

1 (Witness sworn)

2 MARCELLA DONARUMA,

3 having been first duly sworn, testified as follows:

4 DIRECT EXAMINATION

5 Q. (BY MS. ONCKEN) Good afternoon.

6 A. Hello.

7 Q. Can you please introduce yourself to the  
8 jury?

9 A. Hello. My name is Marcella Donaruma.

10 Q. And I think the judge might be raising the  
11 volume. You might want to pull the microphone a  
12 little bit closer.

13 A. (Complies.)

14 Q. Okay. How is that?

15 A. Can you hear me?

16 Q. I think so. Okay. Where are you currently  
17 working?

18 A. I'm employed by Baylor College of Medicine  
19 to work at Texas Children's Hospital and the  
20 Children's Assessment Center of Houston.

21 THE COURT: Did we change something?  
22 I can hardly hear her at all.

23 MS. ONCKEN: I know. Is the mike even  
24 on?

25 THE COURT: Yes, it's on. Okay. Just

1 talk louder.

2 THE WITNESS: Yes, your Honor.

3 Q. (BY MS. ONCKEN) Okay. Or you can move it  
4 aside and just project. Okay. So, you work at Texas  
5 Children's Hospital. And what do you do there  
6 specifically? What part of the hospital do you work  
7 in?

8 A. So, I am under the section of emergency  
9 medicine and the section of academic general  
10 pediatric and I spend 100 percent of my time in the  
11 field of child abuse pediatrics.

12 Q. And is it fair to say that Texas Children's  
13 Hospital is sort of the premier hospital in Houston  
14 when it comes to child care?

15 A. That's what all of our P.R. says. Yes, I  
16 believe that we work at a very high quality center of  
17 medicine.

18 Q. Okay. And the case that we want to talk to  
19 you today about involves an infant named Kamron Kelly  
20 who was treated in your hospital.

21 A. (Nods head.)

22 Q. March and April of 2010.

23 A. (Nods head.)

24 Q. And at that time -- and I'll go back to you  
25 a little bit more, but at that time would it be

1 normal if a child starts out at another hospital like  
2 L.B.J to be transferred to your hospital because  
3 you're the experts?

4 A. Yes. It's called a "transition to a higher  
5 level of care." So, if they come into a general  
6 emergency room that doesn't have specific pediatric  
7 facilities and they're, as Kamron was, in need of  
8 higher level and intensive life support, very often  
9 those hospitals will transfer them to us because  
10 we're what's called a "tertiary" --

11 THE COURT: Doctor --

12 A. -- meaning we have more subspecialists than  
13 most --

14 THE COURT: Doctor, you're going to  
15 have to slow way down. This court reporter is -- her  
16 eyes are like this giant. She needs to keep up.

17 THE WITNESS: I will do so, your  
18 Honor.

19 Q. (BY MS. ONCKEN) All right. Then I would  
20 like you, if you could briefly just let the jury know  
21 kind of your experience, your schooling, medical  
22 training, and all that that's gotten you to where you  
23 are today.

24 A. Okay. I graduated from Texas A&M. Then  
25 went to medical school at Baylor College of Medicine.

1 I went to St. Louis for my pediatric internship, my  
2 pediatric residency. And I was asked to stay as  
3 chief resident in pediatrics. Then I did what at  
4 that time was called a "child protection and forensic  
5 pediatrics fellowship," which was subspecialty  
6 training in the area of what is now called "child  
7 abuse pediatrics." I was hired here in 2006 here in  
8 Houston. And I passed my pediatric certification  
9 board exam and then I was eligible for the very first  
10 child abuse pediatric subspecialty board exam and I  
11 passed that exam.

12 Q. How many -- do you know how many doctors  
13 locally have that specialty and passed that board  
14 exam?

15 A. In Houston there are six of us, I believe.

16 Q. Okay. And your specialty again, just to  
17 make sure I got it correct?

18 A. Is child abuse pediatrics.

19 Q. Okay. And you have been working in the  
20 field of child care or child abuse for how many years  
21 now?

22 A. For six years now, and then my fellowship.

23 Q. How long was your fellowship?

24 A. It was one year what we called "intensive."  
25 So, I did the clinical work that most do in two years

1 in one year. So, just a few vacations and a few  
2 weekends off.

3 Q. Wow. All right. Then let's go back to  
4 Kamron Kelly. Were you the attending physician on  
5 Kamron's case?

6 A. I was attending in child abuse pediatrics  
7 as a consultant for him.

8 Q. Okay. And, so, what does that mean to be a  
9 consultant on a case?

10 A. So, what that means is that if Kamron had a  
11 sudden problem, like a drop in his blood pressure or  
12 a seizure, his primary attending critical care  
13 intensive care doctor would take care of him. A  
14 consultant comes in to answer a specific diagnostic  
15 question, and in this case it would be: Are these  
16 injuries consistent with an abusive injury, or does  
17 this raise the question of an underlying medical  
18 problem? So, I was the consultant.

19 Q. And is that because you are the specialist  
20 in the area of child abuse?

21 A. Yes, ma'am.

22 Q. Okay. And did you make a determination in  
23 Kamron's case?

24 A. Yes, ma'am, I did.

25 Q. And what was that determination?

1           A.       What I stated was that his injuries were  
2 consistent with abusive head trauma.

3           Q.       Okay. Let's talk about -- well, first of  
4 all, let's introduce a few things.

5                    MS. ONCKEN: At this time the State  
6 would like to offer State's Exhibit 110, which is the  
7 medical records from L.B.J. Hospital that have been  
8 on file for more than 14 days, a business record  
9 affidavit, and also State's 111, which are the Texas  
10 Children's Hospital records which also have been on  
11 file for more than 14 days with a business record  
12 predicate. And defense has copies.

13                   MR. HOCHGLAUBE: Judge, we've reviewed  
14 these. We don't have any objections to them.

15                   THE COURT: Being no objections,  
16 State's 110 and 111 will be admitted.

17                   MS. ONCKEN: Thank you.

18           Q.       (BY MS. ONCKEN) All right. And just in  
19 case you need to review those documents, now, did you  
20 also just before you testified also review what has  
21 been admitted as State's Exhibit 1, the autopsy  
22 report in Kamron's case?

23           A.       Yes, ma'am. I scanned some sections. I  
24 have not read it cover to cover.

25           Q.       Okay. So, I'll put that up there so we can

1 reference that if needed. Did you have an  
2 opportunity to discuss your findings in terms of your  
3 opinion that it was a child abusive case?

4 A. With the medical team?

5 Q. Well, okay. I guess first question: Is  
6 that something that you do with a team?

7 A. Yes, ma'am.

8 Q. And is this also -- is it kind of a  
9 training for other medical personnel as well to sort  
10 of understand what to look for?

11 A. Yes. We are a teaching hospital. So,  
12 there are doctors at all stages of learning: Those  
13 that have just graduated from medical school, those  
14 that are in the middle of the pediatric training,  
15 those who are in fellowship subspecialty training in  
16 intensive care, and then the attending. So, it's a  
17 team process.

