

SUPERIOR COURT OF NEW JERSEY
LAW DIVISION: MIDDLESEX COUNTY
DOCKET NO. L-060148-87

JOHN PETERSON and SHIRLEY
MAE PETERSON,

Plaintiffs,

vs.

UNION CARBIDE CORPORATION,

Defendants.

DEPOSITION UPON
ORAL EXAMINATION OF:
HENRY VELEZ

TRANSCRIPT of the deposition notes of HENRY
VELEZ, witness called for oral examination in the
above-entitled action, said deposition being conducted
pursuant to the Rules Governing Civil Practice in the
Superior Court of New Jersey, by and before MAUREEN
RATTO, a Notary Public and Certified Shorthand Reporter
of the State of New Jersey, License No. XI01165, at the
offices of HENRY VELEZ, MD, 1903 Maple Avenue, Fair
Law, New Jersey, on October 24, 1989, commencing at
12:00 p.m.

ROBERT CIRILLO, INC.
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RNW 2446

1 A P P E A R A N C E S:

2 LEVINSON, AXELROD, WHEATON
3 & GRAYZEL, ESQS.4 BY: RAE T. HOROWITZ, ESQ.
5 Attorneys for the Plaintiff

6 PITNEY, HARDIN, KIPP & SZUCH, ESQS.

7 BY: MICHAEL K. TUZZIO, ESQ.
8 Attorneys for the Defendant
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1 H E N R Y V E L E Z, having been first
2 duly sworn according to law by the Officer,
3 testifies as follows:
4

5 DIRECT EXAMINATION BY MR. TUZZIO:
6

7 Q. Dr. Velez, my name is Michael Tuzzio
8 and I represent Union Carbide in this action instituted
9 by John Petersen and his wife. I'm here to take your
10 deposition and that's because we received a report from
11 the plaintiff's attorneys, a report drafted by you
12 dated August 15, 1989 and you've been named as
13 potential expert witness in this case. You've had your
14 deposition taken before, I assume?

15 A. I have.

16 Q. And very briefly, if you don't
17 understand a question that I ask please tell me and
18 I'll try and rephrase it in a way to help you
19 understand it.

20 You understand you're under oath and the court
21 reporter's purpose here and only thing I ask is that
22 you please keep your responses verbal and speak nice
23 and loud so that it makes it easier on her.

24 Let me start off, do you have your CV with
25 you?

1 A. No, I don't.

2 Q. Do you have a CV?

3 A. I may have one. The problem is we ran out of
4 paper and we're waiting for a shipment of -- I may have
5 one though.

6 Q. When you get an up-to-date CV could
7 you please send it to the Levinson office and I'll ask
8 that you send us a copy of that, please?

9 A. Sure.

10 Q. Not having the benefit of your CV
11 I'll have to ask you some questions about your
12 background. When did you go to undergrad?

13 A. I went to Brooklyn College in New York City.

14 Q. And what year you get out?

15 A. 1973.

16 Q. With what degree?

17 A. None. None.

18 Q. You attended Brooklyn College?

19 A. That's correct.

20 Q. And then you went to another college?

21 A. No. I went to medical school after that.

22 Q. Where did you go to medical school?

23 A. New York Medical College in Valhalla, New York.

24 Q. And what year did you graduate from
25 there?

1 A. 1976.

2 Q. What did you do after graduation?

3 A. I spent a year at the Brookdale Hospital in
4 Brooklyn, New York and I completed one year internship
5 in medicine, internal medicine, to be specific.

6 Q. That would have taken you up to 1977?

7 A. That's correct. If you'd like I'll give you
8 the whole.

9 Q. Run through the whole thing instead
10 of me asking individual questions. That would be
11 great.

12 A. I from there I went to, from 1977 until 1979 I
13 went to the Mount Sinai Hospital, environmental
14 sciences lab under direction of Dr. Selikoff where I
15 spent two years in occupational and environmental
16 diseases.

17 Thereafter, I did another year of internal
18 medicine at the Veterans Hospital at Kingsbridge,
19 affiliate of Mount Sinai and completed my second year
20 of internal medicine.

21 Thereafter, I went to University Hospital at
22 Stoneybrook where I completed -- from 1980 until 1982
23 where I completed two year fellowship in pulmonary
24 diseases.

25 In 1982 I came out to Paterson, New Jersey,

1 joined a practice which did not work out and then from
2 October until December of 1982 I did a little bit of
3 private practice. In December of '82 I took a salaried
4 position at the Barnert Hospital in Paterson. And was
5 their director of ambulatory services to include
6 emergency room, clinics and occupational health center.
7 In April 1st, 1985 I entered private practice,
8 originally at another location, 25-15 Fair Lawn Avenue,
9 in Fair Lawn. And then we came here in May of 1987, at
10 this present address, which is 1903 Maple Avenue.

11 I've been in private practice since then. I
12 became board certified in internal medicine in 1983 and
13 board certified in pulmonary in 1988.

14 Q. When you worked with Dr. Selikoff,
15 what were your responsibilities?

16 A. I was a resident or fellow, depending on
17 whatever you wanted to call me and I was responsible
18 for participating in research projects, examining
19 people, participating in an occupational health clinic
20 that we had, reviewing literature, et cetera, et
21 cetera. They were actual classes in epidemiology and
22 occupational medicine.

23 Q. Was there a specific focus or field
24 of the research Dr. Selikoff was doing at that time?

25 A. Well, he had his fingers into numerous things,

1 asbestos of course is what he is well known for.

2 Q. That is what I know him for and I
3 wanted to ask about your involvement with that and
4 whatever else he might have been doing at the time?

5 A. Right. Well, there were led studies going on
6 of burners. Those are people who use gas torches to
7 take apart steel structures and in this case it was the
8 the defunct Westside Highway and they suffered from led
9 toxicity. Policemen also had led exposure and couple
10 of others.

11 There were some projects with respect to
12 solvents and the big project with respect to
13 polychlorinated biphenols, which had accidentally entered
14 the food chain in Michigan.

15 Q. What was your involvement with that
16 particular project, your own?

17 A. I was involved in the planning and execution of
18 the project.

19 Q. What would that mean, planning the
20 projects or --

21 A. We would have meetings and we would discuss,
22 you know, how to approach a project of this type.

23 Q. How was that particular project
24 approached?

25 A. Well, it required travel to Michigan. It

1 required sampling, so we had to come up with a sampling
2 method by which to randomly pick participants and then
3 notify these participants and then deal with the fact
4 that some would participate and some wouldn't. Then
5 there was the planning as to what should be tested for,
6 what should we do, what should we be looking at based
7 upon the known toxicities of the PCB's.

8 Q. What were the alleged injuries that
9 these people had suffered or what conditions?

10 A. Most of it really affected people, animals
11 through the food chain and it inadvertently got mixed
12 with cow feed instead of magnesium supplements which
13 should have been added to the cow feed.

14 So the cows were suffering from a lot of
15 spontaneous abortions. They were having
16 hyperkeratosis, which is an exaggerated growth of their
17 hooves, almost bizarre growth of the hooves. When they
18 did give birth it was a process that occurred
19 afterwards that the cow goes through and they weren't
20 fairing very well with that. So there was a lot of
21 maternal death. Failure to thrive and just plain
22 wasting away of these cattle, depending on how much of
23 the feed they ate.

24 The problem was that these were dairy cows and
25 therefore, the PBB's entered the dairy chain there was

1 food products, milk, cheeses, that sort of stuff.

2 Q. Did you uncover any problems that
3 humans were having as a result of this condition?

4 A. There was a lot of allegations. I know -- I'd
5 have to look at the final report, which was a monograph
6 on our findings. There was some liver toxicity found.
7 We performed fat biopsy and found samples of PBB or
8 stores of PBB in adipose tissue, fat tissues. But what
9 I remember was that we didn't find too much.

10 Q. These were people who would have
11 ingested these dairy products?

12 A. That's right, in the State of Michigan.

13 Q. What other projects did you work on
14 with Dr. Selikoff?

15 A. Well, Dr. Selikoff was constantly involved in
16 asbestos, so we worked with United Auto Workers, come
17 out to Paterson where he originally started. He was
18 part owner of a large building, which still stands.
19 And we would examine members of the United Auto Workers --
20 sorry -- Insulators, they were Jersey-based. We'd
21 examine them. They'd be X-rayed, interpret the X-rays,
22 using the high or low criteria for interpretation.

23 Q. In your years with Dr. Selikoff, did
24 you do any studies with regard to workers or any
25 persons who were exposed to PBC?

1 A. No. That had occurred before I got there. You
2 probably know that he -- the lab did do work -- was
3 involved to some extent with the Niagra angiosarcomas,
4 which were secondary to vinyl chloride.

5 Q. Was the angiosarcoma of the liver?

6 A. Yes.

7 Q. Did you do any work with Dr. Selikoff
8 with regard to exposures to vinyl chloride monomer?

9 A. No. All that work had actually been work
10 before I arrived. That work was done in just about two
11 years -- the publications were two years before I
12 arrived.

13 Q. There was no follow up during the
14 time that you were there?

15 A. No. Work had been done and that was that.

16 Q. When you said you went into practice
17 and then didn't work out, who did you go into practice
18 with?

19 A. I actually worked for a Doctor named Jack Sall
20 but I was actually working with someone you probably
21 know, Susan Daum.

22 Q. When did you work for Dr. Daum?

23 A. From July of 1982 until about early October of
24 1982.

25 Q. Had you been in practice with anyone

1 else other than Dr. Sall or Daum since you've gone into
2 private practice?

3 A. No. No one else.

4 Q. When you went into private practice
5 as you say, was that in '85?

6 A. I resigned and entered private practice 4-1-85.

7 Q. And that's -- you've been in private
8 practice on your own?

9 A. Yes.

10 Q. Do you have any associates now?

11 A. No, I don't.

12 Q. Have you ever had any associates or
13 partners since you went into private practice in '85?

14 A. None.

15 Q. I asked you questions about whether
16 or not the Selikoff group was doing any work with PBC
17 or vinyl chloride monomer while you were there. And
18 you said no. That work had already been done.

19 Have you personally been involved in any cases
20 involving exposure to polyvinyl chloride, vinyl
21 chloride monomer, at any time in your career?

22 A. I've seen a lot of cases from a factory nearby
23 called Pantasote.

24 Q. Can you spell that for us?

25 A. P-A-N-T-A-S-O-T-E, Pantasote, where resins were

1 made, polyvinyl chloride, extruded, heated, et cetera,
2 et cetera. I've seen a number of persons out of that
3 factory for pulmonary and potential led complaints. I
4 examined them for purposes of disability, worker's
5 compensation?

6 Q. Do you have a file in which all those
7 workers are in one place coming out of that plant?

8 A. Yes, I do.

9 Q. Well, --

10 A. Actually, I have a file for that particular law
11 group.

12 Q. Which attorneys are you working for
13 there?

14 A. The Wilentz people.

15 Q. These are all comp cases. Is that
16 right?

17 A. That's correct.

18 (Whereupon, recess taken.)

19 Q. You were telling me about the
20 compensation case.

21 A. That's right.

22 Q. What are some of the findings that
23 you've been making with regard to these people in terms
24 of their physical condition?

25 A. The basic findings are respiratory problems,

1 which are chronic bronchitis, small airways disease,
2 emphysema, and some have hypertension because there
3 was -- there is also led exposure at that plant.

4 Q. That was I guess going to be my next
5 question, other than exposure to the polyvinyl
6 chloride, what other types of things have they been
7 exposed to?

8 A. They had led. Specific ones are led. There
9 were other resins, different formulations, which I
10 couldn't help you with.

11 Q. Any asbestos over there?

12 A. Yes. There was some asbestos there. In the
13 plant, it's, you know, one of those situations where
14 there is a lot of asbestos insulation and people would
15 come in and do repairs and whatever, while people were
16 working. So there was bystander exposure and some of
17 the maintenance people actually -- I picked up a couple
18 of maintenance people who actually worked with asbestos
19 removal and replacement and they had -- I diagnosed
20 them as having asbestosis.

