

1 UNITED STATES DISTRICT COURT

2 EASTERN DISTRICT OF KENTUCKY

3 AT FRANKFORT

4 3:07-CV-67-KKC

5 -----
6 DONALD QUILLEN,

7 Plaintiff,

8 -VS-

9 SAFETY-KLEEN SYSTEMS, INC.,

10 Defendant.
11 -----/

12 The videotaped deposition of DAVID HAY
13 GARABRANT, M.D., taken pursuant to Notice, taken at
14 623 W. Huron, Ann Arbor, Michigan, on Thursday,
15 January 21, 2010, commencing at 9:57 a.m., before
16 Barbara J. Turner, RPR, CSR-2343, Notary Public in and
17 for the County of Oakland, acting in the County of
18 Oakland.

19 APPEARANCES:

20 SALES, TILLMAN, WALLBAU, CATLETT & SATTERLEY
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BY: Mr. Kenneth L. Sales

23
24 Appearing on behalf of Plaintiff.
25

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BY: Mr. Christopher W. Carr
Appearing on behalf of Defendant.

ALSO PRESENT: Mr. Steve Alfonsi, Videographer

I N D E X

WITNESS: DAVID HAY GARABRANT, M.D.	PAGE NO.
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(Exhibits furnished to both attorneys.)

1 Ann Arbor, Michigan

2 Thursday, January 21, 2010

3 9:57 a.m.

4 - - - - -

5 VIDEOGRAPHER: On the record. This is
6 the videotaped deposition of Dr. David Garabrant
7 taken in Ann Arbor, Michigan. Today is January
8 21st, 2010. The time is 9:57 and 53 seconds a.m.

9 Will the attorneys please introduce
10 themselves and the court reporter please swear in
11 the witness?

12 COURT REPORTER: Doctor, if you raise
13 your right hand, I'll swear you in. Do you swear
14 or affirm to tell the truth, the whole truth and
15 nothing but the truth, so help you God?

16 THE WITNESS: I do.

17 DAVID HEY GARABRANT, M.D.,
18 Called as a witness by the Plaintiff, was examined and
19 testified as follows:

20 EXAMINATION

21 BY MR. SALES:

22 Q. Would you state your name and professional address
23 for the record, please?

24 A. David Hay Garabrant, 1420 Washington Heights,
25 Ann Arbor, Michigan 48109.

1 Q. Doctor, before we get started, I just want to do a
2 little discussion about the ground rules for the
3 deposition if you don't mind. I know that you
4 have been deposed a number of times so you
5 understand what a discovery deposition is all
6 about, correct?

7 A. I think so.

8 Q. Okay. Well, if you don't, if there is something
9 you don't understand, you let me know, okay? But
10 this is what I'll -- what I want to tell you. I'm
11 here to discover information and that's purely my
12 role here. My role is not to play games,
13 embarrass you. I'm, I'm just gathering
14 information. You have opinions. I've already
15 prepared and I know something of your background
16 and all that, but I'm really just here to try to
17 understand what your opinions are and the basis
18 for them.

19 If at any time I ask a question that
20 you're not sure of, would you stop me and tell me
21 you're not sure of it? Don't understand?

22 A. Yes.

23 Q. Okay. If I use a word or a phrase that you are
24 not sure of or that you have a question about,
25 would you let me know?

1 A. Yes.

2 Q. The whole opinion of this is that I want your
3 answers to be based upon your full understanding
4 of the questions I ask and that your answers are
5 responsive to a question that you fully
6 understand. Is that fair enough?

7 A. Yes.

8 Q. Okay. Anytime you need a break please take one.
9 Okay?

10 A. Yes.

11 Q. And if you need to, you've got counsel here who
12 has retained you, and if you need to take a break
13 to talk to him, you can do so. I don't care. I
14 really don't.

15 If I have a question hanging out and it
16 bothers me, I will let you and him know about it,
17 and we'll discuss it at that point. But as far as
18 I am concerned you're a professional and you're a
19 witness and you know this pretty well. If you
20 need to take a break, just take it. You don't
21 need to do a euphemism, so to speak, to take a
22 break. Okay?

23 A. Okay.

24 Q. Did you bring anything with you here today?

25 A. Yes.

1 Q. What did you bring?

2 A. I got a box of stuff.

3 Q. Good.

4 A. How do you want me to go through it?

5 Q. Well, let me start with, you have objections to --
6 counsel I think had objections to our third notice
7 and I'm looking at it now or do you not?

8 MR. CARR: I got the third notice
9 yesterday. My understanding is if there are
10 objections, they will be small, if any.

11 I know that Jeff Wood from our office
12 has reached agreements with Rob Shelton from your
13 office.

14 MR. SALES: Right.

15 MR. CARR: I spoke with Rob either
16 yesterday or the day before about what he wanted
17 us to bring, and I think we complied with that.
18 The only thing is Dr. Garabrant printed out either
19 his testimonial history or his deposition history,
20 something you had asked for. We identified that
21 he did not have that with him this morning.

22 MR. SALES: Okay.

23 MR. CARR: Because it's probably sitting
24 on a printer.

25 MR. SALES: Okay.

1 MR. CARR: So that was produced
2 originally with his report in this case. If you
3 want us to, we can check whatever he has now,
4 which may have been updated three or four, five
5 months after his report and see if there are any
6 differences, but we don't have that and that is
7 just something that got stuck on the printer.

8 MR. SALES: That's all right. So it was
9 attached to his report though, as I recall?

10 MR. CARR: Yeah, it was.

11 MR. SALES: Well, let me, let me do
12 this. What I'm going to do, and we will provide
13 you this at, you know, in the next day or so, or
14 he can e-mail you, we are going to provide as
15 Exhibit Number 1 the most recent list of your
16 testimonial history, of the Doctor's testimonial
17 history. Okay?

18 COURT REPORTER: Yes.

19 MR. CARR: Agreed.

20 MR. SALES: So anyway you want to get it
21 to the court reporter, Doctor, is fine with me.

22 Let me see here. Were there any other
23 issues on the notice that you recall? 'Cause I
24 frankly got the third amended notice myself.
25 Let's see. I saw it like last night.

1 MR. CARR: Yeah. And I saw it
2 yesterday. I'm really relying on my conversation
3 with Rob and Jeff telling me that Rob and Jeff
4 have had conversations and that there are no
5 disputes but sitting right here right now
6 that's -- that is really between Jeff and Rob. I
7 know we did not withhold anything that you asked
8 for based on my quick review of it.

9 MR. SALES: Yeah.

10 MR. CARR: Per any objection.

11 So the only things that stuck out to me,
12 I think you guys asked for copies of any study he
13 ever participated in. And he -- he gave you all
14 the CV that's got all of his studies on it.

15 MR. SALES: Okay.

16 MR. CARR: Many of them are not relevant
17 to this case. And I did ask Rob, I said I've got
18 this index with eight hundred different points
19 that could arguably be relevant in a benzene case,
20 and Rob said I don't want eight hundreds studies.
21 I what you to bring the ones that he's relying on
22 in this case and that's what we did.

23 BY MR. SALES:

24 Q. Okay. Fair enough. Well, let's first talk about
25 the box. What you got.

1 A. First set is the Notice of Deposition and there's
2 three versions of it. Okay. So we got that. And
3 I brought my curriculum vitae.

4 Q. Okay.

5 A. My report dated January 20, 2009. Actually two
6 copies of that.

7 Q. Okay.

8 A. An affidavit I wrote dated April 3rd, 2009. Two
9 copies of that. A Declaration I wrote dated
10 February 16, 2009. Then I brought my invoices for
11 work done on this case. And I have correspondence
12 from Jones Carr McGoldrick. Then the rest of it
13 is all the documents from the case. So I have
14 Daniel Wolen's deposition.

15 Q. That's the one from the Workers' Comp case?

16 A. I believe so. May 11, 2009 in the Workers'
17 Compensation, right.

18 Q. Okay.

19 A. I have Dr. Ellenbecker and Dr. Tsei, T S E I,
20 report dated December 18, 2009; Dr. Ellenbecker's
21 report dated November 25, 2008; affidavit of John
22 Spencer dated February 9, 2009; affidavit of John
23 Spencer dated April 2, 2009; Dr. Spencer's
24 curriculum vitae; a report from Dr. Spencer dated
25 January 26, 2009; report of Dr. Clapp dated

1 November 26, 2008; report of Dr. George Rogers
2 dated November 25, 2008; affidavit of
3 Dr. Ellenbecker dated March 13, 2009; affidavit of
4 George Rogers dated March 13, 2009; affidavit of
5 Richard Clapp dated March 12, 2009; Plaintiff's
6 Response To Defendant Safety-Kleen System's Motion
7 for Summary Judgment; deposition Billy Ray Ross,
8 Jr. dated September 11, 2008; and then part two
9 dated September 12, 2008; deposition of Donald
10 Quillan, volume two, and I have volume one I
11 believe electronically, I don't have it printed
12 out; I have the affidavit of David Pyatt dated --
13 I don't see the date on that actually, I don't
14 know what the date is; it was filed on February
15 11, 2009; ah, here's the date February 6th, 2009;
16 affidavit of David Pyatt dated March 31, 2009;
17 Dr. Pyatt's curriculum vitae; Dr. Pyatt's report
18 dated January 23, 2009; a number of CDs; one of
19 them titled Sergeant and Greenleaf Inspection and
20 the date on the disc is 6-6-08; the disc titled
21 Quillan materials dated 12-19-08; the disc titled
22 Quillan records 1-6-09; a disc titled Quillan
23 expert designation with no date on it.

24 Q. Do you know what's on those discs? I mean I
25 assume you know what's on those discs?

1 A. Not from memory anymore. I think I got them about
2 a year ago, so I don't recall from memory.

3 Q. How did you -- you were sent those discs by
4 counsel?

5 A. Yes.

6 Q. Okay. Do those discs -- to your memory do they
7 contain the materials that you have already talked
8 to us about or --

9 A. I believe that these contain materials that are
10 listed in my report from January of 2009 or at
11 least the discs that I had that are dated prior to
12 January of '09 I believe I listed the materials in
13 my reports. So it would be these two. This one
14 was received -- this is 1-6-09. That one is on my
15 report. This one came in March of '09 so that's
16 not in my original report. And this one isn't
17 dated. I would have to boot it up and see what's
18 on it.

19 Q. Why don't we do this; can you just make a copy of
20 it or have a copy made and provide them to us?

21 MR. CARR: Sure.

22 MR. SALES: We don't ever need to make
23 them exhibits to your deposition. If you will
24 just --

25 MR. CARR: No problem.

1 MR. SALES: Just do a transmittal letter
2 of some type identifying what they are, that they
3 are copies of what I requested, and I will just
4 make those a -- this is just a formal request for
5 production of those.

6 MR. CARR: Sure.

7 MR. SALES: Of copies at our cost.

8 MR. CARR: You got it.

9 THE WITNESS: All right. I have the
10 transcript of the hearing held at the Department
11 of Workers' Compensation dated October 21, 2009;
12 the deposition of Dr. Monty Metcalfe, January 14,
13 2009; the deposition of Dr. Richard Clapp dated
14 January 12, 2010; the deposition of Dr. George
15 Rogers dated January 13, 2010.

16 Then I have published scientific
17 materials, a set that I've labeled MDS. These are
18 the studies relevant to the issue of the causes of
19 myelodysplastic syndrome. Another set that I
20 labeled benzene AML. These are the studies
21 relevant to benzene and the causation of AML in
22 which there are measurements of benzene exposure.
23 I've brought a copy of the benzene IRIS, I-R-I-S
24 document, the toxicological profile for benzene
25 from the ATSDR and a copy of the Institute of

1 Occupational Medicine report from 2005 titled A
2 Review of the Data Quality and Comparability of
3 Case Control Studies of Low Level Exposure to
4 Benzene in the Petroleum Industry; and then I have
5 an additional set of studies that I printed out
6 which were exhibits attached to Dr. Rogers'
7 deposition that were not in my own list of
8 materials that also interested me.

9 BY MR. SALES:

10 Q. Okay. Are these yours or these copies?

11 A. These are mine.

12 Q. These are yours. Okay. I've looked at your list
13 of materials. Are these on that list or are these
14 in addition to what you've listed?

15 A. Which list are you --

16 Q. Well attached to your report.

17 A. Okay. The list attached to my report contains the
18 set of documents that I've labeled MDS.

19 Q. Okay.

20 A. This is the bibliography to my report.

21 Q. Okay.

22 A. The others are in addition to that.

23 Q. Okay. Do you have these in an electronic format?

24 A. Yes.

25 Q. Can you copy those to a disc and provide me a copy

1 of that?

2 A. I can, yes.

3 Q. Okay.

4 A. I just, I just located and printed from all of
5 those electronic copies last night and so that's
6 probably --

7 Q. That's why I asked, are these for you to keep or
8 are these something I can take?

9 A. You can take them.

10 Q. Oh, okay. I can take the hard copy?

11 A. Yeah. Here's the issue. For me to actually find
12 the files and print them, this was probably an
13 hour-and-a-half's work.

14 Q. Okay.

15 A. Just to put them together. For me to find the
16 files, put them on a disc, it's probably
17 another -- to go back it's probably another hour.

18 Q. No. No. I'm more than glad to take this with me.

19 A. Okay.

20 Q. Maybe I misunderstood.

21 A. No. You can take them.

22 Q. I thought this was yours to keep.

23 A. Well, can I get them back?

24 Q. Yeah. Sure. How do you want to work it?

25 MR. CARR: That or I think it would be

1 easier to just send them on to a copy service and
2 have it done.

3 MR. SALES: Yeah. Frankly I would
4 prefer -- I'm sorry. Can you'll just put them on
5 a disc, scan them?

6 COURT REPORTER: Yes.

7 MR. SALES: Why don't you do that. I
8 hate paper.

9 COURT REPORTER: Okay. No problem.

10 MR. CARR: So Ken, do you want to make
11 them an exhibit or do you just want an agreement
12 at the end; we're going to deliver this stuff to
13 her and she is going to discify it and give it to
14 you and give the studies back to him?

15 MR. SALES: Why don't we do that.

16 MR. CARR: That's fine.

17 MR. SALES: I mean for the purposes of
18 the record, you're going to agree that what she
19 puts on a disc, you're going to agree is what he
20 just told me?

21 MR. CARR: I think so.

22 MR. SALES: I do too.

23 MR. CARR: Can you be trusted?

24 MR. SALES: I think we can agree that's
25 going to happen. Okay.

1 THE WITNESS: All right.

2 MR. SALES: Okay. Super. And so we'll
3 have all these just scanned, put on a disc, and we
4 won't make them an exhibit to the deposition, but
5 we have an agreement that they are there and
6 that's what the Doctor has testified to. Okay?