18 Q. And did you also talk to a police detective  
19 from the Houston Police Department? Would they have  
20 been interested in your findings?

21 A. Yes. I can't recall a specific  
22 conversation, but that's part of so many of our  
23 cases.

24 Q. Of course. Now, I want to ask you about a  
25 term that I'm sure a lot of people have heard, the

1 term shaken baby or shaken baby syndrome.

2 A. Uh-huh.

3 Q. Do you -- how do I say -- you believe in  
4 that?

5 A. I believe this constellation of injuries  
6 certainly exists. We try very hard to avoid the term  
7 shaken baby syndrome because we weren't there. So,  
8 we now call it -- in the child abuse field we call  
9 that "abusive head trauma." I believe infants can  
10 suffer head trauma from child abuse.

11 Q. Okay. My question here then is: Based on  
12 your consultation and everything that you know about  
13 Kamron's injuries, was he, in your opinion, merely  
14 shaken or was this something more?

15 A. I believe this was what we would formally  
16 have called "shake and impact syndrome."

17 Q. Okay. And what was the major injury that  
18 baby Kamron had?

19 A. Brain damage.

20 Q. Okay. In addition to brain damage, under  
21 your observations at the hospital, did you observe  
22 any fracture to the baby's skull?

23 A. Yes. He had one fracture on the left side  
24 of his head back here in the parietal bone, which is  
25 behind the ear up high. (*Indicating.*)



1 Q. And after having a chance to review or  
2 discuss the medical records -- I'm sorry -- the  
3 autopsy, that reveals actually more than just the one  
4 that you observed; is that correct?

5 A. Yes, ma'am. That's correct.

6 Q. Why would an autopsy be able to reveal more  
7 than you were able to see?

8 A. Well, often we miss what are called  
9 "hairline fractures" in babies because they're what  
10 we say "acute," meaning fresh. Fresh fractures,  
11 which people sometimes call "hairline fractures,"  
12 don't always show up on an x-ray when they're just  
13 that hairline crack. But rather we get followup  
14 films to look for signs of bone healing where the  
15 bone cells all rush to the injury and they make sort  
16 of a bone bandage to keep those two ends together.  
17 And, so, we could miss those fractures on an x-ray  
18 because they haven't gotten to that stage of healing  
19 yet. It's a known fact and why in child abuse we get  
20 followup x-rays on many of our patients under the age  
21 of two.

22 Q. And looking here at State's Exhibit 27 that  
23 you can see on the screen above or to your left as a  
24 smaller screen, whatever is easier for you, can we  
25 see any kind of a fracture? Or what are we -- what

1 is the object? Do you recognize this object?

2 A. This looks like a part of a skull.

3 Q. That would be correct.

4 A. Okay.

5 Q. Do you see any fracture?

6 A. Yes, ma'am, I do.

7 Q. Can you point to it on the screen?

8 A. Yes, ma'am. So, these rough edges here are  
9 suture lines.

10 Q. Can you please hit it harder on the screen  
11 maybe?

12 A. *(Complies.)*

13 Q. There you go. You said they're --

14 A. Sorry. I'm in awe.

15 So, that red line is actually an  
16 outline of where the bone is supposed to be all one  
17 slightly curved surface. And instead you can see  
18 where the curve points out. Something has hit the  
19 bone so that that curve is pushed in the wrong  
20 direction and gone into the point where it can't  
21 bounce back anymore like a ping pong ball could. But  
22 instead it's pushed in to the point where the bone  
23 actually breaks. So, that red line is the break.  
24 And these rough jagged edges along the top side, that  
25 is actually part of the suture where it would attach

1 onto another bone and where the growth would happen.  
2 So, those are normal edges.

3 Q. And you had mentioned earlier the fracture  
4 on the left side, the left parietal bone; is that  
5 correct?

6 A. Yes.

7 Q. And is that what we're looking at in  
8 State's 27?

9 A. It's hard for me to tell out of context,  
10 but it looks very similar to what I saw on x-ray.  
11 So, I believe it to be that fracture.

12 Q. And it's very likely I've oriented it the  
13 wrong direction. Okay. Let's talk about what else,  
14 what other signs on Kamron that led you to believe  
15 that this was an impact. Head impact trauma; is that  
16 right?

17 A. Yes, ma'am.

18 Q. Okay. And would you call it a blunt impact  
19 injury?

20 A. Yes.

21 Q. Okay. And makes sense, but what does that  
22 mean to you or how should we understand that?

23 A. So, when we think of it as a blunt force  
24 impact, there are only two kinds of impacts we really  
25 talk about. So, there's blunt force impact and then

1 penetrating impact. So, if there was a knife wound  
2 or something, it would be penetrating. With blunt  
3 force, it just means something slams up against a  
4 hard surface very fast and very hard that leads to  
5 tissue damage. Because it hits so fast and so hard,  
6 the tissue can't bend like your ear would bend or  
7 your face would bend to diffuse the force but instead  
8 it gets damaged by the force.

9 Q. And that impact, could it be slamming? So,  
10 in this situation we're talking about the baby's  
11 head?

12 A. Yes, ma'am.

13 Q. Okay. Could that impact happen by slamming  
14 an object into the head and also slamming the head  
15 into an object?

16 A. Yes, either way.

17 Q. Okay. Is it possible that this could be  
18 violent shaking as well?

19 A. In addition to an impact?

20 Q. Okay. Would it be only consistent with  
21 this fracture if there was an impact in addition to  
22 shaking?

23 A. Yes. This indicates an impact, not shaking  
24 alone.

25 Q. Okay. This is not merely shaking?

1           A.     Yes, that's correct.

2           Q.     Okay.  Let's talk about -- did you see any  
3 retinal hemorrhages on the baby?

4           A.     I asked for an ophthalmology consult  
5 specifically to look for this because they're better  
6 at eyes than I am.  And, so, yes.  Ophthalmology  
7 reported there were numerous hemorrhages in the back  
8 of the retina in both eyes that went from where the  
9 nerve attaches the eye to the brain all the way out  
10 around the globe of the eye to the front where the  
11 black part of the retina stops and in all four  
12 quadrants of the retina.  If you divided that circle  
13 into four quarters, they all had blood inside the  
14 layers and on top of the layers.  And some of it was  
15 leaking into the jelly of the eye.

16          Q.     And when you look at all these things, are  
17 these all clues that you sort of are able to put  
18 everything together to know what happened?

19          A.     Yes, ma'am.

20          Q.     Okay.  What about -- what kind of impact  
21 then, figuratively speaking, does this have on the  
22 brain?  Does the brain swell?  How does it change the  
23 brain?