21 Q. Have you found any cancer over there?

22 A. I think there may have been one or two cancers,
23 lung. I'm not sure. I'd have to look. There were
24 quite a number of people that I examined.

25 Q. Any cancer of the larynx?

1 A. None to my knowledge.

2 Q. Before you considered the case of
3 John Peterson had you ever diagnosed cancers of the
4 larynx as a result of exposure to polyvinyl chloride or
5 vinyl chloride monomer before?

6 A. No. I had never.

7 Q. In your practice, how would you
8 describe your practice; occupational medicine, internal
9 medicine? Is there a specialty you would prefer to
10 categorize your practice as?

11 A. It's a diversified practice. I see people for
12 routine internal medical problems. I do a lot of -- a
13 lot of legal work, mainly plaintiff, some defendant
14 work, for liability, actually. Pulmonary consultative
15 work. I have a hospital practice. I'm on staff at
16 several properties but I actually really work out of
17 only one, Valley Hospital in Ridgewood. I do a lot of
18 work for corporations. I do work for Fortunoffs,
19 asbestos screening program.

20 Q. Consultant work?

21 A. Fee for service, usually per. In the case of
22 Fortunoff, they had asbestos problems. We did base
23 line. I see them once a year. And I basically set up
24 a program to conform to the CFR for -- current federal
25 regulations for asbestos screening program. I do a lot

1 of work -- have been doing it for number of years for
2 Camdress McGee (ph) the big toxic waste people out of
3 Boston. I do all their New York and New Jersey
4 examinations. These people are exposed to everything.

5 A. They're young people, engineers.

6 Q. What would you -- I understand that
7 you're board certified in pulmonary and internal
8 medicine. Would you consider yourself a specialist in
9 any particular field?

10 A. Of pulmonary medicine?

11 Q. Yes.

12 A. Yes. I've lectured twice in the local area on
13 occupational lung diseases, with a flare towards
14 occupational asthma because I tend to see a lot of
15 that.

16 Q. That's the type of situation which
17 you have described in those Wilentz cases a lot of
18 chronic bronchitis?

19 A. Yeah. Ahum.

20 Q. Have you in your practice, whether it
21 be treating or consulting or consulting for the purpose
22 of litigation, been called upon to examine in the past
23 persons who presented with cancer of the larynx, before
24 John Peterson?

25 A. Yes. I've seen laryngeal cancer, sure.

1 Q. In those situations have you been
2 asked to render any sort of opinion as to what might
3 have caused the laryngeal cancer?

4 A. Some, yes. And those were asbestos related.
5 Last one that I remember is a man who was coughing up
6 blood and I performed a bronchoscopy.

7 Q. What is that?

8 A. A flexible -- it's a fiber optic scope which I
9 passed through the nose into the trachea and into the
10 lungs and while I suspected it, as soon as I was in the
11 area of the larynx I saw a large bleeding tumor. So it
12 was clear that this was coming from the larynx and not
13 from the lung, and then I bowed out of the case and
14 ear, nose and throat people came in and did what they
15 had to do. But that was a laryngeal cancer.

16 In that case I just provided diagnostic
17 expertise and nothing else.

18 Q. Do you remember if that was an
19 exposure type case?

20 A. No. That was a straight forward call from a
21 colleague. I have so and so in the hospital coughing
22 up blood. As a pulmonologist, please evaluate.

23 Q. Some of your asbestos cases, do you
24 mind if I use that term, asbestos cases?

25 A. That's fine with me.

1 Q. Some of your asbestos cases have been
2 laryngeal cancer cases, is that what you told me?

3 A. There have been a couple. That's correct.

4 Q. Have you come to conclusion in those
5 cases that the laryngeal cancer was as a result of
6 exposure to asbestos?

7 A. That's correct.

8 Q. Do you know what those cases -- do
9 you remember the names of those cases or at least the
10 attorneys with whom you worked on those cases?

11 A. I really don't.

12 Q. Did you write reports on those cases?

13 A. Yes.

14 Q. Did you testify in those cases?

15 A. To date, I have not.

16 Q. Are they active cases?

17 A. I would assume so. A lot of them -- those are
18 probably compensation cases and we don't know whether
19 they're settled or not.

20 Q. You don't track them that way? You
21 keep your reports and then someone might tell you the
22 case is settled or someone might give you an occasional
23 call and say this case is ongoing or you'll check in
24 every now and then? Is that the way it works?

25 A. No. Because the firms that I work for pay me

1 in full for the report. So as far as I'm concerned
2 it's over, it's finished unless I hear from them.

3 I don't know what your experience is in
4 compensation but 99 out of 100 are settled one way or
5 the other and so I've never been called in to testify
6 on any of them. And I would figure with the normal
7 lead time the '87 cases are -- anything before '87 or
8 before has probably been settled, maybe some '88 stuff
9 too.

10 Q. When you came to your conclusions on
11 those other laryngeal cancer cases that the disability
12 condition was as a result of exposure to asbestos, did
13 you rely upon any learned treatises, text, prior
14 studies linking cancer of the larynx to asbestos
15 exposure?

16 A. Yes. There is a reasonable body of literature
17 out there, which links the two.

18 Q. Is it as common as other types of
19 cancer as a result of asbestos exposure?

20 A. No.

21 Q. Mostly you're talking about a
22 mesothelioma situation, a lung situation, would that be
23 the most common asbestos-induced cancer?

24 A. Well, lung cancer first as you know. I'm not
25 really sure about the number of colon cancers, it's a

1 common cancer. How much of it is actually attributable
2 to asbestos, I can't really say. I'd say it would be
3 after primary lung cancer and mesothelioma or maybe
4 equal to mesothelioma.

5 Q. Cancers of the larynx?

6 A. Yes.

7 Q. That is the question you're
8 answering, right?

9 A. Cancer of the larynx is not that common a
10 disease as is mesothelioma. Not that common a disease
11 whereas primary lung cancer is a very common disease.

12 Q. And are there other cancers which
13 would in frequency -- I hate to use these kinds of
14 terms in cancer but -- frequency rank behind cancers of
15 the larynx as a result of asbestos exposure, rarer
16 types of cancer as a result of asbestos exposure, for
17 lack of a better way to express it?

18 A. There have been reports about kidney, liver,
19 and I think even pancreas, some -- you know.

20 Q. When you say there is a reasonable
21 body of literature supporting relationship between
22 asbestos and larynx cancer can you cite for me now
23 some -- any of those articles?

24 A. Well, a lot of the work I remember of course
25 comes from Selikoff work because that's what I

1 remember. A lot of work has been done on asbestos.
2 And there are numerous contributors. As I said
3 Selikoff stands out because of my association with him.

4 Q. Did you refer to any of those
5 articles concerning the link between asbestos and
6 cancer of the larynx incoming to your opinions in this
7 case?

8 A. Well, I refer to a body of literature and what,
9 in my opinion, which is based on what I've seen, what
10 I've learned in training and what I've read.

11 Q. But again, in this case did you have
12 any specific articles in mind when you came to your
13 opinions in this case or did you do any medical
14 literature research incoming to your opinions in this
15 case?

16 A. Peterson, regarding?

17 Q. Yes.

18 A. Regarding asbestos?

19 Q. Yes.

20 A. No. That would have been knowledge that I
21 have.

22 Q. In those other cancer of the larynx
23 cases that you've been involved in and have categorized
24 those also as asbestos cases, was there exposure to
25 anything else other than asbestos?

1 A. Nothing specific that I can think of. But a
2 lot of industrial exposures tend to be compounded,
3 compound ones, a lot of different agents or group of
4 agents, let's say.

5 Q. You can't identify all the agents or
6 irritants but the industrial setting creates that, is
7 that what you're telling me?

8 A. That's correct.

9 Q. But asbestos was something that was
10 specifically identified in those other larynx cancer
11 cases?

12 A. That's correct.

13 Q. You said that you do spend -- and I
14 don't want to miscategorizes -- but you said that I
15 think a substantial amount of your time spent with
16 litigation now, I don't know if those were your terms.
17 If not don't answer the question. Let me ask you a
18 different way.

19 How much time do you spend in your practice
20 with regard to litigation?

21 A. With respect to work which had some sort of
22 legal application to it or other --

23 Q. Either comp or liability, is that
24 what you're talking about?

25 A. That's correct. I can only break it down into

1 time or actually, what percentage of my total income.

2 Q. I'm not going to ask you for your
3 total income. Can you break it down into a percentage?

4 A. That's what I was thinking about. Probably 20
5 to 25 percent, probably more towards the 25 percent.

6 Q. Of the litigation type cases either
7 comp or liability, can you categorize how much of your
8 time you spend on behalf of plaintiffs/petitioners as
9 opposed to defendants/respondants?

10 A. Probably 98 percent of my time.

11 Q. For the plaintiff's and petitioners?

12 A. Let's say 95 percent.

13 MR. TUZZIO: Can we have this
14 marked, notice to take deposition and produce
15 documents and we'll mark it as D-1.

16 (Notice to take deposition and
17 document request is received and marked D-1
18 for identification.)

19 Q. We've just had this marked as D-1,
20 notice to take deposition and produce documents. I saw
21 another copy on your desk when I walked in here before.
22 Is that it? Why don't you work off that copy? When
23 did you first see that for the first time?

24 A. It's dated October 16th by the Levinson firm
25 sent to me. I saw it last weekend.

1 Q. Well, let me go through the specific
2 requests. Deposition notice includes several requests
3 for documents to be produced here. And number one and
4 records of all communications between him, meaning Dr.
5 Velez and attorneys for the plaintiffs including
6 correspondence, memoranda, notes regarding telephone
7 conversations and other oral conversations and the
8 like. Did you produce documents here today which would
9 be in response to that request?

10 A. That's correct. I have.

11 Q. Can I see what you have?

12 MR. TUZZIO: Did you take a
13 look at them already?

14 MS. HOROWITZ: Yes.

15 (Whereupon, discussion is
16 held off the record.)

17 Q. One of the things you produced is
18 this letter of August 8, 1989 from Mr. Levinson to you
19 with attachments as set forth in the letter
20 occupational medical history from 1967, et cetera,
21 occupational medical history from June 12, 1975 and
22 1978, personal history and medical history and X-ray
23 report dated April 8, 1982 I have from Mount Sinai.
24 And then again, letter speaks for itself.

25 Was this the first written contact you had

1 with the Levinson office with regard to this case? You
2 can take a look at it. It looks to be the type of
3 thing they might have sent you first, to get you
4 rolling on this case. I don't know if that's --

5 A. That would be correct.

6 MR. TUZZIO: Can I have this
7 marked, please, as D-2?

8 (Letter of 8-8-89 is received
9 and marked D-2 for identification.)

10 MR. TUZZIO: We'll mark the
11 letter and attachments as opposed to each
12 individual one.

13 MS. HOROWITZ: All right.

14 MR. TUZZIO: D-2 is the August
15 8, 1989 letter from Alfred A. Levinson to Dr.
16 Velez, with attachments as I just described.

17 Q. The personnel personal history
18 attached to this letter, do you know who took this
19 personal history?

20 A. No. I don't.

21 Q. You did not, obviously?

22 A. That's correct.

23 Q. The item four in Mr. Levinson's
24 August 8 letter to you makes reference to an X-ray
25 report dated April 8, 1985, in connection with this

1 Mount Sinai Hospital admission showing a chest problem
2 and then say (rule out asbestosis). What did you
3 understand that to mean? Take a look at it.

4 A. Is the question really what does that mean to
5 me?

6 Q. What does that mean to you? We don't
7 know what Mr. Levinson meant because he's not here. I
8 guess a better way and there might be a third or fourth
9 answer to this but I want to know if you read it as a
10 request to you to rule out asbestosis in this case or
11 that it was -- whether you read it is a reference back
12 to what Mount Sinai did ruling out asbestosis?

13 A. I just look at it be aware there is a report in
14 there where the issue of asbestos was entertained.

15 Q. And ruled out? And ruled out?

16 A. No. Ruled out in medical terms is not the past
17 tense. It's, there are abnormalities, so then there is
18 a differential diagnosis. So rule out means you still
19 have to diagnose it.

