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1	A It's an anesthetic drug. Specifically it's a
2	hypnotic, it makes person go under general anesthesia.
3	Q Fall asleep?
4	A Yes.
5	Q Okay. So and is it something you've used in
6	the past?
7	A Yes.
8	Q Are you very familiar with it?
9	A Yes.
10	Q And when you said short acting, how what are
11	we talking about?
12	A It is a short acting medicine. The body
13	metabolize and gets rid of it very rapidly, so patients can
14	wake up very quickly afterwards.
15	Q Is it appropriate to use in in a like an
16	outpatient surgical center for limited procedures?
17	A Yes.
18	Q The action I mean how quickly does it does
19	it start to work?
20	A It starts work immediately, I would say within
21	10 seconds.
22	Q How and when you want to stop, wake somebody
23	up, I mean is there a big time lag or is it is it also
24	equally quick?
25	A It depends on how much has been given to the

for one? 1 For EGD, the upper GI tract endoscopy, I 2 Α probably would give between five to 10 ml, which is 50 to 100 3 milligrams of propofol. For the lower procedure, the 4 colonoscopy, I would probably give between 10 ml to 20 ml and 5 that's 100 milligram to 200 milligrams. 6 And these kinds of procedures last typically how 7 long for that kind of anesthetic? 8 The EGD, the upper endoscopy procedures usually 9 last between -- between five to -- to 10 minutes and the lower 10 -- the colonoscopy will last between probably eight to 20 11 12 minutes. Okay. So that amount of drug for that amount of 13 0 14 time? Yes. 15 Α If the procedures went longer than that would 16 typically you'd have to use more drug? 17 Α Yes. 18 Now, I'm going to bring you forward to -- do you 19 know an individual by the name of Dipak Desai? 20 21 Α Yes. Do you see him in Court today? 22 0 23 Α Yes. Can you point to him, describe something that 24 he's wearing for the record, please? 25

1	A He's sitting over there in the dark suit.
2	MR. STAUDAHER: Let the record reflect the identity
3	of the defendant, Your Honor.
4	THE COURT: It will. I'm sorry, I mumbled.
5	BY MR. STAUDAHER:
6	Q With regard to your involvement with this Dr.
7	Desai, when did you first meet him and if you did, was it in a
8	social or work-related situation?
9	A I'm not certain about a date, but I believe it
10	was in in in the late 1990s when I first had a chance to
11	meet Dr. Desai.
12	Q Did you ever work with him?
13	A Yes.
14	Q Did you ever provide anesthesia services for
15	him?
16	A For his procedures, yes.
17	Q Were these or what was the location where you
18	did this work?
19	A I believe I've done it at the Endoscopy Center
20	at Valley Hospital and also I've done anesthesia for his
21	patients at the Endoscopy Center at 700 Shadow Lane.
22	Q So the actual location of where things happened
23	in this case?
24	A Yes.
25	Q So in the situation where you were actually in
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1	THE COURT: It's a different rate. Okay.
2	THE WITNESS: Yes.
3	BY MR. STAUDAHER:
4	Q And we'll get into that in just a minute but
5	THE COURT: Sorry.
6	MR. STAUDAHER: No problem.
7	THE COURT: Jumped the gun.
8	BY MR. STAUDAHER:
9	Q But as far as that's concerned, this was was
10	this just talk or did it get formalized into anything more
11	than that?
12	A It was it was mostly just talk and later
13	there was attempts to put it on paper, but still it was not
14	very formal agreement or writing.
15	Q I'm going to ask you a question in the future
16	from where you're at right now in 2001 or just past that and
17	then I'm going to come back. Okay? But at any point ever did
18	you ever go to the Shadow Lane camp or Shadow Lane Clinic,
19	700 Shadow Lane, whether it was the old one or the new one,
20	and ever supervise any CRNAs?
21	A Never.
22	Q Did you know that anybody was representing at
23	any point that you were a supervising physician for CRNAs?
24	A No.
25	MR. STAUDAHER: Your Honor, may I approach this

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1	witness?
2	THE COURT: You may.
3	MR. STAUDAHER: And I've previously shown this to
4	counsel, this is
5	THE COURT: All right.
6	MR. STAUDAHER: the [indiscernible] exhibit.
7	BY MR. STAUDAHER:
8	Q I'm going to show you a document, which is
9	labeled as State's 65 and on it there's kind of a blank. Do
10	you recognize that page?
11	A Yes.
12	Q What is that?
13	A It's a blank anesthesia record.
14	Q Okay. And then it looks like there's another
15	one that's a colored one and that's when the Bates number
16	start. It's GJ Desai 474 and then there's two pages that
17	follow that, 468 and 469. Do you see that?
18	A Yes.
19	Q Okay. Have you ever seen those last two pages
20	before?
21	A Yes.
22	Q You've seen them both?
23	A Yes.
24	Q Now, when did you see these two documents?
25	A I saw them at the when I testify at a grand
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1	jury.
2	Q Okay. Had you seen any of them before that
3	point?
4	A I've seen this one before that.
5	Q And the one you're referring to is 468, you've
6	seen that one.
7	A Yes.
8	Q What about the one that's depicted in 469?
9	A I don't recall seeing that one.
10	Q Okay.
11	MR. STAUDAHER: May I publish, Your Honor?
12	THE COURT: You may.
13	BY MR. STAUDAHER:
14	Q Before we get those to go those agreements, I
15	want to make sure we're all talking about the same thing.
16	This is the first page of the exhibit and you said that this
17	was an anesthesia record; is that fair?
18	A Yes.
19	Q What are we looking at here? Can you kind of
20	describe for us? There's a whole bunch of boxes but you can
21	can you tell us what we're looking at and and you can
22	draw on this screen with your fingernail. Just take your
23	fingernail and do that and then you just tap it down here and
24	it goes away
25	A Okay

1 - if you need to do anything. Can you tell us 2 what we're looking at? 3 MR. SANTACROCE: Your Honor, can we approach? THE COURT: Sure. 4 5 (Off-record bench conference.) 6 BY MR. STAUDAHER: 7 So can you describe for us -- first of all, is 8 this a fairly standard form? 9 Yes. 10 MR. SANTACROCE: Objection, Your Honor, relevance. 11 THE COURT: Okay, overruled. BY MR. STAUDAHER: 12 13 Can you describe for us what -- what it is? I 14 mean how -- what -- what the different parts are. 15 Okay. This part is for us to record the vital 16 signs, such as blood pressure and heart rate. And this part 17 is for us to record the -- the vital signs that are more 18 advanced, such as pulse oximetry, [indiscernible] carbon dioxide, oxygen flow. And this part is for us to record the 19 20 medication used. 21 THE COURT: Is this kind of a standard universally 22 used form? 23 THE WITNESS: Yes. 24 THE COURT: Okay.

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BY MR. STAUDAHER:

Q And go ahead.

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And this part is to record what kind of an airway device, airway management we used, whether we put a tube in the patient's trachea or just something in the oropharynx to -- to maintain the airway. And this part is to document the monitors used and the -- the invasive monitoring device we used. This part here, anesthesiologist, is the actual anesthesiologist. This part anesthesiologist is the actual anesthesiologist present doing the procedure and is responsible for the procedure. This part is the -- the surgical procedure operation. This part is the surgeon, the actual person that does the procedure. And this is the patient information with -- there's usually a sticker or a embossed print to put down the patient's name and other information. And this here's to -- for us to put down remarks, any important things we want to record regarding the procedure.

Q What about this area right here?

A This is the time, the anesthesia time. There's a beginning time and a -- a finish time.

Q Okay. And you had mentioned that if you were coming out to the clinic to do supervisory work for — I mean supervising a CRNA, that you would come out there and then you would eventually bill for their services, correct?

A Yes.

1	MR. SANTACROCE: Objection, foundation.
2	THE COURT: Overruled.
3	BY MR. STAUDAHER:
4	Q So how is it that you bill for your services
5	with a with a CRNA, how would you do that?
6	A First of all, here in this square we would put
7	down the CRNA's name and put a slash after his name or her
8	name and put down my name.
9	Q So on an anesthesia record that you would have
10	supervised for we would have seen both names down?
11	MR. WRIGHT: I'm going to object I'm going to
12	A That's what I would do and that's the industry
13	standard.
14	Q Okay.
15	MR. WRIGHT: I'm going to object to the hypothetical.
16	THE COURT: Well, it's not really being
17	MR. WRIGHT: It didn't occur.
18	THE COURT: But I think that was the point of the
19	question, so it's overruled. All right. And the court
20	recorder, Mr. Wright, is asking that you speak up.
21	MR. WRIGHT: Okay.
22	THE COURT: All right. Go on, Mr. Staudaher.
23	BY MR. STAUDAHER:
24	Q So when you when you're billing for
25	anesthesia services, I mean how do you determine that what

do you -- what is the basis of your bill? 1 2 There's a standard codebook for different 3 procedures. Different procedures would have different number 4 of code and would have different number of units. The more 5 complicated the procedure the more units the procedure will 6 represent, so that's one part. Another part is the time, how 7 much time was used to provide our anesthesia service. 8 MR. WRIGHT: I'm going to object. I thought this was 9 a hypothetical if he had been hired to be a supervisor of the CRNAs --10 11 MR. STAUDAHER: It goes to --12 THE COURT: Overruled. Your objection is noted. BY MR. STAUDAHER: 13 14 So if it -- if a C -- if you were supervising a 15 CRNA, beside putting your name down next to the CRNA's, would 16 you use the information, the time, as part of how you would 17 bill for that service? 18 Yes. 19 THE COURT: So you're billing at a different rate, 20 again, if you're a supervisor than if you're actually 21 performing the anesthesia itself? 22 THE WITNESS: Right. I believe the --23 THE COURT: And the --24 THE WITNESS: -- rate is different. 25 THE COURT: Okay. And the rates are different like

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1	if it's a brain surgery it's probably going to be a higher
2	rate then maybe another kind of surgery?
3	THE WITNESS: Yes.
4	THE COURT: Okay.
5	BY MR. STAUDAHER:
6	Q Is in part what the basis of that on what the
7	Judge just asked you, because you get a base amount of times
8	or units, so to speak, and then you just add time to that in
9	units?
10	A Yes.
11	Q Okay. And what is the typical unit of
12	anesthesia time?
13	A Fifteen minutes.
14	Q Okay. If you are billing anesthesia times so
15	you start off with your base rate and whatever it is. Do you
16	know what it is for a colonoscopy?
17	A I believe it's either five units or six units.
18	Q So let's say it's five. If you're at five units
19	for the base, you start off with that as the number and then
20	for how much time you're in the room you add units on to that?
21	A Yes.
22	Q The units are in 15-minute increments. Does
23	that mean that if you get to 16 minutes you can bill for two
24	increments?
25	A Some people do that, but I don't.
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1	Q Okay. If you got to so just even a minute
2	into the next segment though you could legitimately bill if
3	you wanted to?
4	A Yes, some people would do that.
5	MR. WRIGHT: Judge, can we approach the bench?
6	THE COURT: Yeah.
7	(Off-record bench conference.)
8	BY MR. STAUDAHER:
9	Q Now, Doctor, I'm not going to ask you
10	specifically about Certified Nurse Anesthetists, just your
11	your involvement just your and your as a single
12	anesthesiologist what you do, what you would what you think
13	is right with regard to the things we're talking about. Okay?
14	A Okay.
15	MR. SANTACROCE: I'm going to object.
16	THE COURT: Well, let him let him ask the question
17	so we know what it is.
18	BY MR. STAUDAHER:
19	Q First of all, do you as a as a doctor, if you
20	were going to to an endoscopy center and you were going to
21	bill for a colonoscopy, the ways we've been talking about, how
22	would you bill it?
23	A I would bring a copy, Xerox copy of the
24	anesthesia record and a copy of the patient's face sheet.
25	That's a piece of paper with the patient's home address, phone

1	number, insurance information. We call that a face sheet. I
2	will bring a copy of that along with a copy of the anesthesia
3	record back to my office and give it to the billing service
4	for them to the bill the insurance company.
5	Q Do you know
6	MR. SANTACROCE: Your Honor, I'm going to object to
7	move to strike the last answer.
8	THE COURT: Well, overruled for now. And then how
9	does that work? Your billing person looks at it and sees how
10	many how many minutes or whatever it took and then they
11	bill according to that and what the procedure was and is there
12	a code for
13	THE WITNESS: Yes.
14	THE COURT: whatever the procedure was? So they
15	look, oh, it was open heart surgery, this is the code and it
16	was 17 minutes and then they bill according to that? Is that
17	in a nutshell what happens?
18	THE WITNESS: Yes.
19	BY MR. STAUDAHER:
20	Q Again, your experience as far as do you know
21	the codes for colonoscopies and upper endoscopies?
22	A I don't remember it.
23	Q Okay. But that's something that is how you base
24	your bill off of, whatever the base unit is plus the time.
25	A Yes.

1	Q In doing the work that you do, do you ever, you
2	know, if you've done a, let's say I mean how do you
3	calculate it? Is it face time with the patient? Is it is
4	it, you know, going in and talking to them talking to them
5	before and coming back to the room? I mean, how do you
6	determine what the time is that you spend with the patient?
7	A I don't charge for talking to the patient. I
8	charge starting the anesthesia time as the time the patient
9	comes into the procedure room.
10	Q And then what is it
11	THE COURT: Do you know if that's the industry
12	standard or if some people in the industry charge for, you
13	know, that initial kind of preoperative consultation?
14	THE WITNESS: I I I believe there are people
15	like that, yes.
16	THE COURT: Okay.
17	BY MR. STAUDAHER:
18	Q But do you know what the general industry
19	standard is for that?
20	MR. WRIGHT: He just asked and answered.
21	MR. STAUDAHER: He said that there were people that
22	did that, I didn't
23	THE COURT: Well you can follow up.
24	MR. STAUDAHER: That's what I'm trying to do, Your
25	Honor.

1	MR. WRIGHT: I want to voir dire him on being an
2	expert on billing and the national standards.
3	MR. SANTACROCE: I join in that.
4	THE COURT: All right. Go ahead, Mr. Wright, if
5	if we're going down that road.
6	MR. WRIGHT: What's your expertise on national
7	billing standards and the studies that have been done on them
8	for anesthesia time?
9	THE COURT: No one can hear you. And it was a
10	compound question so
11	MR. WRIGHT: Okay.
12	THE COURT: state it
13	MR. WRIGHT: Did I hear an objection?
14	THE COURT: No, but I since you have to restate
15	the guestion anyway.
16	MR. WRIGHT: Are you an expert on national billing
17	standards for anesthesiology?
18	THE WITNESS: How do you define expert?
19	MR. WRIGHT: Someone who knows more than most people
20	in that area and have you written about it?
21	THE WITNESS: No.
22	MR. WRIGHT: Published any articles?
23	THE WITNESS: No.
24	MR. WRIGHT: Read read studies about how
25	nationally other CRNAs bill for their time?

