

1 *(Brief pause in proceedings.)*

2 MS. LAMBERT: State calls Dr. Randy Marcel.

3 *(Witness sworn by the Court.)*

4 THE COURT: Proceed.

5 **RANDY MARCEL, MD,**

6 the witness hereinbefore named, having been duly sworn by
7 the Court, testifies under oath as follows:

8 **DIRECT EXAMINATION**

9 **BY MS. LAMBERT:**

10 Q. Could you please introduce yourself to the Members
11 of the Jury.

12 A. Dr. Randy Marcel.

13 Q. And what do you do for a living?

14 A. I'm an anesthesiologist?

15 Q. How long have you been practicing as an
16 anesthesiologist?

17 A. Private practice, since 1994.

18 Q. What kind of educational background and training
19 do you have that allows you to practice as an
20 anesthesiologist?

21 A. I went to medical school in -- at Mercy University
22 School of Medicine in Georgia. And then I did my anesthesia
23 residency training at UT Southwestern here in Dallas. And
24 then I stayed on and did a fellowship in transplant and
25 cardiac anesthesia in downtown Baylor, where I remained on

1 staff for 13 years at downtown Baylor.

2 I was the assistant director of anesthesia and medical
3 services there for five years, before leaving there in '05;
4 and then went to Baylor Plano, when it was built, and was
5 medical director and director of anesthesia services at
6 Baylor Plano. And then, when the heart hospital was built,
7 my practice shifted mainly to cardiac.

8 Since that time, I've been serving as medical director
9 at both facilities until 2013.

10 Q. And what do you do now?

11 A. My practice now is mainly gravitated towards
12 cardiac anesthesia, minimally-invasive. But specifically
13 cardiac anesthesia and valve repairs. Minimally-invasive
14 robotic valve services.

15 Q. So back in 2012, did you serve on any committees
16 for the hospital?

17 A. Yes. In 2012, as director of anesthesia and
18 medical services for anesthesia services, I was on the
19 Quality Committee and also the Medical Exec Committee.

20 Q. We have already heard from Dr. Sample. Were you
21 on the same Medical Executive Committee as Dr. Sample at
22 that time?

23 A. Yes, that's correct.

24 Q. Is there only one of those at that hospital?

25 A. There's one Quality Committee and there's one

1 Medical Exec Committee.

2 Q. We've been hearing a lot about "peer review"
3 today.

4 Can you kind of tell us what peer review is and what
5 the concept of peer review is.

6 A. Peer review is an internal review that's in the
7 process of -- from a hospital, whereby cases are -- patient
8 cases that are at the hospital are reviewed and graded by a
9 committee to ensure that there's ongoing quality of care.
10 And if there's any areas that need improvement, then the
11 Committee often will recommend such improvements to the
12 providers.

13 Q. Okay. And why -- what's the purpose of the peer
14 review?

15 Is it for the physician? Is it for the hospital?

16 A. No. It's strictly an internal thing for the
17 hospital and for the staff to -- so that Baylor can try to
18 maintain quality. So, it's really an internal review. It's
19 not meant for outside review. It's really an internal
20 process that takes place.

21 Q. Okay. And why is it so confidential?

22 A. Well, I think the reason for that is, is that
23 there's sensitive cases that come before the area of -- our
24 emphasis is mainly on quality, to ensure the physicians are
25 comfortable with self reporting and being -- reporting to

1 these committees so we can be trustworthy and reliable; that
2 those processes are going to be fair to the physicians that
3 are involved so that ongoing quality can be assured, without
4 being punitive from an outside source.

5 Q. Is it a big deal, as a physician, to be notified
6 that your cases are being sent to the Peer Review Committee?

7 A. Well, I don't know if the right word's "a big
8 deal". You take that seriously. I mean, you would
9 certainly wanna be involved in that process.

10 Q. Let's talk about the Defendant. How are you
11 related to this case?

12 A. I was on the Quality Committee at the time and was
13 asked to review the anesthesia care that was involved on a
14 case at Baylor Plano.