24          A.     So, there are two things that happen.  One  
25 is what we call the "primary damage."  And, so, if

1 you picture a crash test dummy in a commercial and  
2 the car stops, okay, and then the dummy keeps moving  
3 forward, that's similar to the skull in the brain.  
4 The skull hits something. Or if it's a whiplash, the  
5 skull ends up on the chest, where the chin hits the  
6 chest. But the brain is still moving forward until  
7 it slams into the front of the skull. If there's a  
8 whiplash happening and it goes backwards or if the  
9 head hits something fast and hard, then the back of  
10 the skull stops and the brain continues to move  
11 backwards until it hits the back of the skull. So,  
12 you have the brain moving back and forth inside of  
13 the skull as well as moving back and forth in space.  
14 And, so, the veins that drain the blue blood out of  
15 the brain back to the heart can actually become  
16 stretched by this and they'll pop and they'll ping  
17 and they'll bleed. And that's what happened with  
18 Kamron's brain. That's the primary effect.

19                   The secondary effect is that this is  
20 happening and it's stressing out the brain stem.  
21 And, so, oftentimes what happens is the babies are no  
22 longer able to breathe on their own. And, so,  
23 they'll be gasping for breath but not very effective,  
24 not good at getting their oxygen. And, so, the  
25 damage that comes to the brain is that of deprived

1 oxygen. And, so, it can't circulate the waste it  
2 needs. It can't get the energy it needs. And, so,  
3 the brain can then also swell, not just from the  
4 hitting but then from the second effect of oxygen  
5 deprivation.

6 Q. I want to ask you: When the impact  
7 occurred, whatever it was, whenever the blunt object  
8 struck the brain or the brain struck the blunt  
9 object, how immediate is the effect on the child?

10 A. It's instantaneous.

11 Q. And that effect would be what?

12 A. What happens -- and this is from  
13 confessions of people who have hurt children --

14 MR. HOCHGLAUBE: Judge, I object.  
15 This is nonresponsive.

16 THE COURT: Sustained.

17 MR. HOCHGLAUBE: Ask the jury to be  
18 instructed to disregard.

19 THE COURT: Jury is instructed to  
20 disregard the last comment made by the witness.

21 MR. HOCHGLAUBE: Move for a mistrial.

22 THE COURT: Overruled.

23 Q. (BY MS. ONCKEN) Okay. Based on all of your  
24 experience, your training in the field of child abuse  
25 pediatrics, can you tell the jury what the physical

1 effect of that brain injury would be on the infant?

2 A. It's an immediate altered level of  
3 consciousness --

4 *THE COURT:* Can you speak up for me,  
5 please?

6 *THE WITNESS:* I do apologize.

7 A. It's an immediate altered level of  
8 consciousness. So, the children are immediately no  
9 longer alert or awake. They are often limp, floppy,  
10 difficult to arouse; and very often they are  
11 un-arousable or knocked out.

12 Q. (BY MS. ONCKEN) Okay. And that's, I guess,  
13 what's going to be my next question. They would  
14 appear knocked out?

15 A. Yes.

16 Q. Is it possible for Kamron to have sustained  
17 the injuries that you saw and for it not to manifest  
18 itself for several hours or days?

19 A. No, that is not possible.

20 Q. Okay. And based on where you saw the skull  
21 fracture, which side of the head would the injury  
22 have happened to?

23 A. The left side. (Indicating.)

24 Q. And you were telling the jury about your  
25 example with the crash test dummy and whiplash. Is



1 this a whiplash kind of injury or a whiplash motion  
2 that's happening?

3 A. Yes, that is what we believe to be true.

4 Q. Okay. Now, let's talk about dropping an  
5 infant. Have you seen on few or many occasions, you  
6 know, a child come in that has been dropped or fell  
7 from someone's arms?

8 A. Many.

9 Q. Is this type of injury, the whiplash  
10 motion, the slamming effect, is that consistent with  
11 a baby being dropped?

12 A. No.

13 Q. Why is that?

14 A. When you see a baby dropped, it's what we  
15 call a "linear impact." It's something that comes  
16 from up high and goes down low, and it's stopped by  
17 whatever it hits. But the brain only stops that one  
18 time. So, we don't have that bouncing back and forth  
19 and back and forth. And, so, we can have what we  
20 would called "focal," focused injury, at the place  
21 where it hit. Okay? And, so, that would be  
22 expected. You can have a crack in the skull, a  
23 fracture. You can have blood where it hit. You can  
24 even have a little bit of blood, where you saw my  
25 hand went like this when I put it down, a little bit

1 of bruising on the opposite side from the impact.  
2 But you don't have that diffuse bleeding and you  
3 don't have the secondary effect of respiratory arrest  
4 where the breathing gets compromised.

5 Q. The force that would have had to have been  
6 used to cause this injury that killed Kamron, is this  
7 force that occurs in the normal course of caring for  
8 a child?

9 A. No.

10 Q. Okay. And is this excessive force?

11 A. Yes.

12 Q. Is this abusive force?

13 MR. HOCHGLAUBE: Judge, I object to  
14 leading questions.

15 THE COURT: Sustained.

16 Q. (BY MS. ONCKEN) Is there any chance that  
17 this was just something that happened spontaneously?

18 MR. HOCHGLAUBE: Again, Judge, I  
19 object to this being a leading question.

20 THE COURT: Sustained as to the form  
21 of the question.

22 Q. (BY MS. ONCKEN) Could Kamron have sustained  
23 the injuries that he did without being in some way  
24 slammed against an object or an object slammed into  
25 him?

1           A.     No. We look for underlying medical  
2 conditions that would pre-dispose children to a major  
3 injury from a minor trauma. We did not find any such  
4 condition in Kamron. These injuries would not have  
5 happened of their own accord.

6           Q.     Based on your training and being Kamron's  
7 doctor, was this a SIDS death, just a Sudden Infant  
8 Death Syndrome case?

9           A.     No. Those cases are unexpected. This  
10 child had injuries that led to his death. There's an  
11 explanation.

12          Q.     I want to talk about possible rib fractures  
13 or rib fractures that Kamron had. You did have a  
14 chance to review State's Exhibit Number 1, the  
15 autopsy, correct?

16          A.     Yes, I did skim it.

17          Q.     And did you look at the anthropology  
18 report?

19          A.     Yes, I did.

20          Q.     And were you able to look at the  
21 description of Kamron's ribs?

22          A.     Yes, ma'am.

23          Q.     And can you tell the jury whether or not he  
24 had rib fractures?

25          A.     Yes, he had rib fractures.

1 Q. Okay. How many does it say?

2 A. I need to count them again. It looks as  
3 though four different ribs were fractured.

4 Q. Okay. And can you tell either from what  
5 you observed at Texas Children's or from reviewing  
6 the autopsy if those fractures were anterior or  
7 posterior?

