?

21 A. No. Well, for the most part, yes, sir.

22 Q. Okay. So at this point with a single CAT  
23 scan, you could not tell everyone in this class who  
24 tested positive that they had cancer based on this

1 CAT scan alone; is that correct, sir?  
2 A. That's correct.  
3 Q. What you can say is that the CAT scan picks  
4 up nodules, about 10 percent of which may be actual  
5 cancers; is that correct, sir?  
6 A. That means that it is a low sensitivity  
7 test -- yes.  
8 Q. That's correct, okay.  
9 A. And a high specific test, at that stage --  
10 at that phase, at that phase.  
11 Q. At that phase, at that stage. So what you  
12 would have to do then in order to either diagnose or  
13 detect which of those nodules are cancer, you would  
14 have to have a follow-up procedure to determine what  
15 is cancer and what is not; is that correct?  
16 A. Absolutely, yes, sir.  
17 Q. Absolutely.  
18 Doctor, neither you or any qualified doctor in  
19 the State of West Virginia would tell any of their  
20 patients, based upon this single CT and this CT scan  
21 only, that they have lung cancer?  
22 A. No, sir, I would not.  
23 Q. You would not?  
24 A. No.

1 Q. Okay. And the reason that you would not is  
2 that because you would have to take further steps to  
3 say, okay, what I see now may be and may not be, but  
4 now I'm going to have to take some further steps to  
5 determine which of these nodules is cancer and which  
6 is not; is that correct?

7 A. Yes, sir.

8 Q. All right. And that's just a part of the  
9 standard care of practice in the State of West  
10 Virginia when you see a suspicious lung nodule; is  
11 that correct?

12 A. I think that's probably a world standard,  
13 certainly a national standard, yes, sir.

14 Q. Now, the CAT scan procedure that -- let me  
15 strike that.

16 Now, these follow-up procedures that you would  
17 have to do in order to say that you detected lung  
18 cancer or that you have diagnosed lung cancer, those  
19 follow-up procedures would vary from individual to  
20 individual, would they not?

21 A. Yes, sir.

22 Q. Now, the plaintiffs' medical monitoring  
23 program, you understand that all they are  
24 recommending is one CAT scan at age 50 and then one

1 CAT scan every year thereafter, no follow-ups? You  
2 understand that, sir?

3 A. I take your word for what it is. I haven't  
4 specifically gone into the specifics, but that's my  
5 impression. But I haven't seen or read the  
6 particular --

7 Q. That's your impression?

8 A. Yes, sir. I take your word for it.

9 Q. So then with no follow-up studies, in this  
10 particular plan, it would be impossible to say to  
11 any of these class members who went through the  
12 first CAT scan, You have cancer; is that correct?

13 A. There is one -- if I may answer with a  
14 modification.

15 Q. Okay. Your answer is yes; is that correct?

16 A. Yes. With a modification. That this  
17 test -- I'm not sure if it is to be organized in a  
18 way that there is follow-up. But, if you say that's  
19 all that is possible, a yearly CT, there is some  
20 benefit, but it's not as recommended -- as one would  
21 recommend, as I understand the literature because,  
22 if you get a CT scan in a year, that becomes a  
23 follow-up on the nodules you found the first year.  
24 And that will give the clinician some idea of the

1 nature of the lesion, particularly if it's growing.  
2 So it has some value. It is not -- it is not  
3 what has been proposed by people who do this as  
4 screening operations, particularly Mayo Clinic and  
5 Columbia.

6 Q. But Dr. Gaziano, surely, if you saw  
7 somebody who had a suspicious nodule on this first  
8 CAT scan, you wouldn't wait for one year to test  
9 them again, would you?

10 A. No, no. No, I would not.

11 Q. Thank you.

12 Now, this study is... One moment, please.

13 MR. NEWBOLD: May we have one second, Your  
14 Honor?

15 THE COURT: Sure.

16 BY MR. NEWBOLD:

17 Q. Dr. Gaziano, I would now like to turn to  
18 some other topics.

19 When you testified on Wednesday, you talked  
20 about some various articles. You talked about a  
21 JAMA article, I believe, Journal of the American  
22 Medical Association, and you talked about an article  
23 from the New England Journal of Medicine; is that  
24 correct, sir?

1       A. I may have, yes, sir.

2       Q. All right. And the essence of both of  
3 those articles was the fact that some doctors had  
4 written in to these journals, these medical  
5 journals, and basically said that they disagree with  
6 the National Cancer Institute and some of the other  
7 major health organizations, they disagree, and they  
8 think that lung screening for cancer should go in  
9 right now; whereas, national public health  
10 organizations like the NCI feel that it's too early  
11 to tell; is that correct, sir?

12      A. Yes, sir.

13      Q. All right. And you testified to us that,  
14 in order to form your opinions in this case, that  
15 you have spent hundreds of hours reviewing various  
16 peer reviewed medical journals within your specialty  
17 and within the topics that we are talking about  
18 today; is that correct?

19      A. Yes, sir.

20      Q. All right. And you told the jury that  
21 there are these various peer-reviewed articles, like  
22 in JAMA or the New England Journal of Medicine that  
23 doctors rely upon in forming their opinions; is that  
24 correct, sir?

1 Yes, sir.

2 Q. And of course you know that the reason we  
3 are here today is -- and and tomorrow and tomorrow  
4 and tomorrow, is that we are going to hear a lot of  
5 opinions from experts like yourself, and the jury  
6 will make the decision on what they think. You know  
7 that, don't you, sir?

8 A. Yes, sir.

9 Q. And you also then would agree with me that  
10 it's important that the jury hear both sides of  
11 these issues; is that correct?

12 A. Yes, sir.

13 Q. Now, there is a debate right now in the  
14 country. There are some doctors who believe that  
15 there should be helical CAT scans right now to  
16 detect early lung cancer; is that correct, sir?

17 A. Yes.

18 Q. But on the other hand, there is no major  
19 health organization, at least according to  
20 Dr. Petty, who would recommend -- well, let me  
21 strike that question. Let me do it this way.

22 The first article that you talked to us about  
23 is the JAMA article which is called Screening Stages  
24 For Early Detection of Lung Cancer. And although we

1 didn't have the entire article with us at the time,  
2 I actually have the book.

3 MR. NEWBOLD: Do we have another copy of this?

4 THE WITNESS: I have the article myself,  
5 somewhere.

6 MR. NEWBOLD: I have the whole book.

7 Judge, may I approach the bench so I can give  
8 you a copy of this?

9 THE COURT: Sure.

10 MR. NEWBOLD: I assume you have this. I have  
11 got copies, Scott.

12 BY MR. NEWBOLD:

13 Q. Okay. This is, for the ladies and  
14 gentlemen of the jury, this is a JAMA magazine; is  
15 that correct, sir?

16 A. Yes, sir.

17 Q. And this is a magazine -- do you subscribe  
18 to this?

19 A. Yes, I do.

20 Q. It comes out how often?

21 A. Weekly.

22 Q. It's a weekly, all right. And you were  
23 quoting from the, Screening Strategies For Early  
24 Detection of Lung Cancer, right, sir?



1 A. Yes, sir.  
2 Q. Which is on Page 1977?  
3 A. Yes, sir.  
4 MR. NEWBOLD: Could you put that put that up  
5 for me, Jason. Could you dim the lights, please.  
6 That's tab 31.  
7 BY MR. NEWBOLD:  
8 Q. This is the article you talked about to the  
9 jury; is that correct, sir?  
10 A. Yes, sir, it is.  
11 Q. And in this article, this is written by a  
12 man whose name is Richard Petty?  
13 A. Thomas Petty.  
14 Q. Thomas Petty, I'm sorry.  
15 THE COURT: Richard is the race car driver.  
16 MR. NEWBOLD: Well, now you know where my real  
17 expertise lies, Your Honor; it's not this.  
18 BY MR. NEWBOLD:  
19 Q. Okay. Now, Dr. Petty, he acknowledges in  
20 the very first paragraph of this --  
21 MR. NEWBOLD: Could you blow up the third  
22 sentence, which says "no major medical  
23 organization." Can you do that on the small one or  
24 not?

1       We will do it on the next one.  
2 BY MR. NEWBOLD:  
3 Q. Take a look at your article. Dr. Petty states  
4 in this article that no major medical organization  
5 in the United States recommends any form of  
6 screening for lung cancer.  
7       Did I read that correctly, sir?  
8       A. Where is that? You have to point it out.  
9 It's a three- or four-page article. You have to  
10 direct me to it.  
11      Q. Go to Tab 32.  
12      A. I'm sure he said that.  
13      Q. Well, if you go down to the third sentence?  
14      A. Which page and which sentence?  
15      Q. Can you blow up that highlighted portion?  
16      A. Okay. That's at the beginning.  
17      Q. I'm on Page 1977; okay?  
18      A. All right.  
19      Q. And it says -- and I have blown it up for  
20 the jury -- it says:  
21      Current knowledge and available technology  
22 could change the outcome of lung cancer. But  
23 screening and even case finding in patients at high  
24 risk is still not recommended. No major medical

1 organization in the United States recommends any  
2 form of screening for lung cancer.

3 Is that what Dr. Petty says?

4 A. May I just continue reading from that  
5 sentence?

6 Q. You may.

7 A. Yes, all right. For this reason --

8 Q. Take it up, will you?

9 A. For this reason, lung cancer is not  
10 diagnosed until it is symptomatic and usually when  
11 it is in advanced and incurable stages.

12 That's the basis for his rethinking this  
13 screening business.

14 There is one slight modification in terms of  
15 major organizations. The American Cancer Society  
16 has changed from no screening to we are going to  
17 think about screening. They haven't decided one way  
18 or the other, but they have modified their position

19 And so there is one organization who is  
20 beginning to move in the direction -- or at least  
21 rethinking it. Let's just put it that way.

22 Q. Okay. I understand that, sir.

23 As a matter of fact, if you will take a look at  
24 the very top of the article, what it says is

1 "controversies." There is a debate going on in the  
2 medical community; is that correct, sir?

3 A. Yes.

4 Q. See, it says "controversies."

5 And Dr. Petty is a doctor who thinks that,  
6 let's do it now, let's not wait; whereas, he admits  
7 that no major public health organization is  
8 recommending it at this time. Is that correct?

9 A. Yes, sir.

10 Q. Now, and what you have told me is that the  
11 American Cancer Society is thinking about it, but  
12 not quite yet; is that right, sir?

13 A. They are thinking about the idea of no  
14 cancer screening for lung cancer with the idea that  
15 maybe it's time to change. But they haven't changed.

16 Q. Okay. Now, public health organizations  
17 like the National Institute of Health and the  
18 American Cancer Society, et cetera and so forth,  
19 they are the guardians of the public health; they  
20 are the ones who look at tests and make a  
21 determination whether or not they are safe, accurate  
22 and effective. Is that correct, sir?

23 A. I think that's their purpose, yes, sir.

24 There are individual doctors who are in the capacity

1 to make those decisions.

2 Q. And one of the things the public health  
3 organizations want to make sure of before they  
4 recommend a test is they want to make sure it does  
5 more good than harm. You would agree with that,  
6 wouldn't you, sir?

7 A. Yes, sir.

8 Q. Let's go back to this article on the  
9 controversy. There was actually another article  
10 that was right behind that one, wasn't there, sir?

11 A. Yes, sir, there was.

12 Q. And that was on Page 1980.

13 MR. NEWBOLD: Could you put that up for me,  
14 please? And turn to page 1980, please. Right  
15 there, okay, thank you.

16 BY MR. NEWBOLD:

17 Q. Now, that's an article that was written in  
18 the exact same publication, JAMA, that you told the  
19 jury about?

20 A. Yes, sir.

21 Q. Right. But you didn't tell the jury about  
22 what Dr. Frame had to say, did you?

23 A. You didn't let me tell the jury about a lot  
24 of what I had to say in this particular regard,

1 Mr. Newbold. So, to be fair to me, don't hold me  
2 responsible for not getting out the word. There is  
3 a body of literature, but I was limited in what I  
4 could express.

5 So having said that, I was aware of that, and I  
6 knew of that, and I have no problem with giving the  
7 pros and cons of this particular issue.

8 Q. Okay.

9 MR. NEWBOLD: Could you blow that up for me,  
10 please, the routine screening for lung cancer.  
11 Maybe some day but not yet, right here.

12 BY MR. NEWBOLD:

13 Q. So what Dr. Frame is doing, he's taking the  
14 other side of the argument. He's saying maybe it  
15 will work, but the evidence is not quite in yet. Is  
16 that correct, sir?

17 A. Yes, sir. That's what he is saying.

18 Q. All right. Let's see -- now, do you know  
19 who Dr. Frame is?

20 A. I read that article, and his position is at  
21 the end of it, and I can't recall.

22 Q. You know that he's a member of the United  
23 States Preventive Services Task Force who wrote this  
24 book?

1 A. I didn't know that, sir.

2 Q. Let's see what Dr. Frame has to say about  
3 this particular controversy.

4 MR. NEWBOLD: Let's blow up the first  
5 paragraph.

6 BY MR. NEWBOLD:

7 Q. Dr. Frame is an honest doctor, so he starts  
8 off with what you said: Lung cancer is the leading  
9 cause of cancer death worldwide and accounts for 28  
10 percent of all cancer deaths in the United States.  
11 It is largely a preventable disease. In the United  
12 States, more than 90 percent of lung cancer cases  
13 are related to cigarette smoking.

14 Next paragraph, please, that's highlighted.

15 He says then: It is not surprising that  
16 screening for the early detection of lung cancer at  
17 a curable stage has been a research priority for  
18 many years.

19 Indeed, 8 prospective studies of screening for  
20 early lung cancer either by periodic chest  
21 radiographs or by sputum cytologic tests have been  
22 reported in the past 40 years.

23 Unfortunately these studies have all reached a  
24 common conclusion: Early screening does not lead to

1 reduced mortality from lung cancer.

2 Is that what he says, sir?

3 A. He should have added one other word to  
4 that. Early screening by chest x-rays does not lead  
5 to reduced mortality from lung cancer, because  
6 that's what they were looking at.

7 Q. Let's go to the next paragraph, please.

8 A. So that's what he was saying, actually.

9 Q. Okay. At present no major organizations  
10 recommend any form of routine lung cancer screening  
11 for either the general population or smokers.

12 Next subject, please.

13 Lead-time bias, length bias, and overdiagnosis  
14 are three explanations for why screening can  
15 superficially appear to be beneficial and yet not  
16 improve mortality.

17 Screening for lung cancer is the classic  
18 example of a situation in which screening detects  
19 early cancers, and patients whose cancers are  
20 detected by screening have longer survival, yet  
21 screening does not improve mortality.

22 Is that what he says, sir?

23 A. He said that in referring to the chest  
24 x-ray screening, which is not the CT screening, yes,



1 sir.

2 Q. Next paragraph, please.

3 Now we are going to get to what you are talking  
4 about, sir.

5 A. I see.

6 Q. You see, you have to read the whole  
7 article, not just part of it.

8 A. I read the whole article. I just want to  
9 make sure you are quoting the whole article.

10 Q. I will, sir, you know that.

11 The most important new technology with  
12 potential to screen for lung cancer is low-dose  
13 helical computed tomography, CT.

14 That's what we are talking about in this case,  
15 right, sir?

16 A. Yes, sir.

17 Q. Recent studies from the United States,  
18 Canada and Japan have shown low-dose helical CT to  
19 be much more sensitive than traditional radiography  
20 for the detection of small noncalcified nodules and  
21 early lung cancers. However, it is not very  
22 specific. The positive predictive value for  
23 low-dose helical CT scan in the early lung cancer  
24 axons project, ELCAP, study was 12 percent. That's

1 Claudia Henschke; right?

2 A. Yes.

3 Q. 20 percent of the cohort underwent further  
4 evaluation, including at least serial traditional CT  
5 scans, because of a false positive low-dose helical  
6 CT scan result.

7 Next slide.

8 No controlled studies have been reported using  
9 low-dose helical CT or improved cytologic screening  
10 demonstrating reduced mortality related to screening  
11 for lung cancer.

12 Next slide, please.

13 There are several potential harms from lung  
14 cancer screening. First, there are direct adverse  
15 effects of screening and follow-up, such as  
16 radiation exposure, surgical morbidity and  
17 mortality, and complications occurring from biopsy.

18 Now, those harms they are talking about is what  
19 may happen to you in the follow-up procedures; is  
20 that correct, sir?

21 A. It may happen, and those issues have been  
22 taken up by those who advocate this type of  
23 screening and pointing out the very limited nature  
24 of it.