15 Q. Okay. Do you recall the name of the patient on
16 that case?

17 A. Kellie Martin.

18 Q. And what records did you review in coming to a
19 conclusion or in reviewing her case?

20 A. The entire chart, medical file.

21 Q. Did you review the case by yourself? Or did the
22 whole Committee review it? How does that work?

23 A. So, when there's a case that involves surgical
24 care, I'm the anesthesiologist expert on the Committee. So
25 I'm given the entire chart to review and the entire case.

1 Any quality issues that relate to the anesthesia or
2 anesthesia care, then I serve to report back to the Quality
3 Committee, which then -- there's a discussion usually within
4 the Quality Committee about that case and what my findings
5 were and any recommendations that I might have to the
6 Committee.

7 And then the Committee makes a decision about those
8 recommendations and decide to move forward with whatever
9 decision they make.

10 Q. Dr. Marcel, I'm going to show you what's been
11 marked as State's Exhibit 61. What is that?

12 A. That's the anesthesia record for Kellie Martin.

13 Q. And what date did this reflect her surgery
14 occurred?

15 A. 3-12-2012.

16 Q. And who was the anesthesiologist?

17 A. It indicates Dr. Isaac.

18 Q. And the surgeon?

19 A. Dr. Duntsch.

20 *MS. LAMBERT:* The State offers State's
21 Exhibit 61.

22 *MR. FRANKLIN:* Same: 404(b), Judge.

23 *THE COURT:* Overruled. Admitted.

24 Q. (*By Ms. Lambert*) I'm going to put this up on the
25 big screen, Dr. Marcel. You can look to your right.

1 A. Okay.

2 Q. Okay. So, to the rest of us, this looks like
3 some --

4 A. Jibberish.

5 Q. Yes. Okay. What are these check marks and arrows
6 here (indicating)?

7 A. So, the top check marks that are going up would
8 indicate the systolic blood pressure during the case. The
9 check marks that are down would represent the diastolic
10 blood pressure during the case.

11 The little dots that are every five minutes are the
12 pulse rate that correspond to that time.

13 Q. Okay. And, on here, does it also show where blood
14 pressure medication was administered?

15 A. Yes. Under the top left are the list of drugs
16 that were administered during the operation.

17 If you look at the sixth one down (indicating) --

18 Q. You can actually touch the screen.

19 A. Oh. Okay. The sixth one down here (indicating),
20 that's ephedrine. Approximately, over to the right -- at
21 the top is the time. So, over to the right, approximately
22 9:25, there's 10 milligrams of ephedrine given. And then
23 some ten minutes later another five milligrams, then
24 10 milligrams, 20 milligrams. I can't quite read that. I
25 think it's another five and 10 milligrams.

1 Q. Okay. You said these dots down here, those --
2 that's the pulse (indicating)? Is that what you said?

3 A. Yes. The dots that go across here, here, here,
4 here, those are pulse rates (indicating).

5 Q. Okay. And when blood pressure drops during
6 surgery, what does that indicate?

7 A. Well, it can have a variety of things. It can be
8 origin -- I mean, it has to be of origin from the
9 cardiovascular system, because that's what generates blood
10 pressure.

11 When you have a falling blood pressure, in the light of
12 a rising pulse, then you most often think blood loss is at
13 the top of the list, by far.

14 Also, I neglected to say -- can I go back?

15 Q. Absolutely.

16 A. Right here, it says "Fenfedrin" (indicating).
17 Those are blood pressure medicines. At the end of the case,
18 there's 100, 200, 300 milligrams given. And then below
19 that, epinephrin. And there's ten, ten, ten milligrams
20 given all at the end of the case.

21 Q. And why is that significant?

22 A. Because, at the end of the case, you see, as time
23 goes along, the very last 30 minutes of the case, there was
24 a precipitous drop in blood pressure to 60 milligrams of --
25 60 milliliters of mercury. And the heart rate was as high

1 as 120.