7 MR. CARR: You are talking about the
8 little group, not the big group, just the studies?

9 MR. SALES: Okay. You mean this?

10 MR. CARR: Yeah.

11 MR. SALES: Okay. I'm just talking
12 about just the studies.

13 MR. CARR: Me too.

14 MR. SALES: I don't want what I
15 definitely already got.

16 MR. CARR: Me, too.

17 MR. SALES: Okay. I really don't want
18 what I definitely already got. Now, I am going to
19 go through the big group. If you will turn back
20 up properly.

21 THE WITNESS: Yeah. There is one, one
22 more thing.

23 BY MR. SALES:

24 Q. Okay.

25 A. Okay. And then I received a Fed Ex yesterday that

1 I have not had time to look at, so I don't know
2 what's on it. It just has a cover letter with it
3 and a CD.

4 Q. Okay. You don't mind?

5 A. I have not looked at it.

6 Q. So this is Quillan versus SK, it's 1-19-10,
7 Garabrant. Can I look at it?

8 MR. CARR: Sure.

9 MR. SALES: Okay. You haven't seen it?

10 MR. CARR: I have not.

11 MR. SALES: Well, I know.

12 THE WITNESS: We will discover it
13 together.

14 MR. SALES: No. I was sure you would
15 say yes but I want to give you the opportunity to
16 do the right thing or not.

17 MR. CARR: Ken, while you look at that,
18 may I run to the restroom?

19 MR. SALES: You absolutely can.

20 MR. CARR: Thanks.

21 MR. SALES: Want to go off the record?

22 MR. CARR: Yeah.

23 VIDEOGRAPHER: Off the record. The time
24 is 10:19 and 27 seconds.

25 (Garabrant Exhibits 1, 2, 3, 4, 5, 6A

1 and 6B are marked.)

2 VIDEOGRAPHER: We're back on the record.

3 The time is 10:27 and 43 seconds a.m.

4 BY MR. SALES:

5 Q. Doctor, we're attaching as Exhibit 1 to your
6 deposition the case list, and which is going to be
7 updated and you will provide to the court
8 reporter. I reviewed the list that you attached
9 to your report, and I believe the earliest date
10 that I see on that list is testimony in November
11 of 2004. Did you -- have you testified in
12 litigation prior to that time?

13 A. Yes.

14 Q. How long ago did you first start testifying in
15 litigation?

16 A. I think the first time was in the maybe 1983 or
17 '84.

18 Q. And how many times would you say that you have
19 provided testimony at trial in litigation?

20 A. I'm not sure I can give you an accurate estimate.
21 Probably fifteen or twenty times over the past
22 twenty years.

23 Q. So at trial only fifteen or twenty times in court
24 in trial?

25 A. I think that's a, yeah, that's a reasonable

1 estimate.

2 Q. And by deposition?

3 A. Probably sixty, seventy, maybe eighty. I don't
4 know.

5 Q. Okay.

6 A. Again, that's going back over twenty years.

7 Q. Where did you put all the exhibits -- oh, these
8 are. All right.

9 Have you testified previously in a case
10 involving exposure to benzene?

11 A. Yes.

12 Q. And which case was that or cases?

13 A. I'm not sure I can recall all the names. I know
14 I've testified in, let's see, a case Anthony Agudo
15 verse Chevron. That's one I recall.

16 Q. And you testified on behalf of Chevron?

17 A. Yes.

18 Q. And did the person claiming injury in that case,
19 what disease did that person have?

20 A. I believe Mr. Agudo had myelodysplastic syndrome.
21 I think that was about five years ago. I'm not
22 sure my memory is accurate but I think that's
23 right.

24 Q. Okay. And did you testify that Mr. Agudo's MDS
25 was unrelated to exposure to products manufactured

1 by Chevron or other oil companies?

2 A. My recollection is Mr. Agudo claimed his
3 myelodysplastic syndrome came from gasoline, from
4 handling gasoline. He worked for Chevron at an
5 engine test facility and he was responsible for
6 hooking up the fuel lines to the engines; and I
7 testified that his myelodysplastic was not caused
8 by the work he did which involved hooking up fuel
9 lines.

10 Q. Okay. What other cases have you testified -- do
11 you recall where that case was?

12 A. I believe it was in San Jose -- the court was in
13 San Jose, California.

14 Q. Is that on your updated list?

15 A. I couldn't tell you from memory. I think so.

16 Q. Okay. Because I didn't remember it right off the
17 bat. Seeing it on the original list that you
18 provided to us. No. I didn't see it.

19 So that would have been just in the last
20 couple of years?

21 A. No. I think that was four, five years ago.

22 Q. Okay. So the list that you're, you're going to
23 provide, how far back does that go?

24 A. Four years.

25 Q. Okay. Would that case be on the list?

1 A. If it was within the last four years it would be.

2 Q. Are you capable of determining what cases you
3 testified in prior to four years ago?

4 A. I -- only to the extent that I can remember them.
5 Like Agudo if it was more than four years ago.

6 Q. Okay. Have you prepared previous to four years
7 ago any list of testimony that you have given?

8 A. Yes.

9 Q. And where would that list be?

10 A. If I have it, it would be in a box from those old
11 cases if those haven't been discarded.

12 Q. Would you, would you search and see if you have
13 lists that predate four years ago?

14 A. Yeah.

15 Q. And if so would you provide those to us through
16 counsel?

17 MR. CARR: Well, I'm more than happy to
18 agree that this is a formal request.

19 MR. SALES: Yes.

20 MR. CARR: But we need to consider it.

21 MR. SALES: Right. Okay. That's a
22 formal request.

23 MR. CARR: Fair enough.

24 BY MR. SALES:

25 Q. So if, if you have -- because I presume that you

1 prepared these lists because you're in federal
2 court and you're required to do so?

3 A. That's correct.

4 Q. All right. And since you testified, you know,
5 since the eighties, I would think on several
6 occasions you had to prepare a list for a federal
7 court?

8 A. I have.

9 Q. Okay. And so what I would like for you to do is
10 to determine if any list predating four years
11 still exists; if you have any case files predating
12 four years where you have produced such a list,
13 please see if you can produce to us through
14 counsel?

15 MR. CARR: Yes.

16 MR. SALES: Our request is for any list
17 that might be outstanding, no matter how far back
18 it goes.

19 MR. CARR: And Dr. Garabrant, what's he
20 just done is made a formal request. Typically
21 what happens is I get to see that first. We look
22 at the law, we visit with you, so I don't think
23 he's seeking your agreement right now, but if he
24 is what I'm advising you is let me consider the
25 request and we will visit about that.

1 MR. SALES: No. I always want an
2 agreement, Doctor. I'm wasting my time at this
3 point otherwise. Okay. I'm making a request and
4 hopefully you can find that and let me know. And
5 the purpose of this is I'm just trying to
6 determine what cases where you may have testified
7 regarding exposure to benzene, what cases you
8 testified in.

9 For instance, the, the Agudo, unless I'm
10 missing it, is not on the list that you provided
11 me. So I appreciate that you did remember it but
12 it's just not on that list.

13 BY MR. SALES:

14 Q. Let me kind of go backwards with the list I have.
15 The last date I have is '08. So apparently the
16 list that you're going to provide as Exhibit 1 is
17 brought current to, to today's date?

18 A. I printed it out last night.

19 Q. I understand.

20 A. And forgot to take it off the printer.

21 Q. That's okay.

22 A. I believe it was current through September of '09.

23 Q. Okay. That's pretty close. Since 11-18-08, and
24 this shows Kelley Bohr versus American Honda
25 Motor, Inc., have you testified in any cases

1 involving benzene exposure?

2 A. Yes.

3 Q. And can you tell us what those are?

4 A. Well, I'm not sure of the dates. Is, is

5 Henricksen verses Chevron on there? I don't know

6 if that was before or after November of '08.

7 Q. Actually I don't see that.

8 A. Okay. Well, then I testified in Henricksen.

9 Q. Okay. What else?

10 A. I testified in Baker.

11 Q. Okay.

12 A. And --

13 Q. Would that be Baker versus Chevron?

14 A. Yes.

15 Q. Okay.

16 A. And I testified in Milward.

17 Q. What's that?

18 A. Milward.

19 Q. M I L W A R D?

20 A. Yes.

21 Q. Also Chevron?

22 A. No. I don't believe so.

23 Q. Who would, who would you have been testifying on

24 behalf of in that case?

25 A. Boy, it's hard to recall. Mr. Milward was a

1 lithographic printer and I testified on behalf of
2 some of the companies that supplied printing
3 chemicals to the best of my recollection.

4 Q. Do you recall where that was?

5 A. Boston.

6 Q. Okay. I mean that will be on your list?

7 A. Yes.

8 Q. And did these printing chemicals contain benzene?

9 A. That was one of the issues in the case. Some of
10 them I think did not and some may have contained
11 very small amounts.

12 Q. Okay. And what disease did Mr. Milward have?

13 A. Acute promyelocytic leukemia.

14 Q. And was your testimony in that, in the Milward
15 case that his exposure to these chemicals,
16 printing chemicals did not contribute to the cause
17 of his leukemia?

18 A. My testimony in that case was that the -- there
19 was no evidence that benzene caused APL and that
20 the plaintiff's experts had not provided reliable
21 scientific testimony.

22 Q. Okay. In what way did you believe that they had
23 not provided reliable scientific testimony in that
24 case?

25 A. The way the epidemiologic studies were handled was

1 inappropriate and a number of calculations made by
2 plaintiff's expert were wrong and created results
3 that were based on faulty assumptions.

4 Q. Okay. Did you testify at trial or deposition?

5 A. I testified in a Daubert hearing.

6 Q. Okay. I see the -- actually did locate the Baker
7 case. It looks like on your list it says August
8 13, 2008. Baker versus Chevron in looks like
9 Cincinnati, Southern District of Ohio?

10 A. Yes.

11 Q. Okay. You testified in a deposition and a Daubert
12 hearing in that case?

13 A. Yes.

14 Q. Do you know what the Daubert hearing concerned?

15 A. It concerned the testimony of plaintiff's expert,
16 Dr. James Dahlgren.

17 Q. Do you know what the result of the Daubert hearing
18 was?

19 A. I believe Dr. Dahlgren was excluded and the case
20 was dismissed.

21 Q. Okay. What disease did Mr. Baker have or
22 Ms. Baker?

23 A. There were four plaintiffs in Baker.

24 Q. Okay.

25 A. One of them had breast cancer, one of them had

1 Hodgkin's disease and two of them had monoclonal
2 gammopathies of unknown significance or MGUS.

3 Q. Okay. No leukemias?

4 A. One of them --

5 Q. Or pre-leukemia?

6 A. -- developed AML.

7 Q. Okay.

8 A. I'm trying to remember which. I think was a
9 consequence of chemotherapy for a prior cancer.

10 Q. Okay.

11 A. I'm not -- I can't say as I'm sure again from
12 memory. I would have to look it up.

13 Q. Obviously if I look at your deposition or the
14 Daubert hearing transcript, it will tell me all
15 that, won't it?

16 A. Yes.

17 Q. Any other benzene cases?

18 A. Yes. There are others. I can't recall them by
19 name.

20 Q. Okay.

21 A. But I believe there have been a couple of others.

22 Q. Since November of '08?

23 A. I'm not sure. I'd have to look.

24 Q. Let me kind of go through, let me ask you some
25 general questions, and then I will kind of go

1 through the list I do have and we can see what we
2 can figure out.

3 As I understand it, you testified on
4 behalf of companies involved in asbestos
5 litigation?

6 A. I have testified on behalf of companies that
7 either make or distribute or purchase or buy
8 brakes for cars and trucks.

9 Q. Like Pneumo Abex?

10 A. Pneumo Abex, Nissan.

11 Q. Honda?

12 A. Honda, Toyota, Mitsubishi, Cateran Pillar. So I
13 have testified on behalf of defendants in cases
14 that alleged that motor vehicle brakes cause
15 mesothelioma.

16 Q. Okay. And you uniformly and completely testified
17 on behalf of automobile manufacturers or brake
18 suppliers, distributors or manufacturers in those
19 cases?

20 A. That's correct.

21 Q. Okay. And you've always testified on those cases
22 that a person who had mesothelioma, which is a
23 form of cancer related to asbestos exposure, was
24 not related to brake exposure?

25 A. I have testified to that because that's what the

1 scientific evidence says.

2 Q. Okay. You've testified in -- well, rather than me
3 trying to give you specifics, what type of cases
4 would you say you testified in in general? Can
5 you group them?

6 A. I'm not sure, I'm not sure I understand your
7 question.

8 Q. Well, for instance, you testified in cases
9 involving asbestos exposure. Okay?

10 A. Brakes.

11 Q. Yeah. And brakes had asbestos in them?

12 A. Some brakes have had chrysotile asbestos in them.

13 Q. And you testified in cases involving benzene,
14 products that contain benzene?

15 A. I have.

16 Q. What other kinds of cases have you testified in?

17 A. Those have been the two areas where I have
18 testified. I have on occasion testified in cases
19 involving vinyl chloride, for example.

20 Q. And these are -- are these cancer cases involving
21 vinyl chloride?

22 A. Yes.

23 Q. And who have you testified for in vinyl chloride
24 cases?

25 A. Companies that have either handled or manufactured

1 vinyl chloride or in one instance a company that
2 owned a dump site where there was vinyl chloride
3 in the plume of groundwater under that dump site
4 at parts were billion levels.

5 Q. And what type of cancers were claimed as a result
6 of exposure to vinyl chloride in those cases?

7 A. Angiosarcoma of the liver and in some cases
8 hepatocellular carcinoma and I believe in one case
9 a cholangiocarcinoma of the liver.

10 COURT REPORTER: What was the last one?

11 THE WITNESS: Cholangiocarcinoma.

12 BY MR. SALES:

13 Q. And are these cancers cancers that have been
14 identified in the literature as being related to
15 exposure to vinyl chloride?

16 A. Angiosarcoma of the liver is clearly related to
17 exposure to vinyl chloride. Cholangiocarcinoma is
18 not and hepatocellular carcinoma is not.

19 Q. And in those cases in each instance did you
20 testify that the individual involved exposure to
21 vinyl chloride by the company that you were
22 testifying on behalf of was not a contributing
23 cause of their cancer?

24 A. I'd actually have to look back at my testimony.
25 The, the focus of my testimony actually had to do

1 with the development of scientific evidence over
2 the past thirty years, and that the studies done
3 by the chemical industry in fact matched the
4 studies done by various government agencies and
5 academic institutions in terms of when they were
6 published. Right, right from the start the
7 industry and the academic and government agencies
8 were publishing contemporaneously, and the
9 findings actually showed exactly the same thing.