1       Given the low positive predictive value of the  
2 screening test, the direct adverse effects from  
3 screening and follow-up will most often affect  
4 persons who do not have cancer.

5       That means people who have a false positive and  
6 now they are trying to figure out if they really  
7 have cancer; is that right, sir?

8       A. Yes, sir. I'm not sure I would call it  
9 false positive, though. I just say the test is  
10 not -- the first test is not to find cancer, but to  
11 find nodules, and it does find nodules. So if we  
12 are to say the test is to find nodules, it finds  
13 nodules imminently.

14       Q. Then the people who have the follow-up  
15 procedures, those are the ones who this author  
16 thinks is the most likely to suffer harm; is that  
17 correct?

18       A. Well, certainly that's true, but --

19       Q. Go on to the next one.

20       A. All right.

21       Q. A significant potential harm of screening  
22 is that -- no, the one before that.

23       Given the low positive predictive value of the  
24 screening test, the direct adverse effects of

1 screening and follow-up will most often affect  
2 persons who do not have cancer.

3 Is that what he says, sir?

4 A. Yes, sir.

5 Q. Next, please?

6 Here is another problem that he sees about  
7 screening:

8 A significant potential harm of screening is  
9 that smokers will interpret negative results of  
10 screening tests as assurance that they are disease-  
11 free and will be less motivated to quit smoking.  
12 Smokers may also interpret widespread screening as  
13 an indication that lung cancer is a curable  
14 disease.

15 Is that what he says, sir?

16 A. Yes, sir.

17 Q. Next, please. He concludes by saying:

18 Screening for lung cancer should not be part of  
19 a rational evidence-based screening program.

20 Next, please? Is that the last on this one?

21 And then this is the end of it:

22 These recommendations call for research,  
23 primary prevention, and honest dialogue between  
24 physicians and patients, but they do not call for

1 routine screening of high-risk persons. A  
2 recommendation for routine screening at this time  
3 would impede efforts to understand the best  
4 strategies for the early detection and treatment of  
5 lung cancer.

6 So that's another side of this story, right,  
7 sir?

8 A. Yes, sir.

9 MR. NEWBOLD: Take it off, please.

10 BY MR. NEWBOLD:

11 Q. Now, you showed the jury another article,  
12 and that's Tab 50. This is from Chest magazine.

13 MR. NEWBOLD: Could I see Tab 50, please.

14 MR. FURR: Bill, take it off, please.

15 MR. NEWBOLD: Your Honor, we have a technical  
16 problem here.

17 THE COURT: All right. What do you want to  
18 do?

19 MR. NEWBOLD: I'm going to try to figure it  
20 out.

21 THE COURT: Do you want time to fix it?

22 MR. NEWBOLD: Well, I'm not too sure I can fix  
23 it on the run here. In fact, I know I can't.

24 BY MR. NEWBOLD:

1 Q. Doctor, do you recall testifying about an  
2 article from the New England Journal of Medicine,  
3 and it was called The Lung Cancer Overdiagnosis  
4 Bias?  
5 A. That was in Chest, I believe.  
6 Q. In Chest, I'm sorry.  
7 A. Yes, sir.  
8 Q. You recall that?  
9 A. I believe it was. Can you hold it up and  
10 let me look at it to see what you are talking about.  
11 Q. Well, that's the issue.  
12 MR. NEWBOLD: May I approach the bench, Your  
13 Honor?  
14 THE COURT: Sure.  
15 (At sidebar:)  
16 MR. NEWBOLD: The problem is it hasn't been  
17 shown up. I don't want to show this, but  
18 nonetheless I have to refresh his memory.  
19 THE COURT: Do you want him to --  
20 MR. NEWBOLD: Yeah, he can see that.  
21 (In open court:)  
22 BY MR. NEWBOLD:  
23 Q. You recall testifying about that in Chest  
24 magazine?

1 A. Yes, sir.

2 Q. And that was an article written by -- what  
3 was the doctor's name, please?

4 A. Grannis, Frederick Grannis.

5 Q. Okay. And Dr. Grannis at that time was  
6 another individual doctor who was disagreeing with  
7 the National Cancer Institute and the fact that the  
8 National Cancer Institute does not recommend these  
9 types of helical CAT scans for the early detection  
10 of lung cancer; is that correct?

11 A. Yes, sir.

12 Q. Okay. Can you speak into the microphone a  
13 little more, please, sir, or pull it towards you.

14 A. Yes, sir.

15 Q. Now, I want to make sure that everybody in  
16 this room understands who the National Cancer  
17 Institute is. So I want to ask you a few questions  
18 about the National Cancer Institute because, now, we  
19 have had two individual doctors who are disagreeing  
20 with the National Cancer Institute.

21 So the National Cancer Institute is an  
22 institution of the National Institutes of Health, or  
23 the NIH; is that correct?

24 A. Yes, sir.

1 Q. And the NIH is part of the Department of  
2 Health and Human Services; is that correct?

3 A. Yes, sir.

4 Q. So that means that the NCI, the National  
5 Cancer Institute, is part of the same agency of the  
6 federal government as the office of the Surgeon  
7 General of the United States?

8 A. Yes, sir.

9 Q. All right. And you would agree with me  
10 that the NCI is reputable --

11 A. Yes, sir.

12 Q -- highly regarded organization in its  
13 efforts on tobacco use and lung cancer?

14 A. Yes, sir.

15 Q. And is one of the foremost authoritative  
16 institutions working on the causes of cancer, the  
17 prevention of cancer, and the treatment of cancer?

18 A. Yes, sir.

19 Q. All right. Now, did you know that the  
20 National Cancer Institute has a budget that exceeds  
21 3.3 million -- billion, billion, \$3.3 billion a  
22 year?

23 A. I'm not familiar with their budget, sir.

24 MR. NEWBOLD: Put up Tab 47, please. Dim the



1 lights, please. Can you zoom that in a little bit.

2 BY MR. NEWBOLD:

3 Q. Okay. This is the National Cancer  
4 Institute, the NCI, it's the 2002 NCI budget. Our  
5 total fiscal year 2002 budget request is five  
6 billion thirty million dollars. This represents an  
7 increase of \$1,524,928,000 from the previous year.  
8 Are you familiar with that?

9 A. I don't keep track of the expenditures of  
10 the agencies. No, I wasn't familiar with it.

11 Q. Do you know that the National Cancer  
12 Institute intends to spend \$67 million next year on  
13 cancer tobacco research alone?

14 A. I know it's significant, yes, sir.

15 Q. Okay. And you know that the NCI supports  
16 literally thousands of cancer researchers across the  
17 country?

18 A. Yes, sir.

19 Q. And you also know that it publishes one of  
20 the leading authoritative journals on cancer  
21 research, which is called the Journal of the  
22 National Cancer Institute?

23 A. Yes, sir.

24 Q. And you are familiar with that, aren't you?

1       A.   Yes, sir.  
2       MR. NEWBOLD:   Could you give me Tab 48,  
3 please?  
4 BY MR. NEWBOLD:  
5       Q.   This is the cancer net.   Now, you testified  
6 to me on direct examination or -- on direct  
7 examination by Mr. Segal that you also go on to the  
8 internet from time to time to do your research or  
9 look up things?  
10      A.   Yes, sir.  
11      Q.   And you understand of course that the  
12 National Cancer Institute -- can you blow this up,  
13 please -- the National Cancer Institute has  
14 something called CancerNet, where they put out their  
15 various announcements and their pronouncements and  
16 their findings from time to time.  
17      Are you aware of that, sir?  
18      A.   Yes, sir.  
19      Q.   And I'm sure you have seen that, have you  
20 not?  
21      A.   I don't think I have looked that up.  
22      Q.   You have never used that?  
23      A.   Not this particular source, no.  
24      Q.   Can we go to the next highlighted area,

1 please?

2 The editorial board for the -- can you make  
3 that bigger? I can't read it.

4 The editorial boards are responsible for the  
5 maintenance and accuracy of the PDQ cancer  
6 information summaries. There is a separate  
7 editorial board to cover each type of PDQ summary.  
8 Treatment summaries for adult cancers, treatment  
9 summaries for childhood cancers, cancer screening  
10 and prevention summaries -- that's what we are  
11 talking about now, cancer screening?

12 A. Yes.

13 Q. Supportive care summaries, cancer genetics  
14 summaries, and cancer complementary and alternative  
15 medicine summaries.

16 Go down, please.

17 Each editorial board is multitiered and has  
18 members representing various cancer and other  
19 related specialties for each area. There is a core  
20 editorial board that meets to discuss and modify  
21 cancer information summaries based on review of  
22 recently published data.

23 Next, please.

24 Go down to the next one.

1 Go down to the last one, please.

2 The members of the screening board that comes  
3 up with these recommendations are in the fields of  
4 oncology, cancer prevention, statistics,  
5 epidemiology and economics. The screening and  
6 prevention board currently meets six times a year to  
7 write and update information on cancer screening,  
8 early detection -- that's what we are talking about,  
9 isn't it, sir?

10 A. Yes, sir.

11 Q. -- and prevention of cancer.

12 So that's what the NCI does, is that right,  
13 sir; they are very interested in cancer screening,  
14 would you agree with me?

15 A. That's one thing that they do; that board  
16 specifically looks at that area, yes, sir.

17 Q. Are you familiar, do you know the fact that  
18 they even have a special group within the NCI that's  
19 called the "early detection research group," which  
20 is a part of the NCI's Division of Cancer  
21 Prevention? Did you know that?

22 A. No.

23 MR. NEWBOLD: Tab 49, please. Can you blow up  
24 early detection research group.

1       Okay, now, go down to their mission statement  
2 or what they do.

3 BY MR. NEWBOLD:

4       Q.   Sir, were you aware that, within the NCI,  
5 that they are specifically focused on the topic that  
6 is before this jury, and it's called the Early  
7 Detection Research Group. It develops scientific  
8 information and concepts for dissemination of  
9 knowledge regarding early detection techniques,  
10 practices and strategies to reduce mortality and  
11 morbidity from cancer?

12       Manages and supports clinical trials of early  
13 detection, clinical trials of early detection and  
14 biorepository related to prostate, lung, colon and  
15 ovarian cancer and annualizes research results for  
16 screening for breast and other cancers.

17       Supports clinical trials for other appropriate  
18 research, fosters technological development and  
19 statistical modeling of new technologies and  
20 encourages the publication of specific findings and  
21 adoption of early detection practices. Were you  
22 aware of that?

23       A.   I was aware they were active in that.

24       Q.   So you would agree with me then that the

1 NCI, with its billions of dollars, is an  
2 authoritative and -- an authoritative group when it  
3 comes to whether or not CTs should be used for the  
4 early detection of cancer?

5 A. I believe they are authoritative, yes, sir.

6 Q. Thank you.

7 Were you aware of the fact that the national  
8 institute -- the National Cancer Institute is  
9 currently in the process of trying to decide whether  
10 or not helical CT screening does more good than harm?

11 A. Yes, sir, I'm aware of a study to that  
12 effect.

13 Q. All right. Well, let's see what the  
14 national institute has to say in a press release of  
15 April the 11th of 2000 about spiral CT scans for  
16 lung cancer.

17 MR. NEWBOLD: Tab 52, please. Would you blow  
18 that up.

19 First of all, go to the top, at the very top.

20 BY MR. NEWBOLD:

21 Q. Right here, the National Cancer Institute,  
22 press release.

23 Press releases is one of the ways that the  
24 National Cancer Institute let's its feelings and

1 opinions be known to doctors; is that correct,  
2 doctor?

3 A. Yes, sir.

4 Q. So here, they are talking about exactly  
5 what we are talking about, spiral CT scans for lung  
6 cancer.

7 It starts off again, Lung cancer, which is most  
8 frequently caused by cigarette smoking, is the  
9 leading cause of cancer-related death in the United  
10 States, claiming almost 157,000 lives in 2000.

11 Spiral computed tomography, CT or CAT scans are  
12 being advertised as a new way to find early lung  
13 cancer in smokers and former smokers. However,  
14 questions about the technology's risks and benefits  
15 remain unanswered.

16 Is that what that says, sir?

17 A. Yes, sir.

18 Q. Next paragraph, please.

19 Promising evidence from several studies  
20 shows that the scans can detect small lung  
21 cancers. But detecting these early tumors has  
22 not been proven to reduce the likelihood of  
23 dying from lung cancer, the gold standard for  
24 any cancer screening test.

1           The National Cancer Institute is  
2   designing a large study that should  
3   conclusively answer whether spiral CT does in  
4   fact reduce mortality.  
5   So the NCI is now looking into this issue, and  
6   it's going to issue its opinion as to whether or not  
7   this is a good idea; is that correct, sir?

8   A.   Yes.

9   Q.   All right.  Next.

10          While spiral CT scans may eventually  
11   prove to be an effective lung cancer screening  
12   tool, they can trigger unnecessary invasive  
13   testing or even chest surgery.

14          Scarring from smoking and other  
15   noncancerous changes in the lungs can mimic  
16   tumors on CT scans, challenging the  
17   radiologists who read them.  Interpretations of  
18   the scans can vary, leading to confusion about  
19   recommendations for follow-up care.  
20   Next, please.

21          Christine D. Berg, M.D, chief of the Lung  
22   and Upper Aerodigestive Cancer Research Group  
23   at the National Cancer Institute, estimates that  
24   20 percent to 40 percent of CAT scans of



1 smokers will show abnormalities that are not  
2 cancer.

3 Is that correct, sir?

4 A. Yes, sir.

5 Q. Next, please.

6 The physician may also advise an immediate lung  
7 biopsy, a potentially risky procedure that involves  
8 the removal of a small amount of tissue, either  
9 through a scope fed down the windpipe,  
10 bronchoscopy -- that's one of the follow-up  
11 procedures we talked about, sir?

12 A. Yes.

13 Q. Something somebody might have to do to find  
14 out whether they actually have cancer; is that right?

15 A. That's what all screening tests have to go  
16 through. All those who are screened have to go  
17 through that, whatever it is, yes, sir.

18 Q. Or with a needle through the rib cage --  
19 they stick a needle through your rib cage? Why do  
20 they do that?

21 A. Because they see a spot on CT that may or  
22 may not be cancer, and you can localize that by CT  
23 and stick a very fine needle, after numbing the  
24 skin, and get into that and get a few cells and

1 smear it on a slide and send it to the pathologist  
2 to determine if he sees cancer cells on that slide.  
3 And that's one of the intermediate steps to evaluate  
4 a CT that may show a lesion that could be cancer.

5 Q. Possible complications from biopsies  
6 include partial collapse of the lung, bleeding,  
7 infection and pain and discomfort.

8 Is that correct, sir?

9 A. Yes. I think we discussed some -- most of  
10 those before.

11 Q. Depending on the size and location of the  
12 nodule, chest surgery, thoracotomy, to obtain a  
13 larger biopsy may be recommended. Thoracotomy is a  
14 major surgery that removes substantial amounts of  
15 lung tissue; the procedure can damage nerves in the  
16 chest and may lead to chronic pain.

17 Is that correct, sir?

18 A. Yes, sir.

19 Q. Next, please.

20 But recently some hospitals have begun  
21 promoting spiral CT scans to smokers for early  
22 detection of lung cancer, despite the lack of solid  
23 evidence.

24 Next, please.

1       Some experts worry that this marketing may lull  
2 smokers into falsely believing that they can  
3 continue smoking without increasing their risk of  
4 dying from lung cancer. But the only proven way to  
5 reduce the risk of lung cancer is not to smoke. 85  
6 percent of all lung cancers are caused by smoking.  
7 For people who do smoke, quitting reduces the risk  
8 of lung cancer considerably over the course of  
9 several years.

10       Is that what the NCI says, sir?

11       A. Yes, sir.

12       Q. Next, please.

13       The NCI study will track several thousand  
14 smokers and former smokers to see if those who are  
15 screened with spiral CT scans have a lower mortality  
16 rate than those who do not undergo the scans.

17       Next, please. That's it.

18       Now, Doctor, in addition to the National Cancer  
19 Institute, there are other national public health  
20 organizations that are looking into whether or not  
21 CT screens for the early detection of cancer is a  
22 good thing to do; isn't that correct, sir?