1	THE WITNESS: No.
2	MR. WRIGHT: Okay. And you've never you've as
3	I understand your testimony, you worked with some CRNAs when
4	you were a resident in San Diego back before 1993, correct?
5	THE WITNESS: Yes.
6	MR. WRIGHT: And other than that, you supervised for
7	four or five days in Los Angeles as a temp employee, correct?
8	THE WITNESS: Yes.
9	MR. WRIGHT: And other than that, no expertise with
10	CNRAs and how they compute their time and billing practices,
11	correct?
12	THE WITNESS: Correct.
13	MR. WRIGHT: I don't think he has
14	THE COURT: All right. Mr. Staudaher, you may
15	proceed.
16	BY MR. STAUDAHER:
17	Q And I told you I wasn't asking about CRNAs,
18	correct? I'm asking about you.
19	A Yes.
20	Q And you know the local market, not necessarily
21	the national market; is that correct?
22	A Yes.
23	Ç Because you work here.
24	A Yes.
25	Q So locally here, what kind how do you
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determine time? How — how does — how do generally the anesthesiologists that you work with in this community determine time?

THE COURT: All right. Are you objecting, Mr. Wright?

MR. WRIGHT: Yes.

THE COURT: Is that why -- I saw you get up. Ladies and gentlemen, it's 3:31. We're going to just take a quick recess until 3:45. During the relatively quick recess, you're reminded that you're not to discuss the case or anything relating to the case with each other or with anyone else. You're not to read, watch, listen to any reports of or commentaries on this case, any person or subject matter relating to the case by any medium of information. Please do not do any independent research. Please do not form or express an opinion on the case. Please place your notepads in your chairs and follow the bailiff through the rear door.

(Jury recessed at 3:30 p.m.)

THE COURT: Doctor, as I'm sure you're surmise —
you've surmised, we're going to be arguing about some of your
testimony that's going to be coming up. So I just ask you,
you know, you can take a break if you need to use the
facilities or just have a seat in the vestibule. There's a
little conference room off there to the side. Thank you, sir.

THE WITNESS: Okay.

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THE COURT: All right. Does anyone have a copy of the State's expert disclosure for the doctor? Thank you. Approach. All right. Now obviously, he can testify as to anything he did or did not do at the endoscopy center. We're clear about that, I get it.

MR. SANTACROCE: Yes.

THE COURT: The point is his name was used and he didn't do anything, you're fine with that. He can say, I didn't do anything and if I had done something I would have been in the patient's room and I would have done my bill like this and this bill wasn't done like that, so obviously he wasn't involved. We're all fine on that. The issue is him testifying sort of as an expert regarding billing practices. Is that what you were trying to go with Dr. Yee?

MR. STAUDAHER: Well, I mean, not necessarily billing practices in general. I mean, what he — what we've listed there for the things that he would testify about are everything that an anesthesiclogist would do because we know and anticipated that there would be objections at some point if we did not disclose him in that capacity to anything he testified for other than what he directly was involved with in this case. So when he's dealing with what he normally does in his practice, how he would fill out one of those forms, how he would normally bill and what he bases the bill off of, are all things that are all relevant.

THE COURT: Okay, yeah. Here's what you say, procedure, standards of care, blah, blah, blah. You said anesthetic agents. Anesthesiologist supervision of Certified Registered Nurse Anesthetists. Okay? He testified about that. I'm assuming there's no more questions about that?

MR. STAUDAHER: Other than you didn't do it in this

MR. STAUDAHER: Other than you didn't do it in this facility and --

THE COURT: Right. And that's not as an expert, that's as a percipient or a nonpercipient witness, if you will. I — I didn't do it, I wasn't there. That's fine, that's not expert. Okay, then the next thing is proper use and documentation of anesthesia records. We already went through this. He said this is how he'd fill it out and this is what would have been there. So are we done with that?

MR. STAUDAHER: Well, in part. What that relates to is how you -- how you bill for your time.

THE COURT: Here's the problem. He's already said, I bill one way and some other people bill another way. So unless is this is the standard, then who cares how this guy bills. You need to show that this is how people — that how the billing is supposed to be done or something like that, otherwise it's not relevant. So, you know, basically if you can lay a better foundation. So far he's kind of saying, well, this is what I do, I wouldn't bill at a — basically what I heard is he doesn't bill at 15-minute increments. He

would bill I guess more real time, the 15 minutes plus whatever, although he never said that. But some people do bill at the 15-minute increments.

And then he said, well, he doesn't bill for that sort of preoperative time, you know, the getting to know you phase, but that other doctors may bill for that. So I mean -- you know, I mean I guess if you want to ask him all the different ways people can bill, that's fine. The problem is you haven't established that he's going to be testifying about an industry standard or practice or something like that because his unique practices, they're only relevant to the extent to show if they were billing for his time, they didn't follow his billing practices or something like that. If that's what you want to show --

MR. STAUDAHER: That's -- that's where I'm going.

THE COURT: — then you need to make sure it is very clear that he is not talking as an expert about industry wide practices or practices in the, you know, Las Vegas community. You need to then say, okay, Doctor, you know, what — what was your specific practice? Blah, blah, blah, blah. Okay, Doctor, if you had done work at the clinic would you have followed that practice? Yes, and then tie it in that was never done so obviously he didn't do the work. Now that's not him testifying as an expert. I'm fine with that.

But if you want him to testify globally as to how

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billing is done, you have to have him establish, you have to lay a better foundation and you have to have him established A, that he has a basis of knowledge that this is basically how everybody does it or the prevailing view as how -- how it should be done or that's the industry standard or what have you. And then, you know, he can testify to that. But right now you really haven't laid a foundation for him to testify globally. Again, he can testify about what he does and had he worked in this case he would have done that, that's all fine. But the way it's coming in, it's sort of not clear that that's where you're going with this. And as I said if you --

MR. STAUDAHER: Fair enough.

THE COURT: -- want to use this more globally to say, well, they didn't comply with industry practices, you've got to set up that he knows what the industry practice is --

MR. STAUDAHER: I understand.

THE COURT: -- and he can testify about that. Because right now all I've heard from this doctor is him saying this is what I do and other people do it differently. Well, okay, is it 50/50, is it 70/30 -- you know, anyway, you need to lay a better foundation. If you're just going to use it to show again, you know, here's what he would have done, he didn't work in this case, Dr. Desai lied about him being -when I say this case, being involved with supervision and then to tie it in to the records that clearly he wasn't involved in

1 supervision because he didn't bill that way, then you need to make it clear -- then that's fine. But then it has to be 2 3 specific to him. Is that clear? 4 MR. STAUDAHER: Fair enough. 5 THE COURT: Okay. 6 MR. STAUDAHER: That's clear but there's two --7 there's two points --8 MR. SANTACROCE: Can I put mine on the record? 9 MR. STAUDAHER: -- just a second. There's two 10 points --11 THE COURT: Well, let him finish. 12 MR. STAUDAHER: Part of what -- in relation to seeing 13 these forms where he's listed as an anesthesiologist 14 supervising person that he supposedly signed them, I mean he 15 went out and he looked at some of these things. That's one of 16 the parts that they --17 THE COURT: And that's all fine. Anything his name 18 is on or anything he's alleged to have done --19 MR. STAUDAHER: Right. 20 THE COURT: -- certainly you can question him about 21 that and you're not going into expert testimony when you 22 question him about those things. Or what -- you know, again, 23 what he does, what he did, what he didn't do. That's all 24 fine. 25 MR. STAUDAHER: But as far as anesthesia billing

practice, him being an expert in any capacity, whether it's local or not, I mean he knows what you're allowed to do and what you're not allowed to do.

THE COURT: Okay. Well, you didn't ask it that way. You're saying --

MR. STAUDAHER: I know, I didn't get a chance to.

THE COURT: Okay. Well, you know, we're -- we're not sure necessarily where you're going.

MR. STAUDAHER: Well part of it is that they're -they are under the misconception that he's just here as a
clean percipient witness. That's not what he's disclosed as.

THE COURT: Okay. Well he can provide expert testimony as you've disclosed. But in order for him to do that you still have to lay a foundation that he's qualified to — to provide the testimony.

MR. STAUDAHER: Certainly.

THE COURT: And so far that hasn't been done because by his own answers, well, I do it this way but other people do it that way. So, you know, that — you're still — what he does. So you haven't — you know, maybe we're getting there and you got interrupted too soon or too frequently or whatever. But so far you haven't laid a foundation that this — you know, or if there's three or four accepted ways and he wants to testify about that, that's fine. But you still have to, you know, lay the foundation.

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Are you familiar with the accepted billing practices, Doctor? Yes, I am. And are there several ways that you can bill that's accepted in the industry? Yes, there are. And what are those methods? Blah-blah. And what method do you use, Doctor? Blah-blah-blah. What about this method, would that be accepted? No, it would not. Why not, Doctor? That's fine.

> MR. STAUDAHER: Okav.

THE COURT: But now you -- we know that he knows. Mr. Santacroce?

MR. SANTACROCE: As I indicated at the bench, I wanted to make an objection to the relevance of Dr. Yee's testimony and move to strike his entire testimony. reasons. First of all, as a percipient witness, he -- they haven't shown any relevance as to what he knows on July 25th and September 21st of 2007. He hadn't been in the -- he hadn't worked for the clinic apparently since 2001 or performed any procedures there. Secondly, as an expert witness, they haven't qualified him as a billing expert of CRNAs.

This case deals with CRNA billing, not anesthesiologist supervising CRNAs. They haven't established his qualifications that he's supervised CRNAs and what the practice for billing for CRNAs was. And I don't think that they're going to be able to establish that because by his own

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testimony, he's only worked with CRNAs four times in his career. So those are my objections and I move to strike his testimony in its entirety.

THE COURT: Well, so far his testimony, he really hasn't provided — I mean — about — you know, he talked about the form and what he would have done and, you know, that's probably relevant to the charge that no, he wasn't supervising, number one. Number two, with respect to the fact that he was not there that day, the days in question, I'm assuming the point of this testimony is just it's part of the practices of overbilling and misrepresentations and cutting corners and that sort of thing. Is that the point of this testimony?

MR. STAUDAHER: In part, Your Honor, yes. And there's also direct communications that he had with Desai about these issues. So --

THE COURT: Okay.

MR. SANTACROCE: He doesn't even know the regulations in Nevada that CRNAs can work unsupervised without an anesthesiologist and he's leading the jury to believe that they had to have an --

THE COURT: And that's not true, I mean --

MR. SANTACROCE: -- anesthesiologist supervision. I mean that's totally misleading and in each --

THE COURT: Yeah, Mr. Staudaher, what about that?

They're not -- I mean -- I mean here's the thing. If it -misrepresentations were made and the point of that is it's
just to show the way this clinic was being run and corners are
being cut, then he can certainly present that. If you don't
have evidence and that's not the law that it was required, you
can't suggest that it was required. It may still be relevant,
Mr. Santacroce. Again, it's relevant to the
misrepresentations and just the way the clinic was being run.
Is that kind of the point of this, Mr. Staudaher?

MR. STAUDAHER: Well, in -- in -- in part, Your

Honor, yes. But I don't -- I didn't get the issue that he's raising, that Mr. Santacroce is raising that he made a representation that you have to have a -- you can't run independently at all. If that's what --

MR. SANTACROCE: That's -- that's the inference -- MR. STAUDAHER: -- it is I'll clear it up or he can clear it up on cross.

THE COURT: Yeah, I think that may be the inference. Because remember when I said at the bench, I said, that's not true. And, in fact, at other very highly regarded institutions, you get a CRNA and there's no -- you know, anesthesiologist hovering about. I can tell you this on personal experience.

MR. SANTACROCE: But he can't testify to the standards, as Ms. Stanish pointed cut. He's testifying about

He can't testify to those standards that he standards. 1 2 doesn't know and he's misleading the jury. 3 THE COURT: Okay. Mr. Staudaher said he would clean 4 it up. I've already told Mr. Staudaher if he testifies about 5 standards he's going to have to lay a better foundation to 6 show that he knows what he's talking about. That has not been 7 done yet. So Ms. Stanish, no need to--8 MS. STANISH: No, you've already --THE COURT: -- chime in here? 9 10 MS. STANISH: No, I'm not chiming in. 11 THE COURT: All right. 12 MS. STANISH: You've already told him how he should 13 set his foundation. 14 THE COURT: If anyone needs a two or three -- you 15 know, five-minute break take it right now. 16 (Court recessed at 3:43 p.m. until 3:49 p.m.) 17 (In the presence of the jury.) 18 THE COURT: All right. Court is now back in session. 19 Mr. Staudaher, you may resume your direct examination. 20 MR. STAUDAHER: Thank you, Your Honor. 21 BY MR. STAUDAHER: 22 Couple things. When we left off I was asking 23 you some questions about colonoscopy codes, things like that. 24 Do you remember coming before the grand jury at one point? 25 Α Yes.

1	Q Do you remember giving some testimony in which
2	that very subject came up?
3	A Yes.
4	Q Okay. If I approached you and gave you a copy
5	of the transcript to refresh your memory, would that possibly
6	do so?
7	A Yes.
8	MR. STAUDAHER: Okay. And I'm referring to page 41
9	for counsel. May I approach, Your Honor?
10	THE COURT: You may.
11	BY MR. STAUDAHER:
12	Q You can read as much before or after to get
13	context as you need. That page right there. When you're done
14	let me know if that refreshes your memory. Does that refresh
15	your memory?
16	A Yes.
17	Q What is the anesthesia code for a colonoscopy?
18	A As I remember, it was 00810.
19	Q So 810 if we took off the front zeros?
20	A Yes. But these codes are subjected to to
21	change by the different additions of the ASA textbooks,
22	codebooks.
23	Q But back then that's what it was; is that right?
24	A As I can remember, yes.
25	Q Okay. And what about for an upper endoscopy?
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1	А	00740.	
2	Q	So 740 for upper endoscopy, 810 for a	
3	colonoscopy.		
4	А	Yes.	
5	Q	Now obviously, you must have learned somewhere	
6	about how to bill anesthesia time; is that fair?		
7	А	Yes.	
8	Q	Where did you learn that information?	
9	А	Just in my own medical practice.	
10	Q	So as far as your medical practice is concerned,	
11	I mean is there a booklet or some sort of documentation that		
12	you use to figure this stuff out?		
13	А	Yes.	
14	Q	And what is that?	
15	А	It's a ASA Anesthesia Unit Codebook.	
16	Q	So you're familiar with that?	
17	A	Yes.	
18	Q	Do you use that on a daily basis in your	
19	practice?		
20	А	Yes.	
21	Q	When you say ASA, what does that stand for?	
22	А	It stands for American Society of	
23	Anesthesiologists.		
24	Q	Okay. And this is standard standard	
25	publication t	that's used across the country by	
		KARR REPORTING, INC.	