20 Q. Did you understand that and again we
21 don't know what Mr. Levinson meant. But when you under
22 took to do your examination and consider this case, did
23 you understand you were being asked to rule out
24 asbestosis in this case?

25 A. I see people for pulmonary problems, obviously.

1 We do X-rays and pulmonary function tests. Now, he had
2 a grossly positive X-ray, so whether that was there or
3 not, I'm still making independent judgements, opinions,
4 diagnosis, based on the information that I put together
5 here in the office.

6 Q. Which was the grossly positive X-ray
7 that he had and what was it grossly positive for?

8 A. It was grossly positive for pulmonary and
9 pleural asbestosis. That's in my report.

10 Q. I understand. Was that X-ray you
11 took here or was that the Mount Sinai X-ray you were
12 talking about?

13 A. My X-ray. I always quote from my X-ray.

14 Q. Can I see that? Mr. Levinson goes on
15 on the next paragraph to say that the personal history
16 shows no connection with asbestos even in his military
17 service and his only exposure was polyvinyl chloride
18 and the monomer vinyl chloride.

19 When you looked at the personal history that
20 was sent to you by the Levinson firm, did you confirm
21 that at least in that personal history there was no
22 mention of asbestos? If you want to look at it now you
23 can. I haven't seen it yet.

24 A. There was no mention of asbestos. I remember
25 that.

1 Q. Your report does talk about asbestos
2 exposure?

3 A. That's correct.

4 Q. Did you take your own personal
5 history from Mr. Petersen?

6 A. That's correct.

7 Q. And in that personal history I assume
8 that at least some exposure to asbestos was revealed?

9 A. That's correct.

10 Q. Do you have copies of your notes?
11 Would that be part of this file here from the history
12 that you took of Mr. Petersen?

13 A. What I probably did in this case, normally we
14 take notes. I use the supplied history as a guide and
15 then I inquired further. So anything that is here in
16 the occupational history set forth in the report is a
17 combination of what was provided and what we were able
18 to take from Mr. Petersen.

19 Q. Do you use a checklist type form that
20 is similar to what Susan Daum uses for -- to inquire
21 about potential exposures?

22 A. For the compensation cases, for one law firm we
23 do. For the cases which I do for the Levinson firm and
24 most of the -- actually all the occupational histories
25 are initially taken by the nurse who works for me and

1 we follow a chronological order. When they graduated
2 high school, and then all the way through and try our
3 best not to have any gaps.

4 Q. What was the evidence that you
5 obtained in this from Mr. Petersen that there was at
6 least some asbestos exposure in his background? If you
7 want to refer to your report, you may.

8 A. On page two of the report, in the continuation
9 of the occupational history, about half way down I
10 state --

11 Q. Brake lining situations?

12 A. Of importance is that when he first arrived at
13 ATC and for the first five years or so and it goes on
14 and on, that there was asbestos. There was exposure to
15 asbestos containing brake pads.

16 Q. Okay.

17 A. And thereafter he did some boiler maintenance
18 which required the use of the application of asbestos
19 materials.

20 Q. When you met with Mr. Petersen and
21 when your nurse gave you the history that she took and
22 did you have any conversations with him about his
23 potential or his past asbestos exposure, you
24 personally?

25 A. Yeah. It's all there.

1 Q. No. I guess maybe you don't
2 understand the question. You said your nurse took a
3 history from him?

4 A. No. In this case since I already had the
5 initial history and I had the X-ray in front of me, I
6 went in and took the history of the rest.

7 Q. You had the history from the Levinson
8 office. I'm just trying to get sequence of events.
9 You took an X-ray of him. Then seeing the X-ray
10 something led you to have a further conversation with
11 Mr. Petersen, is that fair to say, something you saw in
12 the X-ray?

13 A. Yes. X-ray was characteristic of asbestos
14 exposure.

15 Q. So at that time you thought prudent
16 to follow up on the history?

17 A. Well, the question there is to find out where
18 he got it.

19 Q. Do you remember how that conversation
20 transpired? Took place? What he said? How you were
21 able to get out of him what obviously the Levinson firm
22 didn't get out of him?

23 A. You know, part of let's say knowing this
24 business if you want to call it that you have to know
25 where exposures come from. And that's what makes the

1 difference between doctor trained in occupational
2 medicine is awareness of exposures after seeing so many
3 asbestos cases, you pretty much know where the
4 exposures are and so just go through a checklist and
5 say did you work with, did you work with, did you work
6 with and so forth and so forth and try to jog the
7 memory of the person.

8 Q. It's fair to say his X-ray was
9 consistent or at least -- was indicated prior asbestos
10 exposure based upon your experience in occupational
11 medicine?

12 A. The work is characteristic.

13 (Whereupon, discussion is
14 held off the record.)

15 Q. Based on your experience would it be
16 fair to say that if you had no other history of
17 exposure other than the asbestos exposure which you are
18 able to draw out of this picture the Frake lining
19 exposure and the I think there were some sort of
20 insulation type exposure, that his X-rays would have
21 been consistent with those exposures absent anything
22 else? You can strike the question then.

23 The history that he gave you of asbestos
24 exposure, was consistent with the X-ray findings that
25 you made?

1 A. That's correct.

2 Q. And if there had been no other
3 history of any other type of exposure, you would have
4 been satisfied based on those X-rays and based on the
5 history that he gave you of asbestos exposure that you
6 had at least found some causal connection?

7 A. That's correct.

8 Q. If you can't answer this, let me
9 know. Did he appear surprised when you -- I assume you
10 informed him of your finding you thought he had
11 asbestos related disease? Can you explain to me what
12 his reaction was?

13 A. I really don't remember.

14 Q. Did you discuss that issue with the
15 Levinson office before you committed it to writing?

16 A. At the time that I see the patient the report
17 is dictated. And then I see it again when it's -- when
18 the initial typing is done for proofing. I did contact
19 the Levinson firm after seeing Mr. Petersen and stated
20 to them that there was an exposure to asbestos and that
21 there were objective findings which would support that
22 diagnosis.

23 Q. Who did you speak to at the Levinson
24 office about that?

25 A. Mr. Levinson.

1 Q. Do you remember what he told you when
2 you told him that?

3 A. He was suprised.

4 Q. The -- in the cover letter it talks
5 about occupational medical history. Are these the --
6 where would that be? I can't find that done in
7 narrative form in the way the personal history is done.
8 And again, we're referring to D-2.

9 A. It starts with F here.

10 Q. Did you rely upon the personal
11 history and occupational medical history that was
12 forwarded to you by the Levinson office in coming to
13 your opinions in this case?

14 A. Yes and no. Everyone who comes in here gets a
15 comprehensive history and physical examination, which
16 is independent of anything that maybe supplied. Some
17 of the things that I found probably all the things are
18 fairly well corroborated with that history that's
19 documented there by the Levinson firm.

20 But again, I would like to state that the --
21 it's my policy to perform an independent history. As a
22 matter of fact we even give them a form which we have
23 here and they fill out.

24 Q. That was the type of form that I had
25 asked you about before, similar to what Dr. Daum uses?

1 A. Not for exposures. This is a standard personal
2 history, family history, symptoms that they maybe
3 having, social -- how much they smoked, allergies,
4 immunizations, et cetera.

5 Q. I'll ask you about that in a second.
6 We're still really talking about the first request to
7 produce.

8 What do you remember other than the asbestos
9 situation, what do you remember, if anything, finding
10 out from the patient that was divergent or contrary to
11 the personal history and medical history and
12 occupational medical history given to you by the
13 Levinson firm?

14 A. The only difference I think was the fact that I
15 was able to document an asbestos exposure, whereas they
16 were not able to.

17 Q. What else did you produce here today
18 in response to our request number one? I think you
19 gave me that file and I gave it back to you to refer
20 to. What is that file?

21 A. This is my office medical record. It includes
22 the history and all -- basically everything that
23 pertains to Mr. Petersen that was generated in this
24 office or came through this office.

25 MR. TUZZIO: Okay. Can I mark

1 the outside of the folder D-3 and then the
2 individual items D-3a, b.

3 THE WITNESS: That's fine with
4 me.

5 MR. TUZZIO: The folder itself
6 and it was just described by the Doctor, we'll
7 mark as D-3 and then I'll open up the folder
8 and look at the things inside it and if
9 necessary, we'll mark the individuals items
10 D-3a, b or c.

11 (Vanilla folder is received
12 and marked D-3 for identification.)

13 Q. Just so I know what's part of what,
14 was the August 8, 1989 letter from Mr. Levinson and the
15 attachments which was marked as D-2, was that part of
16 your folder also?

17 A. That's correct.

18 Q. Okay. I'm looking at the check lists
19 format we've been talking about, which is the family
20 and personal health history. Do you remember who in
21 your office took that? Would the handwriting help you?

22 A. No. They fill it out themselves.

23 Q. This was sent to him in advance?

24 A. Is it folded three ways?

25 Q. Yes. It looks like it was in an

1 envelope?

2 A. It's sent to him in advance. He comes back
3 with it and it's edited by me.

4 Q. Did you rely on the information that
5 was in here incoming to your conclusions in this case?

6 A. That's correct.

7 MR. TUZZIO: Would you mark
8 this as D-3a?

9 (Medical history is received
10 and marked D-3a for identification.)

11 Q. Obviously every -- and this is very
12 comprehensive and every item in here is not of
13 significance to your opinion in this case. But can you
14 tell me which items were of significance, even to a
15 minimal degree, incoming to your conclusions or
16 opinions in this case?

17 A. The smoking history.

18 Q. What was the smoking history?

19 A. I have here that he started smoking at about
20 age 16 or 17 he smoked less than one pack per day. He
21 did inhale. And he discontinued the use of all tobacco
22 products at age 38.

23 Q. What is or what was significant about
24 his smoking history to you?

25 A. One would characterize it as a mild, mild or

1 moderate or significant, you know, severe smoking
2 history and characterize it as mild.

3 Q. And what does that characterization
4 of mild mean to you or how does it impact on your
5 opinion in this case?

6 A. Well, there is a definite relationship between
7 smoking and laryngeal cancer.

8 Q. Are you aware of any statistics or
9 ratios, rates, percentages, with regard to that
10 relationship?

11 A. No. Not really.

12 Q. Have you ever diagnosed anyone as
13 having -- diagnosed anyone with laryngeal cancer as a
14 as a result of cigarette smoking without any known
15 exposure to any toxins, irritants, agents?

16 A. That last patient that I broncoscoped --
17 because I take occupational history on my hospital
18 patients also. And I forgot what exactly he did. But
19 the only risk factor in his case was smoking.

20 Q. If Mr. Petersen had not had a history
21 of any occupational exposure, but presented with that
22 history of smoking and the same condition, laryngeal
23 cancer, would you have been able to find to a
24 reasonable degree of medical probability there was a
25 connection between the laryngeal cancer and the

1 smoking?

2 A. That would have been -- the answer is no. That
3 would be a tough one because the relative risk of lung
4 cancers goes down very rapidly after the cessation of
5 smoking and it's my understanding that the same occurs
6 with laryngeal cancer. That Mr. Petersen had a 21 year
7 hiatus, where he did not smoke. The -- some people say
8 two years. This is data for lung cancer and some take
9 it out to five years. But most people agree that once
10 you've stopped smoking for five years the relative risk
11 of developing a primary lung carcinoma is about that of
12 the general population, or those people who do not
13 smoke or who have never smoked, let me put it that way.

14 Q. Absent the history of exposure as
15 presented by Mr. Petersen, would you have been able to
16 even characterize the smoking as a possible cause of
17 his laryngeal cancer?

18 A. Just looking at smoking, previous smoking?

19 Q. Yes.

20 A. In all fairness one would have to say it's
21 possible, again, within the framework that I presented
22 earlier.

23 Q. Are you able to say to a reasonable
24 degree of medical probability that the smoking in and
25 of itself was not the cause of his laryngeal cancer?

1 A. Based on the information given, it would be my,
2 in this case, this particular case, Mr. Petersen, it
3 would be my medical opinion that the smoking did not
4 play a material -- did not play a material -- was not
5 materially associated with his subsequent development
6 of the laryngeal cancer.

