

1 IN THE CIRCUIT COURT OF COMMON PLEAS
2 CUYAHOGA COUNTY, OHIO
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4 - - - - - X
5 WILLIE R. LUKERSON, SR., etc., :
6 Plaintiffs, :
7 v. : CASE NO. 433806
8 E. LUKE BOLD, M.D., :
9 Defendant. : Volume 1
10 - - - - - X
11 Baltimore, Maryland
12 Tuesday, May 7, 2002
13
14 Video/telephone deposition of WAYNE KOCH, M.D.,
15 a witness herein, called for examination by counsel for
16 Defendant in the above-entitled matter, pursuant to
17 notice, taken at Johns Hopkins Outpatient Center,
18 Otolaryngology Department, 601 North Caroline Street, 6th
19 Floor, Baltimore, Maryland, beginning at 11:13 a.m.,
20 before Cindy Davis Strohmaier, a stenotype reporter and
21 Notary Public in and for the State of Maryland.
22

1 APPEARANCES:

2
3 On behalf of the Plaintiffs:

4 Dale P. Zucker, Esq.

5 Attorney at Law

6 512 East Washington Street

7 Chagrin Falls, Ohio 44022

8 (440) 247-5665

9
10 On behalf of the Defendant:

11 Mark Frasure, Esq.

12 Buckingham, Doolittle and Burroughs

13 4518 Fulton Drive, N.W.

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16
17 ALSO PRESENT:

18 Al Underwood, Videographer

19
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21
22
1 C O N T E N T S

2 WITNESS

EXAMINATION

3 WAYNE KOCH, M.D.

4 By Mr. Frasure Kocw0507 (1).asc 5
5
6 E X H I B I T S
7 EXHIBIT NO. PAGE MARKED
8 (none)
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1 P R O C E E D I N G S
2 (11:13 a.m.)
3 THE VIDEOGRAPHER: This begins videotape No. 1
4 in the deposition of Dr. Wayne Koch in the matter of
5 willie R. Lukerson, Sr., etc., versus E. Luke Bold, M.D.,
6 in the Court of Common Pleas, Cuyahoga County, Ohio.

kocw0507 (1).asc

7 This is case No. 433806.

8 Today's date is May 7th, 2002. The time on the

9 video monitor is 11:13 a.m. The video operator today is

10 Al Underwood, employed by VideoAge in Washington, D.C.

11 The court reporter is Cindy Strohmaier. This video

12 deposition is taking place at Johns Hopkins Outpatient

13 Center, 601 North Caroline Street, Baltimore, Maryland,

14 and was noticed by Mark Frasure, representing the

15 defendant.

16 Will counsel identify yourselves and state whom you

17 represent.

18 MR. FRASURE: Mark Frasure, representing the

19 defendant. Dale?

20 MR. ZUCKER: Dale Zucker, representing the

21 plaintiff.

22 MR. FRASURE: Okay, all set?

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1 COURT REPORTER: One second.

2 THE VIDEOGRAPHER: Will the court reporter

3 swear in the witness.

4 MR. FRASURE: Doctor?

5 COURT REPORTER: One second. Let me swear in

6 the witness.

7 MR. FRASURE: Okay.

8 whereupon:

9 WAYNE KOCH, M.D.,

10 a witness, was called for examination by counsel for
11 Defendant and, having been duly sworn, was examined and
12 testified as follows:

13 EXAMINATION BY COUNSEL FOR DEFENDANTS

14 BY MR. FRASURE:

15 Q. Doctor, my name is Mark Frasure. I represent
16 the defendant, Dr. Bold, here with my partner, Dirk
17 Riemenschneider. I'm taking the deposition today because
18 Mr. Riemenschneider is not available, I think. We have
19 your CV and we have your report. Is there just the one
20 written report, sir?

21 A. Yes.

22 Q. And that is dated June 28th of last year?

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6

1 A. Correct.

2 Q. All right. Doctor, you're an otolaryngologist,
3 is that correct?

4 A. That's right.

5 Q. I didn't hear you.

6 A. That's correct.

7 Q. And do you do this kind of surgery that was
8 done here?

9 A. Yes, I do.

10 Q. How often -- roughly how many times would you
11 say you've done that surgery?

12 A. I've done this sort of surgery two or three

13 times a month for the last 15 years.

14 Q. For the last how long?

15 A. Fifteen years.

16 Q. Okay. What's the surgery called? The correct
17 name, if there is a name.

18 A. Well in general you would call it endoscopic
19 sinus surgery. That's terminology that will allow you to
20 do a number of different, specific procedures. As I
21 understand it, Dr. Bold performed some specific things I
22 could go through if you want to.

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1 Q. All right. Have you had any complications from
2 this surgery in the several hundred times you've done it?

3 A. Yes, I have.

4 Q. What kinds of complications have you had?

5 A. Occasionally -- two or three times I've had a
6 small leak of cerebral spinal fluid from the upper --
7 part of the ethmoid cavity.

8 Q. Right.

9 A. I have had one patient who had transient or
10 very short, limited double vision or diplopia. I think
11 that's all.

12 Q. How did that resolve?

13 A. The diplopia resolved on its own in one day
14 with medical therapy. The cerebral spinal fluid leaks
15 that I have had were all recognized intraoperatively and

16 repaired by myself, so there were no problems afterwards.

17 Q. No -- nothing beyond just a few days?

18 A. Yes. They would have required an admission to
19 the hospital and a day of bed rest beyond what they would
20 have normally experienced.

21 Q. Have we covered all of your complications then
22 for this surgery --

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8

1 A. To the best of --

2 Q. -- leaks --

3 A. To the best of my recollection. I'm sorry.

4 Q. -- and the one patient with the double vision?

5 A. To the best of my recollection. Of course,
6 every patient has some bleeding, and that would not be, I
7 think, considered a complication. But there are minor
8 things that may have gone on and have slipped my mind.

9 Q. Where is the bleeding from specifically? Does
10 it always come from the same area or --

11 A. No. There are several arteries that enter the
12 nose in specific areas, and then the nose has a
13 wonderfully good blood supply from small vessels. And so
14 you can have diffuse bleeding from the entire cavity.

15 Q. I take it this bleeding that you had has not
16 come from any cranial arteries?

17 A. The cranial artery is not a term that I'm
18 familiar with.

19 Q. Okay.
20 A. There are some intracranial vessels. The
21 anterior and posterior ethmoid arteries, for example.
22 And, yes, I'm sure I've had bleeding from those

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9

1 occasionally.
2 Q. What do you think bled here?
3 A. From the best that I can tell, it was probably
4 the posterior ethmoid artery on the right side.
5 Q. Posterior ethmoid?
6 A. Ethmoid. It might have been the anterior
7 ethmoid. It's a little difficult to piece it together
8 from the records.
9 Q. And it was on the --
10 A. On the right side.
11 Q. Right side. Have you ever had bleeding from
12 that artery?
13 A. Yes, I have had some bleeding from that artery.
14 MR. ZUCKER: Excuse me. This is Mr. Zucker.
15 I'm just going to place an objection to the form of the
16 question heretofore and the last question. That being
17 said, go ahead, Doctor.
18 Q. Okay. You say you've had some bleeding from
19 the artery that you think was involved here?
20 A. Yes.
21 Q. What do you think caused your bleeding?