8 A. They were posterior.

9 Q. And --

10 A. And there were some that were separating at  
11 the breastbone.

12 Q. And what does that mean, separating at the  
13 breastbone?

14 A. It means that the fracture of the sternal  
15 end plate, meaning that -- we don't ever see this on  
16 x-ray. This is something that the anthropologist --

17 MR. HOCHGLAUBE: Object to  
18 nonresponsive.

19 THE COURT: Sustained.

20 MR. HOCHGLAUBE: Ask the jury be  
21 instructed to disregard.

22 THE COURT: Jury's instructed to  
23 disregard the last comment.

24 Q. (BY MS. ONCKEN) Okay.

25 A. I'm sorry.

1 Q. Can you see this separation from the  
2 breastbone on your x-rays?

3 A. No. They take the bones out. They look at  
4 the bone out of the baby.

5 Q. Okay. And have you ever worked with a --  
6 well, specifically the anthropologist on this case,  
7 have you worked with her before?

8 A. Yes. I know her.

9 Q. Okay. Do y'all do case studies together?

10 A. Yes, from time to time we do.

11 Q. Okay. So, would that have been able to be  
12 observed prior to an autopsy?

13 A. No.

14 Q. Okay. Tell the jury and me: Posterior  
15 versus anterior, what does that mean in basic terms?

16 A. So, a posterior rib fracture is in the  
17 back. An anterior fracture is on the front.

18 Q. I want to ask you about giving C.P.R. If  
19 someone gave C.P.R. to the baby, to baby Kamron,  
20 could that have caused or is it likely to cause the  
21 posterior fractures on his back?

22 A. No. No. The literature that we know of  
23 does not support any type of C.P.R. leading to rib  
24 fractures in your back.

25 Q. Now, you had also said, other than the

1 posterior fractures, also the separation from the  
2 sternum?

3 A. Yes.

4 Q. Is that what you said?

5 A. Uh-huh.

6 Q. Okay. And would that be more to the front  
7 or anterior?

8 A. Yes. That's actually on your breastbone.  
9 Those are things that clinically, meaning doctors who  
10 treat the living, we simply don't encounter those  
11 with any kind of frequency. They would be entirely  
12 rare for us to actually find clinically in a live  
13 person.

14 Q. Okay. And, so, what does that mean to you  
15 in terms of accidental C.P.R. damage versus child  
16 abuse?

17 A. It means that it's very difficult for me to  
18 comment on them from a child abuse standpoint because  
19 we don't see them in those who survive. And the type  
20 of testing that is undergone with an autopsy is very  
21 different. So, I can't really compare them.

22 Q. Okay. Let's talk a little bit more about  
23 the brain injury. We talked about retinal  
24 hemorrhages and optic nerve damage, correct?

25 A. Yes, ma'am.

1 Q. Okay. Any other damage to the brain?

2 A. He had -- his whole brain was swollen. And  
3 on top of the brain there's a thin layer called the  
4 "pia membrane" and there's another thin layer that  
5 looks like a spiderweb. It's called the "arachnoid  
6 membrane" for that reason. He had global edema. So,  
7 the whole brain was just swollen and sick and dying.

8 And then there was bleeding between  
9 that lining, the pia and under the arachnoid,  
10 subarachnoid bleeding. And that's indicative also of  
11 a fast, sharp blow where things just sort of pop and  
12 you get some mixture of blood and spinal fluid. So,  
13 he had those injuries as well inside of his head.

14 Q. And did he also -- you said he had this  
15 subarachnoid. Did he also have subdural hematomas?

16 A. Yes. He had large subdural hemorrhages  
17 which are on top of the arachnoid membrane. And  
18 underneath the dura, which is a lining inside the  
19 skull -- I sort of liken it to what lines an  
20 eggshell -- so there was blood accumulating there as  
21 well.

22 Q. And, again, this is all consistent with a  
23 blunt impact trauma?

24 A. And I think a whiplash acceleration  
25 deceleration as well.

1 Q. We had talked about your ability -- you and  
2 I did -- to see Kamron's face or his mouth area while  
3 he was in the hospital. Tell the jury about that.

4 A. So, when I saw Kamron, he had a great deal  
5 of tape over his mouth and the top of his lip to  
6 stabilize the breathing tube that was going in his  
7 mouth, down his windpipe, into his lungs to support  
8 the breathing machine. So, I was unable to see the  
9 injuries that were previously described by E.M.S. and  
10 L.B.J. because of the taping.

11 Q. And were you able to see, through me, this  
12 photograph, State's Exhibit Number 35, taken at  
13 L.B.J. Hospital?

14 A. Yes, ma'am.

15 Q. Okay. And does this show more than you  
16 were able to see in your hospital?

17 A. Yes, ma'am.

18 Q. And tell us what you see.

19 A. So, what I see here is a small abrasion on  
20 the lower lip. And then on the inside of his upper  
21 lip where it's wet -- we call that the "mucosa"  
22 because it's wet skin -- there looks like a contusion  
23 which is a fancy word for saying there's a scrape and  
24 a bruise existing in the same place. And then it's  
25 tough for me to see it, but I believe based on the



1 description that some of that discoloration at the  
2 gum is also that bruise continuing into his mouth.

3 Q. And a contusion like this is caused from  
4 what kind of force?

5 A. Again, that blunt force trauma.

6 Q. From impact?

7 A. Yes, ma'am.

8 Q. Now, if Kamron was cut with a sharp object,  
9 would that have caused all of this damage to his  
10 mouth -- in other words, the bruising aspect of it?

11 A. No, that's not consistent with a sharp  
12 object.

13 Q. And I'll be even more specific, like cut  
14 glass or a broken glass bottle?

15 A. That would not be what I would -- that's  
16 not consistent with the injury I see in front of me.

17 Q. And why is that?

18 A. If you have a sharp edge, the tissue damage  
19 is going to be separation of the tissue. So, you  
20 would have a cut. You would have some kind of, you  
21 know, a laceration, something that needs the edges  
22 pulled together with a bandaid or maybe even  
23 stitches. I don't -- I see nothing like that here.

24 Q. While in the hospital, was Kamron given  
25 fluids?

1 A. Oh, yes.

2 Q. Intravenously?

3 A. Yes, ma'am.

4 Q. Would that have caused him to be puffy  
5 looking?

6 A. Yes.

7 Q. Okay. What about -- we always hear in  
8 little infants how their brain hasn't fully -- the  
9 skull hasn't fully formed, the soft spot, so to  
10 speak?

11 A. Yes.

12 Q. Would an infant at three months old still  
13 have that soft spot?

14 A. Yes. He would have both of them, the front  
15 and the back, still wide open.

16 Q. Okay. And how, if at all, would that have  
17 affected Kamron and his injuries?

18 A. It would have actually helped him survive  
19 them longer because -- we even call them, like, a pop  
20 up valve. The pressure in an adult like you or I, if  
21 we had this kind of damage, it would grow and grow.  
22 But our skull is a box, so the pressure has nowhere  
23 to go but down and out. So, down and compress the  
24 spinal cord.

25 In a baby, the pressure can go up and

1 out, which is exactly what happened with Kamron.  
2 When you look at his x-ray, his sutures, all those  
3 bones that are joined together with a membrane to  
4 allow for growth, were split. And then his soft spot  
5 was full and firm because the pressure was also going  
6 up to avoid compressing his brain stem.