7 Q. Do you have an opinion as to whether
8 it played any role in this case, in his development of
9 laryngeal cancer?

10 A. Based on the information that I've set forth
11 here, and knowing that there is a -- that the risk goes
12 to that of the general population who doesn't smoke,
13 then one would have to say that if he developed
14 laryngeal cancer, that he's basically at the same risk
15 as the general population. One could theoretically say
16 he used to smoke and et cetera, et cetera. But I think
17 the reference point to the general population, where
18 then say it's just laryngeal cancer, from other sources
19 that we cannot identify.

20 Q. When you identify I think you used
21 the time frame of five years after one stopped smoking,
22 do you know the basis for that five years? Let me
23 explain the question.

24 Are you saying if a person is going to get
25 cancer after he stops smoking he'll get it in that five

1 years or are you saying that in that five year period
2 there is some sort of healing process that makes one
3 less likely to get cancer?

4 A. Both.

5 Q. I had a feeling that was going to be
6 your answer. Can you explain that a little?

7 A. Well, the chronic irritation or the chronic
8 presentation of a carcinogen to susceptible tissue
9 occurs while the substance is present.

10 If you withdraw the substance, okay, these
11 tissues that are affected are epithelial tissues. In
12 other words, tissues that -- at the surface constantly
13 regenerate, as matter of fact. Therefore, anything
14 which may have been going on would revert back to
15 normal tissue.

16 There is, of course, a point of no return. And
17 we all know of this. I stopped smoking and I still got
18 my cancer a year later. That's because that cancer had
19 really started maybe two years before that or even
20 three years before that. Dependent on the cancer, and
21 the type of tissue and what we call doubling time, one
22 cell becomes two abnormal cells, and two abnormal
23 becomes four and eight and so forth and so forth.

24 It takes about, in the lung, more specifically,
25 I think it takes somewhere between nine and ten

1 doublings before you even see a mass.

2 So if you figure the average doubling time is
3 less say three to four months, you're looking at three
4 to four years of a process already going on, even if
5 you remove the causative agent.

6 Again, in all of our -- in all of our clinical
7 experience things which tend to go on for a long time,
8 patient comes in with sort of vague symptoms. You
9 can't find anything and continue to go on without
10 declaring themselves are usually have no -- will not
11 declare themselves. If that's going to happen it's
12 going to happen, basically.

13 Q. Is it fair to say that the lapse of
14 time from when he stops smoking until the onset of his
15 cancer is a factor in your conclusion that the smoking
16 had little or nothing to do with his larynx cancer in
17 this case?

18 A. That's correct.

19 Q. Because when you talk about that
20 point of no return, once someone reaches that point of
21 no returns, he or she will get that cancer within five
22 years, is that what the literature says?

23 A. No. What I'm saying is that at the time that
24 they stop smoking the, whatever, one cell was already
25 underway. It might have been two cells. But there was

1 already malignancy or a premalignant condition. We
2 know that there are tumors which have a potential for
3 malignant transformation.

4 So while they may be benign at one point, their
5 continued existence is toward malignancy. So whatever
6 that biological process is, is independent of the time
7 that you start smoking or not. It's either there or
8 not there. If you stop smoking, and it's not there,
9 then it's just going to get better. Nothing will
10 happen. But if the process is already underway and you
11 stop smoking it doesn't matter. Because a year later,
12 two years later, three years later, you're going to see
13 this. It will basically rear its ugly head.

14 (Whereupon, discussion is

15 held off the record.)

16 Q. What else in the personal history,
17 you just talked about smoking, was significant to you
18 in coming to your opinion in this case? The personal
19 history you took on that chart that you took, which we
20 marked as D-3a?

21 A. Alcohol intake is minimal. He stated that he
22 drinks, either two cans or two bottles of beer per
23 week. And that he drinks hard liquor only socially.
24 So one would say it's a minimal alcohol intake.

25 Q. What role or significance does

1 alcohol have in cases such as Mr. Petersen or other
2 occupational exposure/cancer type cases?

3 A. That relationship is sort of interdefined very
4 heavily with smoking. The question is whether alcohol
5 by itself is carcinogenic or is it that people when
6 they drink they smoke more.

7 A basic state of the art synopsis of it; I
8 don't think you find people who drink heavily and don't
9 smoke and who get laryngeal cancer. In my recollection
10 of the literature is that the two are very closely
11 intertwined. And therefore, the questionable etiology
12 of alcohol by itself is not that clear.

13 Q. Is it something that -- is it a
14 factor that a lot of these people who presented with
15 occupational type diseases just more so than not happen
16 to be people who do like to have a drink more than the
17 average person?

18 A. I don't know. That would be sort of a bias.
19 But that's probably more subject to our own personal
20 biases. Do I have information that says blue color
21 workers drink more than white color workers? I have no
22 information. I think that it would be just -- my
23 anecdotal response would be just as it is yours or
24 anyone else's in this room.

25 Q. But alcohol in and of itself hasn't

1 been found to cause the types of cancers that these
2 people with occupational exposure are presenting or has
3 it? I don't know.

4 A. Well, --

5 Q. You mention alcohol a significant
6 factor. And I want to know why it's even considered in
7 a case like this?

8 A. Well, if you look at, pick up a standard text
9 book which tends to be conservative by nature, it's a
10 text book, you'll see alcohol and drinking as the basic
11 etiologies, maybe by now asbestos has made it in, basic
12 etiologies of laryngeal cancer. And then they'll go on
13 to say the same thing I've already told you, that
14 they're closely intertwined, bla,bla,bla and it's hard
15 to pick it apart.

16 Q. Closely intertwined with smoking?

17 A. Right.

18 Q. What else in that chart was
19 significant to you in coming to your conclusions in
20 this case?

21 A. That's basically it.

22 Q. Also part of your file which is
23 marked as D-3 is a copy of your report. I'll probably
24 mark another copy of that so I won't mark that now.
25 This is the -- I have a yellow form which is your

1 physical examination. Then there are right after that
2 come the results of the pulmonary function testing. Is
3 that what that is?

4 A. That's correct.

5 Q. What came first your physical
6 examination or the pulmonary function testing?

7 A. Usually I have everything in front of me, X-ray
8 and pulmonary function test.

9 Q. Before you see him?

10 A. That's correct.

11 Q. Okay. So that just to keep things in
12 proper sequence, you and I should probably talk about
13 the pulmonary functioning testing before we get to the
14 examination. Who did the pulmonary function testing?

15 A. Does that -- probably says KH somewhere. No.
16 This is more sophisticated pulmonary function testing
17 done by a colleague.

18 Q. Why don't you -- can you separate all
19 the documents which pertain to, specifically to the
20 pulmonary function testing and I'll try and keep those
21 all in one place and as one exhibit.

22 A. Spirometry, pulmonary function testing was done
23 in this office and that was done by the nurse, who is
24 certified to administer a pulmonary function testing.
25 She's got her certificate hanging up in there. The

1 spirometry is done in this office. They both have my
2 name on it.

3 MR. TUZZIO: Why don't you
4 mark these as D-3b-i and ii.

5 (Pulmonary testing reports are
6 received and marked D-3bi and D-3bii for
7 identification.)

8 Q. Can you explain a little bit about
9 what spirometry testing is?

10 A. Simple spirometry is what I perform here. It
11 measures the force vital capacity which is the major
12 portion of the total lung capacity. It does not
13 measure the residual volume, that amount of air which
14 remains in the lung no matter how hard you push,
15 squeeze, et cetera, et cetera. Combination of residual
16 volume and forced vital capacity gives you total lung
17 capacity.

18 Decreases in the force vital capacity is
19 suggestive of restrictive lung disease. The equipment
20 also then looks at that total volume force vital
21 capacity and measures how much of it is exhaled -- how
22 much of it has been exhaled at one half second, one
23 second and three seconds.

24 It takes that information and gives you a flow
25 volume curve. In other words, flow plotted against

1 volume. And there are basically time honored standards
2 as to what would be considered obstructed or as the
3 name applies, restricts to air flow once it's in the
4 lung and to what is not obstructed. And in addition,
5 there is measurement of small airways parameters.

6 Obstructive component is divided into large
7 airways and small airways. The FEV1/FVC is
8 generally -- well, it is the time honored standard for
9 obstruction in general. And generally refers more to
10 the mechanical condition of the large airways. Those
11 are airways greater than two millimeters in diameter.
12 Airways less than two millimeters in diameter,
13 arbitrary by convention, whatever you want to --
14 however you want to say it, are considered the small
15 airways.

16 Therefore, the parameters beginning with the
17 FEF 25-75 percent and going down, for the most part
18 reflect small airways function.

19 These are the obstruction of the small airways.
20 These are the parameters which we measure with simple
21 spirometry in the office.

22 Q. What were the results of the
23 spirometry in this case?

24 A. The spirometry revealed obstruction of the
25 small and large airways. And they find in

1 characteristic of chronic obstructive pulmonay disease.

2 Q. The obstruction in both the small and
3 large airways, is that something that's consistent with
4 cancers of the larynx or his larynx condition in and of
5 itself?

6 A. No. Persons who have significant obstruction
7 of the upper airway have difficulty -- I have to get
8 this right. On inspiration the pressure goes negative.
9 So tissue pressure becomes positive. So these people
10 have difficulty on inspiration. They have a
11 characteristic curve.

12 Q. We say these people, who do you mean?

13 A. People who have significant obstruction of the
14 upper airways. But we're talking about the
15 intrathoracic portion. That portion -- actually, the
16 larynx is out of the thorax. On expiration -- right --
17 on expiration, due to positive pressure coming out,
18 they are going to have -- their curves are going to
19 flatten out. They're going to get to a certain point
20 and then their flow is going to be limited by the
21 physical characteristics of this tumor or whatever it
22 may be that's obstructing the air flow out.

23 He had no problems producing a normal peek
24 expiratory flow. He has no limitation. None of these
25 findings or -- there is no evidence that there is

1 larynx, but he doesn't have a tumor also, is playing
2 any part in any of these findings here.

3 Q. Would you expect, if all pulmonary
4 factors were equal, that someone with his larynx
5 condition would have a different spirometry finding
6 than someone without his larynx condition?

7 A. No. Because the -- when you have upper airway
8 obstruction, whether it be within the throat or out of
9 the thorax, you're talking about people with
10 significant encroachment on the lumens of the trachea.

11 I'm talking about really big, maybe ten percent
12 of the area, 20 percent is left. And that's why these
13 people have these problems. Kids who get streptococcal
14 sore throats and epiglottitis, so they wind up that way
15 because the epiglottis is so swollen that it just, in
16 essence, chokes them. But people with laryngeal
17 tumors, they're diagnosed before they get to that
18 position. So it can happen. But generally doesn't
19 happen.

20 Q. Is it fair to say you concluded in
21 this case his spirometry findings were pulmonary as
22 opposed to larynx related?

23 A. That's correct.

24 Q. What was the significance of those
25 findings to you as practitioner?

1 A. It shows obstruction, obstruction of the
2 airways and as I stated before, consistent with
3 obstructive pulmonay disease.

4 Q. Did these findings in and of
5 themselves at least lead you to look for things such
6 asbestos as a possible cause of these obstruction?

7 A. Well, asbestos really characteristically is a
8 restrictive disease. The small airway abnormality seen
9 in asbestos tend to be decreased or be super normal.
10 So there is limited -- by themselves, their
11 diagnostic -- diagnostically it's limited. You have to
12 look at the whole picture.

13 Q. Can you tell me about the rest of the
14 pulmonary testing done for Mr. Petersen?

15 A. Dr. Barisch is a -- also a chest specialist,
16 like myself.

17 Q. Can I ask you a little bit about Dr.
18 Barisch before you go into that? How long have you
19 worked with him?

20 A. I've known him for several years. I started
21 sending patients to him a year and a half, two years
22 ago, for further -- more sophisticated pulmonary
23 function testing. He happens to have that equipment in
24 his office.