1	anesthesiologists?	
2	A I would think so, yes.	
3	Q Have you ever have you used it wherever you	
4	practiced before?	
5	A I've only practiced in Las Vegas.	
6	Q So it's used here?	
7	A Yes.	
8	Q Do you know other anesthesiologists in town that	
9	use the same codebook?	
10	A Yes.	
11	Q Do other anesthesiologists in town use some	
12	other different codebook?	
13	A I haven't seen any other codebooks.	
14	Q So that's your experience is that codebook is	
15	used by the anesthesiologists here locally?	
16	A Yes.	
17	Q Now in that, does it have codes like we just	
18	talked about, 710 or is 810, 7 760 I think?	
19	A Yes.	
20	Q And does that not only denote the type of	
21	procedure but the base units for the anesthesia that you can	
22	charge for it?	
23	A Yes.	
24	Q So you've got that information. And is that	
25	have you seen anybody depart from that, make up their own	

1	codes to change it around at all as to what they would bill		
2	for the as far as the base units for example?		
3	MR. SANTACROCE: Objection, foundation.		
4	THE COURT: Overruled.		
5	MR. STAUDAHER: I'm asking his		
6	THE COURT: Over I overruled.		
7	MR. STAUDAHER: Okay, sorry.		
8	A I have not seen that.		
9	BY MR. STAUDAHER:		
10	Q And do you know many anesthesiologists in the		
11	community?		
12	A Yes.		
13	Q A lot of them?		
14	A Yes.		
15	Q Have you worked with some of them at times?		
16	A Yes.		
17	Q In fact, have you been in different groups over		
18	the time you've been here?		
19	A Yes.		
20	Q So you've worked independently and you've worked		
21	in group settings?		
22	A Yes.		
23	${\tt Q}$ Do you have a a as far as the billing		
24	goes, do you bill your own own stuff or do you give it to a		
25	billing company to do?		

1	А	We've done both.	
2	Q	So you've done both over the time?	
3	А	Yes.	
4	Q	Have you used only one billing company or or	
5	more than one?		
6	А	More than one.	
7	Q	Do they do it the same way? I mean you	
8	obviously know what you bring them and what they bill and what		
9	you get back,	correct?	
10	А	Yes.	
11	Q	Is it the same way universally between all the	
12	billing companies?		
13	А	Yes.	
14	Q	And in and do some actually take a higher	
15	percentage or	lower percentage depending on which kind of	
16	company it is	for their fee?	
17	А	Yes.	
18	Q	Is that the only thing that really varies	
19	between bill to bill?		
20	А	Yes.	
21	Q	Now as far as your involvement in those cases	
22	where you have done, you know, colonoscopies or upper		
23	endoscopies,	the base units are five, I think is what it said	
24	here in your	in your testimony, correct?	
25	А	It might have changed over the last 10 years.	
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1		Q	And I'm just talking about back then when you
2	gave you	r tes	timony and about the time when all this was going
3	on.		
4		A	To the best of my recollection, yes.
5		Q	Okay. Now you also said that you know that
6	there ar	e	that time is how anesthesia is billed above the
7	base bas	e; is	that fair?
8		А	The time would be in 15-minute increments, yes.
9		Q	So now you said that if for example
10		MR.	WRIGHT: Objection to the leading.
11		THE	COURT: Well, overruled.
12	BY MR. STAUDAHER:		
13		Q	You said that a if a procedure lasted say 16
14	minutes,	that	that would be technically two anesthesia units,
15	correct?		
16		А	Yes.
17		Q	And you said it's your personal experience that
18	you woul	d not	bill for the extra unit; is that fair?
19		А	Yes.
20		Q	Do you know anesthesiologists in town that would
21	bill for	the	extra unit?
22		A	Yes.
23		Q	So is the time important on anesthesia records
24	to get r	eimbu	rsed?
25		A	Yes.
	ł.		

1	Q Is that universally known among all
2	anesthesiologists that work in town to your knowledge?
3	A Yes.
4	Q As far as your particular involvement in a case,
5	whether you would personally do it or not, if you had been a
6	supervisor for somebody, such as a CRNA, would you have ever
7	encouraged, allowed or condoned the billing in the way that
8	I've I just told you?
9	A So alter the time?
10	Q Not alter I didn't get to alter time.
11	THE COURT: That I I I don't know if he
12	understood the question but I didn't understand the question.
13	MR. STAUDAHER: Okay, bad question.
14	THE COURT: So can you rephrase the question?
15	BY MR. STAUDAHER:
16	Q Let's talk about just the 16 minutes for two
17	units versus one. Your personal deal is that you would just
18	do one unit, correct?
19	A Yes.
20	Q Is that because it's close enough to the 15 that
21	it you don't feel it's appropriate to bill for another
22	unit?
23	MR. WRIGHT: Objection to the leading, Your Honor.
24	THE COURT: That's sustained. Why
25	MR. STAUDAHER: He's actually an expert, Your Honor.
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THE COURT: Well, I mean you can ask him why is that. 1 THE WITNESS: I -- I don't do it because number one, 2 3 I don't think it's right. Second, I think that would probably call upon reviews by Medicare, by other insurance companies to 4 look in on the matter. 5 6 BY MR. STAUDAHER: 7 Okay. THE COURT: But you said that you're aware of other 8 9 doctors who don't feel that way apparently and do it 10 differently. THE WITNESS: Yes, some other people do that. 11 12 THE COURT: Okay. Go on, Mr. Staudaher. BY MR. STAUDAHER: 13 If you had ever supervised or would ever 14 supervise anybody, would you allow them to bill in that 15 16 manner? MR. SANTACROCE: I'm going to object, improper 17 18 hypothetical. THE COURT: Well, overruled. 19 20 THE WITNESS: I would not. 21 BY MR. STAUDAHER: 22 Now, I'm going to move to the other thing you mentioned, which was actually altering the times. Have you 23 24 ever in your practice ever altered the anesthesia time beyond 25 what it should be?

1	
1	A No.
2	Q And what I mean by that is padding time, adding
3	time that you did not actually legitimately could bill for.
4	A No.
5	Q If you had ever supervised anybody, would you
6	have agreed or condoned that or sort of procedure with
7	somebody else?
8	A No.
9	Q Why not?
10	MR. WRIGHT: Can we approach the bench, Your Honor?
11	THE COURT: Okay.
12	(Off-record bench conference.)
13	THE COURT: Next question.
14	BY MR. STAUDAHER:
15	Q Next series of questions relate to your
16	interaction directly with Dr. Desai. Okay?
17	A Okay.
18	Q Now you had said that at some point in the past
19	that you had entered into some or at least talked about
20	some sort of supervisory role for a certified nurse
21	anesthetist in his clinic; is that correct?
22	A Yes, there was discussion.
23	Q Okay. And tell me what what it was about
24	that discussion I mean how did that transpire, how far did
25	it get, that kind of thing.

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A The discussion started when I believe we realized that as fast as I could work there was only a certain number of patients that I could do anesthesia for within the — the day that I would — when I go over to his endoscopy center. My speed is limited. But if we had more CRNA available and more rooms to do it in, then I can supervise multiple CRNAs simultaneously and then to allow more cases to be done. And so that's how the discussion started and I believe it led to —

MR. WRIGHT: Objection. Can we just here what was said by each? I'd like to hear the discussion.

MR. STAUDAHER: By each?

THE COURT: Well, okay. Don't speculate but I think

-- when you say I believe, do you mean this is what you -your recollection is?

THE WITNESS: Yes.

THE COURT: Don't speculate as to what anybody else may have been thinking. I don't know that that's what you were doing or think that's what you were doing --

THE WITNESS: No.

THE COURT: -- but that may have been the basis of the objection. So you can continue with or follow up with the next question.

THE WITNESS: So Dr. Desai expressed interest in hiring CRNAs. And I pointed out to him that the CRNAs had to

be supervised by M.D. anesthesiologist on site for the 1 2 supervision to work. MR. SANTACROCE: I'm going to object, Your Honor, 3 misstates the law. 4 THE COURT: All right. 5 MR. STAUDAHER: That's not the point at this point. 6 THE COURT: All right. Well, that's sustained to the 7 extent the witness cannot opine or state the law. It is 8 9 overruled to the extent that the jury may consider that just as part of the conversation that was going on between the 10 witness and Dr. Desai. So you may proceed -- you may proceed 11 12 with your answer, Doctor. BY MR. STAUDAHER: 13 So at least you told -- right or wrong, whether 14 that's the state of the law or not, that's what you told him, 15 correct? 16 17 Α Yes. Now did -- what were you basing that off of? 18 Q Based on my personal medical practice 19 Α 20 experience. Okay. So you told him that that's -- and he's 21 asking you to be the supervisor, correct? 22 23 Α Yes. And you told him that's the way it would have to 24 Q be, that somebody would have to be directly supervising the 25

1	CRNAs?
2	A Yes.
3	Q In fact, did you did you tell him more than
4	that about who would be responsible if that wasn't the case?
5	A I told him that whichever M.D. doctor was in the
6	room when the CRNA was performing his duty, if something was
7	to go wrong due to anesthesia complication, the M.D.
8	performing the procedure would be held responsible for the
9	action of the CRNA.
10	MR. STAUDAHER: Can I have the doc camera, please?
11	MR. WRIGHT: Once again, I object to that, that
12	that's
13	THE COURT: Well
14	MR. WRIGHT: simply his opinion.
15	THE COURT: overruled.
16	MR. WRIGHT: Okay.
17	THE COURT: The Court has instructed the jury as to
18	how the testimony may be considered.
19	BY MR. STAUDAHER:
20	Q Can you go ahead and tap that in the corner?
21	I'm showing you what has been this is State's Exhibit 65
22	and this is Bates number 468 of that. We're going to zoom in
23	on it a little bit because I know it's very small. But can
24	you tell us if you recognize that document?
25	A Yes.

i i	
1	Q What is it?
2	A It seems to be a letter of intent for me to
3	provide supervision supervisory service to CRNAs at Dr.
4	Desai's endoscopy center.
5	Q Do you see any writing on this document and I
6	can bring I brought it up to you a little bit earlier and
7	I'll bring it up to you again if you need to, but do you see
8	any writing on this document that is, in fact, your your
9	writing?
10	A Yes.
11	Q Can you circle for us in general the areas that
12	have your writing on this document? Okay. Go ahead and clear
13	that if you would.
14	MR. WRIGHT: I want to make a record of that.
15	MR. STAUDAHER: He circled the handwritten portion on
16	paragraph three and the handwritten portion on paragraph five,
17	for the record.
18	THE COURT: That's the record.
19	BY MR. STAUDAHER:
20	Q Does your signature appear on this document at
21	all?
22	A Yes.
23	Q Now I want to zoom in on that for a moment and
24	then we're going to zoom in on some other portions of this.
25	Does that appear to be your actual signature?

A Yes.

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or excuse me, July 31st of 2006.

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A Yes.

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Q There's a signature for what appears — at least the name underneath it is Dipak Desai and also a date, which if you look at it closely, it looks to be the same, the sixth — or rather the sixth of — it looks like of July of 2006.

Now the date here appears to be the sixth of --

8 9

Do you see that?

Α

10

A Yes.

11

12

13

Q Now the handwritten portions, let's -- let's go through this, if you would. Let's see if I can just zoom it out just a little bit so you get the -- can you read that to us, please, out loud?

14

A The one with the offsite?

1516

Q No. Just go ahead and read the whole thing to

17

us out so that the jury can hear it.

18

19

between Gastroenterology Center of Nevada, a Nevada joint

20

venture or its successor or assigns, and Thomas C. Yee, M.D.,

"This agreement dated May 1st, 2006 by and

21

d/b/a Professional Anesthesia Consultants. Thomas C. Yee,

22

M.D. in conjunction with Dipak Desai, M.D. of Gastroenterology

23

Center of Nevada, agrees to supervise and consult with CRNAs

24

employed at Gastroenterology Center of Nevada. Supervision

25

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and consultation services will be provided regarding the

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anesthesiology service provided by said Gastroenterology

Center of Nevada employees. It is agreed that Thomas C. Yee,

M.D. will be available for phone consultation in addition to

on-call premise consultations as necessary.

The CRNAs who will be under the off-site supervision of Thomas C. Yee, M.D. are as follows: Barbara Glass-Seran, CRNA; Linda Hubbard, CRNA; Ronald Lakeman, CRNA; Ann Marie Lobionda, CRNA; Ralph McDowell, CRNA; Keith Mathahs, CRNA, Vincent Mione, CRNA. It is further understood that this agreement will include any and all CRNAs who may be employed in the future with Gastroenterology Center of Nevada.

This Supervisory Agreement shall include all ASA cases performed at the — in the Endoscopy Center of Southern Nevada, LLC, located at 700 Shadow Lane, Suite Number 165B, Las Vegas, Nevada 89106 and the Dessert Shadow Endoscopy Center, LLC, located at 4275 South Burnham Avenue, Suite Number 101, Las Vegas, Nevada 89119. It is agreed that cases that are classified as ASA — greater than ASA 3 will be performed by Thomas C. Yee, M.D. and not by the CRNAs. Unless the M.D. Anesthesiologist is on—site, all supervision is limited to chart review for quality assurance purpose only.

Accepted — accepted by Dipak Desai, M.D. Managing
Partner of Gastroenterology Center of Nevada, 700 Shadow Lane,
Suite 165-A, Las Vegas, Nevada 89106. And signed Thomas Yee,
Professional Anesthesia Consultants, 3540 West Sahara Avenue,

1	Suite 434, Las Vegas, Nevada, 89102."
2	Q Now the portion that you read here on paragraph
3	three where it has the words off-site, it appears as though
4	there's something else written up here. What is what is
5	that?
6	A Oh, that's my initial.
7	Q Okay. And the same thing on the handwritten
8	portion down below here. If we go off to the side there's
9	also what appears to be some initials there?
10 ,	A Yes.
11	Q So this was the agreement that you were proposed
12	or proposing to enter into with Dr. Desai?
13	A I would call this a letter of intent.
14	Q Okay. And it indicates there that again,
15	what is your understanding based on the notes that you put in
16	here as to what your supervision would encompass if you were
17	not on-site?
18	A If I was not on-site I was to only do chart
19	reviews for quality assurance purposes.
20	Q That's it?
21	A That's it.
22	Q Did you ever supervise anybody on at the
23	Shadow Lane campus?
24	A No, never.
25	Q Did he ever pay you a dime to do any supervision
	KARR REPORTING, INC. 239

1	work?
2	A No.
3	Q Did you bill for any anesthesia services that
4	were provided by any of those anesthesiologist or excuse
5	me, nurse, certified nurse anesthetists listed there?
6	A No, never.
7	Q Did you ever receive a penny of compensation for
8	any of this?
9	A No, never.
10	Q Did you ever hear from him again about this
11	after you after you signed this document?
12	A No.
13	Q Now I want to show you a different one and this
14	one is Bates number 6 or 469. Do you see this one? It's a
15	little bit of a different one, but I want to refer to — it's
16	another Supervising Physician Agreement. Do you see that?
17	A Yes.
18	Q Now, if we go down to the bottom though, there
19	are three signature blocks this time. Do you see that?
20	A Yes.
21	Q One says Dipak Desai, one says Vishvinder Sharma
22	and then one says Thomas Yee.
23	A Yes.
24	Q Now the dates over here are in 2002. It looks
25	like all the same date, April 1st of 2002.