22 A. well some of the time when you do this

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1 operation, you're doing it because of a tumor in that
2 area. It would be a slightly different reason. And then
3 you might go to the upper extent of the ethmoid and nasal
4 cavity to try to remove the tumor completely. That would
5 be one situation.

6 I think at times you could, in an effort to find the
7 entrance into the frontal sinus on the right side, get
8 close to the anterior ethmoid artery. And there are, of
9 course, branches off the artery, and you could
10 inadvertently hurt or injure one of those.

11 Q. Is the anterior less dangerous to injure than
12 the posterior artery?

13 A. I don't know that I'd say that.

14 Q. Okay. well when you had some bleeding from
15 that artery, the posterior ethmoid, were you dealing with
16 a tumor during all those occasions?

17 A. I have been answering your questions the best I
18 can in a somewhat hypothetical manner, and to get very
19 specific, we'll start to stretch my ability to answer
20 accurately. I would say --

21 Q. Because of your memory?

22 A. well because some bleeding from these vessels

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1 or branches thereof is common to the procedure. Massive
2 bleeding from any of these vessels -- if we step back
3 three or four answers -- I would say I have never
4 encountered. And so I don't have a specific memory of a
5 specific case to tell you about.

6 Q. Okay, so you have not encountered massive
7 bleeding?

8 A. Correct.

9 MR. ZUCKER: Mr. Zucker here. Continuing
10 objection to the form of counsel's questions, each and
11 every one of them so far in this deposition. That being
12 said, Doctor, go ahead.

13 Q. Why do you think in this case the doctor
14 encountered massive bleeding.

15 A. To the best of my understanding from reading
16 the operative note and looking at the films, Dr. Bold was
17 working in an area where the vessels are very close to
18 the tissues that he was trying to remove. That being
19 said specifically, from what I can tell he was in an area
20 medial to the middle turbinate insertion at the
21 cribriform plate. In that area the vessels are known to
22 run, and it's a standard teaching not to go there

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12

1 surgically; especially in a case of benign nasal polyps.
2 so I believe that he was working in an area where the
3 vessels were known to be of concern and encountered an
4 injury that was foreseeable.

5 Q. Are you saying that he should not have gone
6 there to obtain a polyp that may have been there?

7 A. That's what I'm saying, yes.

8 Q. If it were a tumor, your point might be it's
9 okay to try to get a tumor there?

10 A. If a tumor were in that area, because it's so
11 high and close to the cribriform plate, it would not be
12 appropriate to -- for him to approach that as a solo
13 procedure by an otolaryngologist. What would be
14 appropriate is to perform a combined procedure with an
15 otolaryngologist and a neurosurgeon that would be called
16 a craniofacial resection.

17 Q. Have you done that before, sir?

18 A. Yes, I have.

19 Q. And you've had the other surgeon with you?

20 A. Yes.

21 Q. Okay. How close is this to the Turkish saddle?

22 A. To the Turkish saddle. I'm afraid that's a

1 term I'm not familiar with.

2 Q. The sella turcica?

3 A. The sella turcica I'm familiar with. This is
4 the anterior --
5 Q. The Turkish saddle. I had a case like that ten
6 years ago.
7 A. Yeah.
8 Q. It was the Turkish saddle. That's why I --
9 A. I guess that's the English from the Latin.
10 Q. There you go.
11 A. Very good. And I'm not quick enough on my feet
12 to pick it up. The sella turcica is a centimeter to two
13 centimeters behind or posterior to this area.
14 Q. Do -- does this area sometimes have polyps
15 there?
16 A. It certainly can, yes.
17 Q. So I take it you're not disputing that there
18 may have been a polyp there. You're just saying he
19 shouldn't have gone there to get a polyp.
20 A. Exactly.
21 Q. Okay. Because it's a very dangerous area?
22 A. That's right.

1 Q. Is it the most dangerous area in this general
2 area we're talking about? Or are there some other ones
3 that are equally dangerous?
4 A. I would say that the entire length of the
5 cribriform plate, the roof of the nose medial to the

6 middle turbinate, from back to front, is roughly of
7 equivalent danger.

8 Q. Are you saying that for polyps the
9 otolaryngologist should not go at the cribriform plate
10 area?

11 A. Correct.

12 Q. Okay. And you believe he did here?

13 A. Yes.

14 Q. Okay, I follow you. What do you tell your
15 patients, Dr. Koch, when you're doing a surgery like
16 Dr. Bold was doing for polyps? And I take it you've done
17 it for polyps, right?

18 A. That's correct.

19 Q. What do you tell your patients beforehand the
20 risks are for their informed consent?

21 A. I go through a standard listing of bleeding,
22 infection, and anesthesia complications. I will expand

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1 on those and describe how much bleeding. I'll talk about
2 the likely necessity or lack of necessity for a
3 transfusion. I talk about infection and what types of
4 infection. I would consider including meningitis. And I
5 talk about anesthesia complications, which would include
6 heart attack and stroke, and permits me to then tell the
7 patient also that, of course, someone might die during a
8 surgical procedure, although that is rare.

9 Then I would talk about two specific problems with
10 sinus surgery. One would be an injury to the skull base
11 or this area where there could be cerebrospinal fluid
12 leak or bleeding. And I would talk about vision
13 disturbance. And then I would expand on that and say
14 vision disturbance; could be double vision or even loss
15 of vision.

16 Then I would talk about the likelihood of the
17 surgery to accomplish the goals. And in a polyp surgery
18 like this one, I would emphasize that if there is
19 improvement in nasal airway, it would be only temporary.
20 Most likely the polyps will grow back and the problem
21 will recur.

22 Q. Okay.

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1 A. I think that's the gist of what I would say.

2 Q. Is the potential for visual disturbance due to
3 the optic chiasm being involved or being in that area?

4 A. The optic chiasm is not exactly in the area.
5 So, no, that's not what I would mean.

6 Q. Then what is the mechanism for possibly causing
7 visual disturbance with this kind of surgery?

8 A. There are several. If you go through the
9 sidewall of the sinus, the lateral wall of the sinus, you
10 will enter the globe -- or not the globe; the orbit. And
11 around the eye itself, the globe, are muscles that move

12 the eye, and if you injure those, you'll get double
13 vision.

14 There have been reports of blindness after sinus
15 surgery. Some of those are hard to determine what the
16 cause was. Injection of local anesthesia has been
17 blamed. The optic nerve itself runs directly under the
18 surface of the sidewall of the sphenoid sinus. Generally
19 one doesn't go near the sidewall of the sphenoid sinus in
20 these surgeries. So unless I was going to that area, I
21 wouldn't make a major point of that potential.

22 So there are several ways that the eye -- also

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1 another one would be bleeding into the orbit with
2 increased pressure in the tissues around the eye, causing
3 a tightening or tension on the optic nerve. All of these
4 things can cause vision disturbance.

5 Q. Can we agree that there are indications or
6 reasons for doing the surgery here?

7 A. That's a point that I would need to make some
8 caveats and discussion about. I think that this -- I'll
9 cut to the chase. I think the surgery was of
10 questionable wisdom.