2 So it looks like the anesthesiologist was aggressively
3 treating blood pressure at that point.

4 Q. You said, when the blood pressure drops, the first
5 indication that you think of is bleeding; is that correct?

6 A. Well, I mean, in the surgical setting then, yes.
7 Frequently, you want to think of bleeding and make sure that
8 there's no excessive bleeding occurring.

9 Q. When the blood pressure drops, what does the
10 anesthesiologist do in response to that?

11 A. Well, quite often, you try to administer fluids
12 and try to bring the blood pressure back up to restore the
13 blood volume.

14 A temper-rising measure would be to administer aphasia
15 pressure drugs. In this case, it was three different
16 aphasia pressure drugs given, as I just pointed out.

17 Q. That was an attempt to bring that blood pressure
18 back up?

19 A. Right. There would also be, at this point,
20 communication with the surgical staff to ensure that there
21 was not bleeding occurring that was not visible to the view
22 of the anesthesiologist at the head of the table.

23 Q. Okay. So what would that look like?

24 What should the anesthesiologist do at this point?

25 A. They would be speaking to the surgeon and the

1 surgical staff and asking questions; ,such as, "Is there
2 excessive blood loss or something going on in the field that
3 I cannot see?"

4 Quite often today the incisions are pretty small,
5 because there's a trend towards minimally-invasive surgery.
6 So some of the incisions can be quite small, and blood loss
7 may not be evident unless you're in the direct surgical
8 field.

9 Q. If the surgeon is telling the anesthesiologist
10 that there's no blood in the operative field, what can that
11 be indicative of?

12 A. If a surgeon's saying there's no blood in the
13 field?

14 Q. Yes.

15 A. I mean, it could be that there's no bleeding
16 occurring in the field.

17 Q. But there's a drop in blood pressure and a rise in
18 the pulse.

19 A. Yes.

20 Q. And so does that still mean there's no bleeding
21 occurring?

22 A. No. No. It may be, you know, a bleeding that's
23 occurring at a different site. It can be an injury that was
24 unforeseen in the site. At that point, you know, you'd want
25 to be checking some parameters to make sure that that was

1 the case.

2 Q. Okay. Is there -- what kind of testing can you do
3 to test for that?

4 A. Well, at this particular facility, there's a
5 bedside monitor called an "i-STAT" -- I, hyphen, s-t-a-t
6 (spelling) -- where you can draw blood, and it will give you
7 some basic labs at the bedside in a just a few minutes.

8 Q. Okay. So, looking at this, we see that first drop
9 right here (indicating).

10 A. Yes.

11 Q. Okay. So, we see that first drop right there.

12 A. Correct.

13 Q. And does that appear to be about 9:15 or 9:10?

14 A. Yes. About 9:10, 9:15.

15 Q. Okay. So, that's that first drop.

16 A. Correct.

17 Q. Does that indicate to us that that may be when the
18 surgical injury occurred, that would be leading to blood
19 loss?

20 A. Yes. Certainly possible at that point. I don't
21 see any indication that that blood pressure was lowered on
22 purpose.

23 Sometimes, for minimally-invasive surgeries, we lower
24 the blood pressure so there's minimal bleeding. Because the
25 surgeon is looking through a small incision, so any bleeding

1 can be overwhelming in that tiny incision.

2 But I don't see any indication that that was the case;
3 that the blood pressure was lowered on purpose.

4 So the fact that that blood pressure dropped from 100
5 plus to below 80's would indicate that something at that
6 point was going on. That would have alerted me at that
7 point.

8 Q. Okay. So the surgery started -- this reflects the
9 surgery started around 8:32. Is that what that says?

10 A. I think 8:36 is the exact time, in the bottom
11 right.

12 Q. Okay. And so then 9:10 or so is when that first
13 blood pressure -- an indication that the blood pressure
14 dropped, correct?

15 A. That's correct.

16 Q. Okay. So then this entire rest of the time, the
17 blood pressure is low. And it drops again here, correct
18 (indicating)?

19 A. Correct.

20 Q. Okay. And so what time does the -- did the
21 surgery end?

22 A. It looks like about 11:40. On the bottom right,
23 exact surgical time would be the intraoperative record from
24 the nurse. But the anesthesia actually stopped it at 11:44,
25 it looks like.