10 So they -- the association between vinyl
11 chloride and angiosarcoma was reported by
12 industry, by university researchers and by
13 government researchers. The relative risks were
14 roughly the same and they were reported over the
15 same period of time.

16 Q. So would you describe your work in those cases as
17 being more or less on the state of the art?

18 A. No.

19 Q. But were you concluding in those cases that the
20 individual involved had a cancer particularly with
21 regard to angiosarcoma related to vinyl chloride
22 exposure or not?

23 A. In the instance where it was an angiosarcoma of
24 the liver and where the person had plausible
25 substantial exposure to vinyl chloride, I believe

1 my opinion is it may well have been a cause. But
2 that wasn't what I was testifying about. My -- I
3 was asked to respond largely to the claim that
4 plaintiffs had made that industry was hiding risks
5 from vinyl chloride, and it was clear in the
6 published literature that they were doing as much
7 work to uncover those risks as everyone else was.

8 Q. Did you represent BF Goodrich or were you working
9 on behalf of BF Goodrich in those cases?

10 A. I believe I have in some of those cases.

11 Q. I'm curious how far back you believe that BF
12 Goodrich, for instance, the vinyl chloride cases
13 was researching or developing material regarding
14 the risk of angiosarcoma and exposure to vinyl
15 chloride?

16 A. I don't recall specifically how far back BF
17 Goodrich was. Just from my memory as I sit here
18 my recollection was the first cluster of
19 angiosarcoma that lead to the realization that
20 this was a human carcinogen occurred in a BF
21 Goodrich plant and was reported by a BF Goodrich
22 physician. That's the Creech & Johnson paper as I
23 recall.

24 Q. Do you recall when that would have been?

25 A. 1973 or 74.

1 Q. Do you remember what case that was or group of
2 cases?

3 A. Not, not from memory.

4 Q. It would be on your list?

5 A. If it's been in the past four years, yes.

6 Q. Is the Genevieve Selby verses BF Goodrich
7 Corporation, is that one of those cases?

8 A. I don't believe so. I believe Mr. Selby had
9 glomerular nephritis which he claimed was due to
10 solvent exposure.

11 MR. CARR: That's the common spelling.

12 BY MR. SALES:

13 Q. So then the Goodrich angiosarcoma case may well
14 have predated this four year list?

15 A. Some of them may have. I believe some of them are
16 on that list however.

17 Q. Fortunately the only one I'm seeing is the Selby
18 case and you say that's a solvent case.

19 Do you recall where those cases were
20 located or how many you were involved in?

21 A. I believe those cases were largely located in Ohio
22 and I've been involved in perhaps five over the
23 past eight years.

24 Q. Do you know where in Ohio?

25 A. I do not. The law firm that I worked with is

1 based in Columbus. I don't, I don't -- I'm not
2 sure I know which court was handling this.

3 Q. What was the law firm?

4 A. The Borris Sader.

5 Q. Borris Sader. I know.

6 A. Borris Sader and somebody and somebody and
7 somebody.

8 Q. That's right. I got an e-mail from them
9 yesterday. So I know exactly who they are.

10 Okay. Another category that you kind of
11 mentioned of cases that you testified in are
12 solvent-induced disease cases, correct?

13 MR. CARR: Objection.

14 Mischaracterization.

15 THE WITNESS: I think you asked me
16 earlier about benzene and my response was
17 regarding benzene and leukemias and other
18 hematologic malignancies.

19 BY MR. SALES:

20 Q. I think you may have misunderstood me. What I
21 have been doing is trying to go through the type
22 of cases categorically that you testified in, and
23 we talked about the angiosarcoma cases, we talked
24 about asbestos disease cases that you have done
25 for brake-related entities, and of course benzene

1 cases that you've done on behalf of manufacturers
2 of products that may contain benzene products.

3 And so what I was saying is that there's
4 another category of case I believe you testified
5 in and those are cases involving exposures to
6 solvents. Is that -- have you testified in those
7 types of case?

8 A. We talked about Selby which was a glomerular
9 nephritis and solvent case. So I guess the answer
10 would be yes.

11 Q. Any other companies that have had claims against
12 them based upon solvent exposure that you have
13 testified on behalf of?

14 A. Setting aside the ones that deal with traces of
15 benzene?

16 Q. Yeah.

17 A. I mean --

18 Q. Yeah. As I'm talking I understand the petroleum
19 products are solvents.

20 A. Right.

21 Q. Okay.

22 A. Well, petroleum products typically include
23 solvents.

24 Q. Yes.

25 A. Gasoline, diesel fuel, jet fuel.

1 Q. Right. So that, that could create confusion in
2 the question I asked you.

3 A. Yeah.

4 Q. Okay. I gotcha. Let me, let me try to be a
5 little more clear. How about those, those
6 companies who deal in cleaning solvents, for
7 instance, trichlorethylene, trichlorethylene,
8 perchloroethylene, mineral spirits, things of that
9 nature.

10 Have you worked on behalf of companies
11 that maybe manufacture or use those products and
12 have had claims made against them based upon their
13 use of those products?

14 A. Okay. Well, let me clarify. Mineral spirits I
15 would put in the category of a petroleum product.

16 Q. It's a crossover?

17 A. Well, it's a petroleum product.

18 Q. It is. No. You're right. I guess what really --
19 maybe I can be more detailed. Those solvents that
20 may -- for which people may claim brain injuries,
21 for instance, like organic brain injuries of some
22 type.

23 A. Okay. I've testified -- I remember a case that
24 involved dry cleaning solvents which are typically
25 perchloroethylene.

1 Q. Right.

2 A. But may involve some other materials in addition.

3 I testified in a case called Magistrini.

4 Q. And who did you testify for in that case?

5 A. On behalf of the defendants but I'm not sure at

6 this point who that was.

7 Q. If I look at, at the list that you're providing --

8 that you have provided us and that you will

9 provide us, in any of the cases that you have

10 testified in did you testify on behalf of an

11 individual claiming that they had been injured as

12 a result of exposure to a product?

13 A. Not on that list but I have done that in the past.

14 Q. How long ago?

15 A. Well, I'm an occupational medicine specialist and

16 so I've done workers' compensation care throughout

17 my career, and I've testified on behalf of

18 plaintiffs and workers in workers' compensation

19 many times.

20 Q. Well, would that be in the setting of -- your

21 day-to-day work is as an occupational physician?

22 A. My day-to-day work is as a professor at the

23 University of Michigan. I'm a Professor of

24 Occupational Medicine and Epidemiology and

25 Emergency Medicine.

1 Q. Okay. And do you work day-to-day as an
2 occupational physician as well in actual practice
3 or do you not anymore?

4 A. Very little now. I used to.

5 Q. How long ago did you cease essentially the active
6 practice of medicine as opposed to the academic
7 practice of medicine?

8 A. I'm not sure I know the difference between the
9 active practice of medicine and the academic
10 practice of medicine.

11 Q. How about clinical? How about if I use terms of
12 art like clinical practice?

13 A. Yeah. I still see patients.

14 Q. Okay.

15 A. If that's the question I still see patients.

16 Q. Well, how much of your practice is clinical as
17 opposed to academic?

18 A. It's -- now again you know --

19 Q. Okay. Okay.

20 A. At a university seeing patients is part of one's
21 academic duties.

22 Q. It sure is because you have to take people around
23 and show them the patients and discuss them with
24 them, and it's also part of your day. I realize
25 that. I apologize.

1 A. Yeah. But patient care is a small part of my
2 activities now. I would say five percent or less.

3 Q. Okay. And how long have you been in a situation
4 where your -- where patient care is five percent
5 or less?

6 A. I've been reducing it in the past few years so
7 it's hard to say. I would say five years ago
8 patient care was probably twenty percent of my
9 time, maybe twenty-five percent, and it's been
10 reducing slowly since then.

11 Q. Would you, would you say that those cases where
12 you have testified, and you said workers' comp,
13 where you testified in a workers' comp setting for
14 an injured worker were cases where these people
15 had been your patient?

16 A. Well, I'm not sure what you or how you want to
17 differentiate. I saw them in clinic. I provided
18 care but it was under workers' compensation.

19 Q. Right. But I mean they weren't, these weren't
20 individuals who were sent to you for evaluation,
21 for instance, as in this case?

22 A. I'm not sure I understand the question.

23 Q. Well, where you testified for, for an individual
24 who claimed injury in a workers' comp setting,
25 these were people who you had contact with in your

1 medical practice either through your clinic at the
2 university or in whatever way as a doctor actually
3 coming in contact with a patient?

4 A. I saw them in clinic, yes.

5 Q. Right. So they were, they were your patient, one
6 way or the other? Maybe you weren't their primary
7 physician but you were one of the physicians who
8 saw them and attended to them and therefore was
9 able to develop an opinion based upon your contact
10 with them in, in your medical practice?

11 A. Well, I saw them in clinic and provided care and
12 to the extent that I developed opinions it was
13 based on materials I reviewed as well as the
14 encounter I had in clinic.

15 Q. Right. So what, what would typically happen in
16 that situation is an attorney such as myself might
17 contact you and say I see that you're one of the
18 physicians who saw my client. Do you have
19 opinions regarding the causation of their
20 condition? Would that be a typical situation?

21 A. That would be one of a number of situations.

22 Q. Right. But your initial contact with that person
23 who you testified for in a workers' comp setting
24 would not have been as a litigation situation; it
25 would have been as a medical situation?

- 1 A. It could have been either.
- 2 Q. Do you recall ever having a -- testifying in a
3 case for an individual where they had been sent to
4 you for evaluation in litigation?
- 5 A. Yes.
- 6 Q. And when was that?
- 7 A. Well, that's happened throughout my career or
8 since the mid eighties; twenty, twenty-five years.
- 9 Q. Are any of those cases on your case list that you
10 provided do us?
- 11 A. I believe some of them are, yes.
- 12 Q. Can you -- would you know which one is?
- 13 A. Without having the list in front of me and not
14 being able to see them I can't but if I, if I
15 could see the list, or if you want to read me the
16 names of the cases?
- 17 Q. Why don't I just run down.
- 18 A. Sure.
- 19 Q. I'm going to run down quickly and you stop me when
20 one of the names on this list --
- 21 A. Okay.
- 22 Q. -- was a person claiming injury and you testified
23 on their behalf. Yates v. Anchor Packing?
- 24 A. No.
- 25 Q. Essenmacher verses Orkin?

1 A. Angela Essenmacher was -- I think I saw her in
2 clinic. She claimed that she had multiple
3 chemical sensitivity from Orkin applying
4 pyrethroid insecticide around her apartment.

5 Q. Okay. So that was --

6 A. I did not testify on her behalf. I testified on
7 behalf of --

8 Q. Orkin?

9 A. -- the pesticide applicator, I believe.

10 Q. Petruzzi versus Allison Transmission?

11 A. No.

12 Q. Ward versus Albion Personnel Services, State of
13 Michigan Worker's Comp Agency?

14 A. I believe I saw her. I don't recall her first
15 name.

16 Q. Jerry Ward is.

17 A. I believe, I think that was a woman, and I believe
18 I saw her in clinic, and I don't recall what the
19 case was to be honest.

20 Q. Okay. MDL Docket, welding rods product liability
21 litigation that was --

22 A. No.

23 Q. -- for welding rod manufacturers in asbestos cases
24 I would think?

25 A. No.

1 Q. No. That would have been another lung disease
2 cases?

3 A. Nope.

4 Q. Oh, okay. Well, I'm guessed out. You tell me.

5 A. Parkinson's disease.

6 Q. Okay. But you testified on behalf of the welding
7 rod manufacturers?

8 A. I testified that the epidemiology does not support
9 that welding rods cause Parkinson's disease.

10 Q. Presler versus Lincoln Electric?

11 A. That's a welding case. Parkinson disease.

12 Q. Okay. That wasn't for the plaintiff in that case
13 or the claimant?

14 A. No.

15 Q. Karen Brown versus Christus Spohn Health System?

16 A. I did not see her in clinic.

17 Q. Okay. But you testified for the company in that
18 case?

19 A. That's a complicated issue. I testified on behalf
20 of the hospital.

21 Q. Right.

22 A. Ms. Brown had a barium enema and they perforated
23 her colon and which resulted in the barium
24 contrast material getting into her peritoneum, and
25 she got a peritoneal reaction, and they had to do

1 surgery to clean the barium out of her peritoneum.
2 It was a mess but she claimed that she had barium
3 poisoning which she did not.

4 Q. Okay. Leach versus Allied Glove. That was for the
5 company?

6 A. That's a brakes case, I believe.

7 Q. Flax versus Abex company?

8 A. That's a brakes case.

9 Q. Boren versus Lincoln Electric Company?

10 A. I believe that was a Parkinson's disease case.

11 Q. Bouhanna versus 128 Imports --

12 A. Brakes.

13 Q. -- Company. Harrick versus A. W. Chesterton?

14 A. That's a brakes case.

15 Q. All right. Sauers versus 20th Century Glove?

16 A. Brakes.

17 Q. Mohammad and Raja Jamal versus Honda?

18 A. I believe that's a brakes case.

19 Q. Mallia versus Mack Trucks?

20 A. Brakes.

21 Q. Spirydowicz versus Owes-Illinois?

22 A. That's a brakes case.

23 Q. Dyer versus Waste Management of Wisconsin?

24 A. That's the vinyl chloride in groundwater from a
25 dump.

1 Q. Okay. You testified on behalf of Waste Management
2 of Wisconsin?

3 A. Yes.

4 Q. Okay. Martinez verse GMPT, Saginaw Grey Iron?

5 A. GMPT stands for General Motors Power Train.

6 Q. That's a workers' comp, Michigan workers' comp?

7 A. Yeah and I don't recall to be honest.

8 Q. So you may have -- you don't know whether you
9 testified on behalf of Martinez or on behalf of
10 GM?

11 A. What was the year?

12 Q. August 2005.

13 A. I don't recall to be honest.

14 Q. Okay. We've already talked about Selby versus
15 Goodrich. That was the company.

16 Mallia versus Genuine Auto Parts?

17 A. I think you just asked me about that one. That's
18 a brakes case.

19 Q. Right. Sandy versus asbestos defendants. I
20 assume you testified on behalf of the asbestos
21 defendants?

22 A. Mr. Sandy had colon cancer, claimed it was from
23 asbestos exposure which there's no support for
24 that.

25 Q. Okay. I mean there is literature that colon

1 cancer can be caused by asbestos exposure?

2 A. In fact, if you look at the literature and put it
3 altogether, there is no association at all. We
4 published a Meta-analysis on that point in 2000 --
5 no, in 1994, and have followed that issue closely
6 and in fact there is no association at all.

7 Q. Meta-analysis is where you go back and look at the
8 studies that other people have done and interpret
9 them, separate and apart from the way they
10 interpret them essentially?