11 Q. Because why? The risk benefit?

12 A. I have three sort of categories that I'd say
13 that on. The first is the nature of this particular
14 patient's disease; that is chronic sinusitis with massive

15 polyps. And I can talk more about that if you wish.

16 The second is the patient's underlying medical
17 problems and, therefore, the general risk to her health.

18 A third reason would be the -- more generally the
19 proper treatment of this kind of sinus problem in the
20 setting of asthma and so on.

21 Q. Okay. Let's go -- would you go through each,
22 please. The first one --

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18

1 A. Sure.

2 Q. -- being the nature of this disease that this
3 patient had.

4 A. Well in this particular patient, my
5 understanding is that she was a patient on hemodialysis
6 with endstage renal disease and asthma, and that through
7 the course of at least two years, which is all I can find
8 in the records I was sent, she had had two episodes of
9 breathing problems -- the one that resulted in her
10 hospitalization and this particular surgery -- and
11 another one approximately 18 months earlier, in October
12 of 1999.

13 And what I mean to say there is that although the
14 emergency room record from when she was admitted and, I
15 think, one of the renal doctors said that she had acute
16 sinusitis -- actually Dr. Bold correctly said she had
17 chronic sinusitis -- and the treatment for her sinusitis,

18 which in Dr. Bold's deposition he said he had outlined in
19 1999, that being medical therapy, had been working
20 reasonably well. So although this woman occasionally had
21 shortness of breath, she had not required surgery for
22 almost two years and had exactly the same or -- as best

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1 we can tell -- exactly the same nasal condition during
2 that time.

3 So it raises me to wonder why medical therapy was
4 not used again in this case. And, in fact, it was used
5 again. And on the morning -- while her coumadin level
6 was decreasing so that her bleeding time was improving,
7 her breathing condition got better. So that the renal
8 note from the morning of her surgery said she was back to
9 her old self or something like that.

10 Q. Due to what therapy?

11 A. Due to her -- I think she had gotten steroids
12 and antibiotics during the couple of days that she was
13 being withdrawn from her anticoagulant.

14 Q. But wouldn't continuation of the steroids for
15 treatment of the disease pose problems too?

16 A. Oh, there's no question this was a very
17 difficult person to manage. I think my point is only
18 that she had been managed medically for two years. And
19 this exacerbation or severe worsening of her breathing,
20 in some places in the chart was described as being due to

21 perhaps anxiety. And so here's a person that at least --
22 I don't think this is a major point -- but at least you

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1 would have to ask yourself, did she need surgery?

2 The second issue is her comorbidity, a big word that
3 I mean to imply all the other things that were wrong with
4 her.

5 Q. I understand.

6 A. And her cardiac disease -- I'm not a
7 cardiologist, but the notes would imply that she was a
8 very delicate patient from a heart perspective. She
9 certainly was from a renal and, therefore, electrolyte
10 balance perspective. She'd just been on coumadin. And
11 although an appropriate response to an increased I&R was
12 to wait a few days until that improved, there was still
13 the issue of her possible problems with coagulation. And
14 she was severe asthmatic. And she'd been on steroids.
15 So all of these things made her, I think, a poor surgical
16 candidate.

17 I would say that Dr. Bold recognized that. In some
18 of his notes he said he would try to do this surgery with
19 less than one hour of general anesthesia. I would assume
20 or at least posit for discussion that he was saying that
21 because people were concerned that she might not do well
22 with a longer anesthetic. So her comorbidities made her

1 a poor candidate for surgery of any sort.

2 I do a fair amount of cancer surgery, and I wonder
3 whether I would even have tried to do a cancer operation
4 for this person where the risk and intensity of the need
5 is higher. And so I think that to do this surgery was
6 something that should have only been undertaken in real
7 extreme circumstances.

8 And the third issue is that of chronic sinusitis and
9 asthma. If you want to, I think, defend why this surgery
10 should have been done, it is the linkage between nasal
11 chronic sinusitis and worsening of asthma, which is well
12 understood and -- or well agreed upon, not well
13 understood, in our specialty and others who take care of
14 these patients.

15 The problem is that the sinus surgery in those
16 settings, I think, has a modest contribution and a
17 temporary contribution to improvement in breathing. So
18 that most patients that I've taken care of, who have
19 undergone maybe even multiple sinus surgeries, still have
20 difficult-to-manage asthma that flairs up. And in many
21 cases that difficulty in managing the asthma is back
22 again within a few months of the sinus surgery. In the

1 best case scenario people might get a year or two of
2 improved asthma management from having their nasal polyps
3 removed.

4 so this was a person who had been managed well, to
5 summarize, for years without -- or at least managed
6 adequately for years without surgery; was a poor risk, in
7 general, for surgery; and the surgery only promised a
8 modest and temporary improvement in her problem.

9 Q. Okay. Let me follow up on a few of those.
10 You've covered a lot of area. Are the asthma and the
11 chronic sinusitis related? I know that's a big term.
12 Are they -- does one cause the other? Are they coming
13 from the same cause?

14 A. Yes, this is -- I said it was not well
15 understood. And I'm not -- I don't know that I'm the
16 leading expert in this field. My understanding is that
17 they are related in one of several ways. One is that
18 there is a -- what's been called a sinonasal reflex,
19 which means if your nose isn't clear, your breathing
20 physiology is affected. And that may have to do with the
21 kinds of pressures in the nasal cavity or lack of
22 pressures in the nasal cavity when you're trying to

1 breath in or out and how that affects the lower airway.

2 The second way that they're related is probably an
3 inherited tendency to have both conditions.

4 Q. I understand.

5 A. And so there are people who are sensitive to
6 getting aspirin and having that make their problems worse
7 in both their polyps and their lungs.

8 There is something called the immotile cilia
9 syndrome, which is obviously an inherited problem. And
10 we've -- at Hopkins some of the investigators -- other
11 places as well, I'm sure -- have been doing studies that
12 seem to indicate that some of these people may have a
13 minor variant of cystic fibrosis. So that, again,
14 genetic inherited tendency to have these problems.

15 Q. Are you saying that even if we can help her
16 sinusitis, it's not going to really do much for the
17 asthma, if any, and she's still going to have the asthma
18 problems?

19 A. Well I think many people in the specialty would
20 vigorously disagree with a statement made that strongly.
21 There are patients who are helped significantly by having
22 their sinus disease taken care of. For example, in the

1 pediatric cystic fibrosis population, doing sinus surgery
2 is a common way of helping the pulmonologist manage the
3 breathing problems.

4 Q. Have you --

5 A. But -- I'm sorry. But in the adult with nasal
6 polyps, because the nasal polyps tend to be back quickly,
7 it's been my observation, and I think people would agree,
8 that that's by no means guaranteed and in many, many
9 cases the results are disappointing.

10 Q. Do you think that the patient's death resulted,
11 at least in part, from her underlying comorbid medical
12 problems?

13 A. It's very difficult to say with certainty. Any
14 patient -- I'll make a general statement. Any -- or most
15 complications of surgery are better tolerated by healthy
16 people. And so, yes, I think it's possible that this
17 person's demise was in part because she was in such poor
18 general condition.