25 Q. What type of physician is he?

1 A. He's a board certified chest, same as I am.

2 Q. He just has more equipment?

3 A. Yeah. He's got another \$80,000 worth of toys.

4 Q. What did Dr. Barisch do to inform Mr.
5 Petersen?

6 A. Not really much. These are performed by a
7 technician who is certified in the administration of
8 these tests. And then Dr. Barisch basically supervises
9 and then interprets the pulmonary function tests and
10 ensures they're valid testing, testing is going
11 according to protocols that he has set forth and these
12 numbers are valid, basically. He provides me with a
13 report.

14 Q. If I can ask you this question, given
15 the fact Mr. Petersen was presented with the larynx
16 condition and the letter from Levinson indicated no
17 asbestos exposure, why your concentration on the
18 pulmonary testing?

19 A. Because I had said I had his X-ray already.

20 Q. Oh, this was all after you had done
21 your own X-ray or the Mount Sinai X-ray.

22 A. I saw Mr. Petersen on August 11th and then I
23 referred him to Dr. Barisch, who saw him on August 24.

24 Q. And by the time he was seen by Dr.
25 Barisch had you already had the conversation with Mr.

1 Petersen in which he discussed the possibility of
2 asbestos exposure in his past?

3 A. That's correct.

4 Q. So that's when you thought it prudent
5 to follow up with Dr. Barisch, more concentration on
6 pulmonary asbestosis?

7 A. Yes. Then and there. In other words, when he
8 leaves the office, it's all done already. In other
9 words, he has the referral. He's been given
10 instructions to call Dr. Barisch's office for
11 appointment. We have printed forms which I just check
12 off and he takes care of it from there. I wait for the
13 report after that.

14 Q. Why did you do the spirometry in this
15 case? I assume this was done on August 11?

16 A. We do it basically as a screen.

17 Q. And in this case spirometry led you
18 to certain conclusions or suspicions concerning the
19 asbestos history?

20 A. No. It was the X-ray.

21 Q. And the X-ray?

22 A. It was really the X-ray.

23 Q. Really the X-ray?

24 A. Right. In other words, as we discussed before,
25 all this is available to me when I go to examine the

1 patient. I looked at the X-ray and then I just knew I
2 had to find out -- I knew he had asbestos exposure,
3 even though there was none that was put forth.

4 Q. Do you have the X-rays here?

5 A. Yes. I do.

6 Q. Can I take a look at those and show
7 me on the shadowbox exactly what in those X-rays led
8 you to think there might have been asbestos exposure?

9 A. Sure.

10 (Whereupon, discussion is

11 held off the record.)

12 Q. I've asked you, Doctor, to let me
13 take a look at those X-rays of Mr. Petersen and you
14 have a shadowbox in here and you have one X-ray up
15 there. When you get settled if you can just show me
16 the abnormalities that you found.

17 A. The X-ray up there is Mr. Petersen's. It's a
18 standard PA view X-ray entered from the back, chest is
19 against the plaque or -- against the X-ray film,
20 cassette holder. This is a normal X-ray for your own
21 comparison. Regarding the pleura, these are the
22 diaphragms here.

23 Q. Can you describe where they are, left
24 side, right side?

25 A. This is the right side. Diaphragm is the

1 interface between the chest cavity and abdominal
2 cavity.

3 Q. Where are they on the picture because
4 we're not going to have the benefit as we --

5 A. There is a marker that says L. This is the
6 left side and this is the right side. This is the
7 right diaphragm and left diaphragm.

8 Q. Towards the lower left side?

9 A. It's lower right side. And what you see here
10 are these white streaks right along the diaphragm. If
11 you look here they're not there.

12 Q. When you say here you mean on the
13 normal X-ray?

14 A. Right. Not on the normal X-ray. That's
15 correct.

16 Q. What you are looking at is
17 calcification or calcium on the diaphragm and that's
18 because there are pleural plaques there. There are
19 one, two, actually three plaques. If you look at the
20 left very faintly there is one there. But this one
21 here is easy to see.

22 Q. This one you mean the white streak?

23 A. That's right. So you have bilateral calcified
24 pleural plaques.

25 Q. Bilateral is for both sides, for lay

1 people?

2 A. Both sides, ahum. If you look now along the
3 chest wall and it's much clearer to see if you look at
4 the normal, the chest wall ends inside of the rib and
5 then it's contracted against normal lung tissue. Do
6 you see that? This is normal lung tissue comes to this
7 crisscross of ribs.

8 You can see it's real clear to see, you can
9 discern the ribs but there is another line in there,
10 another shadow, do you see that?

11 Q. You are talking about a shadow which
12 makes it difficult to see the other side of the ribs
13 where they are easily crisscrossed in the normal.

14 A. Right. In other words, this shadow actually
15 extends up to here, is not seen here. And that's
16 pleural thickening along the chest -- along the right
17 chest wall. The one on the left is a little harder --
18 a little -- you can see a thickened process, a little
19 harder to see, but it's over here, and extends up to
20 about here on the left. And that's, again, continued
21 pleural thickening on the left. That pretty much
22 described the lining of the lung or the pleura.

23 If you look at the normal X-ray here, you'll
24 notice that the outer third of the lung can be
25 separated into three straight lines and in contrast to

1 the inner thirds and middle thirds is basically devoid
2 of any plaques.

3 If you look here there is nothing there. If
4 you look finely you see some fine stippling but in
5 contrast to say here, there is nothing here. If you
6 look at Mr. Petersen's, there is abundance of shadows
7 that continue out pretty much to the end of the chest
8 wall. In here you can see them. In here you can see
9 them. In addition --

10 Q. What are those shadows indicative of?

11 A. Scarring of the lung or pulmonary asbestosis.
12 If you also look here, you'll notice there is a pattern
13 that tend to follow the -- they tend to emanate -- this
14 is the right interlobar (ph) artery and they tend to --
15 like a tree, just go out from that. These here are in
16 essence not contiguous with any structure, normal
17 bronchovascular structure. This is characteristic of
18 scarring of the lungs. Those are the two differences.

19 Q. Just again, because the transcript
20 will read one way and then you've been able to as
21 you're explaining to us we've had the benefit to see
22 what you're talking about.

23 Can you just sum up the three or four
24 different abnormalities that you had that you found on
25 the X-rays?

1 A. The basic abnormalities on Mr. Petersen's
2 X-rays are number one, there is a relative darkness of
3 these lung fields in contrast to the normal X-ray. In
4 addition there is a relative flattening of these
5 diaphragms in contrast to these diaphragms.

6 You can see have almost a half circle and these
7 tend to be flatter. These findings are consistent with
8 chronic obstructive pulmonay disease.

9 With respect to asbestos, there are bilateral
10 calcified pleural plaques on the diaphragm and there is
11 bilateral chest wall plaques, non-calcified.

12 In addition, pulmonary parenchyma has increased
13 interstitial markings, which is consistent with
14 scarring of the lungs or pulmonary asbestosis. If you
15 want to go off the record?

16 (Whereupon, discussion is
17 held off the record.)

18 Q. There is a way of grading or rating
19 asbestos-related cases?

20 A. That's correct.

21 Q. And can you explain that rating
22 system to me?

23 A. The pleura is rated by width of the plaque and
24 length of the plaque in relationship to the chest wall.
25 Calcifications are rated in with respect to the actual

1 total linear distance of the calcification. The
2 parenchyma is graded by the volume of little streaks,
3 if you want to call it that. Beginning with 0-0, which
4 is normal and all the way up to 3-3, which is the most
5 abnormal.

6 Q. What is Mr. Petersen --

7 A. I think I gave him 1-1 or 1-0.

8 Q. Does that 1-1 or 1-0 translate into
9 something that you can subjectively say is minimal
10 asbestosis or substantial or --

11 A. Well --

12 Q. -- severe? Is that type of disease
13 capable of being rated in those types of terms?

14 A. Yes and no. 0-1, by convention, is maybe
15 positive. More negative, from a legal standpoint it's
16 negative. 1-0 is more positive than negative and from
17 a legal standpoint it's positive. 1-1 is definitely
18 established disease. With respect clinical findings
19 it's very very variable. People with 1-1 disease are
20 very incapacitated. Whereas, others with more than
21 that, 2-2 disease, are not as incapacitated. So it's
22 very variable.

23 Q. Had he, in taking the history from
24 him, had he reported any symptoms which were consistent
25 with asbestos-related disease?

1 A. If you consider his hoarseness, which is
2 asbestos and laryngeal problems, then that was -- he
3 didn't complain of any shortness of breath or coughing.

4 Q. More or less pulmonary type things?

5 A. No. No coughing, no shortness of breath.

6 Q. Is that suprising to you, normal?

7 A. No. Like I said it's very variable.

8 Q. Would you expect that as time goes on
9 his symptoms are going to increase, his pulmonary
10 symptoms based on the findings that you made?

11 A. Based on everything, asbestos is a progressive
12 disease. And he could very well begin to have
13 shortness of breath one day. I would expect if it was
14 to progress he would have shortness of breath. So he's
15 still open for that.

16 Q. Did you in coming to your conclusion
17 in this case make any prognosis concerning his asbestos
18 disease?

19 A. I think the report -- I have some standard
20 addendums which I add to reports. If that's not there --

21 Q. Where you talk about pneumonia and
22 risk, is that what you're talking about in your report?

23 A. That's correct.

24 Q. Can you just, for the record, let us
25 know what your prognosis is for this individual, as a

1 result of his asbestos exposure?

2 A. Well, asbestos by itself would be with respect
3 to the lung, he has five times greater risk of
4 contracting lung cancer, exclusive of any smoking. He
5 doesn't smoke. And in its simplest form, people with
6 chronic lung disease have weakened lungs and therefore,
7 a pneumonic or pneumonia be much more severe in them
8 than in a regular person. Couple that with his age,
9 it's two risk factors. With mesothelioma, he's at
10 moderate risk for the development of mesothelioma. The
11 risk starts at about around 20 from on set and goes up
12 with time. So as he gets older his risk with
13 mesothelioma will continue to increase.

14 With reference to the GI tract the best you can
15 say is that he's just at increased risk of colon
16 cancer, et cetera.

17 Q. Did we mark Dr. Barisch's report and
18 findings?

19 MR. TUZZIO: Mark this D-3c.

20 (Dr. Barisch's records are
21 received and marked D-3c for identification.)

22 Q. D-3c is Dr. Barisch's report and
23 attachments pages one, two, three, four, and five,
24 which are his test results, essentially.

25 Did you rely upon his report or the test

1 results in coming to your conclusions in this case?
2 And if so, what did you specifically rely upon and to
3 what degree?

4 A. With respect to a diagnosis of asbestosis,
5 specifically pulmonary asbestosis, Dr. Barisch's
6 testing demonstrates restrictive process. That's card
7 risk of pulmonary asbestosis.

8 In addition, diffusing capacity for oxygen or
9 that amount of oxygen which moves across the pulmonary
10 membranes is also decreased. That's also
11 characteristic. An arterial blood gas which measures
12 the amount of oxygen in the blood was also decreased.
13 And finally, minute ventilation or the amount of
14 breathing that we perform every minute. Normal person
15 takes in and let's out about five liters per minute,
16 five to six liters at rest.

17 Well, while at rest his minute ventilation is
18 elevated. That's characteristic of restrictive or
19 interstitial lung diseases. So putting all this
20 together, this is further information which states that
21 the man has pulmonary asbestosis. Pleural asbestosis
22 is seen on X-ray.

23 MR. TUZZIO: We're going to
24 mark as D-3d the physical examination chart,
25 yellow form.

1 (Physical examination form is
2 received and marked D-3d for identification.)

3 MR. TUZZIO: And then I'll ask
4 you to refer to that and I'll ask you some
5 questions about your physical examination of
6 Mr. Petersen.

7 Q. What did your physical examination of
8 him consist of?

9 A. It starts with a vital signs, blood pressure,
10 heart rate, height, weight.

11 Q. Before you go any further, were any
12 of those findings significant?

13 A. No. The blood pressure was slightly elevated.
14 Other than that, nothing else.

15 Q. Weight was normal limits?

16 A. 75 inches high. So based -- I guess he also
17 has a big frame. You would expect him to weigh -- he's
18 actually within his weight range.