11 A. No. Absolutely not.

12 Q. Okay. Well, we don't need to debate that.

13 Tizcareno versus BorgWarner, that was a
14 company, was it not?

15 A. It's a brakes case.

16 Q. Yeah. Atwell versus City Corp or Conti Corp --
17 Contigroup. I'm sorry.

18 A. I did not see any patient in that case.

19 Q. Okay. So that would have been for the company?

20 A. I believe that was for the farm.

21 Q. Okay. But it wasn't for the person injured
22 claiming injury?

23 A. There was no claim of injury in that case as I
24 recall.

25 Q. Okay. White versus Alloy Rods?

- 1 A. That was a Parkinson's disease.
- 2 Q. Okay. Again, that would have been on behalf of
3 the defendant in the case?
- 4 A. The companies that made welding rods.
- 5 Q. Parsons versus American Honda?
- 6 A. Brakes.
- 7 Q. Pitts versus A. W. Chesterton.
- 8 A. Brakes.
- 9 Q. Haskell versus Airo?
- 10 A. I don't recall Haskell. I think that's a brakes
11 case.
- 12 Q. Barker verses Honeywell?
- 13 A. Brakes.
- 14 Q. Atwell versus PSF?
- 15 A. That's the same Atwell that we just discussed.
- 16 Q. Diaz versus American Standard?
- 17 A. That's brakes.
- 18 Q. Galloway versus UPRR?
- 19 A. That's a welding Parkinson's disease.
- 20 Q. But you would have testified on behalf of the
21 company?
- 22 A. I think that was actually on behalf of the
23 railroad that Mr. Galloway worked for.
- 24 Q. Okay.
- 25 A. He claimed that welding caused him to have

1 Parkinson's disease.

2 Q. Okay. Montalbano versus Lincoln Electric?

3 A. Welding.

4 Q. Okay. Drummond verse DuPont?

5 A. That was an environmental case alleging that a
6 zinc smelter had resulted in exposure in the
7 neighboring community to lead and cadmium and
8 arsenic in which --

9 Q. But you testified on behalf of DuPont?

10 A. -- in which there was no evidence that anyone was
11 exposed and I testified on behalf of DuPont.

12 Q. Okay. Thompson verses Abex?

13 A. About, probably sixty percent of all these cases
14 are brakes cases in which it was alleged that
15 automobile brakes caused mesothelioma. So it's
16 the same issue.

17 Q. Yeah. I understand. I'm just trying to find
18 that, that --

19 A. Yeah.

20 Q. -- person who claimed injury that you testified on
21 behalf of.

22 Monroe, Lidster, Campbell and Meyer v
23 PneumoAbex?

24 A. Brakes.

25 Q. Hichman, Neil versus Honeywell?

1 A. Brakes.

2 Q. Hauck, BorgWarner?

3 A. Brakes.

4 Q. Willhusen versus PneumoAbex?

5 A. Brakes.

6 Q. Franklin, General Motors?

7 A. Brakes.

8 Q. Barrett versus Pneumo Abex?

9 A. Brakes.

10 Q. Garcia versus Allied Diagnostic, California?

11 A. Mr. Garcia had non-Hodgkin's lymphoma and he

12 claimed that that was caused by his work as a

13 printer in a commercial printing plant. They

14 made -- well, they did commercial printing.

15 Q. Okay. But you testified on behalf of Allied

16 Diagnostic in that case?

17 A. No.

18 Q. Or you testified that his claim was not related to

19 the material?

20 A. It was not related to the inks and --

21 Q. Right.

22 A. -- materials he used in printing.

23 Q. Schwarber versus General Motors?

24 A. Brakes.

25 Q. Luman versus Allied Manufacturing? Hintz verses

1 Pneumo Abex?

2 A. I don't recall Luman.

3 Q. I'm sorry. Allied -- it's in Delaware. September

4 7, '07. It looks like two cases. Luman versus

5 Allied and Hintz versus Pneumo Abex. Maynard

6 verses Pneumo Abex?

7 A. I believe that would be brakes.

8 Q. Okay. Amick versus ABB Luman, Luman -- Lummus?

9 A. That would be brakes.

10 Q. Perrine versus DuPont?

11 A. That's the same issue as the -- when we talked

12 about the claim that the zinc smelter caused

13 exposure to lead, arsenic and cadmium.

14 Q. But you testified on behalf of the defendant in

15 that case?

16 A. I did. Yes.

17 Q. Buttiffa versus Honeywell?

18 A. Buttiffa? How do you spell that?

19 Q. Maybe it's Buttitta. B U T --

20 A. Buttitta, yes. That's a brakes case.

21 Q. Turner versus Chevron?

22 A. Turner that's a, that's a man who claimed that he

23 got pulmonary fibrosis from using a pesticide when

24 he worked for Cal Trans. Cal Trans is the State

25 of California agency that does all the highway

1 construction and maintenance.

2 Q. Right.

3 A. And he was a -- essentially he took care of the
4 plants and vegetation along the interstate and
5 state highways in California, and he claimed that
6 he got pulmonary fibrosis from handling
7 pesticides, and I testified on behalf of Chevron.

8 Q. Andre versus Union Electric?

9 A. That was welding and Parkinson's disease.

10 Q. You testified on behalf of the Union Electric?

11 A. That's correct.

12 Q. Hoskins versus Honeywell?

13 A. Brakes.

14 Q. Mitchell versus Honda?

15 A. Brakes.

16 Q. Haun versus Pneumo Abex?

17 A. Brakes.

18 Q. Bier versus Chesterton?

19 A. Brakes.

20 Q. Free versus Ametek?

21 A. That was a Frye hearing regarding plaintiff's
22 expert claiming that any exposure to asbestos
23 above background caused mesothelioma.

24 Q. Okay. You testified that exposure to asbestos
25 above background did not cause mesothelioma?

1 A. No. I testified that the plaintiff's expert
2 actually had no method for reaching that
3 conclusion.

4 Q. Okay. Guilder verses American Honda?

5 A. Brakes.

6 Q. Henricksen versus Chevron?

7 A. That was an AML where it was alleged that
8 Mr. Hendricksen got AML from handling gasoline and
9 diesel fuel.

10 Q. Okay.

11 A. And that was a Daulber hearing I believe, or Frye,
12 I'm not sure. I think it was a Daulber.

13 Q. But you testified on behalf of Chevron in that
14 case?

15 A. Yes.

16 Q. Schylaske verses Genuine Parts?

17 A. Brakes.

18 Q. Riley versus Genuine Parts?

19 A. I don't recall Riley. Yeah. That was brakes.

20 Q. Simons versus Pneumo Abex?

21 A. Okay.

22 Q. Mairose versus Dow Chemical?

23 A. That was vinyl chloride.

24 Q. And you testified on behalf of Dow?

25 A. No.

1 Q. Who?

2 A. Not Dow.

3 Q. Another company though?

4 A. Some other company, yeah.

5 Q. Okay. Baker versus Chevron?

6 A. That's the one we talked about.

7 Q. Okay. Daly versus Arvinmeritor?

8 A. Brakes.

9 Q. English verses Zone, Auto Zone West?

10 A. Brakes.

11 Q. Whited versus Long-Lewis?

12 A. What's the name again?

13 Q. Whited, W H I T E D, versus Long dash Lewis?

14 A. Brakes. That was brakes.

15 Q. Adams versus Allied?

16 A. Brakes.

17 Q. Morin versus Toyota?

18 A. Brakes.

19 Q. Bohr versus American Honda?

20 A. Brakes.

21 Q. So I guess we can agree at least on the list that

22 you provided us for the four years preceding

23 November of '08 you could not identify any case in

24 which you testified on behalf of a person claiming

25 injury as a result of exposure to something made

1 by another, another entity?

2 A. Well, I think that all of those cases have been on
3 behalf of defendants.

4 Q. Okay.

5 A. I'm not sure I understood exactly your question.

6 Q. Would you, would you say that at least say
7 ninety-eight, ninety-nine percent of the testimony
8 you have given over the years has been on behalf
9 of people who are defending claims that they --
10 from people who are claiming injury as a result of
11 exposure to products?

12 A. No. No. In fact, over much of my career I think
13 that it was evenly split. About half for
14 plaintiffs and half for defendants.

15 Q. Well, let's take out workers' compensation cases.
16 In litigation such as this how would that number
17 split?

18 A. Well, I'm not sure how you can take out workers'
19 compensation. I testified on behalf of injured
20 workers throughout my career. So setting aside
21 when I have testified on behalf of injured
22 workers, I've testified on behalf of defendants.

23 Q. Well, you would agree with me -- I mean I can't
24 see in the last four years and I'm -- based on
25 what you told me up until today when you testified

1 on behalf of any injured worker. So at least in
2 the last say five years a hundred percent of your
3 work has been on behalf of defendants in law
4 suits, is it not?

5 A. I believe that's correct.

6 Q. Would that be also true for pretty much for the
7 five years preceding that?

8 A. No.

9 Q. And in the workers' comp cases where you testified
10 for injured workers, those were people who were
11 actually your patients or you saw in clinic,
12 correct?

13 A. Some of them.

14 Q. Yeah.

15 A. Some not.

16 Q. Okay. Can you tell me -- well, let's go through.
17 We got some --

18 MR. CARR: Ken, if you are on a subject
19 you want to stick with, I don't want to stop you,
20 but I would like to take a brake in the next five
21 or so minutes.

22 MR. SALES: We're good. Take a break
23 now. I'm pretty cool about that.

24 VIDEOGRAPHER: We're going off the
25 record. This is the end of tape one. The time is

1 11:19 and 27 seconds a.m.

2 VIDEOGRAPHER: We're back on the record.

3 This is tape two. Time is 11:24 and 53 seconds
4 a.m.

5 BY MR. SALES:

6 Q. We've marked as Exhibit 2 to your deposition your
7 most up-to-date CV. Is that it?

8 A. Yes.

9 Q. Have you written any papers regarding benzene
10 exposure?

11 A. Yes.

12 Q. How many?

13 A. I don't know. I would have to go through and
14 count on my CV.

15 Q. Why don't you do this; can you just take a second
16 and go through with a pen and mark the ones? If
17 you want to thumb through.

18 A. It will take a little more than a second but.

19 Q. Well, why don't we not waste the film. That's
20 dead space, go off, and just let you -- if you
21 will just circle the number of which ones you
22 believe are related to benzene exposure.

23 MR. CARR: Let's go off both records.

24 MR. SALES: Yeah. Yeah. Yeah.

25 VIDEOGRAPHER: Going off the record.

1 The time is 11:25 and 55 seconds a.m.

2 VIDEOGRAPHER: We're back on the record.

3 The time is 11:32 and 17 seconds a.m.

4 BY MR. SALES:

5 Q. Doctor, we have gone off the record so that you
6 could mark on the exhibit those articles that you
7 had written involving benzene exposure,
8 benzene-related diseases. Could you go through
9 those with us?

10 A. Yes. Number twenty-seven on page fifteen,
11 Occupational exposures of parents of children with
12 acute non-lymphocytic leukemia; number
13 thirty-eight, Exposure to magnetic fields among
14 electrical workers in relation to leukemia risk in
15 Los Angeles County; number thirty-nine,
16 Occupational cancer; number fifty-two, Risk of
17 solvent exposure among women with undifferentiated
18 connective tissue disease; number fifty-three,
19 Epidemiology of organic solvents and connective
20 tissue disease; number sixty-seven, Scleroderma
21 and solvent exposure among women; number one
22 eighty-one, Case control study of pancreas cancer
23 at the Philadelphia plant of the Rohm & Haas
24 Corporation; number two 0 six, Carcinogens and
25 cancer risks in the microelectronics industry.

1 I think that would be it.

2 Q. Okay. Any, any of these cases -- any of the
3 articles that you have written or research you
4 have done leading to these articles deal with the
5 issue of benzene exposure and the development of
6 myelodysplastic diseases or syndromes?

7 A. I don't believe so. One of them I mentioned
8 looked at acute non-lymphocytic leukemia but I
9 don't believe it looked at myelodysplastic
10 syndrome.

11 Q. And none of the work you have done academically is
12 related to the relationship or research of
13 exposure to petroleum distillates and development
14 of myelodysplastic syndromes?

15 A. I'm not sure what you mean by the work I have done
16 academically.

17 Q. Well, as contained in your curriculum vitae which
18 is a list of all your, I would assume all your
19 publications, research papers, abstracts, etc.,
20 that would be your, what I would call your
21 academic work, correct, your curriculum vitae or
22 Exhibit 2?

23 A. Well, that would be part of my academic work.
24 I've also spent my career teaching.

25 Q. I understand. I don't mean to cut that short, but

1 I mean your written, your written work -- and of
2 course you have your teaching qualifications on
3 this curriculum vitae as well?

4 A. I do.

5 Q. All right. Not part of this curriculum vitae
6 would be work that you have done in a separate
7 arena and that's what I call the litigation area
8 which we have discussed previously.

9 A. What's the question?

10 Q. Well, you don't include your, your litigation work
11 as part of your curriculum vitae, correct?

12 A. That's correct.

13 Q. All right. So I mean I wouldn't see a list of all
14 the cases you may have testified in or the
15 companies you may have evaluated cases for, done
16 work for?

17 A. No. But that's the list we just discussed a few
18 minutes ago.

19 Q. That's a separate item, correct?

20 A. That's correct.

21 Q. All right. So when I, when I say that this is
22 more -- this is your -- as an occupational
23 physician or a physician who is specialized in
24 emergency medicine or internal medicine are these
25 fields and your academic background, that's what

1 your curriculum vitae or Exhibit 2 would
2 demonstrate, correct?

3 A. Well, my curriculum vitae speaks for itself. It
4 gives my education, my training, my academic
5 appointments, my licensure, my board
6 certification, all the conferences I've been
7 invited to speak at, the papers I have published,
8 the book chapters I've written, the abstracts I've
9 given. Among other things, yes.

10 Q. Right. And none of the book chapters, none of the
11 papers you've written and none of the academic
12 presentations that you've made deal with the
13 relationship of exposure to benzene and petroleum
14 distillates and the development of, of
15 myelodysplastic syndromes?

16 A. I believe that's correct.

17 Q. Okay. In fact, the work that you've done
18 regarding whether the exposure to petroleum
19 distillates and their relationship to
20 myelodysplastic syndromes, that work is almost
21 entirely associated with the litigation side of
22 your work, correct?

23 A. Well, I think the correct answer is I have spent
24 my career studying the health effects of
25 chemicals. I was educated as a chemical engineer,

1 then I got a medical degree, then I got two
2 degrees in public health and physiology; and I
3 spent my career focusing on long-term health
4 effects of chemicals. Chemicals such as petroleum
5 distillates and benzene have been central to many
6 of the research investigations I've done and
7 solvents more broadly.