1 Q. Okay. So Kellie would have been potentially
2 bleeding from 9:15 until the end time?

3 A. Correct.

4 Q. Okay. And tell us, when a person is losing blood
5 or bleeding internally during a surgery, what kind of issues
6 can that cause?

7 A. Well, I mean, the immediate issue is what you're
8 seeing here, is a drop in blood pressure, rise in heart
9 rate.

10 If that's sustained over a long period of time then,
11 eventually, you start to get organ failure. The large organ
12 beds suffer the most. The legs may become ischemic, may
13 become painful. The liver may start to not function.

14 If there's a large blood loss, the clotting factors
15 that are in the blood would start to be lost and then there
16 would be ongoing bleeding due to coagulopathy. That's where
17 the clotting factors have been used up by the clotting
18 process, because of the overwhelming blood loss.

19 Q. So that might result in blood that's a little
20 thinner and different in color than blood that's been
21 clotted; is that right?

22 A. Yes, that's correct.

23 Q. And why does the pulse rate -- what relation does
24 the pulse rate have to the blood pressure?

25 Why do we see that rise?

1 A. That's a reflection where the heart is trying to
2 overcome the loss of blood and volume.

3 So, as the heart -- if you think of the heart as a pump
4 and the fluid that's coming into the heart, the heart pumps
5 out. If there's less fluid coming in, the heart has to work
6 harder and faster to get that same amount of fluid out of
7 the heart to profuse the organ beds that are downstream from
8 the heart.

9 Q. Okay. So when the blood is not distributing --
10 when the blood pressure is low, the blood is not
11 distributing the oxygen and nutrients to the vital organs,
12 correct?

13 A. That's a basic way of looking at it. Correct.

14 Q. Is there any way to calculate the amount of time
15 it would take for that to do damage to someone?

16 A. Well, I mean, every individual is a little bit
17 different. But all individuals, at some point, with ongoing
18 blood loss would have irreversible organ damage.

19 The thing that's most often feared is hypoxic brain
20 injury, where the brain cannot get enough oxygen and then
21 the brain would slowly die and the person would have an
22 oxygenic injury and death.

23 Q. In your review of this case, you had some
24 criticisms of the anesthesiologist, correct?

25 A. Yes.

1 Q. Is it fair to say that your strongest criticisms
2 occur in that last 45 minutes of the surgery?

3 A. Yeah, I think that's fair to say.

4 Q. Okay. And what did you think he should have been
5 doing at that point?

6 A. I think he should have properly been checking some
7 of the i-STAT levels at this point, hemoglobin levels at
8 this point.

9 It looks like --

10 Q. And if you want to mark on the screen, you can
11 show the jury where --

12 A. Well, I just need to see the bottom. The bottom
13 is cut off right there.

14 Q. Oh.

15 A. So, he doesn't record fluids right here. They
16 might have been recorded in the ICU record. But, at this
17 point, he should have been administering a lot of fluids. I
18 can't recall the exact amount, because I didn't look it up
19 at the time.

20 I was critical of the last little part, where he should
21 have checked labs and been, in my opinion, more aggressive.

22 Q. And when you're reviewing the case in a peer
23 review context, how are you looking at this case?

24 A. In the peer review quality, I mean, we are grading
25 this with the utmost care and we are being very aggressive

1 with the grading system.

2 The goal here, again, of the Quality Committee is to
3 have an A+ rating on all care that's administered at Baylor.
4 So we're very critical of anything that goes on, and we're
5 very aggressive about bringing that physician in and talking
6 to them and trying to begin -- the goal here is to include
7 quality and get the highest quality of care.

8 So any reviews that I do on quality are always graded
9 with the utmost sternness, if you will.

10 Q. If a person is bleeding internally, and the blood
11 pressure drops, is there a point in which there will be
12 nowhere else for the blood to go?

13 Does the space that it can fill into, will it fill up?
14 How does that work?

15 A. It depends on the site. In this case, it was a
16 lower-back operation. And so there's only a few places for
17 it to go, because it's a relatively-closed, tight space.