23       A. Yes.

24       Q. And one of those organizations is the

1 American Lung Association; is that correct?  
2 A. Yes, sir.  
3 Q. And are you familiar with the American Lung  
4 Association?  
5 A. Yes, sir.  
6 Q. Is that a reputable organization?  
7 A. Yes, sir.  
8 Q. Is that an authoritative organization?  
9 A. Yes, it is.  
10 Q. Is the American Lung Association committed  
11 to the prevention and cure of various lung diseases,  
12 such as lung cancer, COPD and emphysema?  
13 A. Yes, sir.  
14 Q. And the lung -- and the American Lung  
15 Cancer also publishes articles about their opinions  
16 as to whether or not helical CT scans are a good  
17 thing; is that correct, sir?  
18 A. Yes, sir.  
19 MR. NEWBOLD: Tab 51, please.  
20 BY MR. NEWBOLD:  
21 Q. Let's take a look at what the American Lung  
22 Association says about screening.  
23 American Lung Association statement on new CT  
24 screening technique for lung cancer, July 13, 2000.

1 Next, please.

2 A study recently published in The Lancet  
3 predicted that death rates from lung cancer  
4 could be greatly reduced if smokers and former  
5 smokers were routinely given CT scans of their  
6 lungs.

7 The researchers used a new technique  
8 called a helical low dose CT scan, which is  
9 much more sensitive than conventional chest  
10 x-rays and can detect tumors when they are  
11 small.

12 It is generally believed that small  
13 tumors are more likely than large ones to be  
14 cured.

15 Next, please.

16 The American Lung Association believes  
17 this is an important study which may represent  
18 a significant advance, and that finding lung  
19 cancer early should increase cure rates.

20 However, it is prepremature for the lung  
21 association to endorse screening of all at-risk  
22 patients with this method.

23 So in other words, the American Lung  
24 Association says it's too early, all the evidence is

1 not in. Is that correct, sir?

2 A. That's their position, yes, sir.

3 Q. The technique is not widely available yet,  
4 and its use requires specialized knowledge --  
5 doctors using the CT technique must be able to  
6 distinguish cancerous nodules in the lung from  
7 noncancerous nodules. Further, patients and control  
8 groups have not yet been followed up to determine  
9 whether, in fact, the CT technique will lead to  
10 higher cure rates.

11 That's what the American lung cancer (sic)  
12 says, right, sir?

13 A. American Lung Association.

14 Q. I mean the American Lung Association?

15 A. Yes, sir.

16 Q. Now, a fellow who wrote this is normal H.  
17 Edelman, M.D, scientific consultant for the American  
18 Lung Association; is that correct, sir?

19 A. Yes, sir.

20 Q. And the reason these articles are put out  
21 as one of two official journals published by the  
22 American Lung Association through its medical  
23 section, the American Thoracic Society, its purpose  
24 is to provide pulmonary physicians and researchers

1 with state of the art information on the causes and  
2 treatment of lung diseases.

3 That's why they are sending these things out;  
4 is that right?

5 A. Yes, sir.

6 Q. Another public health organization is the  
7 American Cancer Society; is that correct, sir?

8 A. Yes, sir.

9 Q. And you have heard of the American Cancer  
10 Society?

11 A. Yes, I have.

12 Q. That's a public health organization?

13 A. Yes, sir.

14 Q. They are concerned with cancer?

15 A. Yes, sir.

16 Q. They are concerned with the link between  
17 cigarette smoking and cancer?

18 A. Yes, sir.

19 Q. They are concerned with finding early  
20 detection techniques for cancer?

21 A. Yes, sir.

22 Q. They have the best interest of the American  
23 public at heart?

24 A. Yes, sir.

1 Q. They want to do everything that they can to  
2 detect cancer as early as possible if they think  
3 that it's the thing to do and that it's worthwhile?

4 A. Yes, sir.

5 Q. Let's see Tab 55, please.

6 Let's take a look and see what the American  
7 Cancer Society says about the early detection of  
8 cancer.

9 Would you blow this up, please.

10 American Cancer Society guidelines for the  
11 early detection of cancer.

12 Next.

13 This is by Robert A. Smith, Ph.D., Curtis J.  
14 Mettlin, Ph.D., Dr. Davis, and I can't read the  
15 rest.

16 Next, please.

17 Dr. Smith is a director of cancer screening for  
18 the American Cancer Society in Atlanta. Dr. Mettlin  
19 is a professor of epidemiology at Rosswell Park  
20 Cancer Institute in Buffalo. Dr. Davis is currently  
21 the senior scientist researcher at Triangle Park,  
22 North Carolina, and Dr. Eyre is the executive vice  
23 president for research and medical affairs for the  
24 American Cancer Society in Atlanta.



1 Next. Just go to the next highlighted portion,  
2 please.

3 Go to the next one.

4 MR. NEWBOLD: Your Honor, we obviously have a  
5 technical glitch. May we have a minute to look at  
6 the hard copy?

7 THE COURT: Well, you have something on there  
8 now. That's not what you wanted?

9 MR. NEWBOLD: Okay.

10 BY MR. NEWBOLD:

11 Q. Now, Doctor, the American Cancer Society  
12 looks not only at lung cancer; it looks at all types  
13 of cancers to determine whether or not screening  
14 tests are worthwhile; is that correct?

15 A. Yes, sir.

16 Q. For example, they look at the early  
17 detection of breast cancer. Is that correct?

18 A. Yes, sir.

19 Q. Next slide, please.

20 And the ACS recommends that women should begin  
21 annual screening at the age -- next, please -- of  
22 18, or after the onset of sexual activity, whichever  
23 comes first. After three consecutively negative Pap  
24 tests, screening may be performed less frequently at

1 the discretion of the physician.

2       Then they talk about -- so in other words, they  
3 are recommending a screening test for breast cancer;  
4 is that correct, sir?

5       A. Yes, sir.

6       Q. All right. Now we go to the early  
7 detection of prostate cancer. Next slide, please.

8       And the American Cancer Society -- I won't read  
9 this whole thing, but they are recommending that the  
10 PSA blood test and DREs be offered annually  
11 beginning for men at age 50 who have at least a  
12 ten-year life expectancy, as well as to younger men  
13 who are at high risk. So they are recommending  
14 cancer screening?

15       A. I would like to make a comment about the  
16 prostate cancer screening. This was one of those  
17 screens that was not recommended by the cancer  
18 society, and the public and the physicians went  
19 ahead with it. Now they recommend it because they  
20 found that it saves lives.

21       And the same thing can be said for the Pap  
22 smear in the female genital system; that it was not  
23 studied in a randomized controlled trial, but it  
24 was -- but it is now probably one of the best tests

1 for saving lives.

2       So the American Cancer Society recommends two  
3 tests, the Pap smear and the PSA for prostate, for  
4 cancer screening, and neither one of these tests  
5 underwent the fire and brimstone that the early,  
6 early national groups are considering. So I just  
7 want to make sure that we speak -- we get these  
8 recommendations in perspective.

9       Q. Next, please.

10       This is the recommendation for colorectal  
11 surveillance or screening that the American Cancer  
12 Society recommends; is that true, sir?

13       A. Yes, sir.

14       Q. Next, please.

15       Now we get to lung cancer. And the American  
16 Cancer Society says: At this time, no organization  
17 recommends routine screening for lung cancer either  
18 among the general adult population or in individuals  
19 who are at higher risk due to tobacco or  
20 occupational exposures.

21       That's the American Cancer Society's position  
22 on screening, sir, for lung cancer?

23       A. Yes, sir. But I believe, somewhere in that  
24 article -- and I'm not sure if it's there or more

1 subsequent, recommendation is that we cannot -- they  
2 retreated from that somewhat to state that they have  
3 an open mind in this particular issue, and I think  
4 it's in that article, but I'm not sure. There may  
5 be another one.

6 Q. Next, please.

7 A. Okay. They brought it out.

8 Q. Recommend --

9 A. Did you a good job. I appreciate you --

10 Q. I want to make sure that everything you  
11 want is in these articles I'm going to show you and  
12 the jury; okay?

13 A. Well, okay.

14 Q. In spite of the limitations of existing  
15 data, it is generally accepted that a lung cancer  
16 screening is not effective. Whereas it would be  
17 more appropriate to regard the current evidence-  
18 based situation as one in which there are  
19 insufficient data to recommend for or against lung  
20 cancer screening.

21 That's the American Cancer Society's position  
22 at this time, insufficient evidence for or against;  
23 yes, sir?

24 A. Well, may we go back to that just one

1 moment, please?

2 Q. Sure, absolutely.

3 A. I think it's very important. I think it's  
4 generally accepted lung cancer screening was not  
5 effective using chest x-rays, and that is really  
6 what they are saying.

7 But the current issue of CT is after they went  
8 to the Varese conference in Italy, they could see  
9 the potential of it and had to rethink that issue,  
10 yes, sir.

11 Q. Now, they are saying there is insufficient  
12 data to recommend for or against lung cancer  
13 screening. That's their position?

14 A. That's what it says, yes, sir.

15 Q. Next, please.

16 At this time, the American Cancer Society does  
17 not recommend routine screening for lung cancer  
18 among the general adult population or in individuals  
19 who are at higher risk due to tobacco or  
20 occupational exposures.

21 That's the American Cancer Society's position?

22 A. Yes, sir.

23 MR. NEWBOLD, Your Honor, may I fill my water  
24 glass. I'm just about dry.

1 THE COURT: Sure can.

2 MR. NEWBOLD: Let's go to Tab 57, please.

3 BY MR. NEWBOLD:

4 Q. The article which I am going to put on the  
5 board now is from the New England Journal of  
6 Medicine. I believe -- can you show me that,  
7 please. And I believe you have already testified  
8 that the New England Journal of Medicine is the  
9 number one medical journal in the United States; is  
10 that correct, sir?

11 A. Yes, sir.

12 Q. And you consider it to be authoritative?

13 A. Yes, sir.

14 Q. And you rely upon it in forming your  
15 opinions; is that correct, sir?

16 A. Yes, sir.

17 Q. All right. Let's see what the New England  
18 Journal of Medicine -- as a matter of fact, one of  
19 the articles that you used in direct examination was  
20 from the New England Journal of Medicine; is that  
21 so?

22 A. It may have been. I don't remember.

23 Q. Okay. I think you still have it in front  
24 of you, but I believe that it is.

1 Well, let's let's see what the New England  
2 Journal of Medicine has to say about this topic,  
3 screening for lung cancer.

4 First of all, this is a review article; right?

5 A. Yes, sir.

6 Q. And a review article is where doctors don't  
7 have all the time in the world to review everything  
8 so that very prestigious journals like the New  
9 England Journal of Medicine will sort of put  
10 everything and put it together and have a review; is  
11 that right?

12 A. By an author.

13 Q. By an author?

14 A. Yes, sir.

15 Q. Okay. So let's see who the authors are.  
16 Let's take a look at the authors. This is Edward  
17 F. Patz, Jr., M.D.; Philip C. Goodman, M.D., and  
18 Gerald Parker M.D., Ph.D. Let's go at the bottom  
19 and see who they are. They are from the Department  
20 of Radiology, Duke University Medical Center, and  
21 the Departments of Medicine and Cancer Genetic,  
22 Rosswell Park Cancer Institute, Buffalo, New York.

23 Let's go to the first paragraph.

24 Lung cancer is the leading cause of death

1 from cancer among men and women in the United  
2 States.

3 Next.

4 What is the date on this? Let's go back to the  
5 date on this, please. Right here at the bottom.

6 Okay this is from last year, right, the date?

7 Okay. Let's go to the first item. In fact,  
8 it's November 22nd of last year.

9 There has long been interest in screening  
10 to detect lung cancers when they are smaller  
11 and presumably at earlier and more curable  
12 stages, as witnessed by the support for  
13 previous screening trials using chest  
14 radiography and cytologic examination of  
15 sputum.

16 Unfortunately, these studies failed to  
17 reach the ultimate goal of a diagnostic  
18 screening test, a decrease in disease-specific  
19 mortality.

20 The screened groups had the same number  
21 of deaths from lung cancer as the control  
22 groups, and screening was effectively  
23 abandoned.

24 Next, please.



1           With the development of newer forms of  
2   technology, there has been a resurgent interest  
3   in screening for lung cancer, and patients have  
4   requested the examination after learning of the  
5   new possibilities through the media.

6           Data obtained from subjects at the time  
7   of study entry, prevalence screening data, from  
8   recent trials using low dose computed  
9   tomography, CT --

10          That's what we are talking about today;  
11   right?

12   A. Yes.

13   Q. -- suggest that this technique could save  
14   lives in persons at high risk. These data, however,  
15   are often confusing. Before any new screening  
16   recommendations are made, detailed analysis of the  
17   CT trials are needed, including analyses of  
18   morbidity and mortality data, as well as a cost-  
19   benefit study.

20          We review screening for lung cancer, including  
21   prior trials, ongoing early-detection studies,  
22   potential limitations, and recommendations based on  
23   published data.

24   Next, please.

1       So they start off as kind of like a primer on  
2 screening.

3           Some fundamentals about screening:

4       Screening is performed to detect disease at a  
5 stage when cure or control is possible.

6           Persons with a positive result on  
7 screening can be further evaluated to determine  
8 whether they actually have the disease.

9       Ideally, once the diagnosis is established,  
10 early intervention should change the course of  
11 the disease, resulting in decreased mortality,  
12 the number of disease-specific deaths relative  
13 to the total number of persons evaluated.

14       Although survival from the time of  
15 diagnosis of the disease is commonly reported  
16 in screening trials, it is not an appropriate  
17 measure of a diagnostic screening test and can  
18 be misleading because it is subject to lead-  
19 time bias, length-time bias, and overdiagnosis  
20 bias. An effect on mortality rather than  
21 survival is necessary to validate potential  
22 screening methods.

23       Next, please.

24       The principles of screening can be

1 applied to lung cancer, but success depends on  
2 several basic assumptions. There must be  
3 effective treatment at the preclinical,  
4 asymptomatic stage that can reduce mortality in  
5 the screened group as compared with the  
6 unscreened group.

7 In addition, the sensitivity,  
8 specificity, accessibility, cost, and  
9 associated morbidity of the screening tests  
10 must be reasonable.

11 Next, please.

12 The true clinical significance of the  
13 small tumors found by screening is unknown, and  
14 their effect on mortality awaits future  
15 investigation.

16 Next, please.

17 The ability of CT to identify smaller  
18 nodules than those routinely seen on chest  
19 radiographs has generated interest in this  
20 technique as a potential screening tool.

21 However, the size of the nodule at  
22 diagnosis does not necessarily correlate with  
23 the clinical outcome. It cannot be assumed  
24 that the biologic behavior of lung cancer, the

1 the result of a variety of genetic changes,  
2 parallels anatomical size.

3 This is hard to say. It says it cannot be  
4 assumed that the behavior of lung cancer, the result  
5 of a variety of genetic changes, parallels  
6 anatomical size.

7 Next, please.

8 The assumptions that size correlates with  
9 biologic behavior and that small lesions are  
10 equivalent to early-stage disease have not been  
11 confirmed for lung cancer. Tumors may already  
12 have demonstrated their potential to remain  
13 localized or to metastasize by the time they  
14 are visible on CT imaging.

15 Next, please.

16 Now we get to the current recommendations. So  
17 these are these doctors writing in the New England  
18 Journal of Medicine as to what they think.

19 Although there is public and political  
20 pressure, based only on low-dose CT prevalence-  
21 screening data, to change clinical practice  
22 rapidly and to offer mass lung cancer  
23 screening, there should be no compromise or  
24 shortcuts in the rigorous scientific process

1 required to determine whether this practice is  
2 justified.

3 Too often, presumed solutions have  
4 prematurely become standard medical care before  
5 the appropriate studies have been completed.  
6 We strongly recommend that well-designed  
7 studies be conducted, completed, analyzed, and  
8 validated before a mass screening program is  
9 implemented.

10 Until these trials clearly confirm a  
11 reduction in mortality from lung cancer, only  
12 carefully monitored studies should enroll  
13 patients for lung cancer screening.

14 So once again, what these doctors are saying,  
15 it may be good, it may not be good; what's necessary  
16 is to do the necessary tests to make sure that it  
17 does more good than harm. Isn't that correct, sir?

18 A. May I answer, because I think this requires  
19 a little bit of an analytical review of this  
20 particular Dr. Patz and what he is saying. May I  
21 answer to critique this particular reference,  
22 because there are better minds than I have who have  
23 taken these points and says he is incorrect?

24 But if I'm able to hit upon what some of the

1 other opinions related to this, I think it would be  
2 appropriate based upon this study --

3 Q. Sir, let me do it this way --

4 A -- this article, I mean.

5 Q -- because in order to, so we can move along  
6 and get this thing done a little earlier. Mr. Segal  
7 will have an opportunity to ask you questions on  
8 redirect examination.