19 On the other hand, the damage that's visually seen
20 on the CT scan is dramatic. Hematoma, air in the brain,
21 and, you know, none of us were there to see what had gone
22 on. But she succumbed very quickly. It was not a

1 situation where the comorbidities had time to really have
2 an effect. She was essentially brain dead by the time
3 they got her to the angiography suite.

4 Q. So you're saying a patient that was healthy
5 from this injury still could have --

6 A. Possibly so. But if this was a death due to

7 comorbidity, I would expect to see someone lingering in
8 the ICU, still alive but with sequential multisystem
9 failure. First the kidneys go; she never gets off the
10 ventilator; then the heart goes. That sort of thing.

11 That's not what happened here. This person died
12 very quickly after an acute injury. So although it's
13 difficult for me to say with 100 percent certainty that
14 her comorbidities did not contribute to her death, it is
15 my opinion that they, if anything, were of very minor
16 contribution and that the cause of the death was the
17 surgical injury.

18 Q. All right. Do you think, Doctor, it was within
19 the standard of care -- not whether you would have done
20 it necessarily -- but it was within -- was it within the
21 standard of care to proceed with this surgery with the
22 informed -- with the risks that he told her about and her

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1 condition?

2 MR. ZUCKER: Do you understand that question,
3 Doctor?

4 A. I do understand the question, and I'm going to
5 say no and then explain why. The first thing I want to
6 say in response to your question is I have not seen a
7 written informed consent from this patient, and I would
8 be very keen to see that. So I don't know --

9 Q. I don't know if there is a written one. He --

10 A. I don't know other than his --
11 Q. -- mentioned it in his deposition --
12 A. Right.
13 Q. -- where he discussed with her and/or her
14 family, I think.
15 A. I saw that. But I do think it's a critical
16 issue that if -- as some of the other experts that have
17 written things stated in their writing, that death is a
18 known complication of this operation. If that had been
19 stated to this woman, you have a high risk of dying from
20 this operation, or substantial or even a modest risk of
21 dying, I wonder whether they would have consented to the
22 surgery. And that question, I think, was not made as

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1 blatantly clear in the deposition testimony as perhaps it
2 should have been. And I would have liked to have seen it
3 written down on a -- that's what we would do here at
4 Johns Hopkins, and I think that's the standard of care.
5 The second reason --
6 Q. So even if you were contemplating the surgery,
7 that there was a high risk of dying from the surgery?
8 A. You would need to tell your patient that. And
9 there are surgeries where you would proceed, even under
10 those conditions.
11 Q. Yeah.
12 A. But probably not this one.

13 Q. But when you mentioned the informed consent
14 that you typically -- or risks that you typically give in
15 your surgeries, you mentioned bleeding, infection. You
16 didn't qualify those with saying, now there's a high risk
17 of bleeding; there's a high risk of infection; there's a
18 high risk that you're going to get in trouble.

19 A. Correct.

20 Q. But you're saying that -- that the minimum
21 should have been done here?

22 A. No, no. I think that there should have been a

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1 written informed consent, and that on the informed
2 consent -- given this woman's debilities -- it should
3 have included that death was a possible outcome.

4 Now the other reason that I will disagree with your
5 statement was you said "this surgery." And by that I
6 would interpret, instead of any nasal surgery, the
7 specific surgery that Dr. Bold undertook, which to my
8 understanding was a complete anterior and posterior
9 ethmoidectomy with partial middle turbinate resection and
10 with medial -- I'm sorry, maxillary antrostomies.

11 One could make a case for doing a nasal polypectomy
12 to clear the nasal airway and a -- with that, of course,
13 one would do a limited ethmoidectomy under those
14 circumstances. That's the sort of surgery you might be
15 able to finish in an hour safely. That's not what was

16 undertaken here.
17 Q. Have you ever done this surgery that was
18 undertaken here, the more extensive type?
19 A. Yes. It's a standard procedure, yes.
20 Q. But it's questionable in this patient?
21 A. That's correct.
22 Q. Did the -- if he had done the more limited --

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1 the major polypectomy that you mentioned -- surgery,
2 would that have offered her much potential benefit?
3 A. Well that goes back to the question of whether
4 any surgery was going to offer her benefit.
5 Q. I see.
6 A. I'm not sure that I understand or anyone
7 understands well enough what the various interactions
8 that we've just discussed between the nose and the
9 breathing is. But I would at least consider whether
10 opening the nasal passage by removing the polyps that
11 are -- say from the middle turbinate downward and in the
12 anterior ethmoids, would have been enough to buy the
13 benefit that we were hoping for, a limited --
14 time-limited and amount-limited benefit of her breathing
15 knowing that the polyps were going to come back.
16 But having said that, even if you did a full
17 ethmoidectomy from posterior to anterior, you should not
18 be doing anything medial to the middle turbinate. And

19 that's where the injury occurred and that's where the
20 real problem lies.

21 Q. He went medial to the what?

22 A. Medial to the insertion of the middle turbinate

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1 at the roof of the nose.

2 Q. And you're saying that should never be done?

3 A. That's correct.

4 Q. Even on a patient without comorbid problems?

5 A. That's right. You leave polyps alone there.

6 Q. If he had gone in with the more -- well let's
7 assume he has a patient of this age, no comorbid problems
8 of any extent. We've changed the hypothetical on you.
9 No comorbid problems but the same symptomatology. Would
10 doing the more extensive surgery, but not going into the
11 insertion of the middle turbinate, have been appropriate?

12 A. I believe so, yes.

13 Q. Now you did not mention that in your report,
14 that the surgery should not have been done. Have you
15 come to that conclusion since your report?

16 A. If it wasn't in the report, I assume I came to
17 it since then. I've just reviewed all the records again,
18 and so it's fresher in my mind now than my report is.

19 Q. Tell me, Doctor, if you would, what you have
20 reviewed in total.

21 A. Okay. I have a binder that was provided to me

22 from Mr. Zucker that has a number of medical records.

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1 It's got 16 parts to it.

2 Q. Okay.

3 A. Mostly hospital records from Meridia Euclid
4 Hospital. I have copies of CT scans done on Mrs. Cooper
5 before and after her surgery, and I could get the dates
6 if you want them.

7 Q. That's fine.

8 A. And I have the depositions of David
9 Blatt, M.D., and E. Luke Bold, M.D. And then I have some
10 letters to Mr. Riemenschneider from three or four
11 physicians. I can give you the names if you want them.

12 Q. No, that's fine.

13 A. And I have my report.

14 Q. Okay. Do you know any of those individuals
15 listed in the reports to Mr. Riemenschneider?

16 A. No, I don't. I've heard of one of them.
17 Michael Papsidero I think I've seen. And Richard Zarbo.
18 I've seen both of those names, but I don't know them
19 personally.

20 Q. Is there a recognized percentage of
21 complication rate in the medical literature for this kind
22 of surgery? And I know that we're talking about

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1 different complications. Let's say a bleeding --

2 A. I went to the literature when I first reviewed
3 this case and did a PubMed search and came up with an
4 article -- I can't remember which journal -- by David
5 Kennedy, who is probably one of the most prominent people
6 in the country doing this surgery. And it talked about
7 intracranial complications of sinus surgery. I can come
8 up with a reference if you want it.