1	A Yes.
2	Q Do you ever recall signing such a document?
3	A I don't recall.
4	Q Look at that signature there. Does that appear
5	to be your signature there?
6	A That's, to my recollection, that's not how I
7	sign my signatures.
8	Q As a matter of fact, if we go to the previous
9	one where you said it was your signature, you see it there?
10	And this is on, again, 6 or 468
11	A Yes.
12	Q and then we look at 469, that same same
13	signature. Do they appear different to you?
14	A They're different and the the dates are
15	different.
16	Q Yes. The dates are clearly different, they're
17	four years apart.
18	A No, no, no, the writing on the dates. I didn't
19	write that date. That date, the handwriting on the date here
20	next to my name is identical to the handwriting of the dates
21	next to Dr. Desai's signature.
22	MR. SANTACROCE: I'm going to object to that, Your
23	Honor. There's been no qualification that he's a writing
24	expert.
25	THE COURT: All right. That that's sustained.

l	
1	MR. STAUDAHER: Fair enough.
2	THE COURT: He can certainly say it's not his
3	writing
4	MR. SANTACROCE: Right.
5	THE COURT: or he doesn't recognize it.
6	THE WITNESS: You can compare the date writing
7	THE COURT: Well, sir, you're going
8	BY MR. STAUDAHER:
9	Q No, we don't want you to do that.
10	THE COURT: beyond your expertise as a physician,
11	so.
12	BY MR. STAUDAHER:
13	Q Suffice it to say that this is not your
14	handwriting for the date; is that right?
15	A No, no. You can compare that to my other
16	handwriting for the date on the other piece of paper.
17	Q Okay. And we'll well, just go ahead and do
18	that while we've got it up here. There it is, right there.
19	Now, this second Physician Agreement, which is four years
20	earlier, was there anything that I mean, do you remember
21	talking with Dr. Desai about maybe entering into an agreement
22	before 2006 with him like you had talked or like you had
23	done in the previous one that you actually signed?
24	A We talked about it, yes.
25	Q Okay. But you didn't actually do anything?

1		А	No.
2		Q	Again, related to this current one that we're
3	showing,	whic	h is 469, any payment for services rendered
4	during t	nat t	ime?
5		А	No.
6		Q	Did you ever supervise any CRNAs during that
7	period o	f tim	e?
8		А	Never.
9		Q	Did you ever bill for or receive any payments
10	for any	billi	ng of any CRNAs during that time?
11		А	Never.
12		Q	The issues with regard to Dr. Desai and the
13	conversa	tions	you had about this, how many different ones were
14	there to	the	best of your knowledge?
15		А	One or two.
16		Q	Would you have I mean is there is it
17	possible	that	there were more than that?
18		А	It's possible.
19		Q	Did he ever after the last one, is that when it
20	culminat	ed in	the the well, let me pull it up here, the
21	Supervis	ing P	hysician Agreement listed here, which is 468
22	where yo	u act	ually signed it? The was it prior to that or
23	after th	at la	st conversation?
24		А	I have never I've never been back to the
25	endoscop	y cen	ter even after 2000, 2001.
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1	Q Now, one just a couple last questions. With
2	regard to the supervising that you were agreeing to do here,
3	and I'm talking about whether it be chart review, if you were
4	on-site it would have been something that you would have
5	agreed to supervise actual procedures.
6	A Yes.
7	Q Okay. And when it says here ASA greater than
8	three, what does that mean?
9	A That means patients with disease conditions to
10	make them at higher risk for undergoing anesthesia.
11	Q Does that mean that patients that fell
12	underneath that sort of bar, that you would have allowed
13	off-site supervision?
14	A No.
15	Q Would you have ever been in a situation where
16	you would agree I mean, I know you've you've initialed
17	this here and put that that addendum in there, but would
18	did you or would you ever have agreed to do off-site
19	supervision of someone doing anesthesia on a patient?
20	A No.
21	Q Why not?
22	A To my understanding that's not legal.
23	Q That's what you believe?
24	A Yes.
25	Q Okay. Regardless of what whether the

1	there's legality or whether it's legal or not legal, it's just
2	something that you would not have done yourself?
3	A No.
4	Q Did you ever enter into any agreement with an
5	individual by the name of Satish Sharma to do any supervisory
6	work at the clinic?
7	A No.
8	Q Do you know him?
9	A No.
10	Q So he's not even somebody you've worked with?
11	A No.
12	Q Did you have any discussions with anyone else
13	about supervising anesthesia CRNAs at any other location?
14	A No.
15	Q So this is the only time you've ever dealt with
16	this issue and is that the extent of it?
17	A Yes.
18	MR. STAUDAHER: Pass.
19	THE COURT: All right. Who's first for cross, Mr.
20	Wright?
21	MR. WRIGHT: Yes.
22	CROSS-EXAMINATION
23	BY MR. WRIGHT:
24	Q Did you ever did you ever have any
25	discussions with Tonya Rushing?
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1	A I don't recall.		
2	Q Okay. Do you know who Tonya Rushing is?		
3	A Yes.		
4	Q Okay. Did you talk to her at the same time you		
5	were talking to Dr. Desai about whether or not to implement a		
6	supervision agreement where an anesthesiologist would		
7	supervise CRNAs?		
8	A I only talked to Dr. Desai about this.		
9	Q Okay. So you didn't talk to Tonya Rushing about		
10	it?		
11	A I don't recall.		
12	Q Does that mean you didn't or you don't I		
13	when you say it does I don't recall mean you could have and		
14	you're not denying it or I did not?		
15	A Tonya is a manager of the clinic.		
16	Q Yes.		
17	A I would not talk to a manager about these		
18	matters, I would talk to the principal, the doctor		
19	Q But you wouldn't talk to a manager?		
20	A The manager has no right to make decisions		
21	anyway, so it's a waste of my time.		
22	Q Okay. Now you talked to Dr. Desai back first		
23	of all, you you were I don't want to say you were		
24	working for Dr. Desai, you were available as an		
25	anesthesiologist before he went to the CRNA practice, he would		
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1	call you and you would come and work, correct?		
2	A I was never an employee		
3	Q That's what I said.		
4	A right. And I was one of a large pool of		
5	anesthesiologists that he would call to provide service at his		
6	endoscopy center.		
7	Ç Okay.		
8	A The frequency at which I appeared at his		
9	endoscopy center, in my recollection, was about once every		
10	five to six months.		
11	Q Okay. Well, 40 or 50 times?		
12	A No, I have never been 40, 50 times, no.		
13	Q You've never been there 40, 50 times?		
14	A No, no, no.		
15	Q Okay. Did you tell the police when they		
16	interviewed you that you had done 40 to 50 procedures for Dr.		
17	Desai?		
18	A Do you know how many procedures are done at one		
19	time, in one sitting?		
20	Q Just a moment, sir. My question was, did you		
21	tell the police when they interviewed you		
22	A Yes, one one day's work involved 20 cases.		
23	Q just a moment. Let me talk then you talk.		
24	It's simpler for the court recorder. Did you do you		
25	remember being interviewed by the Metropolitan Police		

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1	Department?	
2	A Yes.	
3	Q Did you tell them that you had done 40 to 50	
4	cases?	
5	A Yes.	
6	Q Okây.	
7	A So?	
8	THE COURT: Let me ask you this. Each time you	
9	showed up at the clinic this every five to six months, how	
10	many cases would you do?	
11	THE WITNESS: About 20 cases each time.	
12	THE COURT: And by case we mean patient?	
13	THE WITNESS: Yes.	
14	THE COURT: Okay.	
15	BY MR. WRIGHT:	
16	Q Okay. So you did more than 40 to 50, you would	
17	do 20 every six months?	
18	A No.	
19	Q Okay. Well, you're losing me.	
20	A The frequencies would be once every six months,	
21	but I did not go that many times altogether.	
22	Q Okay. So you estimate 40 to 50 procedures?	
23	A Yes.	
24	Q Okay. And that was pre-CRNA days, right?	
25	A Yes.	
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1	Q And at the time Dr. De	esai talked to you about		
2	${\mathbb C}$ going to a CR CRNA type practice,	correct?		
3	A Yes.			
4	Q Okay. And he told you	the reason, correct?		
5	A Yes.			
6	Q Okay. And he told you	that it was too difficult		
7	looking, the anesthesiologist like y	yourself, for an expanding		
8	practice and he was considering going to CRNAs and considering			
9	going expanding to like an additi	ional procedure room; is		
10	that correct?	that correct?		
11	A Yes.			
12	Q Okay. And so then in	discussing it with you,		
13	you and he proposed a type of arrang	you and he proposed a type of arrangement, which we'll call a		
14	letter of intent. Okay?			
15	A Yes.			
16	Q Okay. And it was v	was the contemplated		
17	arrangement, something being consider	ered as a possible		
18	intention be that you would supervis	intention be that you would supervise the CRNAs as an		
19	anesthesiologist?			
20	A On-site, yes.			
21	Q Yes, on right. You	being there and doing it?		
22	A Yes.			
23	Q Right. And that's wha	at you had in mind and		
24	proposed to him.			
25	A I did not propose to h	min		
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1	Q Okay.	
2	2 A — this came up	in discussion.
3	Q Okay. Well it -	by proposed, what I'm meaning
4	$\downarrow$ is, if it had if it had occ	curred under those terms, you
5	were interested in it.	
6	A Yes. If I were	to be called to go there in
7	person working in a supervison	ry role with one or two CRNAs,
8	3 that was something I would be	interested in.
9	Q Okay. That t	that did not come to pass,
10	correct?	
11	A Correct, never h	nappened.
12	Q Okay. Right. Y	You didn't you you know
13	$\beta$ that he they hired their $\alpha$	wn CRNAs, correct?
14	A Yes, he hired h	is own CRNAs.
15	Q Okay. And you b	knew he didn't go forward with
16	your with the proposed on-	site supervision plan, correct?
17	7 A Yes.	
18	Q Okay. And you w	were you initially spoke to
19	Dr. Desai about that probably	in 2000 well, if you haven't
20	been there since 2001, it would	ld have been around 2001.
21	l A Yes.	
22	Q Whenever it was	that the practice went to Dr.
23	B Desai's clinic practice went	to CRNAs, it would have been
24	right before then. Is that a	fair characterization?
25	A I had never been	n to the endoscopy center in
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A That's correct.

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Q And the statistics, not that I want to get into a big discussion about statistics, but you -- is there some

cut-off where there's a -- where the statistics create some kind of doubt or other possibilities if it's less than a certain percentage, like 95 percent. If it's less than 95 percent then it's not in your mind as definite as, you know, some of these 100 percent things that we were looking at. And I know I'm not using -- it's not a scientific question, so I'm asking you to help me out --

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A Yeah, that's why I'm a little uncomfortable --

Q -- on that. Do you know what I mean?

A —— because the model by itself actually tells a story. But if we are to talk about percentages, yes, we did a statistical analysis and we analyzed quasispecies population, sampled exactly using the same methodology because if a different matter would be used, they may come to the different biases. You know after this analysis, we learned that if genetics —— maximum genetic identity less than three percent in reality for subtype 1-A, I believe 3.2 percent for subtype 1-B, it would be —— I'm fuzzy a little, I need to look it up, but let's say four percent. And if it is below, let's say, this value, I'm very comfortable to say that those patients represent the same strain.

Q Just to make sure I'm clear on this, is it that

-- because you mentioned that four percent earlier and so

that's where I was trying to get some clarification. Are you

-- and maybe I'm just being too simple minded here, but with

the percentages, if -- if instead it said -- when you say four percent, are you saying 90 -- if it were below 96 percent it would be problematic?

A Oh, yeah. Then I would rely only on phylogenetic analysis to see what phylogenetic analysis tells me.

Q And I -- and, you know, this was part of my question and I hope you can give us a -- a dumb down answer so that we can understand it. The, you know, you were using the maximum figures on the chart and then here we have the means. Is that just the average?

A Yes.

Q And, you know, I see some of these figures are well below the 96 percent. You know what I mean?

A Oh.

Q So could you explain that?

A Then you need to look into structure of the population. This is very important because when I talk about maximum identity, I'm looking at the entire population and I'm looking at each and every variant irrespective of its frequency because the same variant, exactly the same variant may be very frequent. Let's say I comprise 70 percent of the population. This significantly may change conclusion for the means. But at the same time, we're looking at minimal distances or maximal identity.

And if we have, let's say, I already tried to explain this, if we have something like 10 variants sampled from one patient and 10 variants sampled from another patient, then I'm making all possible comparisons between being obtained from one patient to another one. And in this case I should have — what are this — 100 minus 10, like 45 comparisons. So I'm looking at all those 45 comparisons, between 10 against 10 and then I choose the minimal, the minimal distance and that what is an maximum identity here.

Q All right. I don't understand, but that's all right. The next area I want to go to is the -- I'll -- I'm going to really keep this simple because I'm just looking at dots. Okay? And if you could join me here. And I know this is all one-dimensional. I imagine in real life you've got these molecules that are three dimensional --

A No.

Q No, it is? It's just flat? You learn something new every trial. And just in my simple history major mind, I see on the right branch of the host patient, NVC45 is where I'm looking, Mr. Rubino. As I understand it, he -- it's because he had hepatitis C for a long time, he had this -- more dots than the -- the more colorful dots, correct?

A Well, no, because population is very heterogeneous, basically one dominant branch here and then minor branch here.

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So I'm just going to keep this simple. Why aren't there any dots here?

To some extent --

I'm sorry. And for the record I was pointing on -- at the right branch. It looks to have maybe ten times more dots then the left branch.

I may only have brought the size wide, because nobody would know and this is actual research. I would assume that this population, dominant population, when we all have this dots of any other color, became dominant in this patient because it adapted to this patient. In this patient they're already antibodies that chasten this virus, kill some certain members of the other subpopulations and this become dominant population in this patient by sheer chance. But there are some remnants of previous subpopulations that still can be identified with these branches, with this small minority branches. And those actually become more transmissible when it come to naive host. We did not experience this infection before and who has no antibodies yet before transmission.