9 But at this time all I would simply like to ask  
10 you is to confirm that this is the opinion of these  
11 doctors that are contained in the New England  
12 Journal of Medicine; is that correct, sir?

13 A. Yes, sir.

14 Q. Okay. I want to go now to Tab No. 59. I'm  
15 going to show you now what I think might be the  
16 latest update from the National Cancer Institute,  
17 and this is an update from July of 2001.

18 This is, I think, the latest word from the  
19 National Cancer Institute about whether or not we  
20 should do CT scans. So it's from the CancerNet,  
21 which is the NCI, Screening for Lung Cancer,  
22 Screening Detection.

23 Next, please.

24 There are intensive efforts to improve

1 lung cancer screening with newer technologists,  
2 for example, low radiation dose computed  
3 tomography, and molecular techniques which,  
4 although promising, have not been validated in  
5 large controlled studies.

6 Helical computed tomography, spiral CT,  
7 is a new modality of potential use in  
8 screening. Lack of appropriate mortality data  
9 and the high probability of overdiagnosis,  
10 identification through screening of tumors with  
11 little to no clinical significance, argue  
12 strongly against immediate acceptance of this  
13 new test into clinical practice.

14 That's the latest word from the National Cancer  
15 Institute; is that correct, sir?

16 A. Yes, sir.

17 Q. Now, finally, Doctor, in our search through  
18 the literature, I want to show you -- and I'm not  
19 going to put it on the board quite yet, but I'm  
20 going to show you the consensus statement of the  
21 Society of Thoracic Radiology.

22 And it's about whether or not there should be  
23 screening for lung cancer with helical CTs. And the  
24 reason I think this is so important -- strike that.

1       You testified on direct about Claudia  
2 Henschke's studies; is that correct?

3       A. Yes, sir.

4       Q. And Claudia Henschke is the woman who did  
5 the ELCAP studies, and she was the one who first  
6 came up with this idea about using helical CTs to  
7 see whether or not they should be used generally to  
8 detect lung cancer; is that correct, sir?

9       A. Yes.

10      Q. All right. Let's see what Claudia Henschke  
11 has to say about that.

12      Next slide, please. Can you blow this up,  
13 please.

14      This is a consensus statement of the Society of  
15 Thoracic Radiology, Screening for Lung Cancer with  
16 Helical Computed Tomography, and it's written by  
17 Denise Aberle, Dr. Gordon Gamsu, Dr. Claudia  
18 Henschke, who we just talked about, David P.  
19 Naidich, Doctor, and Stephen J. Swensen, M.D.

20      Next slide, please.

21      And this is current. This is what Claudia  
22 Henschke, who invented this, has to say about  
23 whether it should be used generally.

24      This consensus statement by the Society of



1 Thoracic Radiology is a summary of the current  
2 understanding of low dose computed tomography, CT,  
3 for screening for lung cancer.

4 Lung cancer is the most common fatal  
5 malignancy in the industrialized world. Unlike  
6 the the next three most common cancers,  
7 screening for lung cancer is not currently  
8 recommended by cancer organizations.

9 Improvements in CT technology make lung  
10 screening feasible. Early prevalence data  
11 indicate that about two-thirds of lung cancers  
12 that are detected by CT screening are at an  
13 early stage.

14 Other data support the postulate that  
15 patients with lung cancers detected at this  
16 early stage have better rates of survival.  
17 Whether this will translate into an improved  
18 disease specific mortality is yet to be  
19 demonstrated.

20 Next slide, please.

21 It is the consensus of this committee -- and  
22 that includes Claudia Henschke -- that mass  
23 screening for lung cancer with CT is not currently  
24 advocated.

1           Suitable subjects who wish to participate  
2           should be encouraged to do so in controlled  
3           trials, so that the value of CT screening can  
4           be ascertained as soon as possible.

5           But right now, Dr. Gaziano, you would agree  
6           with me that Dr. Henschke says that mass screening  
7           for lung cancer with CT is not currently advocated;  
8           is that correct, sir?

9           A.   Yes, sir.

10          MR. NEWBOLD:   May we approach, Your Honor.

11          THE COURT:   All right.

12          (AT sidebar:)

13          MR. NEWBOLD:   I don't know what your pleasure  
14                           is. I'm about to switch topics. Should I keep  
15                           going?

16          THE COURT:   We need to go till 20 after so the  
17                           one juror can take her shot.

18          MR. NEWBOLD:   Okay, thank you.

19          (IN open court:)

20          BY MR. NEWBOLD:

21           Q.   Doctor, I would like to go to another topic  
22                   now, if I may.

23           A.   All right.

24           Q.   You testified on direct that you believe

1 that there was an increased risk of lung cancer and  
2 COPD for people who have a five pack year history of  
3 smoking; is that correct?

4 A. Yes, sir.

5 Q. Okay. Now, Doctor, there never has been a  
6 study that has demonstrated an association between  
7 smoking and COPD and lung cancer using as study  
8 subjects persons who have a five-year pack history?

9 A. I believe that's correct, yes, sir.

10 Q. No study?

11 A. I think there are some inferential studies,  
12 but I'm not aware of any looking at those specific  
13 two diseases as it relates to that. There are some  
14 inferential studies that indicate that smoking a few  
15 cigarettes a day, there is a significant health  
16 hazard.

17 There are studies that indicate that household  
18 contacts of smokers have an increased risk of cancer  
19 and respiratory symptoms. Those are published in  
20 the Surgeon General's reports. But looking at it in  
21 that particular way, five pack years, I'm not aware  
22 of any particular study.

23 Q. There is no study that looked at people who  
24 only have a five pack year history, and there is no

1 study that determined that, because of that five  
2 pack year history, that it had any link to cancer,  
3 lung cancer or COPD; is that correct, sir?

4 A. As I said -- that's correct. But as I said  
5 previously, there are studies that indicate  
6 increased mortality figures for people who smoke at  
7 that level, and that there are associated mortality  
8 with people who are exposed to relatively limited  
9 amount of smoking -- smoke.

10 Q. Doctor, if you quit smoking, if a person  
11 quits smoking for ten to fifteen years, the Surgeon  
12 General of the United States says that that person's  
13 risk for lung cancer is about the same as a  
14 nonsmoker. Would you agree with that, sir?

15 A. Yes. The Surgeon General says it's almost  
16 that, but it doesn't quite reach that of nonsmokers.

17 Q. And that's not what I said. I said is  
18 about the same as nonsmokers; is that correct, sir?

19 A. Well, I wanted to clarify that a little  
20 bit.

21 Q. Well, as a matter of fact, when your  
22 deposition was taken, your clarification was, when  
23 someone has quit smoking for ten to fifteen years,  
24 that their risk of lung cancer is slight?

1       A. To be specific, the Surgeon General's  
2 report is that it's twice that of -- it goes from  
3 ten times that of a never-smoker to twice that of a  
4 never smoker.

5       MR. NEWBOLD: Could you give me Tab No. 20,  
6 please, Jason.

7       Next, please. Next, page, please.

8       Blow that up, please.

9 BY MR. NEWBOLD:

10      Q. The Surgeon General said in his 1979 report  
11 that ex-smokers experience decreasing lung cancer  
12 mortality rates which approach the rates of  
13 nonsmokers after ten to fifteen years of cessation.

14      The residual risk of developing lung cancer in  
15 ex-smokers is proportional to the overall dosage of  
16 lifetime cigarette smoking exposure and inversely  
17 related to the interval since cessation.

18      Is that what the 1979 Surgeon General's report  
19 said, sir?

20      A. That's correct, yes, sir.

21      Q. And what you told me -- take that off,  
22 please -- when your deposition was taken, that you  
23 believe that, if a person has quit smoking for ten  
24 to fifteen years, that his or her chance of getting

1 lung cancer was slight. Do you recall that, sir?

2 A. I said "slight," and today I said that  
3 slight transfers into two times background risk.

4 Q. Now, Doctor, if you quit smoking before you  
5 get COPD or emphysema, you won't get it; right?

6 A. That's correct.

7 Q. Okay. And if you quit smoking and then  
8 have a spirometry test done, and that spirometry  
9 test is normal, there is no point in retesting the  
10 person; is that correct?

11 A. I have said that probably in public forums  
12 several times, yes, sir.

13 Q. All right. So, if you have a 25-year-old  
14 person who is in this class, and he or she has a  
15 five-year pack history, okay, and now she quits for  
16 fifteen years, and now she is 40, okay, if she  
17 didn't have COPD before she quit -- strike that.

18 If she quit smoking in this fifteen years  
19 between being 25 and 40, and she tests normal on her  
20 first spirometry test, then there is no reason for  
21 her to ever be tested again; is that correct?

22 A. That's my opinion.

23 Q. Now, she still doesn't smoke, and she still  
24 doesn't smoke, and she still doesn't smoke, and she

1 hasn't smoked for 25 years. And now she is 50 and  
2 she gets her first CT scan, her risk of lung cancer  
3 is very, very, very slight, isn't it, sir, if she's  
4 quit smoking for 25 years?

5 A. Yes.

6 Q. And yet you think she should be tested  
7 every year for the rest of her life?

8 A. You know, this five pack year level, if you  
9 are going to draw me into it -- you don't let me be  
10 involved in certain aspects, and then you want my  
11 opinion for certain aspects.

12 But what I would like to say, the five pack  
13 year, as as I understand it, and I wasn't involved  
14 in the evolution, is to pick up every potential  
15 person at risk.

16 That doesn't mean the group for five pack  
17 years. That's where it begins. The group includes  
18 people who smoked significantly longer. So if you  
19 want to talk about the five-year as being some  
20 issue, you may, and you can take that up with  
21 Dr. Burns.

22 But as far as -- it's a starting point and some  
23 people may start at a different place, and some  
24 people start at that point. And I'm not going to

1 get into what is a proper place to start.

2 Q. But you understand, don't you, sir, that  
3 someone can be in this class with as little as a  
4 five pack year history, just that?

5 A. Yes, sir, and there is good -- and if it's  
6 a person as you described, it would be very low,  
7 yes, sir.

8 Q. Okay. Doctor, a smoker comes into your  
9 office when you were still practicing in 1997, no  
10 spirometry, you tell him to quit smoking?

11 A. Yes, sir.

12 Q. Okay. A smoker comes into your office, you  
13 give him a spirometry, and it's normal. You tell  
14 him to quit smoking?

15 A. Yes, sir.

16 Q. A smoker comes into your office, and you  
17 give him a test, and he has COPD. Do you tell him  
18 to quit smoking?

19 A. Yes, sir.

20 Q. A smoker comes into your office, and you  
21 give them a spirometry test, and he has emphysema.  
22 Do you tell him to quit?

23 A. Yes, sir.

24 Q. So regardless of if he comes in and gets



1 the test or he comes in and comes in and gets a test  
2 or doesn't get a test, your advice to a smoker is  
3 always the same, and that is to quit; isn't that  
4 right?

5 A. Not necessarily. The urgency --

6 Q. There are some people you say, Keep  
7 smoking?

8 A. No.

9 Q. You tell them to quit?

10 A. You tell them to quit in different manners  
11 and different -- the purpose of a spirometry is to  
12 give someone the informed consent to let them know  
13 they have a disease. And how they react to that  
14 knowledge is a combination of what the doctor does  
15 for the patient and what he perceives that he should  
16 do.

17 And so to find the disease is important for a  
18 doctor, and I think it's important for the patient.  
19 And what one does with that information is -- by the  
20 doctor and the patient, is a variable thing.

21 Q. Is there any circumstance that you can ever  
22 think of that a patient of yours has come in and has  
23 tested either negative or positive on a spirometry  
24 where you would tell them go on and keep smoking?

1 A. Well, heck, no.

2 Q. Thank you, sir.

3 MR. NEWBOLD: I have no further questions of  
4 this witness.

5 MR. SEGAL: Your Honor, can we approach for a  
6 moment, please.

7 THE COURT: All right.

8 (At sidebar:)

9 MR. SEGAL: I realize the 48-hour rule doesn't  
10 apply to articles which will be used in cross, but I  
11 was wondering if I might be favored with them  
12 because it's a little difficult to track the ones  
13 that, if you don't know -- sometimes you can't see  
14 the dates and all that. And I kind of need that to  
15 be sure that the years of the articles and what I  
16 need to redirect him on.

17 I have them on my desk, I think, but I don't  
18 want to take a quote out of something and say he  
19 didn't read this, let's read this now and not know  
20 what I'm dealing with.

21 THE COURT: What are you asking for?

22 MR. SEGAL: I'm asking for copies of that --

23 MR. NEWBOLD: I will be more than happy. The  
24 reason I didn't do it that way, Your Honor, it is so

1 cumbersome to come back and forth. I have copies of  
2 the articles.

3 THE COURT: From now on, that's what you are  
4 asking for. What are you asking for right now?

5 MR. SEGAL: I didn't want to interrupt him. I  
6 would like copies of the articles.

7 MR. NEWBOLD: He may have them.

8 THE COURT: And then what do you want?

9 MR. SEGAL: I want to take a break.

10 THE COURT: That's what I thought. Get right  
11 to the chase. I can take it. I'm a big boy. You  
12 can give it to me straight.

13 MR. SEGAL: I can get started for ten or  
14 fifteen minutes.

15 THE COURT: Do you have about that, and then  
16 you want to take a break?

17 MR. SEGAL: Because you want to go as close to  
18 10:30 as you can.

19 THE COURT: And you let me know when you are  
20 ready.

21 MR. SEGAL: Okay.

22 (In open court:)

23 THE COURT: Do you want to leave the lights on?

24 MR. SEGAL: You can leave them on. If I'm

1 missing some, I may need them to bring it up.

2 THE COURT: All right.

3 MR. SEGAL: Can you leave the book?

4 MR. NEWBOLD: All right.

5 -- -- --

6 REDIRECT EXAMINATION

7 BY MR. SEGAL:

8 Q. Good morning. We have gone over several  
9 articles this morning, and I think we need to talk  
10 about some of the statements that were quoted to you  
11 and what's in them. But before we do that, I want  
12 to know something. You have been screening people  
13 for black lung disease in the State of West Virginia  
14 for how long?

15 A. Thirty years.

16 Q. And for whom have you been screening those  
17 people for over thirty years?

18 A. Mostly the federal government, the  
19 Department of Labor.

20 Q. Have you also --

21 A. I have done other screens for groups and  
22 individuals, patients.

23 Q. Did you need this book to tell you how to  
24 screen them?

1 A. No.

2 Q. Did you ever see this book in your thirty  
3 years of practice before they handed it to you at  
4 your deposition?

5 A. No. But I went through it over the weekend  
6 and found it interesting. Actually I had reviewed  
7 it before, but not since the previous deposition.

8 Q. With regards to asbestos, people who have  
9 worked around asbestos, would you give these folks  
10 some idea of the different tradespeople you have  
11 seen over the years both in your practice --

12 MR. NEWBOLD: Objection, Your Honor.  
13 Objection, Your Honor. This is -- may we approach,  
14 or shall I make my objection standing here?

15 THE COURT: What's the objection?

16 MR. NEWBOLD: The objection is, it's clearly  
17 outside the scope of direct; it's outside the scope  
18 of cross.

19 THE COURT: The objection will be overruled.  
20 BY MR. SEGAL:

21 Q. Would you tell these folks the types of  
22 tradespeople you have screened over the years for  
23 the presence or absence of asbestos-related  
24 diseases?

1       A. Well, I have screened steel millworkers in  
2 this particular part of the country, in the upper  
3 Ohio Valley. Boilermakers, steamfitters,  
4 pipefitters, janitors, electricians, just about most  
5 construction trades who have worked in the  
6 construction industry in the United States,  
7 particularly West Virginia.

8       Q. Did you need this book to tell you how to  
9 do those screening tests?

10      A. No.

11      Q. Tuberculosis, are you particularly involved  
12 in the early detection or diagnosis of tuberculosis?

13      A. Yes, sir.

14      Q. Could you explain to the jury how it is you  
15 are involved in the screening for people who are  
16 suspected of suffering from tuberculosis?

17      A. Well, I have been for 28 years the Kanawha  
18 County clinician for TB, which means that most TB in  
19 Kanawha County is referred to my clinic in the  
20 public health area. So I see people who have  
21 established disease.

22      I also screen people for disease who have been  
23 exposed to a bus driver in Kanawha County. Five  
24 thousand -- I mean, not five thousand, five hundred

1 children were exposed, and we screened all those  
2 children. So that's how I get involved with it.

3 Q. Do you need this book to tell you how to do  
4 those screenings?

5 A. No, sir.

6 Q. Mr. Newbold showed you an article, and I  
7 want to show the jury something about these  
8 articles. Can we go to ELMO, please.