19 Q. What else did your examination
20 consist of?

21 A. General inspection, which I noted that he was
22 hoarse. His voice was deepened.

23 Q. What did you attribute the
24 hoarseness?

25 A. His laryngeal cancer, chronic hoarseness. The

1 other abnormality was I noted clubbing of the terminal
2 digits of the fingers.

3 Q. What is clubbing of the digits?

4 A. Some clubbing is just congenital, it gets
5 passed on. In this case I attribute it --

6 Q. Before I ask you what you attribute
7 it can you explain what clubbing is?

8 A. It's a widening or where the end part of the
9 finger takes on a clubbed or a club type appearance.

10 (Whereupon, discussion is

11 held off the record.)

12 Q. So clubbing condition is indicitive
13 or attributable to what?

14 A. It suggestive of -- things that cause clubbing
15 or first thing that you ask is was your father this way
16 and has it always been this way. If the answer is yes,
17 it's just congenital clubbing and that's it. People
18 who use jackhammers I think have a tendency to get
19 clubbing of the fingers.

20 So from the standpoint of cardiopulmonary
21 disease, it's indicative of either heart disease, which
22 comprises the circulation in the lungs or of pulmonary
23 disease, chronic bronchitis, emphysema and the
24 numerous other -- just about anything within the
25 spectrum of actual primary lung diseases, people with

1 lung cancer.

2 Q. So the degree of clubbing that you
3 saw is just another factor you put into the equation
4 with regard to pulmonary and asbestos exposure?

5 A. That's correct.

6 Q. What else did your physical
7 examination reveal?

8 A. That's it.

9 Q. What specific examination did you do,
10 if any, with regard to his laryngeal condition? In
11 other words did you take a look at it? Did you scope?
12 What did you do for him?

13 A. Basically took the history and noted his
14 hoarseness.

15 Q. If I can ask you why didn't you do
16 anything further?

17 A. I don't have a laryngeal scope here.

18 Q. That's something you can do, right?

19 A. Well, --

20 Q. You said you did it.

21 A. It's a bronchoscope, really. To get down to
22 the lung you have to pass the larynx. I wouldn't
23 biopsy or touch a laryngeal mass. I leave that to the
24 ear, nose and throat specialists for numerous reasons.
25 But in his case or from my standpoint I just need to

1 know -- I just need to know diagnosis. Diagnosis has
2 been made already and I'll comment as an expert on that
3 diagnosis, whether it's causally related or not to any
4 of his exposures.

5 Q. What was his diagnosis concerning the
6 laryngeal situation as you understood it?

7 A. He had been diagnosed as having squamous cell
8 carcinoma of the larynx in 1984.

9 Q. I think you said before there was no
10 tumor, to your understanding?

11 A. With Mr. Petersen?

12 Q. Yes.

13 A. No. He told me his last checkup there was no
14 recurrence of disease. He was left though with chronic
15 hoarseness.

16 Q. What was your understanding of what
17 was done for him by way of treatment of the carcinoma?
18 You can refer to your notes if you want. Take your
19 time.

20 A. What was the question?

21 Q. What has been done for him to treat
22 the cancer?

23 A. I have here a medical history which is listed
24 by the Levinson firm. Which in October of 1978 he
25 presented with hoarseness and lesion of the left vocal

1 cord. He underwent biopsy about a week later and it
2 revealed hyperkeratosis.

3 Q. What is that?

4 A. The skin, horney layer of the skin, part that
5 you see in the bathtub, the part that peels off,
6 that -- so what happens is the normal, if you look in
7 your own mouth, if the normal pink reddish mucous
8 membrane instead of seeing that what you see is what
9 white plaque and what that means is that that area has
10 transformed from normal squamous cell to one which is
11 hyperkeratotic or has keratin in it.

12 Keratin is on our skin for protection but not
13 necessary within the mucous membranes.

14 Q. Okay.

15 A. And then in May of '79 he had a small tumor
16 which was diagnosed as squamous papilloma, with chronic
17 inflammation. Five years later he was diagnosed as
18 having squamous cell carcinoma of the left vocal cord.

19 Q. Is that just a progression of what he
20 had been previously diagnosed?

21 A. Yes. That's correct. Squamous papillomas have
22 a malignant -- have tendency to regenerate. Couple
23 weeks later they took out a large tumor.

24 Q. What time frame are we in now, '84?

25 A. Right. January, 1984. So it's a large tumor

1 was removed from the left vocal cord.

2 Q. Did they leave the vocal cord in
3 tact?

4 A. They went back a month later and they took out
5 half of his larynx, left side. Then he had some sort
6 of procedure performed, probably to help him talk. And
7 he's been seeing the ear, nose and throat specialist
8 every six months.

9 Q. Did he report to you any recurrence
10 since the hemilaryngectomy?

11 A. No. Just the persistent hoarseness.

12 Q. Did he, when you spoke with him, did
13 he report to you any worsening of the hoarseness, pain,
14 any change in his condition from the time of the
15 hemilaryngectomy?

16 A. No. His hoarseness was fairly established.

17 Q. That's what he reported.

18 A. I'm going on memory.

19 Q. What other documents did you produce
20 here today in response to request number one? I think
21 you gave me everything that's been marked, obviously.
22 Why don't we go off the record?

23 (Whereupon, discussion is
24 held off the record.)

25 Q. Why don't you look at request number

1 one and let me know if there is anything else
2 responsive to that request?

3 A. Just the report.

4 Q. Just the report itself, which we'll
5 cover now.

6 MR. TUZZIO: D-4.

7 (Report of Dr. Velez is
8 received and marked D-4 for identification.)

9 Q. Your report was mark as D-4. I'll
10 ask you more questions. Did you make any notes of
11 telephone conversations that you had with the Levinson
12 office?

13 A. No. I didn't. I generally don't.

14 Q. What else did the Levinson office
15 send you to prepare you to write your report in this
16 case, other than what you produced for me? I'm
17 basically talking about request two.

18 A. They provided me with some NIOSH documents,
19 some industrial hygiene reports.

20 Q. Do you have those with you?

21 A. Yes, I do.

22 Q. Could I take a look at those? These
23 are additional materials given to you by the Levinson
24 firm. Is this just for this case or is this what you
25 have received from the Levinson firm in the past? Is

1 this all related to Petersen what I'm looking at here?

2 A. That's correct.

3 MR. TUZZIO: I'll want copies
4 of all these.

5 MS. HOROWITZ: Okay.

6 MR. TUZZIO: Next exhibit D-5.
7 D-5 will be an April 15, 1989 letter from Dr.
8 Samuel Epstein to Mr. Levinson, with
9 attachments. Letter describes the attachments
10 as materials incorporated in the report and
11 it's captioned Petersen versus Union Carbide.
12 Can you mark that, please?

13 (Above-referenced document is
14 received and marked D-5 for identification.)

15 MR. TUZZIO: Next document is
16 Dr. Burton Davidson's's report in this case
17 Petersen versus Union Carbide we should mark
18 it anyway. It's D-6.

19 (Above-referenced document is
20 received and marked D-6 for identification.)

21 MR. TUZZIO: Next document is
22 an Engineering Control Assessment of the
23 Plastics and Resin Industry, which appears to
24 have been prepared by NIOSH in inviro control.

25 (Above-referenced document is

1 received and marked D-7 for identification.)

2 MR. TUZZIO: That was just
3 marked as D-7. D-8 will be an OSHA report
4 dated October 4, 1974 entitled exposure to
5 vinyl chloride.

6 (Above-referenced document is
7 received and marked D-8 for identification.)

8 MR. TUZZIO: The next which is
9 going to be D-9 appears to be labeling for
10 vinyl chloride.

11 (Above-referenced document is
12 received and marked D-9 for identification.)

13 MR. TUZZIO: D-10 is an
14 article entitled Case of Occupational Acro
15 Steolysis Presumably Caused By Vinyl Chloride.

16 (Above-referenced document is
17 received and marked D-10 for identification.)

18 MR. TUZZIO: D-11 will be an
19 article or abstract entitled Statement to
20 Employees in the Vinyl Chloride Industry.

21 (Above-referenced document is
22 received and marked D-11 for identification.)

23 MR. TUZZIO: D-12 is an
24 article entitled Angiosarcoma of the Liver in
25 Vinyl Chloride/Polyvinyl Chloride Workers by

1 Drs. Spirtas and Kammisski.

2 (Above-referenced document is
3 received and marked D-12 for identification.)

4 MR. TUZZIO: The next article
5 is entitled the health hazards of plastics by
6 Drs. Eckert and Hinden.

7 (Above-referenced document is
8 received and marked D-13 for identification.)

9 MR. TUZZIO: Next item is
10 PSNews Briefs February, 1976.

11 (Above-referenced document is
12 received and marked P-14 for identification.)

13 MR. TUZZIO: Next item is a
14 letter from US Consumer Product Safety
15 Commission dated June 17, 1975 addressed to
16 Levinson firm. That letter has attachments.
17 Attachments are described presumably in the
18 June 17 letter as a briefing package on vinyl
19 chloride.

20 (Above-referenced document is
21 received and marked D-14 for identification.)

22 MR. TUZZIO: Next item which
23 is going to be D-15, is an article entitled
24 Vinyl Chloride Induced Liver Disease by Dr.
25 Thomas and others, including Dr. Selikoff and

1 reprinted from the New England Journal of
2 Medicine January 2, 1975.

3 (Above-referenced documents
4 are recieved and marked D-15 for
5 identification.)

6 MR. TUZZIO: D-16 is the NIOSH
7 recommended standard for occupational exposure
8 to vinyl chloride.

9 (Above-referenced document is
10 received and marked D-16 for identification.)

11 MR. TUZZIO: D-17 looks like a
12 OSHA regulation 191093Q concerning vinyl
13 chloride.

14 (Above-referenced document is
15 received and marked D-17 for identification.)

16 MR. TUZZIO: D-18 looks like
17 more OSHA standards. It's actually standards
18 for exposure to vinyl chloride, corrections.
19 There is a date on it says December 3, 1974,
20 which is handwritten.

21 (Above-referenced document is
22 received and marked D-18 for identification.)

23 MR. TUZZIO: D-19 is a letter
24 which appears to be dated June 18, 1975 from
25 the Department of Health, Education and

1 Welfare to Senator Harrison Williams.

2 (Above-referenced document is
3 received and marked D-19 for identification.)

4 MR. TUZZIO: D-20 is a cover
5 letter dated April 21, 1975 which makes
6 reference to attachments, attached copies of
7 OSHA program directive on vinyl chloride
8 signed by R.N. Wheeler, Junior.

9 (Above-referenced document is
10 received and marked D-20 for identification.)

11 MR. TUZZIO: D-21 is a
12 statement of Dr. Marcus M. Key, dated August
13 21, 1974.

14 (Above-referenced document is
15 received and marked D-21 for identification.)

16 MR. TUZZIO: D-22 is an
17 article entitled Multiple Primary Malignant
18 Neoplasms in the Air and Upper Food Passages,
19 by Dr. Epstein and others.

20 (Above-referenced document is
21 received and marked D-22 for identification.)

22 MR. TUZZIO: D-23 is a cover
23 letter from Mr. Levinson to Dr. Velez dated
24 October 23, 1989.

25 (Above-referenced document is

1 received and marked D-23 for identification.)

2 MR. TUZZIO: D-24 is a
3 three-page document which is entitled John
4 Petersen up in the left-hand corner. It
5 appears to be one of the enclosures for the
6 August 23, 1989 letter from Mr. Levinson to
7 Dr. Velez.

8 (Above-referenced document is
9 received and marked D-24 for identification.)

10 MR. TUZZIO: D-25 is Dr.
11 Epstein's preliminary report in this case,
12 Petersen versus Union Carbide.

13 (Above-referenced document is
14 received and marked D-25 for identification.)

15 MR. TUZZIO: D-26 is a NIOSH
16 technical information document titled Cross-
17 sectional Epidemiologic Survey of Vinyl
18 Chloride Workers.

19 (Above-referenced document is
20 received and marked D-26 for identification.)

21 MR. TUZZIO: D-27 is a cover
22 letter with attachments from a Joseph K.
23 Wagoner to Dr. Epstein. And attachment is a
24 paper entitled Vinyl Chloride-Polyvinyl
25 Chloride, Review of Carcinogenic and Other

1 Toxicologic Effects.

2 (Above-referenced document is
3 received and marked D-27 for identification.)