8 So my career has focused on issues of
9 health effects of those chemicals, but not
10 particularly on myelodysplastic syndrome.

11 Q. Well, let me put it this way, no academic
12 institution has invited you to discuss and present
13 your views on the relationship of petroleum
14 distillate exposure in the workplace and
15 myelodysplastic syndromes, correct?

16 A. That is correct. I'm not sure that there's even
17 any controversy about that. There is no
18 relationship.

19 Q. Well, suffice it to say, others may have different
20 views but you have not been invited to write any
21 papers by any peer-reviewed or other academic
22 journals regarding the relationship to -- of the
23 occupational exposure to petroleum benzene and
24 petroleum distillates in myelodysplastic,
25 myelodysplastic syndromes, correct?

1 A. Journals don't typically ask you to write papers.
2 You write papers and submit them and try to get
3 them published. So no, I have not been asked to
4 write a paper where there's very little
5 controversy.

6 Q. And, and you haven't done that research
7 independently and submitted it to a journal
8 regarding the relationship or non-relationship
9 between petroleum distillates, the benzene
10 contained therein, and myelodysplastic syndrome?

11 A. Well, I certainly surveyed the world's literature
12 on that topic and some people would call that
13 research. It's certainly literature research but
14 I've not written a manuscript on that or submitted
15 a manuscript on that --

16 Q. All right.

17 A. -- for publication.

18 Q. All right. And in fact, the groups that have
19 invited you and asked you and paid you to give
20 opinions regarding the relationship of petroleum
21 distillates to myelodysplastic syndromes is almost
22 exclusively those companies that are defendants in
23 lawsuits where people have claimed that they have
24 injury from exposure to those petroleum
25 distillates as a result of benzene?

1 A. Well, in this case I have been asked by defendants
2 to give an opinion as to whether Safety-Kleen
3 causes myelodysplastic syndrome, and there is no
4 evidence to support such a claim.

5 Q. I understand that but my question was that the
6 only group that has asked for your opinion on this
7 subject, almost exclusively, are those companies
8 who have been named as defendants in lawsuits by
9 people claiming injury as a result of exposure to
10 benzene and their petroleum distillates?

11 A. That's correct. Because I don't think that it's
12 an issue of real concern outside of that context.

13 Q. Okay. Now, let me -- Exhibit 3 to your deposition
14 is your report in this case, correct?

15 A. Yes.

16 Q. Okay. Have you in any way supplemented that
17 report beyond what, what is contained in
18 Exhibit 3?

19 A. Well, I wrote an affidavit and a declaration which
20 are also marked as exhibits.

21 Q. Okay. And that would be Exhibit 4, correct?

22 A. That is the affidavit, yes.

23 Q. Okay. And then we also have Exhibit 5 and what is
24 that?

25 A. That's a declaration that I wrote in this case.

1 Q. Okay. Do you know what the purpose of the
2 declaration was?

3 A. I do not know from memory what the purpose of it
4 was other than to state my opinions in the case.

5 Q. Okay. There are two separate claims in this case,
6 and I'm trying to determine to what extent you
7 have or don't have opinions on the two separate
8 claims. And one is a claim that the configuration
9 of the equipment that Mr. Quillan worked on
10 created -- or the design of the equipment created
11 fumes which contained benzene and may have
12 contributed to the cause of disease.

13 You know just listening -- looking at
14 your reports and what you have done in this case,
15 I had doubts whether you had any opinions or
16 whether that was really your field to evaluate the
17 equipment used.

18 Do you have opinions concerning the
19 equipment, the design of the equipment, or whether
20 that design could have, could have contributed to
21 the development of fumes that may have been
22 dangerous to Mr. Quillan's health?

23 A. I was not asked to provide any opinions regarding
24 the design of the equipment.

25 Q. All right.

1 A. So no, I do not.

2 MR. CARR: Ken, so the record is clear
3 are we talking about hardware or solvent here?

4 MR. SALES: The SK parts washer.

5 MR. CARR: Is that the hardware?

6 MR. SALES: The hardware.

7 MR. CARR: Okay. So not the solvent?

8 BY MR. SALES:

9 Q. Well, yeah. I'm trying, I'm trying to take the SK
10 machine separately and whether it was designed
11 properly, whether it had proper ventilation. You
12 don't have an opinion regarding the equipment one
13 way or the other, correct?

14 A. I don't have opinions about the design of the
15 parts washing machine. I do have opinions
16 regarding the solvents used in the parts washing
17 machine.

18 Q. Okay. So whether it had adequate exhaust
19 ventilation to, to remove solvent or benzene fumes
20 is not an area you're going to get into?

21 A. I have not been asked to talk about exhaust
22 ventilation, that's correct.

23 Q. Okay. And just looking at your, I mean honestly,
24 Doctor, I don't, I don't mean this to be
25 pejorative, but it appears to me that evaluating

1 whether a piece of equipment or its exhaust
2 capabilities is defective or not is just not your
3 area of expertise. Can we agree on that one?

4 A. I would agree that the design and evaluation of
5 ventilation equipment is not within my area of
6 expertise.

7 Q. Okay. We will take that and throw it out the
8 window and we'll just deal with that with somebody
9 else.

10 Your opinions in this case are that
11 Mr. Quillan's exposure to solvents containing
12 benzene did not contribute to the cause of his
13 myelodysplastic syndrome?

14 A. My opinions are given in writing in my report and
15 declaration and affidavit; and essentially it is
16 that Mr. Quillan's alleged exposure to the
17 solvents in the Safety-Kleen parts washer did not
18 play any role in the causation of his
19 myelodysplastic syndrome.

20 Q. And what is -- what are the bases for your belief?
21 Well, let me back up.

22 Let's see if we can agree or define
23 where we disagree.

24 Do you have a belief whether a
25 sufficient exposure to solvents containing benzene

1 can be a substantial factor in causing the
2 development of a myelodysplastic syndrome?

3 A. Well, I think the scientific evidence is adequate
4 to support a conclusion that high exposures to
5 benzene can cause the myelodysplastic syndromes
6 but is not adequate to justify a statement that
7 solvents other than benzene or solvents containing
8 small amounts of benzene are linked in any way to
9 myelodysplastic syndrome.

10 Q. Well, how do you, how do you quantify a high
11 exposure to benzene?

12 A. The epidemiologic literature indicates that people
13 who have worked in settings where the exposures
14 have been either measured or estimated to be up in
15 the tens and hundreds of parts per million or in
16 which they were using straight benzene without any
17 control of exposure with limited ventilation, such
18 as in home industries, in shoemaking and leather
19 working, are, are at increased risk of
20 myelodysplastic syndrome.

21 Q. Well, again I'm trying to understand what you mean
22 by high exposure as contracted to what
23 Mr. Quillan's exposure would have been over a
24 period of years.

25 A. I think I just answered it.

1 Q. Can you quantify that? I mean is, is there a
2 study that's been, that's been done that holds
3 that one must be exposed to X amount of benzene or
4 solvent containing benzene to develop a
5 myelodysplastic syndrome?

6 A. There's no study that has established exactly what
7 you've pointed out. The studies that have shown
8 excesses of myelodysplastic syndrome have been
9 done in settings where, as I answered just a
10 moment ago, where the exposures were up in the
11 tens to hundreds of parts per million of benzene
12 itself or in which people used neat or straight
13 benzene as a solvent such as in shoemaking and
14 leather working where the exposures were not
15 measured but it was pure benzene and the
16 circumstances were such that there was
17 uncontrolled exposure and it's reasonable to infer
18 that those were very high exposures.

19 Q. Well, looking at -- when you mean reasonable to
20 infer that it is very high exposures, they did not
21 quantify the level of exposure in those
22 situations, in those studies, did they not?

23 A. That is correct. The people were using straight
24 benzene as a solvent in glueing leather, and they
25 were doing it in relatively unsophisticated

1 settings, assembly shoes. And those settings
2 typically result in exposures that can be in the
3 hundreds of parts per million to straight benzene,
4 not, not mineral spirits with traces of benzene.
5 I mean it is a very different setting.

6 Q. Well, could we agree that benzene is a known
7 carcinogen?

8 A. Benzene is known to cause acute myelodysplastic
9 leukemia --

10 Q. Okay. And --

11 A. -- under circumstances of exposure such that the
12 cumulative exposure is above forty or fifty parts
13 per million years and when those exposures occur
14 within about fifteen years or less of the
15 diagnosis of AML.

16 Q. Do you know of any governmental agency that has
17 found a safe level of exposure to a known
18 carcinogen such as benzene?

19 A. Could you tell me what you mean by safe level?

20 Q. Sure. Any, any exposure level to a carcinogen
21 such as benzene for which a person was unlikely to
22 contract a cancer.

23 MR. CARR: Your question was unlikely?

24 MR. SALES: Sure.

25 MR. CARR: Okay.

1 THE WITNESS: Yes. I mean OSHA has a
2 permissible exposure limit of one part per
3 million. NIOSH has a recommended exposure limit
4 of .1 part per million. ACGIH has a TLV, I don't
5 recall what it is, but it's somewhere in the range
6 of .1 part per million, .1 or .2. ACJ is not a
7 government agency but OSHA and NIOSH are.

8 BY MR. SALES:

9 Q. Well, but those are --

10 A. EPA -- well, well, those are --

11 MR. CARR: Let him finish his answer.

12 MR. SALES: Go ahead. I'm sorry.

13 THE WITNESS: Those are, those are
14 settings that are believed to not pose
15 unreasonable risks. In other words, it is
16 unlikely that anyone would be harmed by them.
17 That's what they're about.

18 BY MR. SALES:

19 Q. Well, OSHA and NIOSH and the ACGIH have levels,
20 potential levels of exposure to carcinogens such
21 as asbestos as well but do not endorse that as a
22 level, a safe level of exposure to a carcinogen.

23 A. Well, I thought we were talking about benzene, not
24 asbestos.

25 Q. Well, the analogy is the same. Are you saying

1 that the ACGIH, NIOSH and OSHA have stated that
2 their permissive -- their PELs or TLVs are safe
3 levels of exposure to benzene?

4 MR. CARR: Object to the form of the
5 question. First question addressed likelihood.
6 We're back to the word safe which is an undefined
7 term.

8 BY MR. SALES:

9 Q. Okay. Go ahead.

10 A. Your question was whether there were levels that
11 were unlikely to cause disease and the answer is
12 yes. That's what the PELs and RELs and TLVs are
13 about. They are very unlikely to be associated
14 with any risk of disease. The only way you can
15 come to any assessment of risk of disease at those
16 low exposure levels is by extrapolating well below
17 the observed data using a theoretical model to
18 estimate risks that are so low they can't be
19 measured.

20 Q. Flipping that though to the question I have just
21 asked, and that is, do either OSHA, NIOSH or AC --
22 ACGIH in setting the TLVs or PELs state that those
23 are safe levels of exposure with regard to
24 development of cancer?

25 A. Well, we would have to go back through all of the

1 testimony leading up to the OSHA benzene standard
2 and all the challenges to that standard.

3 Q. Is your answer that you don't know?

4 MR. CARR: Hang on. Let him finish his
5 answer, please.

6 BY MR. SALES:

7 Q. Okay.

8 A. The answer is there is a very large mass of
9 published material and public record that is
10 directly relevant to answering your question and I
11 have not memorized it. As to what it says
12 explicitly I don't know. It was clearly evident
13 in the setting of the PEL and the REL and the TLV
14 that those entities felt that those were
15 reasonably safe levels in, in the work setting.

16 Q. In what way did you evaluate Mr. Quillan's
17 exposure to Safety-Kleen to conclude that it was
18 insufficient to be a substantial factor in causing
19 his myelodysplastic syndrome?

20 A. Well, the, the first and most important way was to
21 look at the information I was provided about the
22 benzene content of the Safety-Kleen and the
23 benzene content was extremely low. Down, I don't
24 recall all of the numbers, but less than a part
25 per million.

1 So issue number one is Mr. Quillan was
2 potentially exposed to vapors from a petroleum
3 distillate that had extremely low levels of
4 benzene at most in it; and given my background in
5 occupational medicine and public health and
6 chemical engineering, it seemed implausible to me
7 that he could have had any substantial exposure to
8 benzene.

9 The second line of reasoning comes from
10 looking at the epidemiologic literature in the
11 scientific publications to see whether people who
12 did jobs such as Mr. Quillan's are known or have
13 been shown to be at increased risk of
14 myelodysplastic syndrome and they have not.

15 And so there's simply neither scientific
16 support for a belief that exposure to Safety-Kleen
17 or materials like it, such as mineral spirits, are
18 associated with increased risk of myelodysplastic
19 syndrome; and there is good reason to think that
20 the materials he handled contained such small
21 amounts of benzene or no benzene at all that one
22 could measure that there was not any plausible
23 exposure scenario in which he could be exposed at
24 the levels that are known to cause damage to the
25 bone marrow leading to leukemia and pre-malignant

1 conditions such as myelodysplastic syndrome.

2 MR. CARR: Ken, can you stop for one
3 second. Will you read back the last question?

4 (The last questions is read back: In
5 what way did you evaluate Mr. Quillan's
6 exposure to Safety-Kleen to conclude
7 that it was insufficient to be a
8 substantial factor in causing his
9 myelodysplastic syndrome?)

10 THE WITNESS: And then the last part of
11 my answer would be I've also relied upon the
12 report of John Spencer, which I believe clearly
13 substantiates that his exposure, that
14 Mr. Quillan's exposures were extremely low, if
15 any.

16 BY MR. SALES:

17 Q. In looking at Mr. Quillan's exposure to
18 Safety-Kleen, did you do any attempt to study the
19 release of benzene in the Safety-Kleen product?

20 A. What do you mean by study the release of benzene?

21 Q. Do any study, get the Safety-Kleen product, try to
22 study how it might release benzene, to what extent
23 it might release benzene?

24 A. Do you mean did I do a laboratory study or
25 simulation?

- 1 Q. Yes, sir.
- 2 A. No.
- 3 Q. Did you ask anybody to do it?
- 4 A. Well, I believe such studies have been done. I
- 5 believe Mr. Spencer has done such studies. I
- 6 believe another group at ChemRisk has done such
- 7 studies and they're in the published literature.
- 8 Q. Do you consider ChemRisk to be an independent and
- 9 reliable source of studies?
- 10 A. Well, the work I'm referring to is published in
- 11 the peer-reviewed literature. I believe that it
- 12 is peer reviewed and is reliable.
- 13 Q. Do you believe that ChemRisk is a company that
- 14 does independent studies that can be relied upon
- 15 as objective studies regardless of whether they
- 16 are in the peer-reviewed literature or not?
- 17 A. To the extent that I know ChemRisk, I am aware
- 18 that they do scientific research and they publish
- 19 it in the peer-reviewed literature like everyone
- 20 else and it undergoes the same standards of
- 21 scrutiny and I believe it's reliable.
- 22 Q. How do you know ChemRisk?
- 23 A. I am aware of the publications that have come from
- 24 ChemRisk that are in the peer-reviewed literature.
- 25 I also know some of their scientists. I can think

1 of two of them who were trained in public health
2 at the University of Michigan, I knew them as
3 graduate students, and I know Dr. Paustenbach who
4 is the president of ChemRisk.