7 Q. Externally were you able to find or feel  
8 anything on external examination of Kamron's head  
9 that would be consistent with some of the internal  
10 injuries we're seeing to his skull?

11 A. Yes.

12 Q. Okay.

13 A. Over the area where there was a fracture, I  
14 actually felt a bogginess of the scalp. So, we would  
15 call that a "scalp hematoma," blood collecting within  
16 the scalp. I thought I could actually feel the  
17 step-off. So --

18 THE REPORTER: Excuse me?

19 Q. (BY MS. ONCKEN) The what?

20 A. Step -- S-T-E-P hyphen O-F-F. The  
21 step-off. It's a medical phrase meaning I feel where  
22 those bones are separated. This may be affected by I  
23 knew where the fracture was, but I could also feel  
24 it.

25 MR. HOCHGLAUBE: I'm sorry. I can't

1 hear you.

2 A. I'm sorry. I thought I could feel that  
3 fracture underneath the blood collection in his  
4 scalp. Also his anterior fontanel, the front soft  
5 spot, was firm and full. So, instead of looking flat  
6 and having a little heartbeat, when we saw the baby,  
7 it actually looked like a dome because of the  
8 pressure.

9 Q. (BY MS. ONCKEN) Would that be the swelling  
10 caused that?

11 A. Yes, the inside swelling is pushing up.

12 Q. So, I'm understanding from the last comment  
13 that you made that you actually felt on the exterior  
14 something consistent with -- and now I'm talking  
15 about the left parietal fracture -- you felt  
16 something that was kind of squishy feeling almost?

17 A. Yes. Like, we call it the "bag of water  
18 sensation."

19 Q. The retinal hemorrhages that Kamron had,  
20 could that in any way be caused by C.P.R.?

21 A. Not -- not his degree, no, ma'am.

22 Q. Is it possible that any medical  
23 intervention done indirectly by your hospital, by  
24 L.B.J., by anybody at the scene, could have caused  
25 injuries that you see to baby Kamron?

1           A.     I have a hard time thinking of anything  
2     that could have been done incorrectly that would have  
3     led to the bleeding in the head, the bleeding in the  
4     eyes, the broken skull. I don't believe so. Unless  
5     somebody got into a car accident with him in the  
6     ambulance and he was not restrained maybe.

7           Q.     It's not -- doesn't make sense?

8           A.     No.

9           Q.     Do you know of a medication named C-Phen,  
10    P-H-E-N?

11          A.     That's a cough medicine.

12          Q.     Okay. And is that something that would be  
13    prescribed to an infant for a cough or a cold?

14          A.     Yeah. Yes.

15          Q.     And looking at State's Exhibit 66, a  
16    prescription for a sea soft nasal mist?

17          A.     That's saline water like you use in contact  
18    drops. Put it up there. It softens up the boogers,  
19    helps parents suck them out with the bulb suction.

20          Q.     Okay. Again, anything about either of  
21    these two medications that would any way cause the  
22    blunt trauma that you saw to Kamron?

23          A.     No, ma'am.

24          Q.     What caused his death?

25          A.     His brain injury.

1 Q. At the end of -- well, Kamron died in your  
2 hospital, right?

3 A. Yes, he did.

4 Q. At the end of his life, was he in any way  
5 able to breathe on his own without the aid of  
6 machines?

7 A. No, ma'am, he was not.

8 Q. Okay. So, I guess the machines at some  
9 point were turned off?

10 A. Yes.

11 Q. Okay. And is it right to say that the only  
12 reason he stayed alive was the continued aid and  
13 helping him breathe and pump oxygen and whatnot?

14 A. Yes, ma'am.

15 Q. Okay. I'm going to show you State's  
16 Exhibit 26 from the autopsy. And we're looking at  
17 the right leg. Do you recognize the little dots and  
18 whatnot that we see?

19 A. Yes, ma'am.

20 Q. Okay. And what are those consistent with?

21 A. So, what that looks like to me, given its  
22 position on the lower leg and then this circular  
23 impression underneath it, this looks like an  
24 interosseous line was placed. And, so, what you do  
25 when a child is crashing, you get the strongest

1 person in the room. They have a needle with a hole  
2 in it and in the hole is full of another needle and  
3 then that second needle is attached to a round  
4 plunger. And you push it as fast and hard as you can  
5 into the bone of their shin, into the bone marrow  
6 cavity, and you give them as much fluid as you can as  
7 fast as you can. And if you do it right, you make a  
8 hole like that and it goes all the way through the  
9 bone and then you're giving them the medicine they  
10 need in the best way you can.

11 Q. Just so I'm clear, you -- and in no way can  
12 you say that you know what object was used to strike  
13 this child with or that he was struck against,  
14 correct?

15 A. That's correct. I don't know.

16 Q. But when we hear the term "blunt object,"  
17 that's something against which there's no resistance;  
18 is that right? Or --

19 A. It means usually something that's larger  
20 than the thing that's hitting it. So, something that  
21 doesn't have any pointing ends that would protrude  
22 and make something that penetrates into the child's  
23 body. Usually something large and fairly flat.

24 Q. Versus, like you said earlier, a knife that  
25 would be some sort of a penetrating wound?

1 A. Right.

2 Q. Okay. And you had also said, am I correct,  
3 that if shaking -- shaking with someone's hands --  
4 had occurred, there would also have to be striking  
5 against a blunt object in addition to that?

6 A. Yes, ma'am.

7 Q. Okay.

8 MS. ONCKEN: Pass the witness.

9 CROSS-EXAMINATION

10 Q. (BY MR. HOCHGLAUBE) Doctor, you've  
11 testified before for the State, have you not?

12 A. Yes.

13 Q. How many times?

14 A. I don't know. Probably -- this is my 48th  
15 subpoena this year. I've probably testified a dozen  
16 times.

17 Q. So, you testify pretty regularly for them;  
18 is that right?

19 A. Well, for the State and sometimes in family  
20 court as well. The defense asks me, but they don't  
21 like what I have to say a lot of the times.

22 Q. Why is it that they don't like you?

23 A. Because I give them my honest medical  
24 opinion. And more often than not it's that I don't  
25 agree with the history provided by their defendant.



1 Q. So, you work at the Children's Assessment  
2 Center as well as at the Baylor College of Medicine;  
3 is that right?

4 A. Yes, sir, and Texas Children's Hospital.

5 Q. Okay. And the Children's Assessment Center  
6 is basically a place where law enforcement and the  
7 D.A.'s Office and proper therapy sort of all combines  
8 to help kids, right?

9 A. Yes, sir.

10 Q. And you would agree with me you sort of  
11 play an integral role in a number of law enforcement  
12 investigations, have you not?

13 A. I don't know how integral; but I'm  
14 certainly part of investigations, yes, sir.

15 Q. Have you ever testified as a defense  
16 expert?

17 A. No. I've been consulted, and I've  
18 testified by phone to a judge. I've never come to a  
19 witness stand like this.