Okay. And -- and -- and moving over to your July cluster. And why do we call that a cluster when there's only one match? Is there -- is cluster some kind of significant term?

It's just -- just basically this also a No. cluster, just a set of variants.

1	Q So we have a cluster of one or two, I guess.
2	A Yeah. It represent two patients and they but
3	there are many different quasispecies variant samples so
4	that's why it's very convenient for us to call them cluster.
5	Q And then similar to this September cluster, the
6	right branch, is it Mr. Ziyad, it has I guess what you would
7	call a dominant branch with several quasispecies; is that
8	correct?
9	A That's correct.
10	Q And then there's there's a match on one, two
11	and I can't even count those, but on those those smaller
12	branch, you have the the what matches from Mr.
13	Washington; is that right?
14	A Yeah, that's right.
15	Q And and I want you to take a seat. As I
16	understand what you're saying, is you're able to distinguish
17	the the host patients, have it in their system longer and
18	it somehow develops in a more complex RNA strain? I know I'm
19	not using the right word. Help me out.
20	A Just set of variants.
21	Q Good enough. All right. Is there do when
22	you do testing in the lab, do you test organs that are, you
23	know, taken out of people who have hepatitis or are you just
24	the blood guy?
25	A 99.9 percent would test only serum specimens.

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1	Q Okay. So you're not looking at physical organs,
2	a liver?
3	A No.
4	Q All right. Can you tell from this analysis and
5	from this picture of dots that we're seeing, can you tell
6 .	whether any of the we'll call them the colored dcts,
7	whether any of those individuals had hepatitis C separate and
8	apart from what you're concluding came from the host patients?
9	Do you see what I'm saying?
10	A Yeah. This analysis actually cannot determine
11	disease, so we cannot say if any one of those patients has
12	hepatitis C. The only thing we may say that these people
13	infected with certain population of the virus, we sampled this
14	population and then we genetically related.
15	THE COURT: Does that mean you don't determine like
16	symptoms or
17	THE WITNESS: No, we can't. Actually we cannot do
18	it.
19	BY MS. STANISH:
20	Q And that's really not what I was going trying
21	to get at. What I was trying to understand is you're
22	comparing Mr. Rubino's blood with let's say is it number 1,
23	CO1, Mr. Meana's blood, so correct?
24	A Yeah, hepatitis C variance from these two
25	Q Right.
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1 -- specimens. 2 And -- and you've come to the concluded --3 conclusion that there's enough matches to make you feel to 4 some degree above 95 -- above 96 percent that there is a 5 match. 6 That may be --Α 7 MR. STAUDAHER: Objection Your Honor, that mischaracterizes his prior testimony. 8 9 THE COURT: All right --10 MS. STANISH: Please don't -- I'm not trying to mischaracterize the evidence, Your Honor. I'm just trying 11 12 to --13 THE COURT: I think that can -- right, happen because, you know. So Doctor, if, you know, Ms. Stanish says 14 15 this was this -- you know, this was your prior testimony and 16 that wasn't your prior testimony then feel free to correct 17 her. 18 THE WITNESS: Okay. I didn't notice. BY MS. STANISH: 19 20 You can you correct me. Did I mischaracterize 21 your evidence? I'm sorry. 22 This is a very complex assay. I just know it is 23 the -- the way we discussing this. It's not about 24 percentages, it is about this tree actually that's shown here 25 because this tree shows -- show, though we use percentage and

I already said how we use it, but I would never use only — only those numbers to establish [indiscernible] transmission. I would immediately ask, I need to see phylogenetic tree because that tree has a lot of information for me as well. That indicates that these two people share the same strain.

Q Okay. So that was a question I had and help me out with this if I misstate it. Okay? Your ability to determine the direction of the infection, as I understand it, your — based on this picture, you're concluding that Mr. Rubino, number 45, is the host patient because he had this complex nucleotide and the other people were more recently infected so their — they have a much smaller nucleotide.

- A That's the general idea.
- Q Am I mischaracterizing the evidence or saying it pretty close?
  - A No, it's pretty close.
- Q Okay, pretty close. Now, what I'm trying to get at what I was trying to get at was whether if you have a patient, Mr. Meana, for instance, who had been previously infected with hepatitis C from a different source, not Mr. Rubino, from someone else and maybe he had a low viral load, would this study distinguish that given the area of the RNA strain that you evaluated?
- A Seems that would be a different strain. It would be very well separated in this phylogenetic tree from

the source. We would definitely see that they not linked. 1 2 Well, I guess what I'm asking is you can be -let's say I -- let's say for example, just an example, that 3 Mr. Rubino was previously exposed, contracted hepatitis C when 4 he was, you know, 19 years old and he cleared it from his 5 6 system or it remained at a very low viral level in his system. 7 And, you know, fast forward 30, 40 years now and he gets infected let's say with Mr. Rubino's blood. Okay? What I'm 8 9 asking you is is that infection that he contracted -- I guess 10 I call it a reinfection --11 Α Yes, it is. 12 -- is that the proper term? 13 Yes. A 14 Would his previous infection show up on your --15 your chart here in your analysis? 16 Only if titer would be sufficient of that virus 17 from the previous -- from the previous infection. And if I 18 would sample those variants I would clearly see that, but then 19 they would be totally different from this variance, which was 20 sampled from the second infection. 21 So if I'm understanding you -- I guess I didn't 22 understand you. Could -- could you say that -- could you 23 explain that to me --2.4 Α Let's say --

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-- like I'm a third grader?

1	A I just don't remember names.
2	Q Oh, sure, so
3	A Let's go over like a patient one
4	Q using numbers
5	A patient two or whatever it is.
6	THE COURT: Would you be able to discern that there
7	had been two different infections?
8	THE WITNESS: Definitely I would if I could sample
9	both populations from previous infection, from early infection
10	and later infection but
11	BY MS. STANISH:
12	Q Okay. You could do it but you didn't have that
13	sample, right?
14	MR. STAUDAHER: Objection, mischaracterizes his
15	testimony.
16	A No, let's assume
17	THE COURT: .I think given the complexity of the
18	you know, I may remember it incorrectly or I may not have
19	understood it
20	MR. STAUDAHER: Okay.
21	THE COURT: so I think, Doctor, if Ms. Stanish
22	says something and that's incorrect, again, feel free to say,
23	you know, that's not correct or that's not what I said. And
24	ladies and gentlemen of the jury, of course, once again you're
25	reminded, you know, it doesn't matter what the lawyers say the

evidence is, it doesn't matter what I say the evidence is, 1 it's your collective recollection as to what the evidence was 2 that always controls in your deliberation, not anything any of 3 us may say, meaning the lawyers and myself. So Ms. Stanish, 4 5 would you state that again? 6 BY MS. STANISH: 7 I'll try. What I'm trying to understand, Dr. Yury, is, you know, tallying off of what Judge Adair said, I'm 8 trying to understand if Mr. -- if sample 01, if that 9 individual had a previous infection -- if I'm understanding 10 your response to Judge Adair, would you have to have access to 11 the other host patient when he was 19 years old, just an 12 example, in order to do that test? 13 No, I didn't say that. 14 Okay. That's what I didn't understand. 15 0 16 Α No. Then I'm not understanding. I didn't get to 17 talk to you before right now, today, right? 18 19 Α Yeah. The -- so if someone was infected when 20 Okay. they were 19 or 20, one of these individuals here, that would 21 show up in the analysis in the E-1 and E-2 that you evaluated 22 in the RNA strains? 23 Okay. Now I believe I understand --24 Α

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A — but it is very complex question. It can and it cannot, it depends. Because if the first infection was completely cleared and titer is below detection, that the definition of clearance. So if virus cannot be detected I cannot sequence it, I cannot determine it.

Q Okay. That's -- that makes sense to me.

A Yeah. But if patient didn't clear this virus, let's say it was infected but didn't clear the virus and virus still circulating in this patient — and if it is circulate in sufficient numbers so when I sample 100 or 200 variants, I still can't sample variants from the previous infection, then I definitely would see two different populations in this patient.

Q I see. All right. Fair enough. And speaking — just a little — well, let me finish with this one question. Is there any possibility whatsoever that Mr. Meana was the host patient who — who shares the quasi sequences with your other colored dots on your chart, any possibility that happened in your mind?

- A Me -- no -- what?
- Q You know, I'm sorry, CO1.
- A Oh, 01 cannot be a source.
- O Okay. And why do you say that?
- A It doesn't have -- it doesn't have significant heterogenics to be a source, to evolve this virus long enough

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1	Spontaneous clearance, yeah, I guess so. It's the same thing.
2	It just basically saying that virus is undetectable in the
3	person.
4	Q Is it lying in wait like in a remission like a
5	cancer patient who can have a resurgent?
6	A I'm not a physician.
7	THE COURT: Is that beyond your expertise?
8	BY MS. STANISH:
9	Q Oh, you don't know?
10	A Yeah.
11	THE COURT: Okay.
12	BY MS. STANISH:
13	Q Okay. I'm sorry. I didn't know. I just wanted
14	to understand that term, clearing. All right.
15	MS. STANISH: Court's indulgence. Sorry. I have
16	nothing further, thank you.
17	THE COURT: All right. Thank you. Mr. Santacroce?
18	MR. SANTACROCE: Thank you.
19	CROSS-EXAMINATION
20	BY MR. SANTACROCE:
21	Q Doctor, when you received the samples from the
22	Southern Nevada Health District, they were numbered with these
23	numbers right here, correct?
24	A I believe they were numbered at CDC in our
25	reference laboratory.

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1	Q And those are
2	A That's the way I receive them already with those
3	identifiers, right.
4	Q Those are CDC numbers.
5	A Yes.
6	Q And you wouldn't have had the name or the date
7	of infection, just numbers.
8	A Yes, only numbers.
9	Q I noticed that there's a big difference between
10	number one and number 29. What happened to the other 28
11	numbers?
12	A I wouldn't know. I have no knowledge.
13	Q Are you telling me you only analyzed number one,
14	number 29, number 30, 31, 41, and 42?
15	A Yes. I mean from this cluster, yes. We tested
16	some other specimens, but not on this tree. But they were PCR
17	negative in our hands, that's why they didn't find their way
18	into this chart.
19	Q Because you couldn't genetically match them;
20	isn't that correct?
21	A No. We could not amplify DNA to sequence even
22	to do matching.
23	Q Is that because they weren't infected or you
24	just didn't have enough samples?
25	A The acid which we use simply could not pick up
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1	this DNA or RNA in this case.
2	Q And it's possible that those or is it, were
3	those were those samples from the Southern Nevada Health
4	District?
5	A I didn't get the question.
6	Q Well, the ones that you that what you just
7	referred to that you couldn't match or couldn't link that you
8	tested or analyzed, were those samples from the Southern
9	Nevada Health District?
10	A I believe it is a misunderstanding. Those
11	specimens, which were not reported on this tree in here, they
12	PCR negative. So in this case I could not make match because
13	I could not amplify DNA to make this match.
14	Q When you say negative, what does that mean?
15	A It means I did not receive PCR product to
16	sequence.
17	Q You didn't receive what?
18	A PCR product to do sequencing.
19	Q Were there any samples that you analyzed that
20	you could not other than the ones you just said, that you
21	could not genetically match to this these trees?
22	A No. Those which we did not amplify, we did not
23	match. It is just if you don't have fingerprints you have
24	nothing to match.
25	Q So it's possible that you had some samples that
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1	or anything, correct?
2	A No, I wouldn't.
3	Q The only thing you can tell us is that Rubino
4	and Ziyad, 45 and 46, were the source patients, correct?
5	A Yes. That's what phylogenetic genetic analysis
6	suggests.
7	Q And you can tell us that certain of these
8	numbers or patients were infected by those source patients; is
9	that correct?
10	A That's correct.
11	Q Is there any degeneration in the samples because
12	of time has lapsed?
13	A If that happened then we would have difficult
14	time to amplify to get material to analyze.
15	Q Well, in your grand jury transcript you said
16	that Ziyad's sample didn't come to you for several months
17	after the others; is that correct? And Ziyad is 46.
18	A Yes, this specimen arrived I believe in May.
19	Q Would that have any effect on your analysis, the
20	fact that it came so much later?
21	A Not with this short time span, but the only
22	effect it would have actually, if it could, then I wouldn't be
23	able to detect linkage by transmission.
24	MR. SANTACROCE: I have nothing further. Thank you,
25	sir.

1 THE COURT: Thank you. Redirect.

MR. STAUDAHER: Just a couple, Your Honor. I'll try to make it quick.

## REDIRECT EXAMINATION

## BY MR. STAUDAHER:

Q What he was just asking about, with regard to the sample -- let's say it got on a siding Duluth and it was cooked before it got to you or it was set on a slow boat to China and it took 50 years to get to you. As long as it's frozen, it comes to you and it has detectable amount that you can amplify, meaning the DNA -- the RNA in this case, you could do the study, right?

A That's true.

Q Okay. So we're talking about if the -- if anything, you're not going to be able to actually detect any RNA to do your -- your comparisons.

A That's true. That's what I said.

Q Now you were asked a couple of questions about your chart and about the -- the NHANES data that's on there in sort of the white circles. You said that that was -- and Ms. Stanish used a couple of times, she was talking about that being a control group. Do you remember that?

A Yes, I do.

Q Could you have done that analysis without any of those people in it?

of a map that it just scales it for you or either that or it's 1 just the distance on the map that you're using? 2 It is basically scale that allow us to look at 3 this tree and approximate the distances between different 4 variants along the tree. 5 Now last cuestion. If I understand you 6 correctly, we're talking about at the very maximum here it 7 looks like the range from between 90.2 percent to 100 percent 8 9 or 98.6 percent between the -- the -- at least genetic relatedness between the July cluster patients and between 98.2 10 percent and 100 percent in the September cluster, correct? 11 Correct. 12 Α So 1.8 percent variation in all of the September 13 cluster, correct? 14 That's correct, maximum. 15 Α Maximum. And on the July cluster it's 1.4 0 16 17 percent. 18 Α Yes. So you said that -- if I -- if I'm correct, that 19 anything -- you felt comfortable saying that they were 20 identical, they came from the same source, they were identical 21 viruses even though they're different quasispecies if it was 22 above three percent, correct? 23 Yes. 24 Α 25 So --

1	A That's correct.
2	Q — anything above 97 percent is essentially
3	identity; is that fair?
4	A That's fair.
5	MR. STAUDAHER: Nothing further, Your Honor.
6	THE COURT: All right. Any recross?
7	MR. WRIGHT: Can I ask a question?
8	MR. STAUDAHER: Sure.
9	MR. WRIGHT: I tried to explain it to Margaret.
10	MS. STANISH: You know, just take it you want to
11	take another 15 minutes and I'll ask it?
12	THE COURT: In the interest of hunger, go ahead.
13	RECROSS-EXAMINATION
14	BY MR. WRIGHT:
15	Q What what we defense lawyers are always
16	worried about when we don't understand the science, which I
17	don't, okay? We're worried that the science that you are
18	telling us right now is going to be different or more refined
19	and better 10 years from now and we're going to find out we
20	were wrong. Do you understand what I'm saying?
21	A Okay.
22	Q Are are where are we or you in your
23	molecular biology studies and everything to as to this
24	being absolute certainty, your methods in what you're doing.
25	Is it absolutely certain?