5 Q. How do you know Dr. Paustenbach?

6 A. I have met him.

7 Q. How often?

8 A. Oh, I probably met him six to eight times.

9 Q. Have you been to any conferences where he has
10 talked?

11 A. I was at a conference in 2005, the American
12 Industrial Hygiene Conference, where he was the
13 moderator of a session in which I spoke.

14 Q. What was that session in?

15 A. It had to do with cancer risk related to asbestos.

16 Q. Was that -- did that deal with brakes as well?

17 A. I gave a talk on brakes and the Meta-analysis that
18 I did with some of my colleagues.

19 Q. Have you worked with Dr. Paustenbach in any other
20 capacity?

21 A. No. And I'm not sure what capacity you're
22 referring to other than he moderated a scientific
23 session in which I was a speaker.

24 Q. Who else do you know at ChemRisk?

25 A. Well, I said two of their employees did their

1 graduate study at the University of Michigan.

2 Q. They were who?

3 A. Let's see. I believe, boy, I'm not sure I can do
4 it from memory. I think it was Kara Franke but
5 I'm not sure that's right. And the other was
6 Dana, and I can't recall her name, but she got
7 married and changed her name which is why I'm
8 having trouble with her name now. Anyway, I will
9 think of it.

10 Q. Okay. Anyone else with ChemRisk that you know?

11 A. I have met some of their scientists in various
12 scientific settings.

13 Q. Do you know with regard to any work that they've
14 done involving myelodysplastic syndromes or
15 benzene who has funded their research?

16 A. I do not know their work in myelodysplastic
17 syndrome. So I have no knowledge of that. With
18 respect to benzene the only work I'm aware of is
19 some of the exposure reconstruction and simulation
20 studies they've done and I don't know who funded
21 that.

22 Q. Do you know whether ChemRisk and Dr. Paustenbach
23 and his associates have provided regular testimony
24 to industry in toxic exposures cases?

25 A. I don't know the history of ChemRisk and

1 Dr. Paustenbach.

2 Q. So you have no idea to what extent they may
3 provide testimony to the industry in toxic
4 exposure cases?

5 A. I believe that Dr. Paustenbach has testified on
6 behalf of industry but I don't know the extent of
7 it.

8 Q. Okay. Any of the other people in the company, do
9 you know to what extent that company regularly
10 provides testimony to industry in toxic exposure
11 cases?

12 A. I do not. The -- one of the women who we trained,
13 her married name now is Dana Hollands, but I can't
14 remember her previous name.

15 Q. Did you talk to anyone at Safety-Kleen regarding
16 whether or not the company has done any internal
17 studies of whether their product may contribute to
18 the cause of myelodysplastic syndromes?

19 A. No.

20 Q. Did you ask them whether they ever had any claims
21 from other people regarding whether or not they --
22 their Safety-Kleen product has contributed to the
23 cause of myelodysplastic type syndromes?

24 A. No. So you're asking did I ask them about their
25 litigation history?

1 Q. Sure.

2 A. No. I didn't ask them about that.

3 Q. Okay. Why didn't you?

4 A. Because I don't think it's relevant to whether
5 Mr. Quillan's claim has a scientific basis or not.

6 Q. Why didn't you ask them whether they had done any
7 internal studies of the potential release of
8 benzene from their Safety-Kleen product?

9 A. My review of this issue is based on the
10 peer-reviewed scientific literature which I think
11 I have reviewed carefully and thoroughly. If
12 Safety-Kleen has done any work, it's in the
13 peer-reviewed literature; or funded any work, it's
14 in the peer-reviewed literature regarding the
15 risks of myelodysplastic syndrome. I think I
16 would have seen it. And it's not in the
17 peer-reviewed literature. I would be cautious
18 about using it as a foundation for my opinion as
19 to whether their product causes myelodysplastic
20 syndrome.

21 Q. You don't know one way or the other whether
22 Safety-Kleen has attempted to determine to what
23 extent benzene may be released from the use of
24 Safety-Kleen in the normal workplace?

25 A. I do not know what work they may have done in that

1 area.

2 Q. I'm still, and it's probably my fault, I'm just
3 not understanding. To what extent did you attempt
4 to quantify Mr. Quillan's exposure to
5 Safety-Kleen?

6 A. I didn't attempt to quantify his exposure. John
7 Spencer quantified his exposure.

8 Q. So you're totally relying on Mr. Spencer's report
9 in that regard?

10 MR. CARR: For the record we just
11 finished I believe it's Dr. Ellenbecker's
12 deposition which has been sent to Dr. Garabrant.
13 He's not had an opportunity to review it given
14 that it was just completed a day or two ago, but
15 I'm going to ask him to look at that as well.

16 MR. SALES: Okay.

17 MR. CARR: He hasn't had an opportunity
18 to formulate an opinion on it.

19 BY MR. SALES:

20 Q. I understand but I'm here today to take your
21 deposition about your opinion. You've already got
22 an opinion, correct?

23 A. I have an opinion regarding the relationship
24 between Mr. Quillan's alleged exposure to
25 Safety-Kleen and benzene that may have been

1 present in that product in the causation of his
2 myelodysplastic syndrome.

3 Q. And to the extent that it is been quantified that
4 exposure to Safety-Kleen of the benzene and
5 Safety-Kleen has been quantified, you're opinion
6 relies on Mr. Spencer's report, correct?

7 A. Yes. I have also read Dr. Ellenbecker's initial
8 report which did not quantify it and his new
9 report which sought to quantify it.

10 Q. And you haven't relied or accepted his conclusions
11 I take it?

12 A. I have not.

13 Q. Okay. You disagree with Dr. Ellenbecker's
14 conclusion?

15 A. I think Dr. Spencer's report provides a more
16 reliable basis for estimating Mr. Quillan's
17 exposure but I haven't seen Dr. Ellenbecker's
18 deposition testimony so I have to look at that
19 before I can see how he justifies the decisions he
20 made in writing his report.

21 Q. In what way do you find the Spencer report more
22 reliable or how, how does that make you disagree
23 with Dr. Ellenbecker's evaluation?

24 A. All right. First, in Dr. Ellenbecker's report
25 dated November 25, 2008 Dr. Ellenbecker made

1 absolutely no quantitative estimate of
2 Mr. Quillan's exposure, which I regard as
3 extremely odd for a doctoral-trained industrial
4 hygienist, that he couldn't come up with any
5 quantification, any range, nothing. That's odd.
6 Okay. So that's, that's a deficiency that
7 surprised me.

8 In contrast, Dr. Mr. Spencer went
9 systematically through the physical properties of
10 the benzene and 150 Premium Solvent supplied by
11 Safety-Kleen. He talked carefully about the
12 possibility that waste materials contaminated the
13 Safety-Kleen. He talked about the benzene content
14 of the Safety-Kleen product that was at or below .4
15 milligrams per liter. He talked about the
16 published studies that have tried to estimate
17 exposures, benzene exposures from mineral spirits
18 such as Safety-Kleen's solvents, and he discussed
19 them in detail. He applied what was demonstrated
20 from those peer-reviewed published studies to the
21 setting of 150 Solvent in a manner that I found to
22 be reliable. And he then used those estimates to
23 make an assessment of Mr. Quillan's likely benzene
24 exposure. Dr. Ellenbecker did none of those
25 things in his initial report. So I didn't find it

1 to be a reliable report.

2 Q. Is it your opinion then in order to relate disease
3 to toxic exposure that from an epidemiological
4 standpoint one must exactly quantify the exposure?

5 A. No. But you can't do it knowing nothing about the
6 exposure.

7 Q. And it's your opinion that based on the material
8 provided -- strike that.

9 I'm trying to understand what you mean
10 by knowing nothing about the exposure.

11 A. Dr. Ellenbecker's report essentially indicates
12 nothing about the exposure. Absolutely nothing.

13 Q. If you were to design an epidemiological study
14 regarding benzene exposure in the development of
15 myelodysplastic syndromes, how would you do it?

16 A. Well, I think it's already been done. I think
17 that there are a number of studies that have been
18 conducted and published that have tried to look
19 for the relationship between solvent exposure and
20 benzene exposure and risk of myelodysplastic
21 syndrome. We could just look at those studies and
22 see how they were done.

23 Q. Well, my question to you is how would you design
24 such an epidemiological study?

25 A. I would probably use a case control design and try

1 to reconstruct people's past exposures.

2 Q. And you believe that they needed -- they would
3 need to be rather exactly quantified when you say
4 case control?

5 MR. CARR: Objection. Vague.

6 THE WITNESS: I don't understand your
7 question.

8 BY MR. SALES:

9 Q. Well, explain to me what you mean by case control
10 and, and try to quantify. That's the terminology
11 you used. What do you mean by that?

12 A. A case control study is one in which you have
13 access to a population of people who have the
14 disease of interest, in this instance
15 myelodysplastic syndrome. And then you define the
16 source population from which those cases arose.
17 And then you choose people from the source
18 population who are representative of that source
19 population. You then reconstruct the various
20 factors of interest for both the cases and
21 controls and compare them. And comparison is
22 typically done by calculating exposure odds among
23 the cases and exposure odds among the controls and
24 then taking an exposure odds ratio. And then
25 assessing the role of chance by calculating a

1 ninety-five percent confidence interval around the
2 odds ratio.

3 Q. So, for example, you might take a group of people
4 who had known exposures to solvents containing
5 benzene and compared to a group of people who
6 for -- you could not identify exposure and see
7 whether they had increased risk of developing
8 disease?

9 A. Are you talking about case control studies?

10 Q. Yes, sir.

11 A. No.

12 Q. That's a cohort, is it not?

13 A. I'm not sure what you have designed but it's not a
14 case controlled study.

15 Q. Okay. The, the case control study that you've
16 just talked about, give me a little more precision
17 in who would be in what group in that case
18 control.

19 MR. CARR: Objection. Vague.

20 THE WITNESS: I've already answered
21 that. The people with myelodysplastic syndrome
22 would be the cases.

23 BY MR. SALES:

24 Q. Right.

25 A. And the people who were representative of the

1 source population from which the cases arose would
2 be the controls.

3 Q. All right. I see what you're saying.

4 That's one way of doing an
5 epidemiological study?

6 A. Case control studies are one way that we do
7 epidemiology studies.

8 Q. Okay. And there are other ways to do
9 epidemiological studies?

10 A. There are.

11 Q. I guess the largest example or most well-studied,
12 for instance, is asbestos. Where cohorts have
13 been examined, groups of people, to see whether
14 they have increased disease levels as opposed to
15 the nonexposed or a general population.

16 A. What's your question?

17 Q. Well, there are, there are other -- let me go in a
18 different direction.

19 You said there had been, or I may have
20 missed speak, you said there have been sufficient
21 studies to date regarding benzene exposure in
22 solvents and myelodysplastic syndromes to come to
23 conclusions?

24 A. I don't, I don't believe I said that.

25 Q. Okay. I may have misunderstood you. Okay.

1 MR. CARR: Ken, sometime in the next
2 five minutes, we have been going about an hour,
3 can we take a break?

4 MR. SALES: Okay. Take a break. Go
5 ahead.

6 VIDEOGRAPHER: We're going off the
7 record. The time is 12:23 and 5 seconds p.m.

8 VIDEOGRAPHER: We're back on the record.
9 This is the beginning of tape three. The time is
10 12:34 and 34 seconds p.m.

11 BY MR. SALES:

12 Q. Getting back to the epidemiological studies and
13 the studies that have been done, there's never
14 been a study published in the literature regarding
15 exposure to the Safety-Kleen product, has there?

16 A. I'm not aware of one.

17 Q. And one way to do that, for instance, to do a
18 epidemiological study of like Safety-Kleen or
19 another benzene-containing product would be to
20 identify a group that's exposed to Safety-Kleen on
21 a regular basis in their work, correct?

22 A. Well, I'm not sure what epidemiology study you're
23 trying to design. There are lots of ideas you can
24 think of theoretically that cannot be done
25 practically. So it's pretty easy to come up with

1 theoretical ideas for how to do studies. It's
2 much harder to actually do them.

3 Q. Well, let me, let me analogize so I can -- maybe
4 we can get on the same plane here.

5 With regards to say asbestos, some of
6 the earlier studies or say the silica studies
7 involved looking at asbestos workers, like the
8 seventeen thousand asbestos workers in the
9 asbestos workers' union.

10 A. Are you talking about the insulators?

11 Q. Yeah. They were in the asbestos workers' union.
12 So he looked at a group of seventeen some odd
13 thousand insulators and followed them over a
14 period of years, which as I understand the study,
15 he's still continuing to watch that group of
16 people to see what levels of disease they had as
17 compared to the general population.

18 But one, one way to do this would be to
19 look at individuals such as Mr. Quillan who worked
20 regularly in their occupation around Safety-Kleen
21 or other similar products, correct?

22 MR. CARR: Objection. Side bar. Vague.

23 THE WITNESS: How would you do that?

24 BY MR. SALES:

25 Q. How would you look at asbestos workers?

1 A. You got a union.

2 Q. Well, I understand.

3 A. They are union members.

4 Q. Well, I mean I don't have to be an epidemiologist
5 but you could certainly look around the country
6 for -- for instance, you could go to Safety-Kleen,
7 you could say to Safety-Kleen who do you provide
8 your products to? And if Safety-Kleen wanted to
9 do such a study, they could go to their, their end
10 users and say, gee, who uses our products in your
11 shop, and we want to set up a study of people who
12 use our products on a regular basis in their
13 occupation. You could do that, couldn't you?

14 A. In my experience, and I've been doing epidemiology
15 studies for thirty years --

16 Q. Uh-huh.

17 A. -- it would be extremely difficult for a chemical
18 supplier to go out to purchasers of their products
19 and to get them to participate in a large
20 epidemiology study. It's very difficult to do.

21 Q. Well, regardless though, a viable way of doing a
22 study of, for instance, of exposure to say
23 Safety-Kleen would be for the company that
24 manufactured it to go to its customers and say we
25 would like to look at your workers who use

1 Safety-Kleen on a regular basis and study them
2 over a period of years. I mean that's one way to
3 put together the cohort whether it's, whether it's
4 difficult or not, that would be one way to do it,
5 wouldn't it?