4 MR. TUZZIO: And D-28 is a 114
5 page document entitled Worker Exposure to
6 Vinyl Chloride in Vinyl Chloride and Polyvinyl
7 Chloride Production and Fabrication.

8 (Above-referenced document is
9 received and marked D-28 for identification.)

10 (Whereupon, recess taken.)

11 Q. Anything else than what I've just
12 marked that big package of materials forwarded to you
13 by the Levinson office that would be in response to
14 request number two, all materials supplied to you by
15 the Levinson office?

16 A. That's complete.

17 Q. Okay. What about request number
18 three, which I'll read into the record, "All
19 communications between you and any other person
20 relating to this litigation or the issues raised
21 therein, including but not limited to correspondence,
22 memoranda, reports, notes regarding telephone
23 conversations and other conversations and the like."

24 Some of the stuff might overlap from one
25 request to another.

1 Is there anything that we haven't marked yet
2 which is responsive to this request?

3 A. I had a brief conversation with Dr. Epstein,
4 who was the author on one or two of those papers.

5 Q. Did you make notes of that
6 conversation?

7 A. No. It was just a sort of call talking about
8 risk factors, laryngeal cancer, et cetera.

9 Q. Did you rely on anything which he
10 told you in that conversation in coming to your
11 conclusion in this case?

12 A. No. It just -- I just wanted to talk to him.
13 It's all sort -- I may have picked out a piece of this
14 and piece of that. But I was actually -- it was
15 more -- I had certain questions I wanted to ask him.

16 Q. What types of questions did you ask
17 him?

18 A. Same sorts of questions you asked me before
19 about relative risk and if there was a good body of
20 information about things of that nature.

21 Q. Relative risk of what? Concerning
22 what?

23 A. In an attempt to try to decide whether vinyl
24 chloride was a weak, strong -- a weak or strong
25 carcinogen. In looking at literature, there is -- it's

1 not clear, let me put it that way.

2 Q. Okay.

3 A. There is data that says it is strong.

4 Q. Okay. What did he tell you that he
5 thought it was weak or strong or did he agree with you
6 it was unclear from the literature?

7 A. He couldn't put a number on it. That's what he
8 was able to tell me.

9 Q. What did that mean?

10 A. In his opinion.

11 Q. What does that mean?

12 A. We talk about cigarette smoke ten times the
13 relative risk. That you couldn't put a number on it.
14 And put it into that type of framework.

15 Q. I'm still not understanding what you
16 mean by putting a number on it.

17 A. If you were to say to me Doctor, how would you
18 rate cigarette smoking as carcinogen I would say to you
19 that it's a strong carcinogen and you'd ask me what do
20 you base your opinion on, and I'd say relative risk of
21 ten, or ten times that of the general population, makes
22 it a strong --

23 Q. Now, if I were to ask you that same
24 question with regard to vinyl chloride?

25 A. Yeah. There are no actual numbers. But there

1 are some evidence in some of the studies that even
2 after you correct for smoking, which is a strong
3 carcinogen or removed the smoking component, that when
4 collected for smoking there is still or when included
5 for smoking, that the vinyl chloride is still working
6 as carcinogen. It's not overshadowed, let's say, by
7 the smoking.

8 Q. But you can't put the kind of number
9 on it as you can with cigarette, such as nine times
10 that of the general public?

11 A. It would have to be strictly my opinion. And
12 strictly just theorizing. You can say that after you
13 account for smoking it still comes through, that it's a
14 very strong carcinogen. In addition, it appears to
15 have both animals and humans multiple organ
16 carcinogenicity. Again, making it a potent carcinogen.

17 Q. What else can you tell me about the
18 conversation that you had with Dr. Epstein?

19 A. That's it. It was a brief conversation.

20 Q. Had you met him before?

21 A. No. I had heard his name and knew of him.

22 Q. Did the conversation with Dr. Epstein
23 change any opinion you had with regard to any aspect to
24 this case, and particularly vinyl chloride's role as
25 carcinogen?

1 A. No. None really. I was, if anything, I was
2 looking for more information.

3 Q. And did you get more information from
4 him?

5 A. No. I was trying to get that information that
6 we just discussed. He was not able to help me with
7 that.

8 Q. Number request four, if you can look
9 at it requests all materials which you have reviewed,
10 consulted, read or considered in anyway in reviewing
11 this litigation and issues raised therein and in the
12 rendering of your opinions.

13 A. I've seen other things. I have small library
14 at home. And I have access to library, of course in
15 the hospitals. And I'm also in the process of
16 requesting specific information. None of which I have
17 for you now.

18 Q. You don't remember what else you've
19 read other than what you've -- well, first off, that
20 large packet of documents I marked that you got from
21 the Levinson firm which would be D-6 through D-28 or
22 so, did you review all those materials?

23 A. Yes, I did.

24 Q. And did you rely on any of those
25 specifically in coming to your opinion in this case?

1 A. Yes, I did.

2 Q. Do you remember what you specifically
3 relied on?

4 A. There are -- there is quite a bit of
5 information in there, as you can see. There is
6 certain -- couple of reviews which are always helpful
7 because the reviews look at all the literature. And it
8 helps you gain prospective. Those were probably the
9 most helpful reviews.

10 Q. Is it your recollection that package
11 of materials dealt with primarily vinyl chloride? If
12 you want to take a look you can? It was my impression
13 looking at them, the vinyl chloride material.

14 A. That's correct. Yes.

15 Q. And what else did you look at besides
16 this in your personal library or at the hospital
17 library that would have -- that you relied upon in
18 coming to your conclusion?

19 A. Standard pathology texts.

20 Q. Can you tell me exactly what they
21 are? If you relied upon them I'd like to know exactly
22 what --

23 A. Robbins Textbook of Pathology is one.

24 Q. Do you remember what part of Robbins
25 you looked at?

1 A. Under laryngeal cancer. The -- I have a couple
2 of monographs at home regarding chemical carcinogenesis
3 from the American Society of the Sciences.

4 Q. Did you rely on those in coming to
5 your conclusion in this case?

6 A. Yes, I did.

7 Q. Could you send copies of those to the
8 Levinson office please?

9 A. I'll send the front and you can always request
10 them. You are asking me to copy a whole book.

11 Q. These are from textbooks?

12 A. No. They're monographs.

13 Q. Do you remember specifically what you
14 looked at?

15 A. Just -- I just remember the New York Academy of
16 Sciences. They're well known for publishing these.

17 Q. Anything else?

18 A. And like I said, I have a few minutes to look
19 at a couple things in a library. There is Journal of
20 Occupational Medicine, which stands out. Exact ones I
21 can't tell you.

22 Q. Did you make copies of things you
23 looked at?

24 A. I'm requesting all of that.

25 Q. And after you've had copies of those

1 made could you send copies or at least titles of the
2 articles to the Levinson office?

3 A. Yes. Copies will probably be fine.

4 Q. I'd appreciate that. Anything else
5 that you looked at in coming to your conclusion in this
6 case, which would be in response to request number
7 four?

8 A. No. That pretty much covers it.

9 Q. Request five, all written reports
10 including drafts and memoranda notes or on
11 documentation relating to oral reports rendered in this
12 matter.

13 Did you do anything, draft anything other than
14 the August 15, 1989 report in this case?

15 A. No. Just what you see.

16 Q. Did you do a rough draft in this
17 case?

18 A. Yes.

19 Q. Do you have the rough draft?

20 A. No. It gets thrown away.

21 Q. Did you dictate the rough draft to
22 somebody?

23 A. I have a dictation system, mechanical system.
24 I dictate. It gets onto microcassettes and then the
25 typist takes the microcassette and uses the word

1 processor and then I get a dot matrix copy.

2 Q. Do you know if that tape still exists
3 that you dictated?

4 A. Probably not.

5 Q. Was this an outside service that did
6 this for you?

7 A. No. Just someone who -- she does it in her
8 home. And she mails this, the hard copies in.

9 Q. Does she still have the draft on
10 memory, do you know?

11 A. No. We have the disk here.

12 Q. Do you have the disk?

13 A. But the disk has been corrected.

14 Q. So you wouldn't have the original of
15 your report?

16 A. No. I can tell you the original is this
17 report.

18 Q. Do you remember what changes you
19 made?

20 A. Typos. Typos. That's all.

21 Q. There were no changes in the
22 substance of the findings that you made from the time
23 of your first draft up until this final product, August
24 15, 1989?

25 A. No. This is what you see is what I basically

1 put together originally.

2 Q. Request six is on the next page, "All
3 reports, written and oral correspondence and memoranda
4 prepared by you independent of the Petersen litigation
5 relating to the toxic properties of any chemical
6 including but not limited to polyvinyl chloride and
7 vinyl chloride monomer, alleged to have caused Mr.
8 Petersen's injuries or illnesses in this matter."

9 A. I have nothing.

10 Q. You've never written another report
11 pertaining to the toxic properties of any chemical.
12 That's what it's asking you for.

13 A. Of any chemical?

14 MS. HOROWITZ: It says
15 specifically.

16 MR. TUZZIO: Including PBC.

17 A. I have certain publications on dioxins.

18 Q. What about reports?

19 A. No. No, I haven't. No.

20 Q. What are the publications on dioxins
21 you've written?

22 A. The first one was in JAMA, Journal of American
23 Medical Association, March of '88 or '89. We have a
24 copy of it here. And subsequent to that there were
25 three more publications on dioxins, which were recently

1 published in Chemisphere. And we may have -- I think I
2 have those. I'm sure we have them.

3 Q. Have you ever written another report,
4 I might have asked you this before, concerning PBC or
5 VCM?

6 A. No.

7 Q. You've never treated or examined for
8 any purpose a person in which you've been asked to
9 describe any kind of exposure he might have had to PBC
10 or VCM and then subsequently written a report?

11 A. Yes. Those cases.

12 Q. From the Wilentz office, right?

13 A. That's correct.

14 Q. I'm going to request copies of the
15 reports that you wrote in that case.

16 A. There is 100 reports.

17 Q. I know that. I figured that. You
18 can talk it over with Mr. Levinson's office. I'll make
19 that request and follow up with a letter.

20 A. I know what you want. But I don't know how
21 you're going to do it. I really have no reason, if you
22 want to see them and I know you're entitled to them but
23 I can tell you personally, I don't have the time to
24 copy 100 reports for you.

25 MR. TUZZIO: Why don't we just

1 note the request at this point. We'll talk
2 with the Levinson office about it and we'll
3 get back to you. We don't have to discuss it
4 right now. Okay?

5 Q. In the literature you reviewed did
6 you ever review any piece of literature which talks
7 about the -- any kind of connection between cancer and
8 exposure to polyvinyl chloride?

9 A. Oh, yes.

10 Q. And what specific pieces of
11 literature talks about that? And you can review
12 that --

13 A. We're talking about review articles that are
14 noted here.

15 Q. Which would be what?

16 A. They're in this pile that's in front of me.
17 Review articles about the multi-organ carcinogenicity
18 of vinyl chloride.

19 Q. Could you show me exactly which ones?
20 Just go through and give me --

21 A. Standard text all talk about the vinyl
22 chloride. I mean, it was a hot topic in the '70s.
23 This is pretty much in the standard textbooks. Those
24 were the original reports about angiosarcomas.

25 Q. We're talking about what's been

1 marked as D-15 vinyl chloride induced liver diseases by
2 Dr. Thomas and others.

3 A. There was a quick and dirty review by Dr.
4 Epstein right here. You -- actually there are two of
5 these but one is missing, the part on PVC, vinyl
6 chloride.