9 Q. Was that recently?

10 A. Within the last decade. I think it was the
11 mid-'90's.

12 Q. Okay.

13 A. And it would have been in one of the
14 otolaryngology journals.

15 Q. Was that of any benefit to you?

16 A. I thought it was helpful in discussing the idea
17 of whether this is a known complication. Because I,
18 frankly, have struggled with the question of whether
19 something being a known complication means that when it
20 happens, there's been no negligence.

21 Q. Right.

22 A. And so one thing that that paper emphasized was

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1 the low frequency of major complications in these
2 surgeries.

3 Now obviously people writing those papers are not
4 writing them for legal purposes but for the purpose of --
5 usually being a proponent for a procedure that they like
6 to do. And so -- and how good they are at doing it. And
7 so they'll tend to -- if they have a bias -- want to keep
8 those complications rates low.

9 But I think this paper was a sort of metananalysis
10 looking at -- or it was from a survey; I don't remember
11 which -- but looking at experiences across the country in
12 a period of time. And the rate of all major
13 complications from sinus surgery, if I remember
14 correctly, was a half of a percent or less. And of
15 those, you know, intracranial bleeding and emergent or
16 rapid death was a very small percentage of a percentage.

17 So while the statement that this is a known
18 complication is true from the point of view that any
19 surgery may have death as a complication, it's certainly
20 not such a major complication in terms of numbers that it
21 would require you to tell people that, I think, as a
22 special emphasis when you're discussing the surgery. If

1 it was, thousands of healthy people across the country
2 having sinus surgery would think twice about having this

3 otherwise very safe operation. It's an unusual, rare
4 complication.

5 Q. Have you written on this subject yourself,
6 Doctor, this surgery?

7 A. No, I have not.

8 Q. You've got a lengthy CV and I wanted to ask
9 you, do any of the references in this CV pertain directly
10 to this subject matter?

11 A. Not that I'm aware of, no. I had written one
12 article in a textbook, and I'd have to look at my CV
13 again. I've written some articles about sinus surgery
14 approaches, midfacial degloving, ethmoidectomy, but not
15 for polyp disease. It didn't directly pertain.

16 Q. All right. Do you believe the correct
17 instruments were used here? Just so I'm trying to narrow
18 the various criticisms that you have.

19 A. Well Dr. Bold describes that he used almost
20 exclusively a Takahashi forcep. Many people now would
21 consider some kind of shaver instrument to be a more
22 preferable instrument. He states in his deposition, I

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1 believe, that he didn't have that available. In the
2 absence of having that, a Takahashi is an acceptable
3 instrument. It's a bit larger and, therefore, it can be
4 used somewhat more aggressively than the instrument I
5 might have chosen, which would be a Blakesley forcep.

6 But that's not a major issue.

7 Q. That's more of a surgeon's choice?

8 A. I think so. It's more how -- and he goes
9 through this very nicely in his deposition -- it's more
10 how you handle the instrument than what instrument you're
11 using.

12 Q. Okay. My next question there was, was the
13 method inappropriate? And I think you've already
14 described that you believe the doctor went in an area
15 that he should not have gone in.

16 A. Correct.

17 Q. So beyond that, is there anything wrong -- or
18 besides that -- with the method, for lack of a better
19 term?

20 A. Well he discusses -- I mean there are some
21 issues around how he got there. Because you'd have to
22 wonder. It's intriguing that on the other side, on the

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1 left side, in his operative note he states that he stayed
2 lateral to the middle turbinate, which is the right thing
3 to do. And it's also intriguing he doesn't say that in
4 the operative note for what happened on the right side.

5 Now he does, apparently routinely, trim the middle
6 turbinates, and he describes how he did that and the
7 method that he used sounded appropriate. He did state at
8 one point that the middle turbinates were involved with

9 polyps. In other words, that they had, I would call,
10 polypoid degeneration. And so as he was removing tissue
11 from that area, I could imagine that it was difficult to
12 know how much tissue he was removing and how delicately
13 it could be removed. At any rate, the point of leaving
14 at least some of the middle turbinate is that it is then
15 the landmark to keep you out of the danger that was
16 encountered here. And so removing any of the middle
17 turbinate at least raises a question of what landmark was
18 left to him and why he then ended up in a place that
19 apparently he knew he didn't want to be.

20 The other issue that I have some trouble with is the
21 timing -- and I've hinted at this before -- the timing of
22 the surgery and the extent of what he hoped to accomplish

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1 in that timing. Going into a surgery expecting to spend
2 an hour or less under general anesthesia, and to do a
3 complete front to back ethmoid with middle turbinate
4 resection and maxillary antrostomies, and to do that in
5 an hour means that you are moving very quickly. And I
6 would believe that that was one of the precipitating
7 factors to what happened here.

8 Q. All right. Was Dr. Bold's response to the
9 bleeding and the complications that developed, was his
10 response appropriate or within the standard of care?

11 A. Yes and no. I have some concern about the

12 absence of the step of taking a vasoconstrictive agent.
13 I would use Otrivin on a cotton ball and placing it in
14 the place of bleeding and holding gentle pressure there.
15 That would be my very first maneuver under these
16 circumstances, and I think that would be the standard
17 teaching of what to do.
18 Q. Can you spell Otrivin for me, Doctor.
19 A. Spell which?
20 Q. The word, the substance.
21 A. Oh, Otrivin. O-t-r-i-v-i-n. But that's one of
22 several. You could use Neo-Synephrine. Whatever you

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1 have available for vasoconstriction, on a cotton ball,
2 placed directly on the site of bleeding with gentle
3 pressure held there. That is the only hope, I think,
4 that his bipolar cautery, which apparently he tried next,
5 could be effective. You need to slow or stop the
6 bleeding, see where the vessel is bleeding from, and then
7 cauterize the vessel directly.

8 So trying to use bipolar, I think, was fine as long
9 as it was done with clear visualization of what he was
10 going to cauterize. Without clear visualization, having
11 penetrated the brain, as apparently -- at least according
12 to Dr. Blatt he says he did -- he could be cauterizing
13 brain tissue with a bipolar cautery in a pool of blood,
14 that he can't see the vessel in. And that would be a

15 problem.

16 And then it's intriguing that he needs to call a
17 neurosurgeon to think of using Avitene. Because Avitene
18 would be my second step, and I would go straight to it,
19 and every resident in our program would go straight to it
20 and knows that it's the appropriate next step. The
21 Avitene is a wonderful vasoconstricting -- or clotting
22 assistant, and to get it up there will stop most bleeding

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1 relatively quickly. But he had to stop and make a phone
2 call to get that idea, and during the time of the phone
3 call, the bleeding is going on and on. So getting a
4 consultant is never the wrong thing to do, but I think
5 the critical moments were those first couple of minutes
6 before the phone call was even made. And I have some
7 doubt that he responded in a way that was adequate.