6 A. Well, you just said's that's a viable. That's
7 your opinion, that's not mine.

8 Q. Well --

9 A. You're designing the study. I'm not. I don't
10 think that that works. I've been doing
11 epidemiology for thirty years.

12 Q. Well, wouldn't you want to identify a cohort of
13 people whose only exposure was to say the
14 Safety-Kleen product from using it on a daily
15 basis and then to follow that cohort over a
16 sufficient period of time?

17 A. Well, there is a premise to your question,
18 wouldn't I want to?

19 Q. Yeah.

20 A. I wouldn't undertake any epidemiologic study
21 unless there was a clear reason that it needed to
22 be done and there is no clear reason.

23 Q. Well, when you say there is no clear reason, I
24 asked you earlier whether you had asked the people
25 at Safety-Kleen whether they had had reported to

them numbers of people, whether by litigation or otherwise, that had come down with myeloplastic -- myelodysplastic syndromes and you said no. What if they have a large number of people, through litigation or otherwise, coming to them and saying we're developing myelodysplastic syndromes after working with Safety-Kleen. Wouldn't that be a reason to want a study to see whether it caused those conditions or had no cause?

A. Well, what that would mean is there is a lot of people making allegations and suing them. That doesn't necessarily mean there's any scientific evidence to support those allegations, and I think that Safety-Kleen, if I were in their shoes, I would look carefully at what it is these people are alleging and whether it had any scientific plausibility before I would undertake a study. And if the allegations such as in this case are that benzene in Safety-Kleen is causing myelodysplastic syndrome, I would look at the benzene concentrations, which of course Safety-Kleen has done, and this product is down below .4 milligrams per cubic meter which is extremely low.

And then I would look to the scientific

1 literature and see whether there was any support
2 for the premise that trace benzene such as .4
3 milligrams per cubic meter and below would put
4 people at increased risk of myelodysplastic
5 syndrome or leukemia or other lymphohematopoietic
6 diseases. And the answer there is no literature
7 to support that.

8 Benzene has been studied hundreds and
9 hundreds of times. There are dozens of
10 epidemiologic studies that have looked at risks of
11 hematologic diseases among benzene-exposed cohorts
12 and there is no support for the premise that
13 exposures such as might occur from Safety-Kleen
14 would put people at increased risk of those
15 diseases.

16 Q. Well, that's the whole point though. If you're
17 having a large number of people who are exposed to
18 Safety-Kleen without being -- having other
19 significant exposures to products that contain
20 benzene develop myelodysplastic syndromes and you
21 wanted to design an epidemiological study, the way
22 to do it would be to look at those users of
23 Safety-Kleen and follow them over a long period of
24 time to see whether they had increased development
25 of myelodysplastic syndromes as opposed to those

1 who weren't exposed to Safety-Kleen, wouldn't you?

2 A. What, what is the basis for the claim that there
3 were large numbers of people developing
4 myelodysplastic syndrome?

5 Q. I was asking you theoretically. I'm not -- 'cause
6 you told me you haven't talked to Safety-Kleen
7 about it. For all you know they have large
8 numbers or they don't. I mean what I know and
9 what you know may be two different things.

10 My question is theoretically I'm asking
11 you to assume that there is a number of potential
12 or people claiming, whether it's by litigation or
13 otherwise, I mean litigation is just one way that
14 you might know that you have a product that's
15 causing injury, you may believe it is totally
16 wrong but if you wanted to design an epidemiologic
17 study to discount whether your product was a
18 contributor to that condition, in this case
19 myelodysplastic syndromes, wouldn't the best way
20 to do it is to put together a group of people who
21 use the product and follow them over a period of
22 years to see whether they had increased numbers?

23 MR. CARR: Objection. It assumes facts
24 not in evidence.

25 THE WITNESS: Your, your question --

1 MR. CARR: Excuse me. Hang on a second.

2 THE WITNESS: Your question --

3 MR. CARR: Excuse me. Hang on a second.

4 THE WITNESS: Sorry.

5 MR. CARR: It's an incomplete
6 hypothetical and it is vague. That's it.

7 BY MR. SALES:

8 Q. Go ahead.

9 A. Your question has a premise that is simply not
10 known to be true. Okay.

11 Q. I'm asking you to assume it, and I'm asking you to
12 tell me whether or not it would be appropriate,
13 assuming that there were -- I wanted to develop an
14 epidemiological study to disprove specifically
15 that Safety-Kleen and the amount of benzene
16 contained therein could contribute to the cause of
17 myelodysplastic syndromes. Wouldn't it be
18 appropriate to study a group of those people
19 working around the product for a number of years
20 and determine whether they had any increased
21 numbers?

22 MR. CARR: Same objections.

23 THE WITNESS: Your question is loaded
24 with premises that show a complete lack of
25 understanding for the scientific process. Okay.

1 First off, your premise that a study can prove the
2 null hypothesis. That's contrary to scientific
3 methods. The idea that you can prove that a
4 chemical doesn't cause something, that is contrary
5 to what scientists do.

6 We, we pose hypotheses that chemicals do
7 cause something. We then seek to prove them. If
8 we can't prove them, then we say there is no proof
9 that that chemical causes it.

10 BY MR. SALES:

11 Q. That's fair enough.

12 A. We don't, we don't say I'm going to prove it can't
13 cause it because it can't be done.

14 Q. That's fair enough.

15 A. So that premise is simply wrong.

16 But more fundamentally than that, your
17 premise that something should be done in the
18 complete absence of evidence that there is
19 anything going on is fundamentally not how
20 scientists function. We follow up leads. We
21 follow up plausible hypothesis. What you're
22 proposing I think is that any time a company is
23 informed that somebody is suspicious that
24 something is happening, they should do an
25 epidemiologic study; and my experience as a

1 practicing epidemiologist, and I have spent my
2 career designing and conducting the studies that
3 look for cancer risks related to chemicals, is
4 that if we did what you're proposing we would
5 spend countless hours pursuing false leads to no
6 benefit.

7 I'll give you an analogy. Early in the
8 20th Century there were a substantial number of
9 case reports of women who had received trauma to
10 their breast and very soon afterward were
11 diagnosed with breast cancer and believed that the
12 trauma, such as falling down on a street car and
13 bruising themselves or bumping into the handrail,
14 was the cause of their breast cancer.

15 If you were to pursue that simply
16 because of those allegations, the street car
17 companies would have been in the position of doing
18 a substantial amount of absolute fruitless work
19 pursuing leads that were in fact nonsense, really
20 not biologically plausible, and that with
21 subsequent investigation prove to have no
22 scientific foundation at all.

23 So your idea that any time there is an
24 allegation a company should do an epidemiology
25 study really has no precedent and I think is

1 simply nonsensical. Could be a waste of
2 resources. There has to be plausible, a plausible
3 scenario under which you think that this effect
4 could be related to your product before you should
5 try to undertake anything as expensive, difficult
6 and complicated as doing an epidemiology study.

7 Q. Doctor, I'm going to show you Exhibits 6A and 6B.
8 These are your statements in this case I believe.

9 A. Yes.

10 Q. Okay. Are -- is this your entire billing to date?

11 A. I believe it is.

12 Q. Do you plan to do more work on this case?

13 A. If I'm asked to.

14 Q. And your billing rate is what?

15 A. Six hundred and twenty-five dollars an hour.

16 Q. And does that change if you are in court?

17 A. No.

18 Q. So it's six hundred and twenty-five no matter what
19 you do?

20 A. Yes.

21 Q. Okay. Do you have minimums?

22 A. No.

23 Q. So I guess I'm paying for this deposition today.

24 I'm not paying for the whole day?

25 A. No. You're paying --

1 Q. For the number of hours?

2 A. For the number of hours we spend.

3 Q. Down to the minute?

4 A. I usually do it to the nearest tenth of an hour.

5 Q. I'll live with that.

6 MR. CARR: So you pay for our depos --

7 MR. SALES: Oh, I don't know.

8 MR. CARR: -- in the jurisdiction? We
9 haven't talked about it but I will not take what
10 you just said as an admission. How about that?

11 MR. SALES: It's a mixed bag.

12 MR. CARR: Okay.

13 MR. SALES: Lot of times we pay, you
14 pay. It mixes.

15 MR. CARR: There's not been any
16 discussion of that one way or other?

17 MR. SALES: No. I'm not worried about
18 it one way or the other. It's not like anybody is
19 cheating. I'm not.

20 BY MR. SALES:

21 Q. How much -- let's say in the past five years would
22 you estimate your -- out of your total income what
23 percentage would be related to litigation-oriented
24 work such as what we are doing here today?

25 A. I don't know that I have an exact number. It's

1 more than half.

2 Q. Okay. Would it be more than seventy percent?

3 A. I don't think so.

4 Q. Sixty percent?

5 A. That I couldn't say.

6 Q. All right. So somewhere between fifty and seventy

7 percent?

8 A. I would think that's reasonable, yeah.

9 Q. Okay. In the year 2009, for instance, do you know

10 what your income was from litigation-related

11 sources?

12 A. I do not. I do not know.

13 Q. Do you know how many hours you may have worked

14 doing litigation related material in the year

15 2009?

16 A. That's roughly the same question as what my income

17 was and the answer is I don't know.

18 Q. How do you provide that information to your -- I

19 assume you're using an accountant to do your tax

20 returns?

21 A. I do.

22 Q. Yeah. And so you have to provide that

23 information, how do you do that?

24 A. Are my tax returns fair game in the deposition? I

25 wasn't aware.

1 MR. CARR: My, my -- well, first of all,
2 it's your tax returns. No request has been made
3 for them.

4 MR. SALES: I haven't asked for them.

5 MR. CARR: Right. So I don't think he's
6 asking you to give him your tax returns. I think
7 he's asking is there a method by which you report
8 money you've made consulting in cases to your CPA
9 and that seems like a simple yes or no question to
10 me.

11 THE WITNESS: Yes. I, I report my
12 income to my accountant.

13 BY MR. SALES:

14 Q. Okay. So you will get a statement from say the
15 university who sends you whatever they might send,
16 a 1099 or W-2, I don't know how that might work
17 for you. You probably have a separate medical
18 practice I would assume. Right or wrong? I mean
19 the doctors I work with who use -- who work with
20 universities, they are with the university, and
21 then they have their separate practice and
22 sometimes the university has it all. I don't know
23 how yours works but you will get some sort of
24 statement from those entities, right?

25 A. I will, I will get a statement from the University

1 of Michigan.

2 Q. Okay. All right. And then you have, you have
3 your litigation work. Is that under, for
4 instance -- well, that goes to -- with the PLLC, I
5 guess is this your private medical practice?

6 A. That is my private company.

7 Q. Okay. It's, it's not -- well, it's a professional
8 limited liability corporation. Is it, is it meant
9 to be your medical practice or is this a company
10 devoted to the litigation area?

11 A. That is my private limited liability corporation.

12 Q. Okay. And is that devoted to litigation?

13 A. No. It is -- first off, my medical practice is
14 entirely through the University of Michigan.

15 Q. Fair enough. Okay. So the PLLC then, of the
16 income it gets, is that -- how much of that is
17 related to litigation-related materials, matters
18 such as this?

19 A. The majority of it.

20 Q. Okay. So then does that, does that company report
21 to you every year what your income from that would
22 be?

23 MR. CARR: Objection. Vague.

24 THE WITNESS: It's hard to say. The
25 company is me. I mean it's --

1 BY MR. SALES:

2 Q. Well, it has to generate some sort of report of
3 income. I mean you get a K-1, do you not?

4 A. No.

5 Q. Okay. Your accountant doesn't prepare a K-1 for
6 you?

7 A. No.

8 Q. Okay. Well, I guess what I'm trying to figure
9 out, for instance, in the last year we can
10 probably agree that a hundred percent of the
11 litigation work you did was on behalf of
12 defendants in litigation, correct?

13 A. Yes.

14 Q. Okay. What I'd like to know is what income you
15 derived from that litigation work in the past
16 year?

17 A. Okay. You've already asked me the percent of my
18 income.

19 Q. Yeah.

20 A. And I've answered that.

21 Q. Right.

22 A. Okay. Now, if you want the amount, then that goes
23 to revealing my personal tax return which --

24 Q. Actually I'm not asking for your personal tax
25 return.

1 A. But you're getting --

2 Q. I might be able to but I'm not.

3 A. You're getting the percent and the amount, so it's
4 essentially the same. I've given you the percent.

5 Q. Well, I understand, what I would like to know, and
6 if you would, I would like for you to produce to
7 me whatever income in the year 2009 that you or
8 your company made from litigation-oriented work.

9 MR. CARR: Okay. We will consider that
10 a formal request.

11 MR. SALES: Sure.

12 MR. CARR: We'll respond to it.

13 MR. SALES: Sure.

14 MR. CARR: So you understand he has made
15 a formal request. You need not agree or not agree
16 right now. We will consider it.

17 MR. SALES: Right.

18 MR. CARR: And, you know, obviously to
19 the extent that I'm observing, Dr. Garabrant may
20 not be interested in that, and we need to talk the
21 judge about it, we will do that.

22 MR. SALES: I understand.

23 MR. CARR: Okay.

24 BY MR. SALES:

25 Q. Okay. Do you know how many cases that you worked

1 on in the year 2009?

2 A. I do not by number. I would estimate that I
3 probably worked on a couple of dozen.

4 Q. Okay.

5 A. And what -- it's a little bit difficult because I
6 have things, for example, the Quillan case where I
7 did work in the winter and then nothing happened
8 until just recently. So it was sort of dormant
9 for almost a year or nine months, and there, there
10 are things that I'm asked to do. Something --
11 nothing happens for a year or two years --

12 Q. Sure.

13 A. -- or three years and then someone says we need
14 you to look at these materials so.

15 Q. Well, for instance, these Exhibits 6A and B, do
16 you have like an -- in order to generate your
17 statements to clients in litigation, do you have a
18 piece of software that you use to collect and to
19 send that statement to put it together?

20 A. I use Microsoft Word.

21 Q. Okay. So you just, you just put it on a -- I mean
22 you don't have like an accounting program that you
23 use?

24 A. No.

25 Q. Okay. Or a billing program of some kind?

1 A. No.

2 Q. A dedicated billing. So what you do is you just
3 add the file and you figure out how much time you
4 worked on a particular day and then you -- how
5 much time you worked on a particular day and you
6 write, you write it down and you send a bill?

7 A. That's correct.

8 Q. Okay. Fair enough. During a normal work week how
9 many hours a week do you think you would spend on
10 litigation-related matters as opposed to your
11 other work as a physician?

12 A. It varies.

13 Q. Okay. Well, would, and this may be different
14 than, than -- I asked you a question, you know,
15 how much percentage of your income is to
16 litigation as opposed to your physician-related
17 work. It may be different though in terms of time
18 because they don't always correlate. I understand
19 that.