20 Q. Okay. And you can't count the number of  
21 times you've testified for the State; is that fair to  
22 say?

23 A. Not accurately, no. It would be in the  
24 tens. Probably 40 or 50.

25 Q. It sounds as if you're saying that in your

1 opinion Kamron was both shaken and that his head  
2 collided with some sort of object, we don't know  
3 what; is that right?

4 A. It's mostly right. The shaking I'm using  
5 as a term because that's what the other attorney was  
6 using. What we would say would be a "whiplash  
7 motion." So, acceleration deceleration. It could be  
8 one time very hard or more than one time. I can't  
9 say. That's why we have gone away from "shaken baby"  
10 as a term.

11 Q. So, if I told you that Kamron died as a  
12 result of someone shaking him with his -- as a result  
13 of the person shaking Kamron with that person's  
14 hands; is that true or is that not true?

15 A. That is likely partially true. I think  
16 there's more to it than that.

17 Q. So, because it -- as I understood, you said  
18 that he died as a result of brain swelling, right?

19 A. Ultimately, yes.

20 Q. And is it not your opinion that that brain  
21 swelling was caused by, I guess, the blunt force  
22 impact?

23 A. It was a combination of factors. It's not  
24 so linear. It's both what led to the bleeding also  
25 does the same thing in the levels of the brain

1 tissue. And, so, that brain tissue is injured in the  
2 same way the blood vessels are injured; and then  
3 there's secondary injury from the lack of oxygen.

4 Q. Let me ask you the question in a different  
5 way. Is it possible -- is there a reasonable  
6 possibility that shaking actually had nothing to do  
7 with Kamron's death and that it was entirely based on  
8 blunt force trauma?

9 A. No, I don't believe that could be so.

10 Q. Okay. And why is that?

11 A. Because what we have is global injury. So,  
12 the whole brain has the injury. The bleeding is on  
13 both sides. The bleeding is present on both the  
14 subarachnoid and subdural layers around the brain and  
15 also within the eyes to a degree that's just not  
16 consistent with an impact alone.

17 Q. Okay.

18 A. So, I can't say how many shakes; but I  
19 believe there was more than one component to his  
20 injury.

21 Q. Can you say how many times his head was  
22 impacted?

23 A. There's one fracture. That doesn't mean  
24 there was one impact, but I would be inclined to say  
25 that it would make sense. So, at least one. Maybe

1 more.

2 Q. So, it could have been as little as one  
3 impact; is that right?

4 A. Yes, in addition to something else.

5 Q. And can you give us a duration for the  
6 amount of time he would have had to have been shaken?

7 A. No, we don't know.

8 Q. But it could have happened in a matter of a  
9 couple seconds?

10 A. Absolutely.

11 Q. You talked about his retinas, there being  
12 hemorrhaging which basically means that there's  
13 blood. Sometimes, if I'm not mistaken, sometimes  
14 there's so much blood that it actually detaches the  
15 retinas; is that right?

16 A. Yes. That would be the most extreme end of  
17 the spectrum.

18 Q. Okay. That did not happen in this case?

19 A. No. It was just all over, but it hadn't  
20 lifted.

21 Q. Right. So, as I understand it then, it  
22 sounds like there's one impact which we saw in that  
23 sort of picture of the skull, right?

24 A. Yes, sir.

25 Q. And we believe that that caused the

1 injury -- that crack anyway?

2 A. Yes.

3 Q. All right. The State made mention of there  
4 being other fractures in the skull. Did you hear the  
5 prosecutor talk about that?

6 A. I'm unaware of any other fractures in the  
7 skull. I'm aware of only the left parietal fracture  
8 here. There were separated sutures.

9 Q. I see. So, as far as you're concerned,  
10 there was only one fracture?

11 A. Well, as far as I know.

12 Q. Uh-huh. But you've reviewed the autopsy  
13 report, correct?

14 A. I skimmed the ribs. I did not read it from  
15 cover to cover.

16 Q. I see. So, you're not really sure how many  
17 fractures there were?

18 A. I know of one.

19 Q. And, so, if there were more than one  
20 fracture, then basically you're talking to us without  
21 really a complete knowledge of all of his injuries;  
22 is that right?

23 A. Right, because I don't do the autopsy.

24 Q. You talked about how a child that suffers  
25 that sort of injury would effectively be knocked out;

1 is that right?

2 A. Yes.

3 Q. And they would be knocked out, you said,  
4 sort of instantaneously, correct?

5 A. Yes, an altered level of consciousness.

6 Q. Okay. And you would agree with me that  
7 babies as young as Kamron, their consciousness is not  
8 quite the same as it is with an adult, right?

9 A. That's true.

10 Q. And as a result, if a baby's eyes are open,  
11 even if it's not conscious, it may appear to be  
12 conscious because lots of times babies aren't really  
13 doing anything, right?

14 A. That's not entirely accurate because  
15 there's also a component of muscle tone, like moving  
16 or being limp and floppy like a noodle.

17 Q. Sure. I guess what I'm trying to get at is  
18 that what would be readily apparent to an adult, if  
19 it was an adult injury, right, it may not appear as  
20 obvious if it was an injury to an infant; is that  
21 fair to say?

22 A. I don't think I can completely agree with  
23 you on that.

24 Q. Okay. You're certainly aware of head  
25 injuries that -- even though this is not your

1 specialty, you're a licensed physician, correct?

2 A. Yes.

3 Q. And you're certainly aware of head injuries  
4 that happen to adults. They happen to adults and  
5 children both, right?

6 A. I'm aware they happen. You're venturing  
7 out of my level of familiarity. I don't do adult  
8 stuff very much.

9 Q. Believe me, I -- don't come talk to me  
10 about wills. I don't know anything about that. But  
11 the -- what I guess I'm coming to is that, you know,  
12 for instance, with football players, we see them  
13 knocked out on the field and then they come back.  
14 They come to. They may be in a sort of altered state  
15 of consciousness, and a lot of times they don't  
16 remember exactly what happened or how they ended up  
17 that way, right?

18 A. Yes.

19 Q. And my question to you is: Is not a  
20 similar -- is it not possible for that to happen with  
21 an infant? I'm not specifying with Kamron right now.  
22 I'm just saying: Is it possible for that to happen  
23 with an infant?

24 A. So, you're referring to a concussion in the  
25 field happening to an infant?

1 Q. No. I guess my question is: Is it  
2 possible for an infant to suffer head trauma, to lose  
3 consciousness, but then to regain it?

4 A. I'm not familiar with data that would state  
5 that they come back to a regular baseline after  
6 suffering a brain injury.

7 Q. Now, what you said was that the breathing  
8 gets affected because ultimately there's so much  
9 swelling that it impacts the brain stem, right?

10 A. Yes, as well as primary trauma to the brain  
11 stem.

12 Q. Right. And basically it's the lower part  
13 of the brain that attaches onto the spinal cord,  
14 that's what is the part of the brain that's  
15 responsible for sort of our basic bodily functions,  
16 right?