9 Now, if you recall -- or let me ask you, do you  
10 recall that Mr. Newbold read you a quote this  
11 morning from the article he said was written by  
12 Dr. Frame, Routine Screening for Lung Cancer, Maybe  
13 Some Day But Not Yet. Do you remember he showed you  
14 that article?

15 A. Yes, sir.

16 Q. And did you read you the quote that said:

17 Indeed, 8 prospective studies for  
18 screening for early lung cancer either by  
19 periodic chest radiographs or by sputum  
20 cytologic tests have been reported in the past  
21 forty years?

22 Is that a quote you were read today and asked  
23 about?

24 A. Yes, sir.

1 Q. Now, what I want the jury to understand  
2 about these articles --

3 MR. SEGAL: Do we have that here?

4 BY MR. SEGAL:

5 Q. -- when a scientist or a physician makes a  
6 statement, if they want to back it up, they can put  
7 a little footnote right there which in this case  
8 says three to ten.

9 Tell the ladies and gentlemen of the jury when  
10 you see those footnote numbers three to ten, what  
11 the doctor is saying about the previous statement he  
12 made?

13 A. Well, basically it means that that  
14 statement is based upon articles in the literature  
15 and you could look in the back where they are  
16 listed, and article number three or ten were  
17 articles he used.

18 Q. And those articles are articles that are  
19 listed right on the back page of this very paper,  
20 three through ten, to support that statement about  
21 retrospective studies that was quoted to you today;  
22 is that right?

23 A. Yes, sir.

24 Q. Well, why don't we look at, Doctor, the



1 date of the articles, the date of the articles three  
2 through ten, let's take a peak at that, to support  
3 that statement.

4 Three through ten -- what did I do with that --  
5 those articles were written in 1966.

6 By the way, you would agree that the Cancer of  
7 Respiratory Diseases --

8 A. Cancer Research.

9 Q. Cancer Research is an authoritative  
10 journal?

11 A. Yes.

12 Q. What's this one?

13 A. British Medical Journal.

14 Q. The British Medical Journal, that's an  
15 authoritative journal?

16 A. Yes, sir.

17 Q. Chest, certainly very authoritative in your  
18 view?

19 A. Yes, sir.

20 Q. These are all journals you would rely upon;  
21 right?

22 A. Yes, sir.

23 Q. But the articles that he was citing were  
24 published in 1966, 1968, 1969, 1984, 1986, 1986, and

1 1986.

2 So the most recent was 1986 and the oldest was  
3 1966.

4 A. Yes, sir. That's what I was trying to get  
5 across when we are talking about studies fail to  
6 support. They are old studies and they don't take  
7 into account the modern technology.

8 Q. Well, we will go to Dr. Henschke, but just  
9 give them an idea, when was Dr. Henschke's work and  
10 the other doctors who they have seen their names,  
11 when was that work done?

12 A. It was in 1999.

13 Q. '99?

14 A. It was done a little earlier, but it was  
15 published in '99.

16 Q. So almost a decade and a half after the  
17 most recent of these?

18 A. Yes.

19 Q. And there was an interesting quote he  
20 showed you and it doesn't have a footnote. Look at  
21 this quote he showed you.

22 MR. SEGAL: It's like working with a mirror,  
23 Judge, I'm sorry.

24 BY MR. SEGAL:

1 Q. Now, you were read this sentence:

2 A significant potential harm of screening  
3 is that smokers will interpret negative results  
4 of screening tests as assurance that they are  
5 disease free and will be less motivated to quit  
6 smoking.

7 There is no footnote there, is there, Doctor?

8 A. No.

9 Q. In your review of the literature, are there  
10 articles to support that statement by this  
11 Dr. Frame?

12 A. That's an opinion, no, sir.

13 Q. There are no published articles to support  
14 that kind of statement, are there, Doctor?

15 A. No.

16 Q. And you were shown -- I need the Henschke  
17 article, please, and then -- may I just see the  
18 Henschke article you showed the composite  
19 statement?

20 MR. NEWBOLD: Yes. The thoracic society --

21 MR. SEGAL: It was their statement.

22 MR. NEWBOLD: The last one I showed?

23 MR. SEGAL: Yeah.

24 MR. NEWBOLD: May I have Tab No. 60?

1       Is that it, Scott?  
2       MR. SEGAL: Yes, thank you.  
3 BY MR. SEGAL:  
4       Q. You were shown, Doctor, this article, a  
5 consensus statement and there is Dr. Aberle, Gordon  
6 Gamsu, Dr. Henschke is on there, Dr. Swensen,  
7 Dr. Naidich; okay? Do you recall seeing that?  
8       A. Yes, sir.  
9       Q. And you wanted to respond to that, but  
10 before you do, Dr. Henschke's published in this  
11 article quite a bit in the past two years, hasn't  
12 she?  
13       A. She has.  
14       Q. I want to show you now an article --  
15       THE COURT: Do you need time to get that  
16 ready?  
17       MR. SEGAL: Give me two -- I just want to point  
18 out this one conclusion and I will sit down, Judge,  
19 I promise.  
20       THE COURT: Okay.  
21       MR. SEGAL: Just give me two seconds. This  
22 will be the last one.  
23       THE COURT: All right.  
24 BY MR. SEGAL:

1 Q. She's also written an article recently on  
2 the Early Lung Cancer Action Project: A Summary of  
3 the Findings on Baseline Screening. And she wrote  
4 that with McCauley, Yankelevitz, Naidich,  
5 McGuinness, Miettinen, Libby, Pasmantier, Koizumi,  
6 Altorki and Smith; is that correct? That's a 2001  
7 article, isn't it?

8 A. Yes, sir.

9 Q. And Dr. Gaziano, am I correct that the  
10 conclusion in that 2001 article that they reached,  
11 all those doctors, in that 2001 article:

12 Conclusion: Baseline CT screening for  
13 lung cancer provides for detecting the disease  
14 at earlier and presumably more commonly curable  
15 stages in a cost-effective manner.  
16 That was their conclusion, was it?

17 A. Yes.

18 Q. That was published in The Oncologist in the  
19 year 2001?

20 A. Yes, sir.

21 Q. And The Oncologist is certainly a reputable  
22 scientific journal which you and other physicians  
23 rely upon in formulating your opinions?

24 A. Yes, sir.

1 MR. SEGAL: Thank you, Dr. Gaziano.  
2 I have a bit more, Judge --  
3 THE COURT: I know you do. Let's take the  
4 morning break now. All right.  
5 (A recess is taken.)  
6 (In open court with a jury present.)  
7 THE COURT: Be seated, please.  
8 All right.  
9 MR. SEGAL: Thank you, Your Honor.  
10 BY MR. SEGAL:  
11 Q. Dr. Gaziano, I want to talk for a moment  
12 about the article that you were shown, screening  
13 strategies, this is the Petty article. That's the  
14 one that you were talking about both on direct and  
15 cross. And one of the statements you were shown  
16 today which I want to talk to you about was that it  
17 said that no major medical organization in the  
18 United States recommends any form of screening for  
19 lung cancer.  
20 For this reason, lung cancer -- that being the  
21 lack of screening -- lung cancer is not diagnosed  
22 until it is symptomatic and usually when it is in  
23 advanced and incurable stages.  
24 That's what you were saying on direct --

1 A. Yes, sir.

2 Q -- when you were here with the jury last  
3 week?

4 A. Yes, sir.

5 Q. Now, let me ask you this: Based upon  
6 Dr. Henschke's work and all those articles that you  
7 were shown this morning, is the early detection, if  
8 that's the question, is early detection of lung  
9 cancer possible with this new modality? Does  
10 everybody agree it is?

11 A. Absolutely, yes.

12 Q. The question that they are debating is not  
13 whether early detection is possible, it's whether  
14 that will reduce mortality?

15 A. That's what some people questioned,  
16 although some people think that -- because the  
17 overwhelming sensitivity of this test -- and I did  
18 look up sensitivity and specificity and positive  
19 predictive value -- the early sensitivity of this  
20 test has gotten everybody's attention.

21 And the fact that these problems that we have  
22 seen, about several people who are talking about the  
23 problems with patients knowing about it, has been  
24 shown that both in Mayo Clinic and Columbia, it is

1 small and manageable.

2       So there is a body, a strong authoritative  
3 body, out there saying there is enough evidence now,  
4 let's go ahead with it.

5       Q. All right. But even those who are saying  
6 they want more evidence, they don't want more  
7 evidence that it can early detect. What they want  
8 more evidence about is will it reduce mortality?

9       A. Yes, sir.

10       Q. All right.

11       Because nobody is suggesting that the machines  
12 won't early detect the condition?

13       A. No, sir.

14       Q. Now, the other thing is that Mr. Newbold  
15 asked you about, all these -- having a needle stuck  
16 through your ribs and having your chest cut open for  
17 biopsy and all that.

18       Here is my question: Although he showed you  
19 quotes of people who said that may happen, based  
20 upon the ongoing studies, are there any reports that  
21 it is happening?

22       A. Well, the thing that he alluded to,  
23 certainly needle biopsies are happening, and  
24 certainly needle biopsies can produce what's called



1 discomfort and morbidity.

2       The fact that it -- if it produces death, it's  
3 exceedingly rare, well within the acceptable follow-  
4 up of cancer. When you are weighing the death of  
5 one out of five hundred people that you have  
6 screened versus saving a hundred individuals with  
7 incurable lung cancer, you have to weigh these  
8 things.

9       And the evidence, according to the studies, if  
10 done according to a certain manner -- and we hope  
11 it's done according to a certain manner -- that  
12 ultimately it is safe. It puts the patient through  
13 some discomfort, but it's essentially a safe  
14 procedure. And I feel that the literature is very  
15 strong in that regard.

16       Q. How about also with regards to the -- that  
17 that accounts for a very small segment of those who  
18 are going to benefit from the early detection?

19       A. Well, you know, it depends on cost and what  
20 the patients have to go through. Clearly, you have  
21 to evaluate those.

22       If I can speak on spirometry. Spirometry is  
23 safe, it's cheap, it has a -- because it is -- the  
24 gold standard defines it. It is very specific and

1 very sensitive and has a positive predictive value  
2 of over 90 percent.

3       So basically I hope -- and we have an enormous  
4 amount of authoritative sources supporting that. As  
5 far as the lung, CT scanning, we have -- what was  
6 the question, I'm sorry? I'm sorry.

7       Q. Is it safe and that the group that  
8 ultimately has to go to these --

9       A. Okay. Basically the studies have shown  
10 that the Mayo Clinic can handle this. Columbia can  
11 handle this. They are not worried about all these  
12 bogey men that is being up upon the screen; they  
13 could handle it.

14       And they are saying, we go through a systematic  
15 way, and no more than any other test that you might  
16 go through. If you go to the Mayo Clinic and you  
17 get screened for something else, they can handle  
18 it.

19       And the most important thing is that Mayo  
20 Clinic doesn't kill people, and Claudia Henschke  
21 hasn't killed any one. The worst thing that  
22 happened -- and it's a miracle. The worst thing  
23 that happened is that they have had 28 people that  
24 they operated on -- and that's where the morbidity

1 and mortality might come from.

2 Even thoracotomy in current modern medicine is  
3 exceedingly safe. They had one death -- I mean, one  
4 false positive, one person who didn't have cancer;  
5 27 had cancer, and none of them died. Nobody died  
6 in that study.

7 So -- and so, when you are talking about  
8 sensitivity and specificity, if you are looking at  
9 the end point of opening the chest, it's 90 percent  
10 sensitive and 90 percent plus specific.

11 Q. With regards to the Petty study, I want to  
12 show you two other things about that.

13 You were shown that study, but here is one more  
14 of those -- one of those quotes. It says:

15 The NLHEP -- would you tell the ladies and  
16 gentlemen of the jury what that is.

17 A. Well, that's the National Lung Health  
18 Experimental Project.

19 Encourages all primary care practitioners  
20 to perform spirometric testing in smokers older  
21 than 45 years and in anyone with cough,  
22 shortness of breath, wheezing, or mucus  
23 hypersecretion.

24 Q. And the citation for that, so people will

1 know who is saying that, that is 34 that was  
2 published in Chest in the year 2000.

3 A. Yes.

4 Q. From the National Health Lung Education  
5 Program; correct?

6 A. Correct.

7 Q. And in fact, as of the year 2000, for a  
8 current smoker, with regards to spirometry, okay,  
9 except for the one test when you are 40, for people  
10 over 45, that's exactly what they are suggesting,  
11 who are current smokers?

12 A. Well, that's what I meant. I said, the  
13 specific of this screening is not -- but there are  
14 other authorities who say that it is close, yes,  
15 sir.

16 Q. To sum up your opinion:

17 Computed tomography will provide a higher  
18 yield of detection than standard chest  
19 radiography.

20 And there is a footnote ten and without  
21 blinding everyong, that's Dr. Henschke's original  
22 1999 study; correct?

23 A. Yes.

24 Q. Follow-up of patients with moderate to high

1 degrees of dysplasia will identify even more  
2 lesions. What does that mean?

3 A. That means studying the sputum cytology.

4 Q. Hopefully this new nationwide effort plus a  
5 change in attitude about screening will identify  
6 many more patients with lung cancer so a higher cure  
7 rate can be expected, compared with the dismal  
8 outcome when lung cancer is diagnosed as incidental  
9 finding or on the basis of symptoms, which usually  
10 represents advanced and often metastatic stages of  
11 disease.

12 That's your view, isn't it, Doctor?

13 A. Yes, sir.

14 Q. The same thing you said when you were here  
15 last week?

16 A. Yes, sir.

17 Q. Finally, you were shown this article that  
18 you told the jury about. Well, that's got to do,  
19 part of it, with a -- part of it has got to do with  
20 an Italian study. And I want to read a couple of  
21 things. Is this the article you were shown, the  
22 American Cancer Society guidelines for the early  
23 detection of cancer?

24 A. You have apparently a computer print out

1 but, yes, it's the same article.

2 Q. You talked about a little bit about breast  
3 screening. I just want to go through their findings  
4 in that very same article. And changes which occur  
5 over time as we learn more and more.

6 You were mentioning breast cancer. Let's look  
7 at what they say. The early detection. Since 1977,  
8 the American Cancer Society guidelines for the early  
9 detection of breast cancer have been updated five  
10 times, most recently in 1992 and 1997.

11 The genesis of the 1997 update was  
12 increasing evidence in the literature that the  
13 detectable preclinical phase, the sojourn time,  
14 for breast cancer had a shorter duration in  
15 premenopausal women compared with  
16 postmenopausal women.

17 Data from the two-county study estimated  
18 mean sojourn times for women between the ages  
19 of 40 and 49 at 1.7 years compared with more  
20 than 3.3 years for women older than age 50.

21 These findings, coupled with accumulating  
22 data on the value of screening for  
23 premenopausal women indicated that the  
24 recommendation originally made in 1983 --

1       namely, that women ages 40 to 49 undergo  
2       mammography every one to two years -- should be  
3       reconsidered as it was not consistent with  
4       accumulating evidence.

5       And indeed, isn't it also true, Doctor, that a  
6       lot of that accumulating evidence in these  
7       recommendations were made before they ever had  
8       mortality studies; isn't that true?

9       A. Yes, sir.

10      Q. And with regards to mortality studies, I  
11      want to talk about the early detection of prostate  
12      cancer. I'm afraid I'm going to have to go read it  
13      because I can't get it any bigger.

14      It says here:

15      The impact -- first of all, it says the  
16      principal strenghts of the PSA test -- that's the  
17      one for prostate cancer; right?

18      A. The blood test, yes, sir.

19      Q. -- are its superior sensitivity, reasonable  
20      cost and high patient acceptance. The principle  
21      drawback of the test is its imperfect specificity  
22      owing to the fact that common conditions such as  
23      benign prostatic hyperplasia and prostatitis can  
24      cause borderline or even markedly abnormal test

1 results.

2 Doctor, does that mean that people who have  
3 this test may get told by their doctor, You may have  
4 prostate cancer, when really all they have got is  
5 prostatic hyperplasia or prostatitis?

6 A. Well, yes, sir.

7 Q. That's exactly what it is saying, isn't it?

8 A. Absolutely.

9 Q. And these two conditions are not fatal, are  
10 they?

11 A. No, sir.

12 Q. But your doctor might tell if you have this  
13 test, which most American males do after a certain  
14 year, I think you have got prostate cancer, but what  
15 do they have to do before they tell you they are  
16 sure?