7 Q. What is the exhibit number on that?
8 That's D-25. And that's actually Dr. Epstein's report
9 in this case.

10 A. And actually D-5, is the same report missing
11 the vinyl chloride.

12 Q. You relied on that in coming to your
13 conclusion in this case?

14 A. In part, yes.

15 Q. What specifics talk about Dr.
16 Epstein's report? Did you rely --

17 A. I'd have to read it again and talk about it.
18 This was helpful, NIOSH technical document. They
19 usually are very helpful. I think one of the helpful
20 things is the documentation that even though
21 preliminarized there is still the monomer or the vinyl
22 chloride monomer is still and still, I guess I call it
23 degassed from the polymer. There is just some stuff on
24 animals which is interesting but bottom line is that we
25 always, you know, too many inconsistencies between

1 animals and humans. So like I say, it's interesting.
2 Then there is short -- well, there is a review about
3 the human factors. That's page four of the D-25. And
4 then cites quite a few references.

5 Q. Did you go check those references or
6 did you rely upon what Dr. Epstein --

7 A. Some of those I've already -- Will Lillis is
8 the one I remembered from --

9 Q. Could you describe that more fully
10 for the record?

11 A. This had been done, that is one by Miller and
12 Lillis, et al, 1975 and Miller, et al. Dr. Miller was
13 also in the pulmonary department at Sinai. I remember
14 they had done some of this work and there had been a
15 associations made with chronic bronchitis, obstructive
16 lung disease. Some of it I'm trying to get. That
17 takes care of that one NIOSH document.

18 Q. That's D-26, right?

19 A. D-26, that's correct.

20 Q. What did you rely on from the NIOSH
21 study?

22 A. They went mainly into the lung problems,
23 chronic obstructive pulmonay disease, chronic
24 bronchitis and airway abnormalities they talked about
25 liver. They didn't have much to say about other

1 things. There was a good review here by Dr. Wagoner.

2 Q. What is the exhibit number?

3 A. D-27. Which -- essentially he reviews the
4 toxicity of vinyl chloride and asbestos, multiple organ
5 toxicity, more specifically, I think multiple organ
6 carcinogenicity of vinyl chloride. This was just an
7 industrial hygiene study, D-28.

8 Q. Did you rely on that at all?

9 A. No. It's pretty useless to me.

10 Q. How do you rate or are you aware of
11 any piece of medical literature which has linked the
12 laryngeal cancer with exposure to polyvinyl chloride or
13 vinyl chloride monomer?

14 A. Well, this body of information here and
15 following up on some of these sources as I stated New
16 York Academy of Sciences has a couple of monographs on
17 chemical carcinogenesis and they talk about -- one of
18 them talks about the multiple organ carcinogenicity of
19 PCV and VC.

20 Q. My request is a little bit more
21 specific and I know we're running out of time. But I
22 want to know what articles in that pile or any other
23 article that you're aware of that specifically deal
24 with or have set forth any kind of causal connection
25 between cancer of the larynx and exposure to PVC or

1 VCM?

2 A. One that's most complete is the Epstein review.

3 Q. The review is the litigation report
4 in this case?

5 A. Yes.

6 Q. Do you know what he relied on to come
7 to the conclusion --

8 A. He gives you a bibliography there that you can
9 follow up on.

10 Q. Other than what you read in Dr.
11 Epstein's report, litigation report in this case, are
12 you aware of any medical literature which makes a
13 causal connection between exposure to polyvinyl
14 chloride or vinyl chloride monomer and and cancer of
15 the larynx?

16 A. Like I said, Academy of Sciences there is
17 mention there where they talk about they actually refer
18 back to the NIOSH document where there was an excess of
19 respiratory system cancers, meaning the whole nose, all
20 the way down to the lung.

21 Q. And you don't know the date or title
22 of that New York Academy of Science?

23 A. No. I have it at home. It's an old one.
24 That's the ones I told you I'd get for you.

25 Q. Is there in your medical experience,

1 is there a large body of literature concerning
2 connection between larynx cancer and polyvinyl chloride
3 or vinyl chloride monomer exposure?

4 A. No. In comparison to other literatures it's
5 small.

6 Q. Again, the articles that Dr. Epstein
7 cited, did you look at them to see if any of them
8 specifically talk about larynx cancer?

9 A. Those are the ones in the process of having
10 pulled.

11 Q. Upon what did you base your opinion
12 in this case that Mr. Petersen's larynx cancer was
13 related to polyvinyl chloride or vinyl chloride monomer
14 exposure?

15 A. Whole overall picture?

16 Q. Well, let me just go to your report.
17 It's been marked as D-4. In addition, your assessment
18 on page three of your report in addition his laryngeal
19 cancer is causally related to long term exposure to
20 vinyl chloride. How did you come to that conclusion?

21 A. Again, based on, well, number one, knowing he
22 has the problem. Number two, exclusion of other known
23 causes.

24 Q. What other known causes did you
25 exclude?

1 A. The big ones; cigarette smoking and drinking.

2 Q. What about asbestos?

3 A. That would be -- that's included in the report.

4 Q. Well, did you conclude anywhere in
5 your report that the laryngeal cancer is related to his
6 asbestos exposure?

7 A. I think that with the information supplied,
8 that it's quite obvious.

9 Q. Do you have an opinion to reasonable
10 degree of medical probability as to whether or not his
11 laryngeal cancer is causally related to the asbestos
12 cancer?

13 A. Asbestos is a known carcinogen for the larynx.
14 Therefore, I would -- it would be my opinion that there
15 is a causal relationship.

16 Q. What about to a reasonable degree of
17 medical probability, do you have an opinion that his
18 laryngeal cancer is causally related to his exposure to
19 vinyl chloride?

20 A. It would be the same. It would be my medical
21 opinion based on what I have in front of me, that --

22 Q. What do you have in front of you?

23 A. I mean talking generically what I've looked at
24 and that is causally related.

25 Q. What is the basis for that?

1 A. Information supplied here.

2 Q. What specific information? Again, I
3 know we're sort of running out of time, we'll come back
4 and finish this another day but I want to know exactly
5 what piece of literature you're relying on to say there
6 is a connection between larynx cancer and vinyl
7 chloride exposure?

8 A. As I stated before, there is a review article by
9 Wagoner, which is actually in greater depth than the
10 Epstein review. Where the multi-organ carcinogenicity
11 of vinyl chloride is covered.

12 Q. Did you read the Wagoner report
13 before you drafted your opinion in this case?

14 A. Yes, I did. Yes.

15 Q. Can you show me where in his report
16 he talks about larynx cancer? I've never seen it.

17 A. He makes mention on page one, excesses of the
18 buccal cavity which is basically the mouth and upper
19 airways.

20 Q. What does he say specifically?

21 A. He calls it the buccal cavity.

22 Q. Can you spell that?

23 A. B-U-C-C-A-L.

24 Q. And what does he say about the buccal
25 cavity that in anyway supports your opinion?

1 A. One or more studies showed excesses of buccal
2 cavity. And he states on page two increase frequency
3 of breasts cancer, lymphatic cancer and respiratory
4 tract cancer.

5 Q. Does he mention larynx specifically
6 there?

7 A. Again, page three of the second part of the
8 same one, again, buccal cavity and pharynx and then
9 respiratory system.

10 Q. What did he say about them?

11 A. Excess. And he's quoting Gaffey.

12 Q. What do you mean excess?

13 A. Excess, retrospective study where cancer was
14 found in excess in a group of what would be expected.

15 Q. Okay.

16 A. The mention is to the respiratory system. He
17 doesn't say in here specifically, he doesn't say
18 specifically larynx.

19 Q. Is it your experience in publishing
20 those types of works and in reviewing those types of
21 works if there was a significant causal connection
22 between something like larynx cancer and exposure that
23 it would have been mentioned more specifically? I know
24 we can't ask you to read Dr. Wagoner's mind but on the
25 other hand --

1 A. The answer to that question is that's why if
2 you are going to do it thoroughly you go to the
3 sources. You go to what it is they reviewed in order
4 to make your own final opinion, let me put it that way.

5 Q. So in other words, Dr. Wagoner's
6 article was a review?

7 A. I would consider it a review.

8 Q. And to be sure whether or not he
9 intended or meant to include larynx cancer in his
10 review you'd have to look at those sources yourself?

11 A. That's correct. Yes.

12 Q. Did you in fact look at any of the
13 sources he cited there?

14 A. That's what I'm in the process of doing now.

15 Q. Okay.

16 A. When I have those available I'll -- since we
17 will get together again.

18 MR. TUZZIO: It looks that
19 way.

20 A. Hopefully I'll have those for you.

21 (Whereupon, discussion is
22 held off the record.)

23 Q. And again, the same with regard to
24 Dr. Epstein you'd have to look at his sources?

25 A. That's correct.

1 Q. Okay. But you've, nonetheless, made
2 the statement that the larynx cancer is as a result of
3 vinyl chloride exposure.

4 A. Yes.

5 Q. Have you read anything yourself that
6 leads you to that?

7 A. Yes. Based on what I reviewed, which is
8 basically materials submitted and a few things I've
9 been able to look at myself, independent of what's been
10 provided, it's my opinion at this time that there is
11 enough of a body of literature which would support that
12 contention that vinyl chloride does produce laryngeal
13 cancer.

14 Q. But you can't tell me as you sit here
15 exactly what body of literature you're talking about,
16 other than what you've told me about Wagoner's more
17 general type review?

18 A. The, as we discussed before, the body of
19 literature is not that large. And it's all cited there
20 for you.

21 Q. Is the body of literature larger with
22 regard to a causal connection between asbestos exposure
23 and laryngeal cancer?

24 A. Probably.

25 Q. Do you have an opinion in this case

1 as to what degree the asbestos played in the onset of
2 the laryngeal cancer as opposed to exposure to
3 polyvinyl chloride?

4 A. It's a very difficult question to answer.
5 Simply because asbestos is a known potent carcinogen.
6 Vinyl chloride is also a known potent carcinogen. How
7 you can -- the only way you can pose one against the
8 other is in the absence of the other, really. And
9 that's not the case in Mr. Petersen's situation.

10 Q. In the absence of exposure to PBC or
11 VCM, would you be comfortable in saying that's to a
12 reasonable degree of medical probability his condition
13 was a result of asbestos exposure?

14 A. If that was the only, --

15 Q. That's what I mean.

16 A. If that was the only discernable risk factor or
17 causative agent then I would go on record as saying
18 that. Yes.

19 Q. That asbestos did it?

20 A. That's correct.

21 Q. Can I ask you why you didn't say in
22 your report that asbestos caused his laryngeal cancer
23 specifically in your assessment?

24 A. It's no particular reason. I mean, I would
25 expect anyone who read that report to know asbestos was

1 an agent involved in this.

2 Q. Did the Levinson office ask you to
3 come to a specific conclusion concerning polyvinyl
4 chloride or vinyl chloride monomer and laryngeal cancer
5 as opposed to ask you to come to conclusion regarding
6 asbestos exposure and laryngeal cancer?

7 A. They just -- their request was for an opinion
8 on the case, based on the facts before me. And the
9 report basically states that. And asbestos exposure
10 and the -- it's inescapable. You'd have to agree.

11 MR. TUZZIO: This is probably
12 a good time to break.

13 For the record, I've got an
14 hour, to hour and a half more of questioning,
15 couple different areas I have to explore. The
16 Doctor has patients that are coming so I
17 reserve my right to continue and of course
18 counsel has no objection.

19 MS. HOROWITZ: No.

20 MR. TUZZIO: And neither does
21 the Doctor.

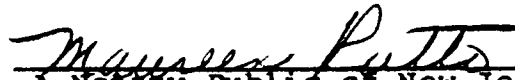
22 (Whereupon, proceedings were
23 adjourned at 3:30 p.m.)
24
25

C E R T I F I C A T I O N

I, MAUREEN RATTO, a Notary Public and Certified Shorthand Reporter of the State of New Jersey, do hereby certify that prior to the commencement of the examination HENRY VELEZ was sworn by me to testify the truth, the whole truth and nothing but the truth.

I DO FURTHER CERTIFY that the foregoing is a true and accurate transcript of the testimony as taken stenographically by and before me at the time, place and on the date herinbefore set forth.

I DO FURTHER CERTIFY that I am neither a relative nor employee nor attorney nor counsel of any of the parties to this action, and that I am neither a relative nor employee of such attorney or counsel, and that I am not financially interested in the action.


A Notary Public of New Jersey
License No. XI01165

I N D E X

HENRY VELEZ

DIRECT

CROSS

By Mr. Tuzzio

3

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