17 A. Yes.

18 Q. Like breathing, like heartbeat, like things  
19 we don't even think about, correct?

20 A. Yes.

21 Q. And basically for a baby, there's going to  
22 be some amount of time between the impact and between  
23 when the swelling from that impact ultimately affects  
24 the brain stem; is that fair to say?

25 A. Yes.



1           Q.     Okay.  And, so, although the brain -- the  
2     actual initial impact may cause some sort of  
3     temporary unconsciousness, right, if the swelling  
4     doesn't reach the brain stem, right, then it's  
5     possible that that child might continue to breathe  
6     for a while.  Is that right?

7           A.     Oh, yeah.  He could continue to breathe  
8     with a big swollen brain, just not very well.

9           Q.     Okay.  But it's possible that it wouldn't  
10    necessarily impact their breathing right immediately  
11    because the swelling wouldn't have affected the brain  
12    stem, right?

13          A.     There's two schools of thought on that  
14    because you also have that whiplash motion doing that  
15    primary injury, that stretching and hurting the brain  
16    tissue itself in that part of the brain.  So, many  
17    people would argue that you do have an initial effect  
18    on breathing.  Kind of like getting your bell rung,  
19    that it transits -- it trans -- it affects both the  
20    brain as well as the brain stem with that kind of  
21    initial bell ringing.  So, I can't speak to that any  
22    more clearly.  It's possible, but not every -- not  
23    everybody would agree.

24          Q.     You said that the fractures to the ribs,  
25    that those would not be caused by medical treatment.

1 Is that --

2 A. The posterior rib fractures.

3 Q. Posterior.

4 A. The ones you could see.

5 Q. But -- and that's because when a trained  
6 medical professional is doing C.P.R. on an infant,  
7 they know to be careful about how they apply  
8 pressure, right?

9 A. That, and the flexibility of the chest.

10 Q. Okay. And I guess my point is is that if a  
11 person who didn't really know what they were doing,  
12 right, was trying to perform C.P.R., was trying to,  
13 you know, basically get the heart beating and didn't  
14 really understand how best to do it other than what  
15 they'd seen on TV, right --

16 A. Uh-huh.

17 Q. -- it's conceivable that person could have  
18 hurt the kid, is it not?

19 A. Well, sure. It depends on the manner they  
20 administered the C.P.R.

21 Q. Right.

22 A. If it was flat on the ground or say they  
23 picked him up and squeezed him.

24 Q. Right. And it sounded like the cracks to  
25 the sternum, that that actually -- you can't comment

1 on that because you don't have any experience with  
2 that.

3 A. Yeah, we just --

4 Q. Except on --

5 A. We don't see that.

6 Q. Except in autopsies. Okay. So, you can't  
7 refute the possibility that that could have been from  
8 C.P.R.?

9 A. I can't.

10 Q. Okay. I heard your answer to the retinal  
11 hemorrhages and the connection between that and  
12 C.P.R. And your answer, I think, was that it  
13 couldn't -- the C.P.R. could not have caused the  
14 retinal hemorrhages to the degree that you saw; is  
15 that right?

16 A. That is correct.

17 Q. But you would agree with me that C.P.R. can  
18 cause retinal hemorrhaging?

19 A. There's debate about that. And essentially  
20 physician papers have said there may be a few small  
21 retinal hemorrhages associated with C.P.R., but it's  
22 not --

23 *THE REPORTER:* Can you please slow  
24 down?

25 *THE WITNESS:* I'm sorry.

1           A.       There may be a few small retinal  
2 hemorrhages associated with C.P.R., but it's not been  
3 something that's been confirmed in large study. So,  
4 if one person reports it one time, you have to say  
5 there's a possibility it could happen again.

6           Q.       (BY MR. HOCHGLAUBE) And I think you've  
7 already conceded this, but just to sort of get us on  
8 the right topic, you basically say you don't know  
9 what actually happened to Kamron; is that right?

10          A.       I wasn't there. I don't know.

11          Q.       You don't know whether something struck  
12 Kamron or whether Kamron struck something else?

13          A.       Correct.

14          Q.       And certainly you don't know what that  
15 thing was that must have apparently struck Kamron's  
16 head, right?

17          A.       Right.

18          Q.       And you don't know basically the  
19 circumstance of how his head came into contact with  
20 that?

21          A.       I do not.

22          Q.       You don't know who else was present at the  
23 time?

24          A.       I have a list, but I don't know if it's  
25 true or not.

1 Q. Well, I'm going based on what you actually  
2 know from -- not just from your medical records, but  
3 based on the fact that you're not an eyewitness to  
4 anything.

5 A. Oh, heavens no. No, sir.

6 Q. You saw nothing, right? And based on just  
7 medical information -- and I'm not talking about  
8 witness information that you may have read or heard  
9 or want to relate to in terms of -- you know what  
10 hearsay is, right?

11 A. Uh-huh.

12 Q. With sort of setting hearsay aside, going  
13 just based on your diagnostics, you certainly can't  
14 say how that head injury actually took place, right?

15 A. No, not specific to Kamron. I have an idea  
16 of the mechanism, but I wasn't there.

17 Q. So, you certainly can't state the --

18 MR. HOCHGLAUBE: Can I have just one  
19 moment, Judge?

20 THE COURT: Yes.

21 (Pause)

22 Q. (BY MR. HOCHGLAUBE) With the blunt force  
23 trauma and the collision that you see, sort of the  
24 internal damage from inside the head, would there not  
25 be some sort of damage to the skin at the point of

1 contact?

2 A. Not necessarily, no.

3 Q. Is it possible that there would be?

4 A. It's possible there would be. It's  
5 possible there wouldn't be.

6 Q. Would you -- are you aware of anybody  
7 making any type of investigation to see if there was  
8 any type of injury on the outside that would have  
9 been consistent with that type of impact?

10 A. I don't think I understand that question.

11 Q. Have you seen the autopsy photos?

12 A. No, just that skull and a rib.

13 MR. HOCHGLAUBE: If I may just have a  
14 moment, Judge?

15 MS. ONCKEN: The group is right up  
16 there, flipped over.

17 A. I think I actually might have reviewed  
18 those. I just didn't remember. They look sort of  
19 familiar now. I can't recall every one.

20 MR. HOCHGLAUBE: May I approach the  
21 witness, Judge?

22 THE COURT: Yes, sir.

23 Q. (BY MR. HOCHGLAUBE) I want to show you  
24 what's marked as State's Exhibit 18, 17, 16, 15, 14,  
25 13, 12, 11, 10, 9, 8, and 7.

1 A. Uh-huh.

2 Q. Those are autopsy photos of Kamron's head,  
3 right?

4 A. Yes.

5 Q. And I don't know if they cover every square  
6 inch of his head; but they cover a large part of it,  
7 do they not?