20 In terms of the time that you worked
21 during a week, do you spend more than fifty
22 percent of your time on litigation or less than
23 fifty percent of your time on litigation?

24 A. Less.

25 Q. Okay. What percentage of your work week would you

1 spend on litigation?

2 A. It varies.

3 Q. On the average, say in a year how much? Of the
4 total time you work in a year, how much of your
5 time would be spent on litigation as opposed to
6 non-litigation-related work?

7 A. It could be thirty, thirty-five percent.

8 Q. Okay. And what's your normal work week on the
9 average?

10 A. My normal work week?

11 Q. Yeah. I mean is it forty, fifty, sixty hours;
12 what is it?

13 A. My wife and I have a difference of opinion on
14 that.

15 Q. Mine don't. I'm always gone.

16 A. I get up in the morning I go to work, you know,
17 often 8:30, 9, sometimes 10, sometimes I work at
18 home in the morning. Often if I have consulting
19 work that had to be done that day, I will work at
20 home in the morning, go down to the university,
21 work usually 'til 6 or 7 at night, come home.
22 Some nights I have to get stuff done either for
23 the university or for consulting work and then I
24 work most weekends at least one day.

25 Q. So do you think you put in a sixty hour on average

1 work week or fifty on average work week?

2 A. It's not sixty. I don't think so.

3 Q. Okay. Would fifty be more likely?

4 A. It's, it's probably fifty-ish, yeah.

5 Q. Okay. And hopefully since we're in the same
6 geographical, geological and timeframe in this
7 jury, you get at least a month off every year,
8 don't you? Or if you are like most physicians I
9 know you travel and speak?

10 A. You know, it varies.

11 Q. Yeah.

12 A. I find that I end up working on vacation. I take
13 my laptop. You can't, you can't be away for long
14 anymore.

15 Q. But do you get, I mean in all fairness, Doctor,
16 I'm trying to do an analysis of your income and
17 that's what I'm doing. In all fairness to you, I
18 mean at your point in your career, and I don't
19 mean that you're older because I'm not, at your
20 point in your career you should have certain, I
21 don't know if perks is the right thing, but at
22 your level in the university and where you are,
23 you should I would assume there's at least a few
24 weeks a year you get to enjoy without the total
25 dedication to your work?

1 A. I take vacation.

2 Q. Okay. All right. We don't need to quibble over
3 that. Give me five minutes and I will let you
4 know. I think I may be done.

5 MR. CARR: Sure.

6 VIDEOGRAPHER: We're going off the
7 record. The time is 1:00 and 24 seconds p.m.

8 VIDEOGRAPHER: We're back on the record.
9 The time is 1:06 and 36 seconds p.m.

10 MR. SALES: Doctor, have you -- would
11 that be helpful?

12 VIDEOGRAPHER: Yes.

13 BY MR. SALES:

14 Q. Doctor, have you done any work with the
15 Safety-Kleen people or any of their counsel
16 previously?

17 A. I think I have assisted them in a small number of
18 litigation matters in the past.

19 Q. And in what way?

20 A. I think I've been an expert witness regarding
21 Safety-Kleen.

22 Q. Okay. I didn't see their name on the list that I
23 had, and you didn't tell me -- I don't mean this
24 in a bad way, but you didn't tell me that you had
25 been involved in cases since 2008 involving

1 Safety-Kleen, so I would assume that that predates
2 the list or predates that four years?

3 A. You know, to the best of my recollection, I think
4 I may have been an expert in a case in which
5 Safety-Kleen was a defendant. Whether I was
6 retained by Safety-Kleen or not, I actually don't
7 recall.

8 Q. Was this a case involving whether or not someone
9 had developed a myelodysplastic syndrome as a
10 result of exposure to benzene?

11 A. I'm not sure I remember any specific case. And to
12 be honest I don't -- I think I have been involved
13 in another case or small number of cases in which
14 Safety-Kleen was a defendant. I might have been
15 retained by them. I honestly don't know.

16 Q. How many years ago would this have been?

17 A. More than, more than four or five. I simply don't
18 know.

19 Q. Okay.

20 A. So I guess, I guess my answer is I think I might
21 have. I don't know.

22 Q. Your working with the law firm -- or I assume that
23 the law firm retained or contacted you in this
24 case?

25 A. Yes.

1 Q. First? It wasn't someone from Safety-Kleen?

2 A. That's correct.

3 Q. All right. Have you worked with that law firm
4 previously?

5 A. I don't think so. I don't know.

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

7 A. I have no idea.

8 MR. SALES: Do you know whether, this is
9 a request to Safety-Kleen, and you're, you're
10 Safety-Kleen counsel.

11 Do you, do you -- would you provide, and
12 this is a formal request, any information
13 regarding Dr. Garabrant's prior work with
14 Safety-Kleen in any manner?

15 MR. CARR: I'll consider it a formal
16 request. To the extent that he has been retained,
17 hired or may be used as a consultant, I can tell
18 you the answer would be no. But I don't know of
19 any instances where that's the case. But I think
20 sitting here, Dr. Garabrant, I don't know if you
21 are talking about the Wolfe case. We were a
22 defendant in it but I don't remember if we
23 retained you or not.

24 THE WITNESS: I don't -- you know, to be
25 honest I don't know.

1 MR. CARR: Okay. Well, the answer is I
2 will consider your formal request and we will look
3 at it.

4 MR. SALES: Okay.

5 MR. CARR: Okay.

6 MR. SALES: Fair enough.

7 BY MR. SALES:

8 Q. Other than what you told me you have, you have no
9 recollection of being retained or working for
10 Safety-Kleen previously?

11 A. I've given you the best of my recollection.

12 Q. Okay. Do you plan on doing any more work on this
13 case?

14 A. Only if I'm asked to.

15 MR. CARR: And for the record, we have
16 sent him Dr. Rogers, Dr. Clapp, Dr. Ellenbecker.
17 We are going to ask him to review those
18 depositions and perhaps comment on both
19 methodology and conclusions. But those
20 depositions have been completed here in the past
21 three, four, five days, so that's --

22 MR. SALES: Doctor --

23 MR. CARR: -- not doable yet.

24 BY MR. SALES:

25 Q. I'm sorry. Doctor, I've -- we've gone over your

1 reports, your declaration, your affidavit and then
2 I've asked you a number of questions here in this
3 deposition; and I think we probably covered
4 between those documents and my questions all of
5 the opinions you may have relative to Mr. Quillan
6 and Safety-Kleen. Would you agree with that?

7 A. I don't think we discussed any of my opinions or
8 the basis for them. We certainly didn't discuss
9 any of the scientific literature.

10 Q. Well, when I -- what I said was your report, okay,
11 your affidavit, your declarations, correct? And
12 you provided me -- in addition, you provided me a
13 copy of scientific literature that you have relied
14 upon, correct?

15 A. Yes.

16 Q. Or you are?

17 A. Yes.

18 Q. Would that, would that -- I understand your
19 opinion, and I don't want to -- but that would,
20 that would be comprehensive of your opinions
21 regarding Mr. Quillan?

22 A. Well, as of the date on which these documents were
23 written, those would be comprehensive but there's
24 all these new supplemental reports from Dr. Clapp,
25 Dr. Ellenbecker, Dr. Rogers, new literature, their

1 deposition testimony. So I may have additional
2 opinions --

3 Q. I'm with you.

4 A. -- related to those documents.

5 Q. And I don't mean to interrupt. I'm with you. I'm
6 just trying to get us to today. Okay. And then I
7 will talk to you just briefly about tomorrow.

8 As of today between your affidavits and
9 I would assume that your report is a fairly, it is
10 a fairly detailed report that expresses your
11 opinions regarding Mr. Quillan and your evaluation
12 of Mr. Quillan, correct?

13 A. As of January of 2009.

14 Q. Right. And we're -- yes. A year ago. Okay. Is
15 there something that you've received in the
16 intervening year that adds to that report?

17 A. I have received the affidavits of John Spencer,
18 David Pyatt and various affidavits from
19 Dr. Ellenbecker, Dr. Clapp, Dr. Rogers.

20 I think the one thing that is even
21 clearer to me than it was year ago is that the
22 Plaintiff's experts actually have not method for
23 reaching a causal determination in this case.

24 Q. Okay.

25 A. Their opinions appear to be simply guesswork.

1 Q. Your report and your conclusions then have not
2 changed since you did your original report?

3 A. That's correct.

4 Q. All right.

5 MR. CARR: For the record since he is my
6 expert, you and I did discuss the fact the
7 Plaintiff's experts have injected differential
8 diagnosis into this case, and we have discussed
9 that topic. And for the record we still have
10 recently taken depositions that this expert's not
11 had an opportunity to digest yet. And there's
12 also upcoming depositions of treaters as well
13 where that issue may be discussed, and then we
14 will ask Dr. Garabrant to share his views with
15 that at trial but those issues were not in the
16 case when he reported.

17 BY MR. SALES:

18 Q. Okay. I appreciate that. But I -- and that's
19 what I'm trying to isolate because I'm trying to
20 get us to today and then I'll close out tomorrow
21 in some way.

22 At the time you did your original
23 report, for instance, you did not have
24 Mr. Spencer's evaluation?

25 A. I did not have his report.

1 Q. Okay. Had you spoken to him?

2 A. No.

3 Q. All right. So I assume that when you did your
4 original report, you made your original
5 conclusions, you had not relied on Mr. Spencer's
6 evaluation in this case?

7 A. I had not seen his report and I had not spoken
8 with him to the best of my recollection. I may
9 have asked whether he had an estimate of the
10 exposure range for Mr. Quillan related to benzene
11 because typically I need to have a sense for what
12 the exposure expert thinks the exposure range was.

13 I don't recall whether I received that
14 information from Mr. Carr and his colleagues but I
15 may have received that. To be honest I don't
16 remember.

17 Q. Okay. Well, I mean I'm just trying to understand.
18 If you didn't talk to him and you didn't have his
19 evaluation, and I didn't see anything in your
20 report about Mr. Spencer, is it fair to say I can
21 assume that when you reached your conclusions you,
22 you did not have anything from him?

23 A. No. I just answered that. I may well have had an
24 estimate of where he thought the exposure range
25 would fall.

1 Q. Where --

2 A. What typically happens in my experience is that I
3 have a deadline for my report and the exposure
4 expert has the same deadline for his or her
5 report, but I need to have a sense for what the
6 exposure estimate is. And so I often ask counsel
7 can you get a sense for where that's going to
8 fall? Is it a tenth of a part per million year,
9 ten parts per million year, a hundred parts per
10 million year, give me a sense for it. And that's
11 a difficult issue because often the exposure
12 expert is working on their calculations and report
13 simultaneously. But they often have a sense for,
14 well, it's going to be, you know, somewhere
15 between, you know, .1 and 2 or 2 and 5 or
16 whatever. So I often get a sense for where that
17 number is going to fall. I may have had that in
18 this case. To be honest I don't, I don't recall.

19 Q. You have not, you have not documented that
20 anywhere that you had --

21 A. No.

22 Q. -- that conversation?

23 A. No.

24 Q. So it's not in your report and no where in your
25 file would there be any documentation that you

1 ever had such a discussion with Mr. Spencer,
2 correct?

3 A. No.

4 Q. And you have no recollection of it as we sit here
5 today?

6 A. I do not have any specific recollection of --

7 Q. Okay.

8 A. -- of any such discussion.

9 Q. Okay. So then you may develop additional opinions
10 based upon other things that take place after
11 today, correct?

12 A. I may develop additional opinions based on things
13 that have already taken place prior to today.

14 Q. Okay.

15 A. But which I have not yet had time to review and
16 consider.

17 Q. Okay. Well, this is what I want you to do for me.
18 If you develop any additional opinions other than
19 what you have given us through your testimony, the
20 reports, the affidavits and so forth up until this
21 point, would you please advise counsel so he can
22 advise me that you have additional opinions?

23 MR. CARR: Yeah. And Ken, we'll
24 consider that a formal request for that.

25 Obviously if there's going to be reciprocity, and

1 it can be agreed on, we will do it. I, I don't
2 know. I didn't make a similar request of your
3 experts in depos but if we want to discuss that we
4 will discuss it.

5 MR. SALES: Okay. That's all I got.

6 MR. CARR: You done?

7 MR. SALES: I'm done.

8 MR. CARR: All right.

9 THE WITNESS: Thank you.

10 MR. SALES: You're welcome.

11 VIDEOGRAPHER: This concludes the
12 deposition.

13 MR. CARR: Whoa. Whoa. Let's -- we can
14 go off the video record. Let's stay on the
15 written record real quick.

16 VIDEOGRAPHER: This concludes the video
17 portion of the deposition. The time is 1:20 and 5
18 seconds p.m.

19 MR. CARR: We talked earlier. An
20 agreement that a copy would be made though
21 exhibits not attached to the deposition of
22 scientific literature upon which Dr. Garabrant
23 intended to rely.

24 I am holding in my hot little hands four
25 stacks of documents. The first one has an OCMAP

1 Plus label on it that says Rogers, the second is
2 an OCMAP Plus label that says MDS, the third is a
3 review of the data quality and comparability of
4 case control studies of low level exposure to
5 benzene in the petroleum industry, and the fourth
6 is a group of studies with a stickie on it that
7 says benzene AML. I think that says O dash R but
8 I'm not sure.

9 THE WITNESS: D R.

10 MR. CARR: D R. Pardon me. I got you.
11 Right. I'm going to give these to you. I'm going
12 to hand these to the court reporter. She's going
13 to make a copy of them, she going to return the
14 original to Dr. Garabrant, and we are going to
15 agree that this is the stuff that he has in this
16 case on science right now. Agreed?

17 MR. SALES: Okay. Agreed.

18 (Garabrant Number 1 was marked)

19
20 (Deposition concluded at 1:21 p.m.)
21
22
23
24
25

1 STATE OF MICHIGAN)

SS.

2 COUNTY OF OAKLAND)

3 CERTIFICATE OF REPORTER

4 I, Barbara J. Turner, Certified

5 Shorthand Reporter, a Notary Public, certify that
6 this transcript is a complete, true and correct
7 record of the testimony of DAVID HAY GARABRANT,
8 M.D., deponent in the foregoing deposition, taken
9 on January 21, 2010.

10 I further certify that prior to taking
11 this deposition the witness was duly sworn by me
12 to tell the truth.

13 I also certify that I am not a relative
14 or employee of a party or an attorney for a party,
15 or have a contract with a party, or am financially
16 interested in the action.

17
18
19
20

21
22 Barbara J. Turner, CSR-2343, RPR
23 Notary Public, Oakland County, Michigan
24 My Commission Expires: 02/14/14
25 Dated: This 22nd day of January, 2010