17 A. They have to biopsy the prostate, stick a  
18 needle in it. It's uncomfortable, it's not  
19 pleasant, you are on your head, et cetera.

20 Q. The false positive results can lead to  
21 expensive diagnostic evaluations an unwarranted  
22 patient anxiety.

23 That means the patient is scared?

24 A. Yeah.



1 Q. At the other extreme, the high sensitivity  
2 of the test can result in overdiagnosis, the chance  
3 that small, indolent tumors which might require no  
4 treatment and which may never have surfaced  
5 clinically, would be gathered in the same net as an  
6 aggressive, potentially life-threatening cancer.

7 Now, how does this explanation equate to what  
8 you have been telling these folks about the early  
9 diagnosis of lung cancer?

10 A. Well, I think the thing that I wanted to  
11 stress is that there is no such thing as an  
12 indolent, quiescent lung cancer. One of the  
13 statements he made, which is very well contradicted  
14 in the literature is, people with lung cancer found  
15 in an early stage, two studies indicate that, within  
16 a few years, 95 percent are dead if they have not  
17 had surgical removal.

18 A study of the failed screening of -- that we  
19 have talked about in the United States, and the  
20 successful screening they have in Japan, people who  
21 don't want to have surgery with Stage 1, early lung  
22 cancer, die.

23 Okay. Now, we don't have that in prostate  
24 cancer. This is -- presents some sort of dilemma to

1 the urologist, who will get an elevated CBC and a  
2 positive diagnosis.

3 They have to go through the -- actually it's a  
4 wrenching decision as to whether to go aggressive  
5 treatment with someone with prostate cancer.

6 Q. But they go on to say:

7 Despite all that, the impact of the PSA  
8 and related testing on mortality was not  
9 immediately apparent from the early studies.

10 So they were doing that without knowing whether  
11 it would reduce mortality early on, weren't they?

12 A. Well, it was a good screening test.

13 Q. No randomized controlled trials of  
14 PSA-based prostate cancer screening had been  
15 performed before it became a widespread practice.

16 Is that a true statement?

17 A. Yes, sir. And it's recommended by that  
18 organization.

19 Q. And are these randomized controlled trials  
20 the same thing Mr. Newbold was reading you quotes  
21 from people saying that's what we ought to do before  
22 we recommend this for folks?

23 A. Yes.

24 Q. The observed increase in detection and the

1 stage shift at diagnosis -- is that stage shift, is  
2 that what you have been telling us about all along?

3 A. That's the other thing Dr. Patz is real off  
4 the base in saying, if you find lung cancer early,  
5 maybe if you leave it alone, nothing will happen,  
6 and the patient will die 50 years later of a car  
7 accident.

8 Well, there is good evidence that, again, that  
9 just isn't so. People with lung cancer at any stage  
10 die within a few years --

11 Q. And let's look at --

12 A -- or a few months.

13 Q. What they reported in the very article  
14 Mr. Newbold showed you this morning.

15 The observed increase in detection and  
16 the stage shift at diagnosis, without eventual  
17 impact on mortality, would be evidence that  
18 prostate cancer screening was actually  
19 ineffective.

20 However, evidence is now accruing that  
21 mortality has, in fact, been reduced. Between  
22 1990 and 1995, the prostate cancer death rate  
23 in the United States for white men younger than  
24 75 years of age fell more than 14 percent.

1           This may be coincidental to the preceding  
2       increase in PSA use, but there are few other  
3       changes in treatment or diagnosis that would  
4       account for the decline in the death rates.

5       So what they are saying there, Doctor, is that,  
6   although you might have thought it was going to be  
7   ineffective, the preliminary data between '90 and  
8   '95 because they do the test would indicate that it  
9   may reduce mortality?

10      A.   Yes, sir.

11      Q.   Now, they also in here mentioned that these  
12   folks, based upon this Italian meeting --

13      A.   I wish you would stop calling it an Italian  
14   meeting.   World meeting, because Americans were  
15   there in full number.

16      Q.   It was held in Italy.   That's what I should  
17   say.

18      A.   I know.

19      Q.   This is the quote he read you this morning  
20   where they are talking about they are not going to,  
21   as they leave the conference in Verase, Italy, the  
22   international conference on the prevention and early  
23   diagnosis of lung cancer, they are not going to  
24   recommend one way or another whether or not to do

1 the screening.  
2 Do you recall him showing you that quote?  
3 A. Yes, sir.  
4 Q. Okay. Well, I had Mr. Gruenloh pull the  
5 actual consensus statement from that meeting.  
6 That's the actual consensus statement from the  
7 International Conference on the Prevention and Early  
8 Diagnosis of Lung Cancer. Am I right about that?  
9 A. Yes, sir.  
10 Q. And let's look at, if we can --  
11 MR. NEWBOLD: Could I have a copy of that,  
12 please, sir?  
13 MR. SEGAL: This is the only one I have, I'm  
14 sorry. But I can show you what I'm going to read  
15 before I read it.  
16 MR. NEWBOLD: Thank you.  
17 BY MR. SEGAL:  
18 Q. And you have read this paper before,  
19 Doctor, right? This is something you relied upon?  
20 A. Yes, sir.  
21 Q. For those who develop lung cancer, outcome  
22 is dramatically better when the disease is detected  
23 at an early stage and surgically treated.  
24 You agree?

1 A. Yes.

2 Q. Unfortunately, at this time, the majority  
3 of lung cancers are diagnosed when the disease is  
4 overtly symptomatic, and in an advanced stage when  
5 prognosis is extremely poor.

6 That means you are probably going to die?

7 A. Yes.

8 Q. Available clinical data demonstrate that  
9 the vast majority of curable lung cancers are  
10 currently detected by chest x-rays and CT scan,  
11 although there is no proven strategy to assure early  
12 detection.

13 That's what they were saying when they left the  
14 international conference?

15 A. Yes, sir.

16 Q. The conference encourages national  
17 governments and public health organizations involved  
18 in cancer prevention and control to more  
19 aggressively address tobacco control and to urgently  
20 consider the issues surrounding the early detection  
21 of lung cancer. The conference recognizes that  
22 current and former smokers must be advised of their  
23 continuing risk of lung cancer.

24 That's people who smoke and people who used to

1 smoke have to be advised of their continuing risk of  
2 lung cancer; right?

3 A. Yes, sir.

4 Q. In order to address these issues,  
5 organizations must support research on new  
6 diagnostic techniques?

7 Let me ask you something. In your review of  
8 all this literature -- let me ask you something  
9 else.

10 Were you aware that the tobacco companies who  
11 are here in the courtroom took an ad out in the 50s  
12 that said they put the health of their consumers  
13 paramount to every other --

14 MR. NEWBOLD: Objection. This is totally  
15 outside the scope.

16 THE COURT: I'm sorry?

17 MR. NEWBOLD: Outside the scope.

18 THE COURT: All right.

19 MR. NEWBOLD: He's not been offered for this  
20 purpose either, Your Honor. He's beyond --

21 MR. SEGAL: Can I --

22 THE COURT: All right. The objection will be  
23 sustained.

24 BY MR. SEGAL:

1 Q. Doctor, let me ask you this, in all those  
2 articles that you have gone over with the jury that  
3 you read in preparation, they talk about who  
4 supports that research, don't they?

5 A. Sometimes.

6 Q. And in fact, I think one of the articles  
7 you were shown today was supported by the Eastman  
8 Kodak Company, wasn't it?

9 A. I don't remember.

10 Q. All right. Have you seen any of this  
11 research on the new diagnostic techniques being  
12 funded by Lorillard, RJR, Philip Morris, Brown &  
13 Williamson? Have you seen any research being funded  
14 by those people in these areas of the new techniques?

15 A. I'm just going to say I don't know because  
16 I don't look into who sponsored it with that much  
17 interest.

18 Q. Finally, one last thing about this, where  
19 they are talking about that we need -- they  
20 recognize that current and former smokers must be  
21 advised of their continuing risk of lung cancer; in  
22 that regard, let me ask this.

23 This paper and what they were recommending back  
24 then, that was before Henschke published her very



1 first article, much less her follow-up articles,  
2 wasn't it?

3 A. I don't -- if you show me the date, and I  
4 have forgotten whether it was --

5 Q. Sure. I believe it was December 9th, 1998,  
6 conference?

7 A. Oh, yes. That was before.

8 Q. I will show it to you.

9 A. She published in Lancet in -- I trust you.

10 Q. So they were making this recommendation  
11 well before?

12 A. Yes.

13 Q. Okay. Last area.

14 We have talked a lot about what it will early  
15 detect, what spirometry will early detect. You were  
16 finally asked some questions about quitting. Will  
17 quitting, if you quit right now, will it eliminate  
18 your risk of developing a lung cancer?

19 A. No.

20 Q. Will it stop COPD if you have already  
21 developed COPD or emphysema?

22 A. It won't stop it, no, sir. It will slow it  
23 down, but it won't stop it.

24 Q. It will slow it down.

1 Will quitting early detect the presence of a  
2 lung cancer?

3 A. No.

4 Q. Will quitting early detect the presence of  
5 COPD?

6 A. No.

7 Q. Will quitting early detect the presence of  
8 emphysema?

9 A. No.

10 Q. And in each of those three conditions, is  
11 one of the problems you face as a clinician that, by  
12 the time people get to your office with symptoms,  
13 it's normally too late?

14 A. Well, basically for COPD and lung cancer,  
15 that's very much the problem, yes, sir.

16 MR. SEGAL: If you will give me two seconds,  
17 Doctor.

18 Thank you, Dr. Gaziano. Thank you, Your Honor.

19 THE COURT: Recross-examination?

20 MR. NEWBOLD: Yes, Your Honor.

21 -- -- --

22 RECROSS EXAMINATION

23 BY MR. NEWBOLD:

24 Q. Quitting smoking, we are going to talk

1 about quitting smoking a little bit.  
2 A. Okay.  
3 Q. If you have emphysema, there is no cure for  
4 emphysema; right? There is no cure?  
5 A. Yes, sir, that's correct.  
6 Q. But if you -- and emphysema sort of  
7 progresses, it gets worse; the more you smoke, the  
8 more emphysema gets worse or your problems breathing  
9 get worse; is that right?  
10 A. Yes, sir.  
11 Q. But if you quit smoking, then it doesn't  
12 get worse any more, does it?  
13 A. It gets worse only as a factor --  
14 Q. Right.  
15 A. It gets worse only as an aging factor of  
16 age, but not due to cigarettes.  
17 Q. Everybody has problems with aging with  
18 their lung capacity, right, sir?  
19 A. Yes, sir.  
20 Q. We are all in that same downhill slope as  
21 far as our lung capacity and whether we smoke or not?  
22 A. Yes, sir.  
23 Q. So what you are saying is, if you smoke,  
24 the ski slope is steeper. If you quit smoking, it

1 will then level out and won't progress any further  
2 other than what it would have progressed simply by  
3 getting older?

4 A. That's correct, yes, sir.

5 Q. Okay. We covered this a lot, but I just  
6 want to make sure that we all understand it. When  
7 you say -- you know what I'm going to ask you.

8 A. I think I do.

9 Q. You do.

10 A. Uh-huh.

11 Q. When you tell Mr. Segal and this jury that  
12 a CAT -- a CT scan can detect lung cancer only,  
13 that's not what you mean, because a CT scan alone  
14 does not detect or diagnose lung cancer; correct?

15 A. That's correct.

16 Q. Okay. You have to do all these follow-up  
17 procedures that are not included in this plan; right?

18 A. Well, you know, as I have said before, I'm  
19 not sure of the absolute specifics of the plan, what  
20 it include and what it doesn't include, so I'm not  
21 going to get into it.

22 I'm not going to get into it. All I'm saying  
23 is, that test requires follow-up. And what plan is  
24 involved with it, I'm not here to say, and I don't

1 know.

2 Q. But this CAT scan alone at age 50 does not  
3 detect or diagnose lung cancer; correct?

4 A. Specifically, no.

5 Q. Okay. You talked about prostate screening  
6 methods?

7 A. Yes, sir.

8 Q. Which are now recommended by these various  
9 public health organizations; correct?

10 A. Yes, sir.

11 Q. But CT scans are not recommended by these  
12 organizations for the early detection of cancer, are  
13 they, sir?

14 A. No, sir. I think it's a bit early, but  
15 they are not.

16 Q. Thank you.

17 Now, sir, I want to talk about -- could I have  
18 Tab 32 up, please.

19 Now, in Tab No. 32, you talked about the fact  
20 that they had some footnotes that were fairly old in  
21 that article.

22 Go to the second -- yeah, on the second  
23 paragraph that's highlighted? Okay. Go to the  
24 next -- do you see those footnotes three to ten

1 which the plaintiffs talked about and was critical  
2 because they were old footnotes, because it talked  
3 about some old tests.

4 But that was really just a setup, was it not,  
5 Doctor, to talk about the new technology, which is  
6 on Page 1982?

7 MR. NEWBOLD: Jason, right here.

8 BY MR. NEWBOLD:

9 Q. Talking about the new developments. So the  
10 Frame article was not stuck in the past. He was  
11 talking about the new low dose helical CT scans and  
12 specifically about the Henschke study; correct?

13 A. Yes, sir.

14 Q. All right. And then -- I always hated  
15 footnotes when I was in college, but now we are back  
16 into footnotes. Let's go to the some of footnotes  
17 in the back of the article. Let's go down to like  
18 19.

19 Okay. That's the footnote where he's actual  
20 footnoting, not ancient history, but he's actually  
21 footnoting the Henschke study, itself, 1999.

22 Go down to the next one, Jason.

23 Then we have got a footnote, 1998, which is the  
24 Japanese study.

1       Okay. Thank you.

2       So you would agree Dr. Frame was also  
3       footnoting and quoting more recent sources?

4       A. Yes, sir.

5       Q. Okay. Now, you were shown -- and I don't  
6       have this on my tab. This is the early lung cancer  
7       axons project, summary of findings on baseline  
8       screening, which was a Claudia Henschke article.

9       And I think the indication was is that it  
10      contradicted her consensus statement that screening  
11      was not recommended. So I want to show you  
12      something about these two.

13      First, I want to show you Tab No. 60. Let's do  
14      it this way.

15      MR. NEWBOLD: Tab No. 60, Jason? Okay. Blow  
16      that up, please, in the middle.

17      BY MR. NEWBOLD:

18      Q. Okay. This is the article that I showed  
19      you where Claudia Henschke says that:

20             Unlike the next three most common  
21             cancers, screening for lung cancer is not  
22             currently recommended by cancer organizations.

23             And then she goes on to say they should  
24             continue to look at the value.

1 MR. NEWBOLD: Please go down, Jason, to the  
2 bottom of this so I can show the jury the date -- to  
3 the top, I'm sorry. Right at the top.  
4 That's 2001. So she said it is not recommended  
5 in 2001. Is that correct, sir?  
6 A. Yes, sir.  
7 Q. All right. Now --  
8 A. According to that statement, yes, sir.  
9 Q. Now, take that off.  
10 Let's go to the ELMO, please. I avoid the ELMO  
11 at all cost.  
12 THE COURT: I see why.  
13 MR. NEWBOLD: I could never figure these things  
14 out to save me. Which way do I go to make it go  
15 up? I want to put this on it right here, down  
16 here.  
17 All right.  
18 BY MR. NEWBOLD:  
19 Q. This article -- thank you, Scott.  
20 This article was actually received in 2000. So  
21 she actually wrote that which Mr. Segal showed you  
22 in 2000, and then it was published in 2001; is that  
23 correct, sir, received October 10, 2000?  
24 A. I see it there. Oh, yes, it's 2001, yes.



1 The oncologist.

2 Q. But she wrote it and she submitted it in  
3 2000; is that correct, sir?

4 A. Yes, sir.

5 Q. So therefore she wrote and submitted this  
6 Article one year before she published her consensus  
7 statement where she did not recommend helical CTs  
8 for mass screening; isn't that correct, sir?

9 A. I believe that's correct, although I don't  
10 have the specific dates of the other article.

11 Q. Now, I want to turn to -- look at that, I  
12 did it -- her conclusion, Claudia Henschke's  
13 conclusion in that article, was that:

14 The accruing evidence from the ELCAP and  
15 others, while still insufficient, is continuing  
16 to heighten the prospects for cost-effective  
17 screening for the cancer that is now the main  
18 cause of cancer deaths in both genders.

19 So Claudia Henschke herself, once again, is  
20 saying that the evidence as to whether or not this  
21 should be recommended for everybody is still  
22 insufficient; isn't that correct, sir?