8 Q. Well he mentioned, I think in his deposition,
9 that he had a good view.

10 A. Okay. He's the only one who was there, so he's
11 the only one that can tell us that.

12 Q. Let's assume he had a good view after the
13 complication developed. Did he use Otrivin or something
14 similar?

15 A. He doesn't mention it. So -- it was not asked
16 of him at deposition and I don't know. But the fact that
17 it's not there and yet other things are there in detail,

18 I would assume means he did not.

19 Q. What's your understanding of what he did use,
20 besides the cautery?

21 A. That's the only thing I could see. He tried to
22 control the bleeding with bipolar cautery.

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1 Q. Oh, I see. Are you saying the standard of care
2 requires, before using cautery, some type of substance
3 like the Otrivin or Neo-Synephrine?

4 A. The standard of care would require that, if
5 you're going to use a bipolar cautery, you can see the
6 point bleeding; especially in this area where you're
7 right at the brain. And otherwise the cautery has no
8 hope of working. So the only way I know of, the best way
9 I know of to see the point bleeding is to control it with
10 medicine application first.

11 Q. Now you mentioned he called the neurosurgeon
12 and the neurosurgeon suggested using a --

13 A. Avitene and gelfoam.

14 Q. And it's your understanding he did use that
15 then, correct?

16 A. That's right. And, in fact, he --

17 Q. Now is that acceptable to use in place of the
18 Otrivin-type substance?

19 A. It's a -- it's a fall-back position. It's not
20 used for the same purpose. Once you apply the Avitene,

21 you obscure your view of the area, and you commit
22 yourself to controlling the bleeding only by packing.

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1 And here we've got a situation where you can pack from
2 below, but because a craniofacial resection was not being
3 done, you have no way of controlling how much bleeding is
4 going on above. And so hematoma could continue to form
5 into the cranial cavity, even though there was no visible
6 bleeding from below.

7 Q. Doctor, to cut to the chase on this part, do
8 you think that what Dr. Bold did or did not do in his use
9 of the various agents in response to the bleeding, do you
10 think that that was a factor in the outcome here?

11 A. I think it was a factor. I cannot tell how
12 much injury to the brain occurred with the first thing
13 that happened. You know, the pulling away of the polyp
14 with the bone attached and the vessel next to it, or
15 penetrating into the brain, as one statement made in,
16 again, Dr. Blatt's deposition. I don't know how much
17 damage happened then. But I would believe that it would
18 be difficult to cause enough damage with a single
19 maneuver to cause death. Instead what happened was
20 bleeding continued and a hematoma formed and caused
21 increased intracranial pressure, I believe. So, yes, the
22 moments of trying to stop the bleeding and the inability

1 to stop the bleeding were critical and contributed to her
2 death.

3 Q. Do you think his efforts at stopping the
4 bleeding were within the standard of care?

5 A. I believe I've said that I do not think that
6 they were within standard of care clearly by saying that
7 a vasoconstrictive agent should have been applied and so
8 on.

9 Q. How do you spell that Avitene?

10 A. A-v-i-t-e-n-e.

11 Q. Okay. That's not a vasoconstrictive agent?

12 A. No. That's a -- it's collagen material that
13 gives blood -- I don't know exactly what the pharmacology
14 is, but it gives the blood a matrix or a beginning of
15 clotting.

16 Q. All right. A few more questions. Did her --
17 we talked about the patient's underlying medical
18 condition, Dr. Koch.

19 A. Um-hmm.

20 Q. The comorbidity, and I think we're in agreement
21 that it was a significant underlying condition. Did her
22 underlying condition create any weakening or dehiscence

1 of any of her bones in the nasal cavity?

2 A. I believe that it may have -- I believe that
3 she may have had thinning of the bone, perhaps due to her
4 underlying medical problems; perhaps due only to her
5 chronic sinusitis and nasal polyps. I did not see, nor
6 did the radiologist see, and so, therefore, I believe
7 there was no dehiscence. Nor do I think there was an
8 encephalocele.

9 Q. Is dehiscence different from thinning?

10 A. Dehiscence would imply to me a complete absence
11 of bone material.

12 Q. But you say she may have had thinning but not
13 dehiscence.

14 A. That's correct.

15 Q. Does thinning of the bone increase her chances
16 of this complication?

17 A. I think it does in that I think if you know a
18 person has thin bone, one, a surgeon would take increased
19 caution and care in working around that bone. But if a
20 surgeon takes that increased caution and care, it should
21 be possible to do surgery in this area safely, even with
22 thin bone.

1 Q. Can polyps be attached to bone in this area?

2 A. Well the polyps arise from the mucus membrane,
3 and mucus membrane is loosely attached to bone. It can
4 be removed from the bone relatively delicately if it's
5 done under direct vision with small motions and
6 appropriate instruments. It is attached enough to the
7 bone that if you took a large polyp up in this medial
8 superior nasal cavity and pulled on it vigorously, you
9 might get pieces of bone to come off.

10 Q. And then if you get pieces of bone, does that
11 then potentially lead to getting into the cranial cavity
12 and then bleeding ensues?

13 A. Well in this area the arteries that we talked
14 about at the beginning of the deposition might be outside
15 of the bone. In other words, in the nasal cavity
16 directly under the mucosa. So when you're pulling away
17 polyps, if you go up and get an instrument right on that
18 area and pull at the branches of the vessel, you could
19 have bleeding without going through bone at all from
20 those vessels. Now after you get above those vessels and
21 go into the bone, the next material that you ought to
22 find is dura, the coating around the brain cavity.

1 Q. Did he get into that area?

2 A. Yes, he had to. So in the cribriform plate,
3 the dura is thinned and there are sleeves of dura coming

4 into the nose along with olfactory or nasal smell fibers.
5 And so it's easy to create a leakage of cerebral spinal
6 fluid by penetrating dura in that area. Once you get
7 into the meningeal space, then there are vessels, veins
8 and arteries of the -- outside of the brain itself. And
9 there was discussion between Dr. Blatt and Dr. Bold and
10 others in the things I've read about whether this might
11 be the middle cerebral artery that was bleeding or some
12 of the sinus -- in this case blood sinuses we're talking
13 about -- in the area that were bleeding. So it's
14 possible that the bleeding came from an intracranial
15 vessel as well.

16 Q. What is the proof, in your opinion, that he did
17 get into the dura?

18 A. The postoperative CT scan shows clearly a
19 large -- it's a limited scan because it's only in an
20 axial view. But it shows a large process going on that
21 includes a lot of soft tissue, probably blood clot, in
22 the nose. And then as you look at higher and higher

1 views, blood clot again in a space where the frontal
2 lobes ought to be and air in a space -- in that same
3 space where the frontal lobes ought to be. And so the
4 only place that air could have come from is from the
5 nose. And the blood, again in both the nasal and the
6 cranial portions, is identical in size and shape. And so

7 it was all one chamber there. There was apparently a
8 large piece of the cribriform plate removed.

9 Also, Dr. Blatt's deposition testimony about the
10 conversation that was held between Dr. Bold and Dr. Blatt
11 immediately in the operating room, I believe -- I'd have
12 to look and read the quotes -- said that the first thing
13 that Dr. Bold told him was that he had penetrated the
14 skull base and penetrated the brain. So I think Dr. Bold
15 knew he had gone through the cribriform plate into the
16 brain cavity.

17 Q. So you're saying that if, in fact, he did go
18 through, that that in and of itself is negligence?

19 A. The negligence is built on a series of events.
20 And so being in the wrong place, moving too quickly and,
21 therefore, apparently with too much vigor, created an
22 injury that should not have happened.