18 Blood at that point would have been going -- would have
19 been coming up out of the surgical field, I would think, at
20 a pretty brisk rate. Also, blood would have been going
21 posterior into a retroperitoneal space at that point.

22 Q. So if the surgeon is saying, "I'm not seeing any
23 blood. I don't know what the problem is," you believe that
24 wouldn't be the case. Is that fair? Because you think it
25 would be coming up through the surgical site?

1 A. Well, I mean, blood doesn't choose a left or
2 right. It's going to go both left and right. So blood
3 would have been coming out of the surgical site at a
4 brisk -- more than normal brisk rate, and also been going
5 posteriorly.

6 Blood is going to take the path of least resistance, so
7 it's going to go where the easiest place to go is, if you
8 would. So it's going to come out of that surgical site.
9 It's going to be a noticeable thing.

10 Q. If blood were going into the retroperitoneal space
11 and were to fill up that space and kind of create pressure,
12 would the patient feel that when they were awake?

13 A. Well, what happens is, blood starts to fill that
14 space. There's -- we call it a "space" but it's really just
15 a potential space. There are some important structures back
16 in that space: the vena cava, the aorta's in there, some
17 parts of the bowel, duodenum, if you would, is in that
18 space.

19 One of the most important structures back there are the
20 nerves and stuff that leave the back and go through some
21 large muscles in that space. So the nerves that leave your
22 back and go down to your legs, that provide feeling in your
23 legs, are all in that space.

24 So, to answer your question, if that space was full of
25 blood and was very tight and the patient was awake, they

1 would complain of excruciating pain from the pressure of
2 those nerves. So the pain would have been quite severe into
3 the lower extremities.

4 Q. Can it cause paralysis, of any sort?

5 A. Sure. If -- we've seen that in patients before,
6 with retroperitoneal bleeds, where the leg -- nerve was
7 compressed. Unable to move.

8 Q. And so we talked about that last 45 minutes. That
9 would be roughly like this time period here, that you really
10 would have liked to have seen the anesthesiologist be more
11 aggressive; is that correct (indicating)?

12 A. Yes. Absolutely.

13 Q. So, let's say that he had done the hemoglobin test
14 that you suggested and had started administering some fluid
15 and some blood.

16 Is there a possibility that he could have kept Kellie
17 alive longer?

18 A. I think it's possible. This is a pretty
19 precipitous drop. That would indicate there was an ongoing
20 significant blood loss at that point.

21 Q. And she had been bleeding possibly from this point
22 all the way through here, correct (indicating)?

23 A. Yes.

24 Q. And so if he had been able to keep her alive a
25 little longer, do we know what state she would have woke up

1 in, if she would been kept alive?

2 A. Well, I mean, I can speculate as to what that
3 would have been. I mean, at that point, with that
4 hypertension and the tachycardia, that's a significant blood
5 loss.

6 I think, at that point, you're starting to get into
7 organ damage. And I can only imagine that she would have
8 woke up with possible ongoing neurological damage to the
9 lower extremities or widespread organ failure, that would
10 have led to death.

11 Q. And that's because there's no way to predict which
12 organs didn't get the blood they needed, correct, during
13 that time period?

14 A. Right. They probably all didn't get the blood
15 they needed at that point. Which organ would fail first or
16 which would be more severe is anybody's guess.

17 Q. Ultimately, the Medical Executive Committee, when
18 they reviewed Kellie's case, did they find that Dr. Isaac,
19 the anesthesiologist, was the cause of Kellie's death?

20 A. I wasn't privy to that final -- the grading came
21 from the Quality Committee. Dr. Isaac was graded as below
22 average. "Needs improvement" was his final grade.

23 Q. And that was based on your critique that you would
24 have liked him to be more aggressive?

25 A. And the discussion with the Quality Committee,

1 yes.