23 A. That's what she says, yes, sir.

24 Q. Thank you.

1 MR. NEWBOLD: I have no further questions of  
2 this witness, Your Honor.

3 THE COURT: All right. May this witness now be  
4 excused, not subject to recall?

5 MR. SEGAL: I would so move, Your Honor.

6 MR. NEWBOLD: Yes, Your Honor.

7 THE COURT: Thank you very much, Doctor.

8 THE WITNESS: I appreciate it.

9 THE COURT: You may be excused, sir.

10 (Witness excused )

11 THE COURT: All right. Call your next witness  
12 or whatever you are going to do next.

13 MR. SEGAL: Your Honor, at this time I would  
14 like to move the admission -- Your Honor, at this  
15 time, I would like to move the admission of what  
16 Mr. Baker assures me is the correct list, being  
17 Plaintiffs' NM 6746, Plaintiffs' Exhibit 16756,  
18 Plaintiffs' Exhibit 1518, Plaintiffs' Exhibit 12762,  
19 Plaintiffs' Exhibit 1521, Plaintiffs' Exhibit 11026,  
20 Plaintiffs' Exhibit 11015, Plaintiffs' Exhibit  
21 22948, Plaintiffs' Exhibit 11389, and Plaintiffs'  
22 Exhibit 75204.009. I move those into evidence at  
23 this time, Your Honor, and be requested that I be  
24 allowed to publish them to the jury.

1 THE COURT: Any objection?  
2 MR. NEWBOLD: No objection, Your Honor.  
3 THE COURT: All right. Plaintiff's Exhibits --  
4 are they all NM numbers.  
5 MR. SEGAL: Yes, Your Honor.  
6 THE COURT: NM 6746, 16756, 1518, 12762, 1521,  
7 11026, 11015, 22948, 11389, and 75204.009 all will  
8 be admitted in evidence and made a part of the  
9 record in this proceeding, may be published to the  
10 jury at the convenience of counsel  
11 (The exhibit is so admitted.)  
12 MR. SEGAL: Your Honor, may I approach?  
13 THE COURT: Yes.  
14 MR. SEGAL: This is the November 26th, this is  
15 the November 26th, 1973, press release by the  
16 American Tobacco Company. And we can see this is a  
17 press release,  
18 It is the American Tobacco Company in New  
19 York. It's dated November 26, 1953, and it says:  
20 Paul M. Hahn, president of the American Tobacco  
21 Company, took issue today with what he called loose  
22 talk on the subject of smoking in relation to lung  
23 cancer.  
24 The public is entitled to know the facts.

1           We are confident that long range,  
2   impartial investigation and other objective  
3   research will confirm the view that neither  
4   tobacco nor its products contribute to the  
5   incidence of lung cancer. We wish to the  
6   public to know these facts so that they  
7   themselves may be informed and also be in a  
8   position to deal intelligently with the subject  
9   when misinformation comes to their attention.

10   THE COURT: Is there a counterdesignation?

11   MR. WOODSIDE: There is, Your Honor.

12   THE COURT: All right.

13   MR. WOODSIDE: Thank you.

14           The American Tobacco Company is working  
15   at and supporting scientific research of a  
16   fundamental nature in this field, within its  
17   own laboratory and in independent institutions.  
18   That completes our counterdesignation.

19   THE COURT: All right.

20   MR. SEGAL: Would you publish to the jury,  
21   please, Ms. Gina, 16756.

22           This is an undated statement by the CTR and TI,  
23   and I would like you to go ahead and put this up  
24   first. You can see this is from the Tobacco

1 Industry Research Committee and the Tobacco  
2 Institute, Incorporated. It's a statement about  
3 tobacco and health.

4 We shall continue all possible efforts to  
5 bring the facts to light. In that spirit, we  
6 are cooperating with the Public Health Service  
7 in its plan to have a special study group  
8 review all presently available research.

9 MR. NEWBOLD: No counter, Your Honor.

10 MR. SEGAL: Would you show them 1518. Your  
11 Honor, may I approach?

12 THE COURT: All right.

13 MR. SEGAL: Judge, this is a 18962 press  
14 release by George Allen, who is the president of the  
15 Tobacco Institute. It was issued by Hill &  
16 Knowlton. You can see this is for the Tobacco  
17 Institute incorporated, it's from Hill & Knowlton,  
18 Incorporated. It's for immediate release on March  
19 7th, 1962. And it says George Allen comments on  
20 British smoking report.

21 In this search, I am proud that the  
22 tobacco industry supports continued independent  
23 research, aimed at getting the full facts about  
24 cancer and other diseases. This will be done

1 in the laboratories and not by pronouncements  
2 by me or anyone else.

3 MR. THOMAS: No counter, Your Honor.

4 THE COURT: All right.

5 MR. SEGAL: I would like to approach on 12762.

6 THE COURT: All right.

7 MR. SEGAL: Your Honor, this is the November  
8 18th, 1962, radio broadcast transcript by George  
9 Allen, president of the Tobacco Institute. You can  
10 see here, ladies and gentlemen, radio broadcast  
11 transcript, the program was the smoking question  
12 part (II). It was November 18, 1962, at 8:05 p.m.,  
13 the station was the Mutual Broadcasting System in  
14 Washington, D.C, and it was regarding cigarette  
15 smoking and lung cancer.

16 The Smoking Question.

17 Mr. Allen: I'd be glad to, Mr. Trohan. The  
18 Tobacco Institute is an association of the tobacco  
19 manufacturers which regard the smoking and health  
20 question as a very serious one and one which  
21 deserves very earnest and energetic, scientific  
22 investigation and experimentation.

23 MR. SEGAL: I think that's it for us; right?

24 THE COURT: Is there some counterdesignations?

1 MR. WOODSIDE: Yes, Your Honor.

2 It follows Mr. Segal's designation by

3 Mr. Allen:

4 We support that activity through a sister  
5 organization, the Tobacco Research Committee,  
6 which has done more investigation in the eight  
7 years since it was established than any other  
8 private scientific organization or medical  
9 organization in the specific subject of lung  
10 cancer.

11 Question: How much money has this  
12 committee spent?

13 Response by Mr. Allen: During its eight  
14 years, it has made well over one hundred  
15 individual grants to independent scientists,  
16 laboratories, technicians and various kinds of  
17 experimenters. And the total of these grants  
18 is well over five million dollars at the  
19 present moment.

20 Mr. Trohan: In other words, the tobacco  
21 industry supplies an awful lot of tax money to  
22 us. Should this be considered or should this  
23 be strictly a health survey?

24 Mr. Allen: I think it ought to be

1 strictly a health survey myself. Now, I'm  
2 speaking personally. However, I happen to come  
3 from a tobacco area. I'm a very small scale a  
4 tobacco farmer myself.

5 There are, all together, we estimate,  
6 about 17 million people in the United States  
7 who, in one way or another, obtain their  
8 livelihood either directly or indirectly from  
9 tobacco, either the growing, the handling of  
10 the leaf, the warehouses, the manufacturers,  
11 the wholesalers and retail distributors.

12 Incidentally, there are reckoned to be  
13 1,500,000 individual retail outlets of one sort  
14 or another, so a lot of people are involved,  
15 not to speak of the fact that, so far as the  
16 revenue to the United States government is  
17 concerned, tobacco, I believe, is second in the  
18 amount of excise taxes.

19 MR. WOODSIDE: Your Honor, that would complete  
20 my designations.

21 THE COURT: All right.

22 MR. SEGAL: Your Honor, I would like to publish  
23 and approach to 1521.

24 THE COURT: All right.



1 MR. SEGAL: This is a short one, Your Honor.  
2 This is a 1962 press release by the Tobacco  
3 Institute. It's a statement by George Allen, the  
4 president.

5 Here we have it, for the Tobacco Institute from  
6 Washington, D.C., this is for p.m. release Thursday,  
7 December 27, 1962, CR in the year-end editions.  
8 It's the tobacco economy, 1962 review and outlook.  
9 It's by George V. Allen, president of the Tobacco  
10 Institute.

11 And there is just one sentence in here -- oh,  
12 yeah. It was issued by Hill & Knowlton, once again,  
13 that's hard to read, but what that banner says is,  
14 Hill & Knowlton, Inc., 150 east 42nd Street, New  
15 York, New York, and if you could go to the quote,  
16 please, from Mr. Allen.

17 During 1963, the Surgeon General's  
18 Advisory Committee on Smoking and Health will  
19 review existing knowledge about smoking and  
20 health.

21 Our industry is cooperating with this  
22 group in the hope that it will be a thorough  
23 study and, as the Surgeon General has said,  
24 will be concerned not only with tobacco but all

1 other factors which may be involved.

2 The American Medical Association has also  
3 announced plans to conduct a review and the  
4 industry will extend cooperation to this group  
5 as well.

6 Is that it on that one?

7 Your Honor, at this time -- is there a  
8 counter on that one?

9 MR. THOMAS: Yes, there is. Your Honor, I have  
10 not been introduced to the jury. May I introduce  
11 myself?

12 THE COURT: Yes.

13 MR. THOMAS: Good morning, I'm Dave Thomas, I'm  
14 from Allen Guthrie & McHugh in Charleston, West  
15 Virginia, and I represent one of the defendants in  
16 the case.

17 Counterdesignation for the same document you  
18 just heard from:

19 We can predict that tobacco will continue  
20 to provide a livelihood for millions; for  
21 growers, warehousemen, transporters, retailers,  
22 wholesalers, manufacturers and the thousands of  
23 suppliers who provide the goods and services  
24 that are necessary for any major industry.

1 Thank you.

2 MR. SEGAL: Your Honor, at this time I would  
3 like to approach on 11026 and publish that, please.

4 THE COURT: All right.

5 MR. SEGAL: Ladies and gentlemen, this is a  
6 1963 speech, which is stapled to my finger -- this  
7 is a 1963 speech by George Allen, the president of  
8 the the Tobacco Institute.

9 There you can see the Tobacco Institute's  
10 border heading. And this is Tobacco and the Public  
11 Interest by George V. Allen, President of the  
12 Tobacco Institute, Incorporated.

13 And if we could go, please, to the top of  
14 that:

15 George V. Allen, President, the Tobacco  
16 Institute, delivered the following address  
17 before the September, 1963 meeting of the  
18 National Association of State Departments of  
19 Agriculture.

20 We are vitally interested in getting the  
21 scientific facts that will provide answers to  
22 questions about smoking and health. We also  
23 want full knowledge about the cause or causes of  
24 those diseases with which smoking has been

1 statistically associated.

2 MR. THOMAS: Counterdesignations, Your Honor?

3 THE COURT: All right.

4 MR. THOMAS: Those of us who work with tobacco  
5 share with the millions who use tobacco products a  
6 concern over questions raised about cigarettes and  
7 health.

8 First, as human beings, we are interested in  
9 the health of our fellow man.

10 Second, we have a natural interest in the  
11 future welfare of our industry, and of the  
12 industry's customers.

13 In view of this, it seems to me there ought to  
14 be a respite from theories, resolutions and  
15 emotional statements, for a time at least, so that  
16 scientists can objectively evaluate what is known  
17 and what is not known.

18 Perhaps then the scientists can determine the  
19 areas of research that must be undertaken and work  
20 together to solve these health problems.

21 We do know that, in laboratories around the  
22 world, scientists are investigating many possible  
23 factors in lung cancer and heart disease, in  
24 addition to smoking.

1       These include viruses, previous lung  
2 infections, diet, stress and strain, environmental  
3 and occupational pollutants and many others.

4       (4) inhalation of tobacco smoke by laboratory  
5 animals some many experiments over the years has  
6 consistently failed to produce lung cancer.

7       (6) extensive chemical tests have failed to  
8 specify any substance, as found in cigarette smoke,  
9 that accounts for lung cancer.

10       I believe that's all, Your Honor.

11       MR. SEGAL: Your Honor, I would like to  
12 approach on 11015 and publish that.

13       THE COURT: All right.

14       MR. SEGAL: Ladies and gentlemen, this is a  
15 speech by Joseph Cullman, who is the president of  
16 Philip Morris. These are the remarks of Joseph F.  
17 Cullman, 3rd, who was president of Philip Morris,  
18 Inc. These were remarks made to the South Carolina  
19 Tobacco Warehouse Association in Myrtle Beach, South  
20 Carolina, on June the 7th, 1966. Those remarks  
21 included:

22               First of all, we feel a deep sense of  
23 responsibility to our cigarette smokers.

24               All of us who work in this industry feel

1 a deep concern over questions raised about  
2 cigarettes and health. We will not rest until  
3 we learn the scientific facts that will provide  
4 solutions to the medical problems in question.

5 We intend to leave no research question  
6 unanswered in our quest for the truth.

7 What have we done to help find the  
8 truth? This industry has allocated nearly  
9 twenty million dollars for the support of  
10 research projects by independent scientists,  
11 through the Council for Tobacco Research U.S.A.  
12 and through the American Medical Association  
13 Education and Research Foundation. If more  
14 funds are needed for this research, I am sure  
15 the industry will provide them.

16 I believe it is in the best interests of  
17 the public, as well as the industry itself, to  
18 encourage the kind of research that will  
19 provide the facts, all the facts. And that is  
20 exactly what we will continue to do.

21 MR. KLEIN: No counters, Your Honor.

22 THE COURT: All right.

23 MR. SEGAL: Your Honor, I would like to  
24 approach on 22948.

1 THE COURT: All right.

2 MR. SEGAL: This is a press release by the  
3 Tobacco Institute. Here we have the Tobacco  
4 Institute, once again, Washington, D.C. Contact,  
5 William Kloepper, Jr., and this is for use on and  
6 after Sunday, January 3, 1971.

7 Kornegay said Tobacco companies in 1971  
8 will pool more than four million dollars for  
9 support of independent scientific research on  
10 smoking and health questions, adding, quote, so  
11 long as hundreds of thousands of nonsmokers are  
12 crippled or die prematurely from cancer and  
13 respiratory ailments, there is no excuse for  
14 continued failure of the voluntary health  
15 associations to apply every available dollar to  
16 the search for the keys to these scourges.

17 Kornegay clarified that every  
18 statistical path linking smoking to some form  
19 of ill health leads directly to a locked door.  
20 In 1971, we have a great opportunity for new  
21 efforts to find the keys.

22 Any organization in a position to apply  
23 resources in the search for those keys and  
24 which fails to do so will continue to be guilty

1 of cruel neglect of those whom it pretends to  
2 serve.

3 MR. THOMAS: One counter, Your Honor. A 1971  
4 document.

5 The public has total awareness that  
6 smoking may be a health hazard, he says, but  
7 they demand facts, not surmise.

8 Thank you, Your Honor.

9 THE COURT: All right.

10 MR. SEGAL: Your Honor, I would like to  
11 approach on 11389.

12 THE COURT: All right.

13 MR. SEGAL: Ladies and gentlemen, this is the  
14 November 19, 1973 speech by James Bowling, who was  
15 the vice president of Philip Morris. This is James  
16 C. Bowling, and here it is.

17 The tobacco industry has long felt a deep  
18 moral commitment in helping to find the answers  
19 to the questions that have been raised about  
20 our products.

21 Twenty years ago, in 1953, the major  
22 American cigarette companies formally  
23 acknowledged a commitment to research by  
24 establishing the Council for Tobacco Research



1 U.S.A.

2 The council is financed as a joint effort  
3 by the major tobacco companies. Its  
4 responsibility is to act as the primary  
5 mechanism through which the companies pool  
6 their research grant funds.

7 MR. KLEIN: One brief counter, Your Honor.

8 THE COURT: All right.

9 MR. KLEIN: Since its founding, the council has  
10 provided more than fifty million dollars to a wide  
11 variety of distinguished scientific institutions for  
12 independent research.

13 The industry also provided funds to Washington  
14 University in St. Louis and the Harvard Medical  
15 School for extensive and basic research programs.

16 Thank you.

17 MR. SEGAL: Your Honor, finally I would like to  
18 approach and publish on 75204.09. This document  
19 relates -- it's the 1954 Lorillard's annual report.  
20 We can see there it says, the P. Lorillard Company,  
21 annual report, 1954. And in that report is the  
22 following statement:

23 Cigarette Smoking and Lung Cancer.

24 The industry continued to be harassed in

1 1954 by repeated attempts of some researchers  
2 to associate cigarette smoking with lung  
3 cancer.

4 Corporate statesmanship dictates the  
5 course we must follow in this matter. While  
6 confident that Lorillard products are not  
7 injurious to human health, we are actively  
8 engaged in seeking scientifically to determine  
9 the truth in our own laboratories and with the  
10 industry through the Tobacco Industry Research  
11 Committee.