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1 Now you could certainly, in this guise of injuries,
2 happen and -- you know, I could imagine doing this
3 surgery and the nurse that's standing next to me bumps my
4 elbow and my instrument goes into the brain. That's not
5 negligence. And that kind of bad thing could happen. I
6 could slip and fall down, or the patient could wake up
7 and move.

8 But being lost in the wrong place, acting too
9 aggressively and causing an injury that's a -- in a place

10 that is warned of in textbooks -- don't go there -- is, I
11 believe, negligence.

12 Q. Dr. Bold also said that he -- excuse me, you
13 say in your report, correct me, that you saw no signs or
14 symptoms of disruption of bone?

15 A. That's correct. On the preoperative CT scan.

16 Q. Okay. Does that condition always show on a
17 preoperative CT?

18 A. Well the CT scan is the best we've got in terms
19 of visualizing this. So again, Dr. Blatt gives a nice
20 comment in his deposition that says, "To see this well,
21 you need thin slice CT scan in a coronal plane." That's
22 what we've got; they're three millimeter slices, coronal

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1 plane. And in every view, there's bone where it's
2 supposed to be -- between the eye and the sinus and
3 between the brain and the sinus.

4 So your question was, do I think it always shows up?
5 There may be very, very small areas where there's an
6 absence of bone that wouldn't show up because the
7 resolution of the CT scan is only measured in tenths of
8 millimeters and millimeters and so on. But for all
9 practical purposes, any dehiscence that I've ever seen
10 would show up, and people would use exactly this kind of
11 study to determine whether there was a dehiscence and
12 there was none.

13 Q. Can polyps cause thinning and devascularization
14 of bone?

15 A. Thinning, yes. I don't know about
16 devascularization. The bone in this area gets all its
17 blood supply from the periosteum, and so that's still
18 there. They're still going to have blood supply to the
19 bone.

20 Q. Well in summary on this, Dr. Koch, do you
21 reject the argument that unusual thinning of her bones
22 here contributed to the complication?

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1 A. Yes, I do. I do think that if she'd had very
2 thick bone here, you could have come in with very
3 inappropriately aggressive maneuvers and not caused an
4 injury. But standard of care would require that a
5 skilled surgeon recognize the risk, stay out of the areas
6 of known danger, and behave very delicately. And that
7 did not happen.

8 Q. Dr. Bold testified in his deposition, I think
9 at page 31, that he found some obliteration of the
10 ethmoid bone and of some obliteration of the turbinates
11 between the polyps. A, do you think that -- do you
12 quarrel with whether he found that or not?

13 A. No. Polyps -- see there's bone between all the
14 sinus cavities, and then there's bone that is around the
15 sinus cavities. And polyps do tend to cause a loss of

16 bone substance in the walls between the various sinus
17 chambers. So it is a common thing, when you have
18 somebody that's had large nasal polyps like this, to go
19 in and find very little internal structure of the
20 sinuses.

21 Q. But you don't think that contributed to the
22 outcome here?

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1 A. I do not.

2 Q. And Dr. Bold also said, I believe, he saw
3 generalized thinning of the bone on the CT. Do you
4 disagree with that?

5 A. I wouldn't have characterized it in that way.
6 So I don't think it's a major point of disagreement.
7 There may have been a little bit of thinning of the bone.

8 Q. I think he also mentioned that the interface --
9 and I'm trying to quote this -- the interface between the
10 polyps and the bone was very close. Do you know -- do
11 you understand what he means by that?

12 A. Well there were polyps all the way up to the
13 outside edges of the sinus cavities.

14 Q. As he describes the amount and type of polyps
15 that she had, is that something quite extensive in the
16 range of people that have polyps in the nose?

17 A. I've seen people whose polyps come out the
18 front of their nose, but this was just one step before

19 that. It was fairly extensive polyp disease from what I
20 can tell.
21 Q. And you've operated on patients like this with
22 extensive polyp disease? I don't mean her comorbid

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1 condition.
2 A. Yes, I have.
3 Q. You may have -- I think we've covered some of
4 this. Is the cribriform area and the ethmoid area always
5 a danger zone? Is that what you're saying?
6 A. Well the ethmoid is lateral to the middle
7 turbinate.
8 Q. Okay.
9 A. And the bone there tends to be thicker. It
10 also is a little higher than where the cribriform is.
11 And where these vessels that we've talked about -- the
12 anterior and posterior ethmoid arteries -- come through
13 into the ethmoid, the bone becomes thin. So on the
14 medial or middle side of the ethmoid roof, even though
15 you are medial to -- or, I'm sorry, lateral to the middle
16 turbinate, there is an area that is thin that you need to
17 be careful of. But the cribriform is the thinnest and
18 most in danger.
19 Q. Right. What is a turbinate exactly?
20 A. Turbinates are the normal tissues that protrude
21 from the sidewall of the nose. There are at least three

22 of them -- inferior, middle, superior -- on each side.

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1 They are usually a thin plate of sort of curved bone with
2 mobile -- or I'm sorry, mucus membrane that is -- we call
3 it erectile tissue. It's got big vascular channels, and
4 so the tissue can become swollen and engorged or very
5 thin, depending on a variety of outside stimulants, and
6 that's what gives you stuffy noses or not. It's what
7 warms and humidifies the air you breathe.

8 Q. Okay. How much, Doctor, medical-legal review
9 do you do?

10 A. I review roughly four to six cases a year. And
11 I've done it only for three years or four years now.

12 Q. And by review, just so we're clear, you getting
13 some records in and an attorney for either side saying,
14 "Doctor, I'd like you to look at this and see what you
15 think"?

16 A. That's right.

17 Q. Okay. Four to six per year for about three
18 years.

19 A. That's right.

20 Q. What's been the percentage rough breakdown
21 between plaintiff versus defendant on the review?

22 A. It's roughly 50/50.

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1 Q. Are you listed, to your knowledge, with any
2 type of service or booking agency or whatever you call
3 it?

4 A. Not that I'm aware of.

5 Q. How did you get this case, Dr. Koch?

6 A. You know, I'm not sure. People call Johns
7 Hopkins because of the name recognition, and I guess
8 we're far enough away from Cleveland. And I, at the time
9 that this case came in, was the major person doing sinus
10 surgery, so whoever got the call first said, oh, you
11 should talk to Dr. Koch.

12 Q. Have you worked with this attorney before?

13 A. You know, I may have reviewed one other case
14 for Mr. Zucker several years ago. So maybe that is how
15 we got together. I'd have to go back and look.

16 Q. Do you recall reviewing any other cases for any
17 other members of his firm?

18 A. No.

19 Q. Okay. Other than the one article that you
20 mentioned, have you done any other research involved in
21 this case?

22 A. Well I looked at the textbook of

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1 "Otolaryngology Head and Neck Surgery" that our chairman,
2 Charles Cummings is the senior editor on, and found a
3 chapter that nicely describes this area in the middle of
4 the roof of the nose and its danger. That only to
5 confirm what I've been taught all through my training and
6 what I teach people now, and that is to stay away from
7 the area.