1	A It is absolutely certain in my mind.
2	Q Okay. And you know, you're a scientist, that
3	what's certain today could be absolutely false 30 years from
4	now, correct?
5	MR. STAUDAHER: Objection, speculation, vague and
6	ambiguous because it doesn't purport to
7	THE COURT: Well
8	MR. STAUDAHER: be the same issue with regard to
9	this test.
10	THE COURT: okay, sometimes that, not necessarily
11	with this science, but sometimes in science that happens,
12	something that's believed one day is discredited down the
13	road; is that fair?
14	THE WITNESS: It is a fair statement.
15	THE COURT: Okay. Then go focus in, Mr. Wright.
16	BY MR. WRIGHT:
17	Q Okay. I mean I the have you read Stealing
18	Gods Thunder, a book?
19	A No, I didn't read
20	MR. STAUDAHER: Your Honor, relevance.
21	THE COURT: All right. And he hasn't read it anyway
22	and it's not relevant.
23	BY MR. WRIGHT:
24	Q Okay. Well, I'm going to the you know who
25	Thomas Jefferson is.

1	A Yes, I do.
2	Q Okay. Well he he invented the lightening rod
3	in the 1750s. Okay? And at the time this was not only
4	blasphemous, but it was also contrary to all conventional
5	wisdom. And in the colonies they passed laws preventing the
6	use of the lightening rod believe
7	MR. STAUDAHER: Your Honor, is this testimeny or
8	THE COURT: Yeah, it's getting a little testimonial.
9	BY MR. WRIGHT:
10	Q Okay. Do you did you know that in the
11	colonies they passed laws that prohibited the use of
12	lightening rods because the belief was the lightening rod was
13	pulling the lightening in.
14	MR. STAUDAHER: Objection. Relevance, Your Honor.
15	BY MR. WRIGHT:
16	Q Did you know that?
17	A No, I didn't.
18	Q Okay. Did you know that it was believed that
19	lightening was supposed to be God's vengeance and so you
20	shouldn't interfere with divine retribution.
21	MR. STAUDAHER: Objection, relevance.
22	THE COURT: Sustained.
23	BY MR. WRIGHT:
24	Q Okay. Now nowadays we use lightening rods,
25	right? Correct?

1	A Yes, we do.
2	Q Okay and I mean they're safe and they aren't
3	stealing God's thunder, right?
4	A They don't.
5	MR. STAUDAHER: Objection.
6	THE COURT: Do you use a lightening rod as a
7	molecular I'm sorry. I mean, I think we're maybe
8	BY MR. WRIGHT:
9	Q Okay. Time sake, okay.
10	THE COURT: I know where you're going but your but
11	focus
12	BY MR. WRIGHT:
13	Q Let me get well, I'm trying to give an
14	example
15	THE COURT: focus in on on what this
16	BY MR. WRIGHT:
17	Q to flush it out. Do you know what phrenology
18	is?
19	MR. STAUDAHER: Objection, relevance, Your Honor.
20	THE COURT: All right. That that's
21	MR. STAUDAHER: Mr. Wright is not the cross-examining
22	attorney. I allowed us some leeway for a few questions but
23	this is
24	THE COURT: That's sustained but may I see counsel at ,
25	the bench here?

(Off-record bench conference.)

THE COURT: I have some juror questions up here.

Juror would like to know, how long can the hepatitis C virus

live when exposed to air? Meaning, you know, it's outside of
the human body and then be exposed to air?

THE WITNESS: Yeah, most probably days and weeks.

THE COURT: Okay. And can the virus live in other solutions? Meaning if it's, you know, if it's in the blood and it's transferred into another solution such as, you know, saline solution or some kind of medicine that's in a liquid form or something like that.

THE WITNESS: Yes. Papers were published indicate that virus can survive for almost 20, 30 days in water.

THE COURT: In water, okay. Have there been any studies, if you know, about how long a virus can survive in other types of liquid solutions?

THE WITNESS: I wasn't following this really closely, but I believe another study claimed that virus was surviving in syringe also like more than one month.

THE COURT: In what kind of solution?

THE WITNESS: Syringe.

THE COURT: Okay. And then finally --

MR. SANTACROCE: Your Honor, I didn't hear that.

What was the answer?

THE COURT: Can you state the answer again?

THE WITNESS: Oh, virus survived in a syringe.

MS. WECKERLY: Syringe.

THE WITNESS: Injection device.

THE COURT: Oh, a syringe.

MR. WRIGHT: I thought he was saying sewage.

THE COURT: You know, I heard the word and then I thought -- I didn't really understand what it was either, I'll just confess right here. And I thought, well, you know, obviously I just don't know what this word means or I just haven't been following along. I don't want to ask so --

THE WITNESS: So there's much confusion generating.

THE COURT: Thank you, Mr. Santacroce.

MS. STANISH: Yeah, we don't want you mischaracterizing the evidence, Your Honor.

THE COURT: All right. And then a juror here asks, let me just preface the juror's question. Is there new technology available today that was not, you know, that was not available at the time the study or the testing that you've described here in your testimony was performed?

THE WITNESS: It's not exactly it wasn't available, it wasn't used. It was already invented. Right now we use a next generation sequence in sampling quasispecies from individual patients.

THE COURT: And would the new technology available today change the results of your analysis?

1	THE WITNESS: I don't believe so because the only
2	difference between what we did before and right now, before we
3	manually sampled individual variants. That's why we could
4	sample 20, 30 sometimes 200 variants. New technology allows
5	us to sample thousands of variants at once and make it
6	significantly cheaper and less labor intensive.
7	THE COURT: All right. Mr. Staudaher
8	MR. STAUDAHER: One follow up.
9	THE COURT: any follow up?
10	MR. STAUDAHER: Related to that question.
11	FURTHER REDIRECT EXAMINATION
12	BY MR. STAUDAHER:
13	Q So if you can sample more, you already know how
14	related these are based on your study, correct?
15	A Yes.
16	Q If you can sit and make more samples and get
17	more information based on your analysis, what you do now, what
18	you did back then, do you think that the cluster would be more
19	tight or would it be essentially something where you, oh,
20	gosh, all of a sudden these things aren't related at all?
21	A No, relatedness cannot be broken. If we already
22	found those variants that link those patients. If we sample
23	many more variants and that would show that there is no
24	linkage, this data cannot be changed.
25	Q So it's either going to get better or it's going

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1 to stay the same?

A It's going to be — it's going to be the same, linkage not going to be changed. Even it may improve I mean in terms of percentages as we talked about — about here. Since we sampled variants we may get less diversity between strands of — between variants identified in different patients.

MR. STAUDAHER: Nothing more, Your Honor. THE COURT: Ms. Stanish, anything else?

## FURTHER RECROSS-EXAMINATION

## BY MS. STANISH:

Q Real quick. Kind of tagging off someone's question there, general information about the hepatitis C virus. I understand from opening statement of Mr. Staudaher that hepatitis C was discovered like in the late '80s; is that correct?

A 1989.

Q 1989. And over time, over the years, has the virus's RNA, the stuff that you tested — or not here, has the RNA changed over time historically?

A That's a very difficult question since we don't have samples to look at and understand and the whole protocol is very difficult.

Q Well, I'm sorry. All I was -- I'm sorry, all I was getting at was this. You know your comparison sample,

1 what I apparently mislabeled as control group, but that -that national survey that you used for purposes of comparison, 2 that -- the blood samples came back -- were gathered as I 3 understood it, from the 1980s and the early '90s. All I'm 4 asking is that different, you're comparing different viruses 5 from 20 years ago to -- to now. Do you see what I'm saying? 6 7 There are certain changes in a viral population that exists. Let's say genotype structure can change, some 8 type structure that looks like that 1-D subtype was more 9 predominant earlier and now 1-A dominates more. But 10 relationship, genetic relationship, between strains cannot 11 12 change. Okav. So what you're saying is the information 13 in the E-1 and the E-2 envelopes that you've studied, that 14 remains the same even though you're -- compared to the strains 15 16 from 20 years ago? Not all information. Information that defines 17 Α relatedness between strains that are the device strength. 18 Okay. I'll leave it at that. Let's have lunch. 19 THE COURT: Okay. Mr. Santacroce? 20 MR. SANTACROCE: None. 21 22 MR. WRIGHT: You cleared that up. MS. STANISH: Yeah, I cleared that up. 23 THE COURT: Mr. Staudaher? 24 MR. STAUDAHER: Nothing further, Your Honor. 25

THE COURT: Do -- does anyone on the jury have any additional questions for this witness? All right, Doctor, I think there are no further questions for you. Thank you, sir, and you are excused.

All right, ladies and gentlemen, we're going to go ahead and take our lunch break. We'll be in recess for lunch break until 2:30.

Once again, I must remind — remind you that you're not to discuss the case or anything relating to the case with each other or with anyone else. You're not to read, watch, listen to any reports of or commentaries on this case, any person or subject matter relating to the case by any medium of information. You are not to do any independent research by way of the Internet or any other medium. And please do not form or express an opinion on the trial. If you'd please all place your notepads in your chairs and follow the bailiff and we will see you at 2:30.

(Jury recessed at 1:27 p.m.)

THE COURT: All right, then, 2:30.

(Court recessed at 1:28 p.m. until 2:33 p.m.)

(Outside the presence of the jury.)

THE COURT: Okay. Well, let's talk to Mr. Ham's clients first.

MR. HAM: Thank you, Judge, I appreciate it. Art Ham on behalf of Patty Aspinwall who's here with me.

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THE COURT: All right. And my understanding is that Ms. Aspinwall has signed a confidentiality agreement as part of a settlement in a civil lawsuit; is that correct?

MR. HAM: That's correct, Your Honor. And similar to what I understand the other plaintiffs' attorneys have done, I'm obviously wanting — wanting to just simply assert my objection to my client testifying about any of the confidential things that were contemplated by the prior settlement agreements including amounts. I understand Your Honor has already made rulings in that regard so, of course, we will abide by those rulings and respect them. Just preserving my record.

THE COURT: Okay. And obviously, just Ms.

Aspinwall, any private agreement that you entered into, you know, if you're going to be a witness here, the defense has a right to cross-examine you. And so even if you've agreed not to disclose something, if I deem it to be a relevant question from the defense and I order you to answer, then you must answer it in this proceeding. Do you understand?

MS. ASPINWALL: Yes.

THE COURT: Basically by way of private agreement you can't limit a defendant accused right to conduct a thorough cross-examination. It's kind of the gist of it. Basically what the other plaintiffs have been ordered to answer are questions as to the actual amounts they've received either as

a result of settlements and from who they've received those amounts. Anything relating to how much money your lawyers made or other things are not at all relevant and, you know, if you were named with other plaintiffs' amounts, other plaintiffs have gotten in connection with any of the matters, are completely irrelevant. So it's only, you know, what you and your husband, if he was a separate plaintiff, would have received. All right?

MR. HAM: Understood, Your Honor. Thank you very much for doing this.

THE COURT: All right, thank you. And I don't know when you'll be called, but you can just go ahead and I guess wait out there in the vestibule, wherever you had her.

All right. And Mr. Wright, was there something else we needed to do out of the presence of the jury?

MR. WRIGHT: Yes. Regarding anesthesiologist Yee on page of the proposed exhibit introduced at grand jury. I don't mind the blank anesthesiology pages or the actual agreements that he signed.

THE COURT: Okay.

MR. WRIGHT: But the balance of the pages, he testified in the grand jury and literally said I'm not a lawyer but I think the law is — and then he produced those documents to say what the federal law is on not allowing anesthesia — CRNAs to perform without a supervising

anesthesiologist over them or something to that effect and then he said Nevada's the same.

MR. STAUDAHER: With respect to that, I can short circuit it — I think I can short circuit this to some degree. Those pages, because he testified to it, it's the basis of his knowledge as to what separate — or not separation but what supervision he may or may not have anticipated, contemplated, would engage in, what the limits of that were. To the extent that he relied on something else, I wanted to make sure that any document that he was relying on he had a Court — at least a Court's exhibit of.

THE COURT: Okay.

MR. STAUDAHER: Now, that's incorporated into that because that's all of the documents that he testified to and he may need to refer to those. But I don't have an issue --

THE COURT: Okay. So we can take off the back part that Mr. Wright objects to and have it available, make it a Court's exhibit and have it available for the witness if he needs to refresh his recollection or refer to something. And as I understand it, the point of this testimony is for the doctor to say I did A, B, and C because I believe it was required by the code of Federal Regulations or I didn't do A, B, and C because I don't believe it was required.

MR. STAUDAHER: Essentially, yes, not --

THE COURT: Okay.

MR. STAUDAHER: -- the substance of any statutes on federal or otherwise.

THE COURT: Okay. And then whether or not it was required or not required is obviously an issue of law and if that becomes relevant we can instruct the jury according to what I think the law is; is that fair?

MR. STAUDAHER: That's fair.

MR. WRIGHT: Yes.

THE COURT: And again, you just want him to refer to the law to explain his actions. Like I thought I was in compliance with the law because this is what I understood or I — I did this because I tried to be in compliance with the law or what have you.

MR. STAUDAHER: Yes.

THE COURT: Okay. I think --

MR. STAUDAHER: And to that degree, if I understand correctly now, that will be a stipulated exhibit with the exception of those pages which will be a Court's exhibit; is that fair?

THE COURT: Right, starting on what's stamped GJDesai-000470. And is that satisfactory, Mr. Wright?

MR. WRIGHT: Yes.

THE COURT: Without limitation. All right. Yeah, you can just pull it off. It's States proposed Exhibits 65 so the clerk will just remove the back part. She'll make that

1	Court's exhibit next in order. I think we're on four or five.
2	MR. STAUDAHER: That's fine.
3	THE COURT: And then that's available to refresh the
4	recollection of the witness or whatever. Okay?
5	MR. STAUDAHER: That's fine.
6	THE COURT: All right, bring them in.
7	(Jury reconvened at 2:40 p.m.)
8	THE COURT: All right. Court is now back in session.
9	The record should reflect the presence of the State, the
10	defendants and their counsel, the officers of the Court and
11	the ladies and gentlemen of the jury.
12	And Mr. Staudaher, you may call the State's next
13	witness.
14	MR. STAUDAHER: The State calls Dr. Thomas Yee to the
15	stand, Your Honor.
16	THOMAS YEE, STATE'S WITNESS, SWORN
17	THE CLERK: Please be seated. If you could please
18	state and spell your first and last name for the record.
19	THE WITNESS: First name is Thomas, spelled
20	T-h-o-m-a-s, last name is Yee, spelled Y-e-e.
21	THE COURT: Thank you. Mr. Staudaher.
22	DIRECT EXAMINATION
23	BY MR. STAUDAHER:
24	Q Doctor, what do you do for a living?
25	A I'm a anesthesiologist.
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Q And can you -- before we get into the substance of your testimony, can you give us a little bit of your background and training which led you to become a anesthesiologist?