12 MR. NEWBOLD: One counter, Your Honor.

13 THE COURT: All right.

14 MR. NEWBOLD: However, many distinguished men  
15 of medicine and recognized authorities in the health  
16 field stepped forward in 1954 to challenge the  
17 evidence.

18 One eminent cancer authority is quoted in  
19 in an Associated Press dispatch as calling his  
20 medical colleagues who started this controversy  
21 fanatics on the subject of nonsmoking.

22 Leonard Engel, in an article entitled Do  
23 We Have To Give Up Smoking in the December  
24 Harper's Magazine, to cite only one of many

1 articles by leading medical writers in 1954  
2 took a penetrating look at the evidence today  
3 and then went on to explain why he is not  
4 giving up cigarettes.  
5 THE COURT: All right.  
6 MR. SEGAL: Your Honor, at this time I would  
7 like to present to the ladies and gentlemen the  
8 prior testimony of Dr. James F. Glenn. It was given  
9 on May 26th, 1994. At the time of his testimony,  
10 Dr. Glenn was chairman of the Council for Tobacco  
11 Research.  
12 THE COURT: All right. Do you have somebody --  
13 MR. EVANS: Your Honor, may I approach?  
14 THE COURT: You are going to be the reader, or  
15 the witness, I should say?  
16 MR. EVANS: Thank you, Your Honor.  
17 THE COURT: You are going to be using the  
18 overahead screen, Mr. Segal?  
19 MR. SEGAL: No, Your Honor. I don't think so.  
20 THE COURT: Let's turn the lights on.  
21 MR. SEGAL: Okay.  
22 -- -- --  
23  
24

1 JAMES F. GLENN,  
2 being first duly sworn in deposition, testifies and  
3 says as follows:

4 -- -- --

5 Q. Out of the 296 studies in your index,  
6 were where you funded about?

7 MR. THOMAS: Your Honor, I'm sorry, I'm not  
8 working from the same script.

9 THE COURT: All right. Do you and Mr. Thomas  
10 want to get together?

11 MR. THOMAS: That's not the designation I have,  
12 Your Honor. I'm sorry.

13 THE COURT: Well, let's see where we are.

14 THE COURT: Are you all right now?

15 MR. SEGAL: All right. Are you ready,  
16 Mr. Glenn?

17 Q. Out of the 296 studies in your index  
18 where you funded about 19.5 million in grants,  
19 as I see from the index, only ten or about ten  
20 of the projects have anything to do with  
21 tobacco. Do you dispute that?

22 A. No, sir.

23 THE COURT: Is Mr. Evans going to remain as  
24 the --

1 MR. THOMAS: Yes, one question -- two questions  
2 and two answers.

3 THE COURT: All right.

4 MR. THOMAS: Dropping down, Dr. Glenn.

5 Q. Dr. Glenn, has the Council for  
6 Tobacco Research conducted or financed research  
7 that has found that smoking cigarettes or using  
8 oral tobacco increases the likelihood of a  
9 person developing lung cancer?

10 A. I didn't hear your question, sir.

11 Q. Has the CTR conducted or financed  
12 research that has found that smoking cigarettes  
13 or using oral tobacco increases the likelihood  
14 of a person getting lung cancer?

15 A. Yes, sir.

16 MR. THOMAS: Thank you.

17 MR. SEGAL: Your Honor, the next testimony we  
18 are going to read is the prior testimony of  
19 Dr. Harmon McAllister McAllister taken October 20th,  
20 2000, in this case. And at the time of his  
21 deposition, Dr. McAllister was the vice president of  
22 the Council for Tobacco Research.

23 THE COURT: All right.

24 -- -- --

1 HARMON McALLISTER,  
2 being first duly sworn in deposition, testifies and  
3 says as follows:

4 -- -- --

5 Q. Could you please state your full name  
6 and spell your last name for the record.

7 A. Harlan McAllister, M-c  
8 A-l-l-i-s-t-e-r.

9 Q. And what is your current employment?

10 A. I am an employee of the Council for  
11 Tobacco Research here in New York.

12 Q. How many employees are currently part  
13 of CTR?

14 A. There are three.

15 Q. Who are they and what are their  
16 titles?

17 A. Dr. James Glenn is president, the  
18 CEO; Lauren Police is the secretary and  
19 treasurer.

20 Q. And yourself?

21 A. And myself, I'm the vice president.

22 Q. How many publications resulted from  
23 CTR-sponsored research?

24 A. Somewhere between six and seven

1 thousand, on the high end of that, that we know  
2 about. There are probably lots of others. We  
3 just don't know about them.

4 Q. How many of those publications were  
5 cited by the various Surgeon General reports on  
6 smoking and health?

7 A. Citations were around six hundred,  
8 but some were cited multiply, so the range of  
9 articles is probably in the range of three  
10 hundred or so.

11 Q. Three hundred articles were cited?

12 A. At least three hundred, yes.

13 Q. And approximately seven thousand  
14 articles were published as a result of CTR  
15 research; correct?

16 A. Yes. High sixes, yes.

17 Q. Over the course of CTR's existence,  
18 you indicated that the CTR spent three hundred  
19 million in total for grants and contracts?

20 A. Yes.

21 THE COURT: Is there a --

22 MR. THOMAS: No counterdesignations.

23 THE COURT: No counters, all right, fine.

24 Do you want the lights out now?

1 MR. SEGAL: No -- yeah -- well --

2 THE COURT: Okay.

3 MR. SEGAL: Your Honor, the next group of  
4 documents which I will read, we are going to have to  
5 break. I don't mind doing that. But I just want  
6 you to know I'm going to get started, but I'm not  
7 going to get finished.

8 THE COURT: We will go for fifteen minutes, and  
9 then we will pick it up again at 1:00. Is that all  
10 right?

11 MR. SEGAL: Okay. Your Honor, at this time I'm  
12 going to move the admission of -- and by the way,  
13 just for Nick and them, we have typed up the exact  
14 numbers so, when I'm done this morning...

15 Your Honor, we are going to move the admission  
16 of Plaintiff's Exhibits 6045, 76910.019, 10386,  
17 21388, Exhibit 10813, Exhibit 33829, Exhibit 11360,  
18 Exhibit 22881, Exhibit 13784, Exhibit 1396, Exhibit  
19 1195, Exhibit 435, Exhibit 9648, Exhibit 24978,  
20 Exhibit 1405, Exhibit 473, Exhibit 797, Exhibit  
21 19671, Exhibit 36983, Exhibit 40176, and Exhibit  
22 20759.

23 THE COURT: All right. Any objection?

24 MR. KLEIN: Nothing further, Your Honor.



1 THE COURT: All right.

2 MR. SEGAL: Your Honor, if --

3 THE COURT: I understand. Subject of course to  
4 the prior rulings, all those exhibits will be  
5 admitted into evidence and made a part of the record  
6 in this proceeding, and they may be published to the  
7 jury at the convenience of counsel

8 (The exhibits are so admitted.)

9 MR. SEGAL: May I approach? We can go with  
10 6045, if you would please put that up.

11 Ladies and gentlemen, this is authored by  
12 Mr. Gross, who is an executive of Hill & Knowlton,  
13 the tobacco industry's -- there it is. Here we are,  
14 Hill & Knowlton, this is 1933. Wait, I need to read  
15 it -- I didn't get to read it. It's 1953. 1953.  
16 Background material on the cigarette industry  
17 client.

18 The following information was given us by  
19 the presidents of the leading tobacco companies  
20 at the Hotel Plaza this morning.

21 The group was called together by Mr. Paul  
22 Hahn, president of the American Tobacco  
23 Company. The chief executive officers of all  
24 the leading companies, R. J. Reynolds, Philip

1 Morris, Benson & Hedges, U.S. tobacco company,  
2 Brown & Williamson, have agreed to go along  
3 with a public relations program on the health  
4 issue.

5 They feel that they should sponsor a  
6 public relations campaign which is positive in  
7 nature and is entirely, quote, pro cigarettes,  
8 closed quote.

9 They are confident they can supply us  
10 with comprehensive and authoritative scientific  
11 material which completely refutes the health  
12 charges.

13 They are also emphatic in saying that the  
14 entire activity is a long-term, continuing  
15 program, since they feel that the problem is  
16 one of promoting cigarettes and protecting them  
17 from these and other attacks that may be  
18 expected in the future.

19 Each of the company presidents attending  
20 emphasized the fact that they consider the  
21 program to be a long-term one.

22 And finally, present at the meeting: Were Paul  
23 Hahn, president of the American Tobacco Company;  
24 Joseph Cullman, Jr., chairman and president, Benson

1 & Hedges; O. Parker McComas, president,  
2 Philip Morris and Company, Ltd, Inc.; J. Whitney  
3 Peterson, president, U.S. Tobacco Company.

4 And I believe that's all.

5 THE COURT: Mr. Thomas?

6 MR. THOMAS: Thank you, Your Honor. We do have  
7 some counters.

8 The industry's position.

9 The industry is strongly convinced that  
10 there is no sound scientific basis for the  
11 charges that have been made.

12 They point out that the National Cancer  
13 Institute of the U.S. Public Health  
14 Administration, which is a government agency  
15 and supported by congressional appropriations,  
16 has officially refuted the tie-up between  
17 cigarette smoking and cancer.

18 Heading: "Responses to Questions."

19 The companies' answers to questions put  
20 them by John Hill and the undersigned provide  
21 valuable background. They are as follows:

22 Will the cigarette companies organize  
23 themselves into an association publicly  
24 announced, which will openly sponsor their

1 public relations activities?

2 The companies replied that they have no  
3 desire to set up a smoke screen or front type  
4 of organization.

5 Do they accept the principle that public  
6 health is paramount to all else, and would they  
7 issue a public statement spelling this out?

8 Everyone present wholeheartedly agreed to  
9 this principle and readily consented to  
10 widespread dissemination of a sound statement  
11 of principle.

12 That's a all, thank you, Your Honor.

13 MR. SEGAL: Your Honor, at this time I would  
14 like to approach on 76910.19, the Frank Statement,  
15 and I would like to publish certain portions of the  
16 Frank Statement. Here it is, the Frank Statement to  
17 Cigarette Smokers.

18 Many people have asked us what we are  
19 doing to meet the public's concern aroused by  
20 the recent reports. Here is the answer:

21 (1) we are pledging aid and assistance to  
22 the research effort into all phases of tobacco  
23 use and health. This joint financial aid will  
24 of course be in addition to what is already

1 being contributed by individual companies.

2 (2) for this purpose, we are establishing  
3 a joint industry group consisting initially of  
4 the undersigned. This group will be known as  
5 Tobacco Industry Research Committee.

6 (3) in charge of the research activities  
7 of the committee will be a scientist of  
8 unimpeachable integrity and national reputation.  
9 In addition, there will be an advisory board of  
10 scientists disinterested in the cigarette  
11 industry. A group of distinguished men from  
12 medicine, science and education will be invited  
13 to serve on this board. These scientists will  
14 advise the committee on its research  
15 activities.

16 Thank you.

17 MR. KLEIN: Nothing further, Your Honor.

18 THE COURT: All right.

19 MR. SEGAL: Next one I would like to approach  
20 is 10386.

21 THE COURT: All right.

22 MR. SEGAL: This is authored by H.R. Hammer,  
23 director of research and development at the American  
24 Tobacco Company. And it's a memo, and it says:

1           The search for a scientific director has  
2       been their responsibility from the beginning;  
3       whereas, I have participated in the activity  
4       for only a few weeks. However, I am in the  
5       unique position of being able to understand  
6       some of the difficulties which have confronted  
7       them.

8           It is difficult to describe the sense of  
9       great responsibility which one feels when  
10      approaching an interview of a prospective  
11      candidate.

12           We cannot help but wonder how the  
13      individual members of the technical committee  
14      would assess this man; what the fourteen  
15      members of the TIRC would think of him; what  
16      impression he would make upon the public; how  
17      he would meet the press; and above all, what  
18      effect, over a period of years, he will have  
19      upon the fortunes of the tobacco industry for,  
20      once the dye is cast, there is no retreat from  
21      the decision. It is for better or for worse.  
22      I might cite three examples.

23      Clayton Loosli, Lee Clark, Leon Jacobson.

24           We have, therefore, come to the

1 conclusion that we must be satisfied with  
2 someone with a reputation for integrity, of  
3 reasonable confidence, and, above all, one who  
4 is safe for the industry.

5 And you can see the initials HRH, which, as I  
6 indicated, Your Honor, it's agreed that's H.R.  
7 Hammer, who was the director of research and  
8 development, American Tobacco Company.

9 THE COURT: All right.

10 MS. MIDDELHOFF: No counters, Your Honor.

11 MR. SEGAL: Next I would like to approach on is  
12 21388.

13 THE COURT: All right.

14 MR. SEGAL: All right, here what we have is the  
15 author is D.G.I. Felton. The secondary author was  
16 Bentley, who is Imperial Tobacco Company Director of  
17 research, and another secondary author was Reid, who  
18 was a research scientist at Wills Australian Tobacco  
19 Company, a sister company to B&W.

20 This is a report on a visit to the United  
21 States and Canada, the visit was from the 17th of  
22 April through the 12th day of May, 1958, and it's by  
23 H. R. Bentley, D. G. I. Felton and W. W. Reid, who I  
24 just explained which companies they were from.

1       And the itinerary shows, there is the  
2 itinerary, that they met on the 28th with the TIRC,  
3 the Tobacco Institute Research Committee, New York,  
4 with Messrs. Hoyt, Thompson from Hill & Knowlton,  
5 then they met with the Industrial Technical  
6 Committee of the TIRC in Richmond on the 5th with  
7 Messrs. Hammer, Chairman Hoyt and Heckett.

8       And the 8th, the TIRC in New York with  
9 Dr. Little and Dr. Hockett and on the 10th the TIRC  
10 in New York with the Scientific Advisory Board of  
11 the TIRC.

12       Attitude of the U.S. Industry to  
13 Biological Testing.

14       Liggett & Meyers stayed out of TIRC  
15 originally because they doubted the sincerity  
16 of TIRC motives and believed that the  
17 organization was too unwieldy to work  
18 efficiently. They remain convinced that their  
19 misgivings were justified.

20       In their opinion, TIRC has done little if  
21 anything constructive, the constantly  
22 reiterated, quote, not proven statements in the  
23 face of mounting contrary evidence has  
24 thoroughly discredited TIRC, and the SAB of



1 TIRC is supporting almost without exception  
2 projects which are not related directly to  
3 smoking and lung cancer.

4 Liggetts felt that the problem was  
5 sufficiently serious to justify large scale  
6 investment by the company directly in  
7 experimental research on smoke and cancer,  
8 accepting privately that a strong case against  
9 tobacco had been made out and avoiding any  
10 public comment until their own research had  
11 provided something concrete to offer.

12 That concludes that.

13 MS. MIDDELHOFF: No counters, Your Honor.

14 THE COURT: All right.

15 MR. SEGAL: Your Honor, I would like to  
16 approach on 10831.

17 THE COURT: Let me just take a look at it.

18 It looks like it's short.

19 MR. SEGAL: Very short.

20 MR. SEGAL: On 10831, this is the author of  
21 this document is Geoff Todd, he's a senior scientist  
22 at the Tobacco Research Council in England, the  
23 secondary author was P. J. Rogers, who was a senior  
24 scientist at the Tobacco Research Council in

1 England.

2 It's a report on policy aspects of the smoking  
3 and health situation in the United States.

4 And the date on that document is October 1964.

5 Council for Tobacco Research:

6 As we know, CTR supports only fundamental  
7 research of little relevance to present day  
8 problems.

9 The Council for Tobacco Research, U.S.A:  
10 CTR continues as before to confine its research  
11 to the diseases with which smoking is  
12 statistically associated but not to support  
13 research into the product.

14 The Scientific Advisory Board of CTR  
15 continue to act and decide on applications for  
16 grants to carry out research on what appeared  
17 to us to be projects of no more than remote  
18 relevance to current problems.

19 Although L&M have now joined CTR, this  
20 was solely in order to present a united front,  
21 and L&M's scientific staff are as highly  
22 critical of CTR's research policy as ever.

23 MR. KLEIN: No counters, Your Honor.

24 THE COURT: All right. This would be a

1 convenient time to take the noon break. Please  
2 don't discuss the case among yourselves nor permit  
3 anybody to discuss it with you. We will see you  
4 back here at 1:00.

5 Mr. Newbold, here are some materials you gave  
6 me.

7 (Thereupon, a luncheon recess is taken at 12:00  
8 noon.)

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