8 Q. What's the name of the textbook that you
9 mentioned?

10 A. It's called "Otolaryngology Head and Neck
11 Surgery." It's a four-volume text. The lead editor is
12 Charles Cummings.

13 Q. C-u-m-m-i-n-g-s?

14 A. That's right. And the chapter I looked at is
15 written by a Dr. Terrell, T-e-r-r-e-l-l, and it's
16 something about sinus surgery. I could find it --

17 Q. Do you do more sinus surgery than any of the
18 other E&T doctors there at Johns Hopkins or --

19 A. I did until last year when we brought in a
20 young man who is focusing on that as his main career
21 focus.

22 Q. What percentage of your surgery is sinus

1 surgery, would you say?

2 A. About a third. I'm a head-and-neck cancer

3 surgeon, and so a fair amount of what I do is that. But
4 I do sinus surgery frequently.

5 Q. Just give me a couple more minutes --

6 A. Sure.

7 Q. -- to look at my notes; we may be done. Would
8 you agree that the patient did have extensive nasal sinus
9 disease?

10 A. Yes.

11 Q. I believe Dr. Bold mentioned in his deposition
12 that sometimes the boundaries between the paranasal sinus
13 and the cranial cavity cannot always be identified
14 because of disease lying on top of the bone. Does that
15 make sense to you? Do you understand what I'm saying or
16 he's saying?

17 A. Yeah, I think I understand it from a practical
18 point of view. You want me to comment on it?

19 Q. Yes, please.

20 A. If you have to go there, you would want to go
21 there with extreme caution. Meaning be very delicate;
22 stop if there's any bleeding; have neurosurgery know that

1 you're up there -- I do this for tumors sometimes.

2 The tissue is like the inside of an egg, and so
3 there is a membrane -- a thin membrane in a healthy
4 person. It's thickened and becomes a polyp in this kind
5 of a situation. Which like the membrane inside an egg,

6 you can peel away if you're very careful. And the bone
7 is about the thickness of a thin egg. And again, you can
8 peel the outside, the sinus side tissue away. Then you
9 can take an instrument and very delicately chip pieces of
10 the bone away, and all of that without injuring the next
11 tissue out, which would be the tough tissue around the
12 brain or the tough tissue around the eye. So you can
13 find that boundary and dissect it if you're very careful.

14 On the other hand, in a case like this one, the best
15 thing would be not to go anywhere near it; not to try to
16 identify it.

17 Q. Because of the risk?

18 A. Because of the risk to it, yeah. And so in a
19 practical sense, it probably was wise not to try to
20 identify precisely the bone at the roof of the nose. On
21 the other hand, you have to stay away from the area then
22 and know where you are with relationship to it. So even

1 though you haven't identified it directly, you got to
2 stay away from it. So it means -- I guess it depends on
3 what you mean by identify.

4 Q. Dr. Bold also mentioned that he tested for
5 stability of bone by pressing gently. Is that --

6 A. That's fine.

7 Q. -- how one tests for stability?

8 A. That's an acceptable way, yes.

9 Q. He also said at page 74 that when he pulled or
10 grasped the polyp, I guess the one in question, and
11 uncovered -- he uncovered the dehiscent bone and there
12 appeared to be a defect in the dura. Do you disagree
13 with that characterization?

14 A. Yeah, I think I disagree with the
15 characterization. The whole discussion in the latter
16 part of his deposition is appropriate language about
17 being delicate and careful. And the logical problem I
18 have with it is a major injury occurred that would not
19 have occurred, I believe, had this approach been taken
20 the way it's described here. And so I'm not sure how to
21 rectify those things except that the facts say at some
22 point the description that he gives is not what happened.

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1 Q. Do you think there was not a defect in the
2 dura? A preexisting defect?

3 A. The only defect in this area would have been
4 the small sheathes or sleeves that come in along with
5 olfactory nerves. And so this is an area where it would
6 be easy to tear dura when you're pulling the bone away.
7 And so there may have been a defect in the dura but not a
8 preexisting defect in the dura.

9 Q. He also went on to say that the dura was likely
10 tethered to the underside of the bone that came with the
11 polyp.

12 A. Yes. It's very closely associated with that
13 bone.

14 Q. Is your point again though that he should not
15 have been there?

16 A. Shouldn't have been there. When a neurosurgeon
17 elevates the frontal lobes in a craniofacial resection,
18 he takes 15, 20 minutes to elevate the dura away from the
19 cribriform plate very, very carefully. And then he still
20 has to put stitches in there to stop the CSF leak. So,
21 yeah, the dura is tightly adherent to the cribriform
22 plate.

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1 Q. Are you saying that he should not have been up
2 in that area?

3 A. That's right.

4 Q. Okay. I'm sorry. All right, Doctor, I
5 think -- do you think we've covered all of your standard
6 of care opinions here?

7 A. I believe we've covered all the broad
8 categories, yes.

9 Q. Okay. That's all I have then. Thank you.

10 MR. ZUCKER: Thank you, counselor. Doctor, you
11 have the right to review the transcript for errors of any
12 sort and to list those. I would suggest that you avail
13 yourself of that right.

14 THE WITNESS: Yeah, I'd like to do that. Yes.

15 MR. ZUCKER: Okay. Court Reporter, you'll send
16 that directly to the doctor then?

17 COURT REPORTER: Yes, I will.

18 MR. ZUCKER: Very good. All right, Doctor, I
19 thank you for your time. Counselor, thank you.

20 MR. FRASURE: All right. Thank you very much.
21 And we'll waive the 7-day requirement or whatever if he
22 needs more time to read.

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1 MR. ZUCKER: I appreciate that.

2 THE WITNESS: Thank you.

3 MR. FRASURE: Thank you, sir.

4 THE WITNESS: Good-bye.

5 MR. FRASURE: Bye-bye.

6 THE VIDEOGRAPHER: This marks the end of tape
7 No. 1 of 1 in the deposition of Dr. Wayne Koch. The time
8 is 12:24:47. We are off the record.

9 (Whereupon, at 12:24 p.m., the taking of the
10 deposition concluded.)
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1 CERTIFICATE OF DEPONENT

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3 I hereby certify that I have read the foregoing
4 pages of my deposition testimony in this proceeding, and
5 with the exception of changes and/or corrections, if any,
6 find them to be a true and correct transcription thereof.

7

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Deponent

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Date

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NOTARY PUBLIC

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Subscribed and sworn to before me this _____

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day of _____, 20____.

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1 UNITED STATES OF AMERICA)

2 STATE OF MARYLAND)

3 I, Cindy Davis Strohmaier, the reporter before
4 whom the foregoing deposition was taken, do hereby
5 certify that the witness whose testimony appears in said
6 deposition was sworn by me; that the testimony of the
7 witness was taken by me in machine shorthand and
8 thereafter transcribed at my direction; that said
9 deposition is a true record of the testimony given by
10 said witness; that I am neither counsel for, related to,
11 nor employed by any party to the action in which this
12 deposition was taken; and, further, that I am not a
13 relative or employee of any attorney or counsel employed
14 by any party hereto, or financially or otherwise
15 interested in the outcome of this action.

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19 Cindy Davis Strohmaier,
20 Notary Public in and for
21 State of Maryland
22 My Commission expires June 7, 2004.

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