2 Q. But Dr. Isaac didn't cause the bleed, correct?

3 A. No.

4 Q. Is that what the Committee determined?

5 A. Yes.

6 Q. There was no doubt about that.

7 A. No.

8 Q. Correct?

9 A. Absolutely none.

10 Q. And Dr. Isaac could not have fixed the bleed
11 itself.

12 A. No. No.

13 Q. As an anesthesiologist, that's not his role.

14 A. No. Absolutely.

15 Q. Best, he could have managed the -- he could have
16 given fluid, given blood and tried to manage the situation,
17 correct?

18 A. Correct.

19 Q. Without fixing the bleed, would she have
20 eventually bled to death anyway?

21 A. I think the ICU records would indicate that, yes,
22 she did in fact bleed to death.

23 MS. LAMBERT: Pass the witness.

24 **CROSS EXAMINATION**

25 **BY MR. FRANKLIN:**

Victoria Franklin, Official Court Reporter
214.653.5943

1 Q. Doctor, is that document up here the only thing
2 that you reviewed?

3 A. No, sir. As I stated earlier, I reviewed the
4 entire chart.

5 Q. You didn't review anything about the surgery
6 itself, did you?

7 A. I'm not sure I understand that question. The
8 entire surgery was in the chart.

9 Q. All right.

10 A. The surgical records were in the chart.

11 Q. Okay. But your focus was on the anesthesiologist;
12 is that correct?

13 A. The focus -- my job on the Quality Committee was
14 to critique the anesthesiologist's care. But you can't do
15 that, without looking at the entire chart and the entire
16 process and the entire surgery.

17 Q. So you reviewed what happened in the ICU?

18 A. Yes.

19 Q. Okay. And do you recall how long she survived in
20 the ICU?

21 A. I don't recall the exact time. But it was more
22 than minutes, less than hours.

23 Q. And what is the function of a vascular surgeon?

24 A. Vascular surgeon is somebody that works on the
25 vasculature of the body.

1 Q. And that would have been vascular surgeons at
2 Baylor Hospital during this time of the surgery?

3 A. I don't know if there was a vascular surgeon in
4 the operating suite at that time. But there was probably
5 vascular surgeons on staff, yes. I think that's your
6 question.

7 Q. Yes, that's the question. And you don't know what
8 the final outcome of the peer review report was?

9 A. With regards to which physician?

10 Q. With regard to the surgeon, Dr. Duntsch.

11 A. No. With regard to the surgeon during the peer
12 review process, there was discussion about this case.

13 During the Quality Committee meeting, it was suggested
14 that we possibly suspend privileges until we can get more
15 information, until we can figure out what was going on.

16 That recommendation was sent to the Medical Exec
17 Committee at that time, which I also served on. And in the
18 Medical Exec Committee meeting, that discussion was that the
19 medical exec agreed with that recommendation from the
20 Quality Committee.

21 And, at that time, the recommendation was taken forward
22 by the Baylor administration, with reference to the Baylor
23 lawyers at that time. From that process forward, I do not
24 have privy to that.

25 Q. Went up to the lawyers, did you say?

1 A. That's what I recall.

2 Q. Oh. Okay. All right.

3 MR. FRANKLIN: No further questions. Thank
4 you very much.

5 MS. LAMBERT: Nothing further, Your Honor.

6 THE COURT: Thank you, Doctor.

7 Ladies and Gentlemen, that's all the
8 testimony you're going to be hearing today. Let's meet
9 again at nine o'clock tomorrow morning.

10 THE BAILIFF: All rise.

11 *(Members of the Jury retire to the jury room*
12 *and are released for the evening.)*

13 MISS SHUGHART: Your Honor, I would like to
14 ask the Court to please seal the Baylor peer review records
15 that have been entered into evidence, so that they're not
16 out in the public. Of course, it doesn't seal it from the
17 jury. That would be State's Exhibits 79 through 84; and
18 Defense Exhibits 3, 6 and 8, because those records are
19 confidential and generally not subject to being in the
20 public at all.

21 MISS McCLUNG: No objection, Judge.

22 THE COURT: All right. Anything else?

23 MISS SHUGHART: That's it.

24 THE COURT: See you tomorrow.

25 *(Proceedings recessed for the evening.)*