A Yes. I train at the UC San Diego, that's University of California San Diego anesthesiology residency program. I finished the training in 1993. I passed the Board certification by the American Board of Anesthesiology in 1994. And since July of 1993 I have been in private practice in Las Vegas continuously.

Q And as far as — and I mean in those — there's different types of doctors obviously and you're an anesthesiologist. Could you tell us what anesthesiologists do?

A Anesthesiologists, the main job functions are threefold. Number one is to assure a patient's safety in the surgical process. Number two is to ensure patient comfort. In other words, not feeling the pain, the stress from surgery. And the third part of a anesthesiologist's job is to resuscitate a patient if they was to have any kind of negative event during the surgery, during the anesthesia. In that situation the anesthesiologist is in charge of resuscitation.

Q So are you kind of a dependent practitioner in the sense that you — you basically provide services to other doctors, surgeons and the like?

A Yes. Similar to pathologists and radiologist, anesthesiologist is a consultant service where the primary doctors, such as surgeons or doctors that do procedures, would call upon us to go and provide the assistant service.

Q Now are doctors like yourself the only one who can provide that kind of service?

A Well, the American Board of Anesthesiology would like to think that. In other part of world, usually it's the M.D., the doctors who has had the necessary training that provide anesthesiology service. And in this country there's a — in some part of this country the service provided many by M.D. anesthesiologists who are Board certified and some other parts of the country it's a team approach with such M.D.s working in conjunction with Certified Registered Nurse Anesthetist, CRNAs.

Q And you said team approach, does that mean that typically the — the CRNA, if we were talking about them as a Certified Registered Nurse Anesthetist, that they are not completely independent?

This is controversial in — in the United States right now. For most of the history of anesthesia practice, anesthesiologists either provide the service themselves or supervise the CRNAs directly. But in recent years, there has been a movement coming from the CRNA community to petition the government and different insurance companies to allow them to

work without M.D. anesthesiology supervision.

Q And I'm going to set that aside for just a second and I want to talk to you about regular physicians, doctors who have gone to medical school, O.D.s or M.D.s, whatever. Can any physician just do the kinds of things you do? I mean, I know that we've talked about Certified Registered Nurse Anesthetists who have special training like yourself, but can just any family practice doctor or anybody just do the anesthesia work that you do?

- A That will be very risky.
- Q Why would that be?

A For example, there are — there are subtle inside information regarding the — the medications, regarding the physiology, regarding the bodies, the brain's reaction to anesthetics that takes years of studying and training to enable an anesthesiologist to do a good job. And I don't think doctors who haven't gone through that kind of training can provide the kind of high degree of professional service that Board certified anesthesiologists can provide.

Q And you — when you mentioned team approach a while ago with regard to a doctor who has or works with a CRNA, have you ever been in a situation like that where you've worked with CRNAs before?

A In my residency 20 years ago at UC San Diego, as a resident I have worked with, side by side with CRNAs but not

in a supervisory role.

Q So that was back then. From that point to the present, have you ever supervised any CRNAs?

A Back in the early 1990s when I first came to Las Vegas there were a couple summers where when I went to California to do temporary work lasting a few days, and in that setting in this Los Angeles hospital, I have supervised CRNA. But it was just for, altogether probably two days.

Q So you've worked with them in your residency and you had a very limited supervisory role with them in -- at UCLA when you were there doing some -- what was it called?

A It is called — the Latin word is locum tenens, it's temporary work. And the hospital was Los Angeles Medical Center in downtown LA.

Q Since you've come out to Las Vegas, in the Las Vegas valley, working wherever you've worked, hospitals, clinics, ambulatory care centers, anything like that, have you ever taken on an active supervisory role of Certified Registered Nurse Anesthetists?

A No.

Q Now we're going to get to issues for that -- of that later on, but I want to go through a couple of other things first. With regard to your job when you're in -- you're in the -- if you could just walk through it with me if you can, the kinds of things that you do day to day when

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you're dealing with -- I know you do cardiac surgery; is that correct --

> Α Yes.

-- or at least the anesthesia for it? And I know you've gone and you've done endoscopic procedures in an outpatient sort of setting; is that fair?

> Α Yes.

Obviously they -- I imagine they have differences in how you would approach the patients and what you would do. But the preparation in going -- before -- of the things you do before you actually deal with the patient and then how you deal with the patient, is it pretty similar though initially?

It is similar, yes.

And so explain that to us. I mean talking about you've never seen the patient before, you get a call I assume that says, hey, look, I'd like you to come to this facility on this date to perform anesthesia on this patient. Is that kind of how it works?

Yes. Las Vegas is different from most other cities. In other places anesthesiclogy groups would have contract with certain hospital and all the surgery or anesthesia procedures will be done by members of that group. Las Vegas is a surgeon request system, where the surgeons or the doctors requiring anesthesia service would call the

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anesthesiologist's office either a few days before or — or just the one day before to ask for a certain anesthesiologist to come to such and such facility at certain time to do certain cases.

So once I get an appointment, I will show up at the hospital or the facility. I would check the anesthesiology instruments, the equipment and anesthesia machine. Basically look over the -- the drugs, especially the emergency drugs. And then I would go interview the patient. I would ask the patient about his physical conditions and whether he had allergies to medications of any kind. Whether he has had problems with prior anesthesia experience. And then I would do a -- a very brief physical exam, see if he can open his mouth wide enough, whether there's any airway problem, listen to his chest to see if he has ongoing pneumonia or bronchitis or asthma attack and listen to his heart. Then I would probably start the IV on the patient, the intravenous.

And then I would go back to the operating room to get the anesthesia equipment and the machine ready and — and then after the nurse has brought the patient into the operating room, we would put the monitors on the patient and — and start giving the patient anesthesia.

Q So let's -- let's break down that a little more. So you -- you described actually putting your hands on the patient, I mean listening to their heart and their lungs and

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so forth. Does that matter? Why would that be important?

A This is particularly important if a patient —
if a patient was coming from — from home, from outpatient
setting where he hasn't been examined by any physician that
day or recently. If a patient had been in the hospital for a
while, for example a patient in the hospital for a heart
attack and is about to go for heart surgery, that patient has
had exhaustive examinations. But for a patient coming in
fresh from home, I frequently would be the first M.D. to see
that patient that day. So if there were new development, for
example, if the patient was having an asthma attack, wheezing,
I have to listen to the patient to find out. And because that
— that might change my — my treatment course. I — I may
cancel the case or give medication to treat the asthma first.

Q So you have the ability to cancel the case yourself?

A Yes.

Q So I'm the surgeon, I've got a patient, I've got them at the hospital, they're ready to go, they've been — gone through all their preoperative stuff, get back into the room and you don't like what you see.

A Yes.

Q You can say we're not doing it, we're not going forward.

A Yeah. I've canceled many cases in my 20-year KARR REPORTING, INC.

1 career. Well, what if I as the surgeon was -- or the 2 Q surgeon said, nope, you're going to do it anyway? 3 Well, I can refuse. 4 Have you been in situations like that where 5 you've -- obviously you said you've canceled cases, but where 6 the surgeon may have -- or the person doing the procedure may 7 not have been happy that you canceled the case? 8 They -- they by and large, they would respect --9 respect my professional opinion. If I say it's unsafe to 10 proceed, the surgeons usually listen to me. 11 Have you ever been in situations where the --12 the surgeon or whomever dictates to you how you do your job? 13 There -- there were a couple that tried but, you 14 Α know, it wasn't pleasant, the discussion. 15 So if they said, for example, you know, you're 16 going to do it this particular way, use these particular drugs 17 or not use these drugs, would that be sort of stepping into 18 your area of expertise? 19 Yes, I would be very offended. And when that 20 did happen in my career, you know, the discussion was very 21 short and we, you know, I stopped the case anyhow. Because 22 ultimately, whether the case proceed or not, it's up to me, 23

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it's not up to the surgeon.

Q Now, even though you're in the room, whatever KARR REPORTING, INC.

facility it is, and there's a physician who is doing a procedure, can — who's in charge of the patient at that point? Is it you or is it the doctor? Are you both in charge? How does it work?

A I would say it's me because in most surgical cases I would be more familiar with maintaining patient safety and if something was to go wrong, I will be the person resuscitating the patient, not a surgeon.

Q Have you had situations occur where if something unexpected happened, even on a minor procedure, and you had to intervene in — in kind of a big way?

A Yes.

O So that's not unheard of?

A No.

Q Now as part of the — when you go through and you have somebody come in and you do this evaluation, you say you typically do that out someplace and then the patient — you go ready yourself and the patient's brought back to the room.

A There's often a preop holding area where we interview the patients.

Q Have you ever been in a situation where you don't do that at all until the patient just rolls in the door, you ask them a few questions, put them to sleep and you're done or -- or anything like that?

1	A That has happened on rare occasions.
2	Q Okay. Would that be something that would be
3	reasonable on a regular basis to not spend that kind of time
4	with a patient?
5	A If I $$ as long as I had the time and
6	opportunity to interview and examine the patient, the
7	location's not as important. The importance the the
8	importance is the process.
9	Ç So when you say interview, you would still go
10	through the things you talked about but it might be in the
11	actual procedure room.
12	A Yes.
13	Q Now, you know what a history and physical is, do
14	you not?
15	A Yes.
16	Q Is that something that you do or is that
17	something that needs to be done before the patient has a
18	procedure?
19	A It needs to be done by the admitting doctor or
20	the surgeon.
21	Q So if one is done, is that something you
22	incorporate in asking questions of the person you're about
23	ready to do a procedure on?
24	A Yes.
25	Q And putting them to sleep so to speak?
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A Yes.

Now when we talked about -- or of the CRNAs and your -- you had some -- some limited information -- or involvement with them in a supervisory capacity and then you worked with them you said I think. In those situations you've also mentioned it again, a team approach. How or what is the interaction between -- in the situations you've been involved with, with a CRNA and the doctor? Meaning you as the doctor, not maybe the -- not the doctor doing the procedure?

A The team approach is this. The CRNA would go interview the patient preop and would come to me to give a very brief report on the patient. If there was no difficult issue I would tell the CRNA to proceed. If there was a problem, I will go interview the patient myself to go over the particular points. And then the CRNA will bring the patient into the room. I — I think the standard that we practice with is an M.D. should supervise between one to — at most four CRNAs at any given time. And so if I wasn't busy —

 $$\operatorname{MR}.$$  WRIGHT: I'm going to object to the relevance of this.

MR. STAUDAHER: The relevance of this --

THE COURT: Overruled.

THE WITNESS: So I would be in the same room to basically look over the shoulders of the CRNA as he proceed to give the patient anesthesia. And when the case is underway

and everything's going smoothly, I may step out of the room 1 and go check on the other CRNAs. 2 3 BY MR. STAUDAHER: So there's critical times that you feel that you 4 would have to actually be in the room with the CRNA? 5 6 Α Yes. THE COURT: Is -- do you do that all the time or just 7 in days when you're not that busy and -- or where you don't 8 have, you know, your own patient or whatever? 9 THE WITNESS: I've had very limited interaction with 10 CRNAs, like I said. 11 MR. WRIGHT: I object, Your Honor. 12 THE COURT: All right. Can I --13 MR. WRIGHT: He hasn't done any of this. 14 THE COURT: -- can I see counsel at the bench? 15 (Off-record bench conference.) 16 THE COURT: All right, Mr. Staudaher, you may 17 proceed. You need to focus in to get to this case. 18 MR. STAUDAHER: Right. 19 BY MR. STAUDAHER: 20 And I'm just talking about your involvement. 21 is it fair to say that at least your direct involvement with 22 CRNAs in the past has been -- and not talking about any 23 national standards at this point, but that you felt that it 24 would be sort of in person supervision; is that fair? You had 25

1	to be there when that when things were going on?
2	A Yes, but I have to stress this is not personal
3	experience only. Just like when we practice medicine, there
4	are some things that we have to do. And this is not out of my
5	my own hypothetical thinking. This supervision that the
6	M.D.s see has to be in the room looking over the shoulder
7	of a CRNA. When things are stable I will walk to another room
8	to look over the shoulder of the other CRNA
9	MR. WRIGHT: Objection, this is all hypothetical.
10	THE COURT: That's that's sustained. We need to
11	focus
12	MR. WRIGHT: And he's not an expert.
13	THE COURT: in on specifics.
14	MR. STAUDAHER: So I'll move on to a to a
15	different area.
16	THE COURT: Okay.
17	BY MR. STAUDAHER:
18	Q Are you familiar with the drug propofol?
19	A Yes.
20	Q Does it have another name?
21	A Diprivan.
22	Q So same name or two different names for the
23	same thing?
24	A Yes.
25	Q What is it?
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1	Q Now I want you to tell me how you went about
2	identifying and collecting the samples of those individuals on
3	that list.
4	A Our office of epidemiology identified the
5	patients that had procedures on the two dates in question and
6	they set up appointments to have the people come in to have
7	their blood drawn or they had us contact the commercial
8	laboratories to see if there were samples that were available.
9	Q And you did that for all of the patients on
10	those two dates, correct?
11	A That's correct.
12	Q Let me see if I can get this on here. This is a
13	chart of all the people infected on September 21st, 2007. Do
14	these names comport with the list that you compiled and
15	tested?
16	THE COURT: Are you able to
17	A I'm not sure what comport means.
18	THE COURT: Are you asking if they have the same
19	names?
20	MR. SANTACROCE: Yes, sorry.
21	THE COURT: Are they the same names?
22	A Yes, they are.
23	BY MR. SANTACROCE:
24	Q Those are the same names?
25	A Yes.
	II

1	MR. STAUDAHER: Your Honor, may we approach?
2	MS. WECKERLY: She said those people came in
3	THE COURT: Okay.
4	MS. WECKERLY: and were tested.
5	THE COURT: Right. That was sustained. Maybe if you
6	could ask the question a different way. Of the people who
7	came in are those all the people that were infected?
8	BY MR. SANTACROCE:
9	Q The people that came in, were these the only
10	people that were infected?
11	THE COURT: Are you able to read that?
12	THE WITNESS: Yes.
13	THE COURT: Okay.
14	A The laboratory, as a laboratorian, I don't
15	identify who's infected. I only identify what the test
16	results are.
17	BY MR. SANTACROCE:
18	Q Well, isn't that the same thing? You got the
19	test results back and you would determine if they were
20	infected or not.
21	A The lab results are one component. The the
22	the I don't interpret the lab results. So I have the
23	lab results that come in and that's not within my scope.
24	Q Ma'am, did you compile this chart?
25	THE COURT: Okay. Do you mean like you don't look at

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1	the numbers on the lab results and say, okay, this means
2	somebody's infected or that means somebody isn't infected?
3	That's a conclusion that's made by some someone else?
4	THE WITNESS: Yes.
5	THE COURT: Okay.
6	BY MR. SANTACROCE:
7	Q You do you did compile that chart that you
8	testified to, correct?
9	A I did compile the chart.
10	Q And you obtained information in order to compile
11	that chart, correct?
12	A That's correct.
13	Q And the information you compiled were these
14	individuals on your chart and which is shown on the monitor,
15	were infected with hepatitis C, correct?
16	A The information on the chart listed the test
17	results for the people who had testing performed.
18	Q And those people had hepatitis C.
19	A They have positive test results.
20	Q And if there were any other people on those
21	dates that had positive test results, they would appear on
22	your chart, correct?
23	MS. WECKERLY: Objection, Your Honor.
24	MR. STAUDAHER: Objection I'm sorry.
25	MS. WECKERLY: That's not correct.