8 A. It looks like the face and at least the  
9 back --

10 THE COURT: I'm sorry. I can't hear  
11 any of what you just said.

12 THE WITNESS: I do beg your pardon.

13 A. Yes, it looks like his face and at least  
14 part of the back of his head. Yes, sir.

15 Q. (BY MR. HOCHGLAUBE) Would you agree with me  
16 that by comparison to the swelling you describe  
17 happening internally, there is no such bruising on  
18 the outside of his head that shows anywhere near the  
19 same amount of damage?

20 A. In the photos there doesn't, but I felt  
21 that big hematoma on the skull when I just felt him.

22 Q. Exactly. And that's my point. Is that the  
23 hematoma -- you said you felt the hematoma --

24 A. On his left.

25 Q. On his left. Basically where you saw the

1 fracture --

2 A. Yeah.

3 Q. -- in the skull that we saw?

4 A. Yes, sir.

5 Q. Okay. Do you see that same hematoma in any  
6 of those pictures?

7 A. Let's see. I can go through and look.  
8 This is the left. It's not up high enough. This is  
9 too far forward. I think these are part of where his  
10 scalp was shaved. So, I couldn't have seen this when  
11 I examined him.

12 Q. But that's fine.

13 A. I can't see. I don't see any good pictures  
14 of that area where I know I felt it. I'm sorry.

15 Q. In your testimony, you sort of said that  
16 it's not possible that Kamron fell and that that  
17 caused the injury the way you saw it. The medical  
18 results of the injury you felt were inconsistent with  
19 him being dropped or him having fallen on the ground;  
20 is that right?

21 A. Yes. Yes, I said that.

22 Q. Okay. And yet your testimony is also that  
23 this injury and the entirety of his cause of death  
24 could have happened within a couple seconds of, I  
25 guess, for lack of a better word, shaking and impact;



1 is that right?

2 A. Yes. A person can shake a baby more than  
3 once inside of a second.

4 Q. Okay. So, if he was falling, say, and  
5 someone reached out to try to grab him before he  
6 could actually fall, right -- and I'm not even -- I'm  
7 just throwing this out as a hypothetical. I'm not  
8 suggesting that this happened in any way. But just  
9 if that somehow altered the baby's course and jarred  
10 the baby as he was falling, then we're saying that  
11 this -- that could conceivably explain his injuries?

12 A. No. I don't think that would explain his  
13 injury. I would expect where he was grabbed to be  
14 broken perhaps, but that still doesn't explain them  
15 for me.

16 MR. HOCHGLAUBE: I pass the witness,  
17 Judge.

18 MS. ONCKEN: Just very briefly, your  
19 Honor.

20 REDIRECT EXAMINATION

21 Q. (BY MS. ONCKEN) Just to clarify, there are  
22 bruises to the baby's head in the autopsy pictures,  
23 correct?

24 A. Oh, yes, ma'am. There are bruises.

25 Q. Okay. And is it likely that bad C.P.R. or

1 good C.P.R. could have caused his posterior back rib  
2 fractures?

3 A. No. No. Posteriorly we just don't see  
4 those associated with C.P.R. because it's fixed. It  
5 means that the rib was squashed up against the spinal  
6 column and broken that way.

7 Q. Counsel had asked you about a delay between  
8 the impact and the brain swelling, but you had told  
9 the jury that the effect on the baby would have been  
10 instantaneous.

11 A. Yes.

12 Q. Okay. Can you resolve those two ideas?

13 A. Yeah. So, we have two types of injury. We  
14 have that primary injury. So, the whiplash and the  
15 shaking -- or the whiplash and the impact, okay, is  
16 the initial injury. So, it's when the brain is  
17 moving back and forth, that crash test dummy, that  
18 analogy that I gave to you, that hurts the cells  
19 inside the brain. And, so, they're moving back and  
20 forth as well and they can't do that. They're  
21 different thicknesses inside the brain and they move  
22 at different speeds and they separate and they break  
23 and that's bad. And, so, you have primary brain  
24 damage happening when the injury is happening. And,  
25 so, that kid is altered immediately.

1                   The secondary damage is from the  
2 swelling after that injury and also the respiratory  
3 compromise, that breathing change that happens  
4 because of the pressure on the brain stem and what's  
5 thought to be the primary injury at the brain stem,  
6 that stretching that's going all the way down to the  
7 brain stem. So, it's primary and secondary that's  
8 happening and that's why it can be instantaneous  
9 because you can't discount the primary injury.

10           Q.       Okay. Thank you. And also probably due to  
11 my bad questioning, you had looked at the autopsy.  
12 If you would pick up State's Exhibit Number 1 and  
13 look at Page 4, and on Page 4 under A, blunt trauma  
14 of the head -- are you there, or am I making sense?  
15 And it will say up on the left Number 4.

16           A.       I don't know if that's Page 4. Of the  
17 anthropology report?

18           Q.       No. No. No. Just the regular autopsy.  
19 Sorry. All right.

20           A.       Thank you. Okay. Blunt trauma of the  
21 head.

22           Q.       Okay. So, one, two, third paragraph down,  
23 describing the different fractures to the skull.  
24 Now, you told us that you saw one to the left  
25 parietal bone, the left side of the head?

1 A. Yes.

2 Q. Okay. Now, do they also describe in the  
3 second sentence a second 1-inch linear fracture in  
4 the left parietal bone?

5 A. Yes.

6 Q. Okay. Is it possible that some fractures  
7 could only be viewed upon autopsy?

8 A. Yes, that happens.

9 Q. And then the next sentence or so, it  
10 mentions a third fracture to the right occipital  
11 bone.

12 A. I didn't know about that one either.

13 Q. And that's my fault. I know we talked a  
14 while ago --

15 A. I'm sorry.

16 Q. -- and you've worked since then. So, in  
17 fact, there are injuries on both sides of the head to  
18 the skull?

19 A. Yeah. Yeah.

20 Q. And this -- which one is the occipital  
21 bone? Can you point to it?

22 A. If you take your hand and cup it on the  
23 back of your head under where a baseball cap would  
24 be, that's your occipital bone.

25 Q. So, would it be accurate that that would

1 have to be at least two impacts to his head?

2 A. Yes, ma'am.

3 Q. Okay.

4 MS. ONCKEN: I'll pass the witness.

5 MR. HOCHGLAUBE: Just one moment,  
6 Judge.

7 (Pause.)

8 RECROSS-EXAMINATION

9 Q. (BY MR. HOCHGLAUBE) Even with the two  
10 impacts, as you say, basically sort of being  
11 reinforced of what the autopsy says, you had said  
12 before that you thought that there could have been  
13 just one impact. Now you don't think that there  
14 could be one impact?

15 A. No. Now knowing there's an occipital  
16 fracture, that wouldn't make sense.

17 Q. So, now you think that there could be two  
18 impacts.

19 A. That would be a sign of a second impact,  
20 yes, sir.

21 Q. And even then, two impacts could happen in  
22 sort of fast sequence, within a matter of seconds; is  
23 that right?

24 A. Yes, sir.

25 Q. Okay.