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1	THE COURT: Okay. Rephrase your question.
2	BY MR. SANTACROCE:
3	Q If there were any other people that came in and
4	were tested and tested positive, they would be on your chart,
5	correct?
6	MS. WECKERLY: Objection.
7	THE COURT: Overruled.
8	BY MR. SANTACROCE:
9	Q You can answer.
10	THE COURT: According to the results that you had
11	received.
12	A Could you repeat it again, please?
13	BY MR. SANTACROCE:
14	Ç Yes.
15	THE COURT: According to the results that you had
16	received, if someone tested positive, would you have included
17	that on your chart?
18	THE WITNESS: What it depends on where the testing
19	was performed so
20	THE COURT: Okay. All right.
21	THE WITNESS: if the testing was performed at our
22	facility or that we had collected the samples and were
23	tracking it, then yes, it would be on the list.
24	BY MR. SANTACROCE:
25	Q And you testified that you tracked all the
	II

1	people on those dates, correct?
2	MS. WECKERLY: No. That's objection
3	THE COURT: Okay. That's sustained
4	MS. WECKERLY: that misstates her testimony.
5	THE COURT: that misstates the evidence.
6	BY MR. SANTACROCE:
7	Q How did you get a list of the people that were
8	treated at the clinic on September 21st?
9	A I did not receive that list.
10	Q Okay. How did you receive the names that appear
11	on this chart or on your chart?
12	A That list that information came from our
13	office of epidemiclogy.
14	Q So you were just given a list of names from the
15	office of epidemiology and you went out and collected samples
16	and sent them to the CDC, correct?
17	A We set up our office of epidemiology set up
18	appointments with people that needed to have to come in to
19	have testing performed.
20	Q And is there a list of those people that came in
21	and were tested on those dates?
22	A Yes, there is.
23	Q And do you have that list?
24	A Yes, I do.
25	Q Is it fair to say that more people came in and
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1	were tested than are on your chart?
2	A The chart that's this exhibit?
3	Q Yes.
4	A Yes.
5	Q And is it fair to say that more people on July
6	25th, 2007 came in and were tested than appear on your chart?
7	A Yes.
8	MR. SANTACROCE: I have no further questions. Thank
9	you, ma'am.
10	THE COURT: All right. Thank you. Redirect.
11	REDIRECT EXAMINATION
12	BY MS. WECKERLY:
13	Q Can the health district force people to come in
14	and give a blcod sample?
15	A No, they cannot.
16	Q And can the health district release information
17	about people without them agreeing to it?
18	A No, we cannot.
19	Q And so when we have these names, these people
20	agreed to have their names released.
21	A Yes, they did.
22	Q Okay. If someone didn't agree, the health
23	district doesn't release the name.
24	A That's correct.
25	Q And no one knows who it is. Well, no that
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1	that name isn't given to law enforcement or anyone else; is
2	that fair?
3	A The laboratory did not.
4	Q If the health district sent out a letter to
5	someone, they're not required to come in and provide a blood
6	sample; is that right?
7	A That's correct.
8	Q If the health district sent a letter and it
9	never you know, someone moved and it never even got to the
10	right person, those people would be lost to follow up; is that
11	fair?
12	A That's correct.
13	Q Thank you.
14	THE COURT: All right. Any re-cross?
15	MR. SANTACROCE: Yes. No, never mind.
16	THE COURT: All right.
17	MR. SANTACROCE: I'll pass the witness.
18	THE COURT: Mr. Wright, any recross or Ms.
19	Stanish?
20	MS. STANISH: No, Your Honor. Thank you.
21	THE COURT: Do we have any juror questions for this
22	witness? All right. I see no juror questions. Ma'am, thank
23	you for your testimony. Please don't discuss your testimony
24	with any other witnesses and you are excused at this time.
25	THE WITNESS: Thank you.

1	THE COURT: All right. State, call your next
2	witness.
3	MR. STAUDAHER: State calls Yury Khudyakov to the
4	stand.
5	YURY KHUDYAKOV, STATE'S WITNESS, SWORN
6	THE CLERK: Please be seated. And please state and
7	spell your first and last name for the record.
8	THE WITNESS: My name is Yury Khudyakov, Y okay.
9	THE COURT: You can sit.
10	THE WITNESS: Y-u-r-y, K-h-u-d-y-a-k-o-v.
11	THE COURT: Okay. And you have sort of a soft voice
12	so that black box right there is a microphone so just kind of
13	try to speak towards it if you would. All right?
14	THE WITNESS: I'll try.
15	DIRECT EXAMINATION
15 16	DIRECT EXAMINATION BY MR. STAUDAHER:
16	BY MR. STAUDAHER:
16 17	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living,
16 17 18	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living, sir?
16 17 18 19	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living,  sir?  A I work at Center for Disease Control.
16 17 18 19 20	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living,  sir?  A I work at Center for Disease Control.  MR. SANTACROCE: I can't hear, Your Honor.
16 17 18 19 20 21	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living,  sir?  A I work at Center for Disease Control.  MR. SANTACROCE: I can't hear, Your Honor.  THE COURT: Yeah. Sir, you do have a very soft voice
16   17   18   19   20   21   22	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living,  sir?  A I work at Center for Disease Control.  MR. SANTACROCE: I can't hear, Your Honor.  THE COURT: Yeah. Sir, you do have a very soft voice  so just kind of try to speak loudly and if it —
16 17 18 19 20 21 22 23	BY MR. STAUDAHER:  Q And Mr. Khudyakov, what do you do for a living, sir?  A I work at Center for Disease Control.  MR. SANTACROCE: I can't hear, Your Honor.  THE COURT: Yeah. Sir, you do have a very soft voice so just kind of try to speak loudly and if it —  A I work at the Centers for —

BY MR. STAUDAHER:

Q In Atlanta?

A Yeah, in Atlanta, Georgia.

Q Okay. And what do you do for the Centers for Disease Control?

A I'm team lead of a laboratory of molecular epidemiology and bioinformatics in laboratory branch division of viral hepatitis.

Q How long have you done that work?

A I was associated with CDC since 1991 and in charge of this laboratory since 2005.

Q Now, in the — in the laboratory, I mean, I assume you do various things. But to get to what you're doing — what you do in the laboratory, we're going to get to that in minute. Can you tell me about your background and training which led you up to the point where you're working at CDC?

genetics from Novosibirsk University in Russia. And then I received Ph.D. in molecular biology of viruses from Ivanovsky Institute of Virology in Moscow Russia. Then I was doing postdoctoral studies at the Centers for Disease Control as a national research counsel fellow at the Academy of Science of the United States. And after that I received an offer to join the branch as full-time employee, which I did and now I work in this capacity.

1	Q Okay. So when you said the branch, what branch
2	is this again?
3	A We kind of changed. When I joined it was
4	hepatitis branch, now it is division of viral hepatitis since
5	early 2000.
6	Q So that's is that your main focus then, is
7	hepatitis research?
8	A Yeah. That study I did, only viral hepatitis in
9	this branch. It started as a branch of viral hepatitis in our
10	division of viral hepatitis. We deal only with diseases,
11	viruses causing viral hepatitis.
12	Q So in the laboratory, I mean, what kind of
13	things do you do exactly?
14	A Currently?
15	Q I mean, yeah. What do you do in the laboratory
16	as far as the work involving let's let's narrow it even
17	further, this particular case. You know why you're here
18	today, correct?
19	A Okay.
20	Q Okay. Why why are you here as the person
21	involved in this particular matter?
22	A Right. We study genetics in molecular evolution
23	of hepatitis viruses and different epidemiological settings.
24	We develop molecular approaches and use molecular approaches
25	to track viral infections, hepatitis viral infections, and

disease. And everything what we do is to help protect people in the United States and globally from -- from viral hepatitis.

THE COURT: So you just specialize in hepatitis?

THE WITNESS: Yes.

THE COURT: Okay.

## BY MR. STAUDAHER:

O Can you tell us what hepatitis is?

A Hepatitis is a liver disease and we deal with only liver disease that's caused by viruses.

Q Okay. So --

THE COURT: Okay. And I'm -- I'm sorry to interrupt you but can you -- some of the jurors are having trouble understanding you because you have a low voice and then with your accent. So could you try to speak more slowly? Plus, you're using a lot of complicated long words. I was laughing because that poor lady over there in the orange top will have to type all of this and spell it correctly at some point. So could you speak a little bit more slowly --

THE WITNESS: I will.

THE COURT: -- for us? Thank you sir.

THE WITNESS: I'm not sure it's going to help.

THE COURT: A lot of us are unfamiliar with some of these words that you're using and so if you could just, you know, say them a little more slowly. All right.

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A All right. I -- we'll learn -- we study viruses that cause hepatitis or liver disease in humans. And those viruses named by letters of alphabet, A, B, C, D or delta, E and in laboratory where I work we learn about genetics of those viruses. We study their primary structure and see how that primary structure, how those viruses, genetic material in this virus changes in different epidemiological settings. And all this done in order to track viruses. We want to understand how viruses disseminate in human population. We want to understand how those viruses cause disease and why.

BY MR. STAUDAHER:

Q So when you study the virus, you said you basically look at the genetics of the viruses; is that right?

A Yes.

Q So if -- I mean, obviously you're at the Centers for Disease Control. You're -- do you deal with hepatitis outbreaks, things like that in your -- in your genetic analysis?

A Yeah. Transmissions is — that's how virus disseminates among humans. So this is actually a core activity in my laboratory. That's what we study.

Q So basically there's an outbreak somewhere, they send samples to you to see if the genetics matches up; is that fair?

A Yes, but this usually goes through a KARR REPORTING, INC.

1	epidemiology program. I I never directly involved in
2	acquisition of specimens or doing field research. I'm
3	involved only when specimen's already identified and given to
4	me for molecular analysis.
5	Q So if I understand you correctly, you're not
6	involved in any of the figuring out what happened, but you're
7	just there to say, okay, I've got a sample and another sample,
8	do these relate in some way, is that
9	A Yes, that's true.
10	Q I mean that's really dumbing it down for me
11	here so
12	A Yes.
13	Q I want to make sure we have it where
14	everybody in the room
15	A That is correct.
16	Q that's not at your level. Okay?
17	A That is correct.
18	THE COURT: Okay. I think it's fair to say most of
19	us or none of us are at your level so
20	BY MR. STAUDAHER:
21	Q So so you're in the laboratory and you get a
22	sample. And how does the sample come to you?
23	A They usually arrive to our reference laboratory
24	then they be aliquoted for me and we receive aliquots of those
25	specimens.

1	Q I'm sorry to talk over you.
2	A Sorry, I was talking over.
3	Q In this case, the hepatitis type that you
4	received, was it A, B, C, what was it?
5	A It was C.
6	Q So all the samples you received in this
7	particular case and you knew these were coming from Las
8	Vegas, correct
9	A Correct.
10	Q from the health district here? That came in,
11	had already been screened, serologically shown to be hepatitis
12	C positive.
13	A Yes.
14	Q So you get the samples into your lab. What do
15	you do with them?
16	A First we need to extract nucleic acids from
17	serum specimens because genetic material of viruses is
18	molecular of RNA, which is nucleic acid. Once we extract this
19	RNA, we need to convert it in into complimentary molecular
20	DNA because [indiscernible] approaches, which we use, can use
21	only DNA molecules. Once we converted this into complimentary
22	DNA, then we run preliminary chain reaction on those
23	specimens. In other terms loci, those molecules of DNA. But
24	we don't amplify entire, just each and every molecule of DNA,
25	only those that's specific for this virus, anyone specific

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1	Q So is also RNA is it basically
2	THE COURT: Well, that clears it up.
3	BY MR. STAUDAHER:
4	Q Besides the sugar molecule, sugar residue that's
5	on the on the actual nucleic acid, is it the RNA is
6	basically a template, is it not, for the production of the
7	proteins itself?
8	A In human genome DNA is a genetic material that
9	stores all information. Then it be transcribed into RNA and
10	then RNA used as a template to build proteins. In this case,
11	virus already has RNA molecule that directly can be used by
12	ribosomes as a template for protein synthesis.
13	Q Okay. And the ribosomes, are those the things
14	within cells that actually read that code on the on the RNA
15	to make the protein?
16	A Yes.
17	Q So they spit out an actual protein based on that
18	sort of sort of code, so to speak; is that right?
19	A Yes. It is an organelle. There are numerous,
20	many, many of them in the inside of cells and they translate
21	RNA into proteins.
22	Q Okay. So in the in the virus that we're
23	talking about here, hepatitis C virus, you said was an RNA
24	virus so it doesn't contain any DNA.
25	A It does not contain any DNA.

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1	Q So can the protein be made directly from the RNA
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	then
3	A Yes.
4	$\mathbb{Q}$ — as sort of a template?
5	A Yes, it can. Protein can be done directly from
6	our genomic RNA of this virus.
7	${ t Q}$ Now, the proteins that are made I mean does
8	the the virus itself, is it a living organism by itself? I
9	mean is it able to replicate without any help at all?
10	A Virus by itself, it's just simple genetic
11	information packed into proteins, that is it. And it starts
12	replicating itself only when it get inside of cells, living
13	cells. Then it use machinery from those living cells to
14	replicate itself.
15	Q So the cell that it infects, it essentially
16	takes over the machinery of that cell to produce more of its
17	cells essentially.
18	A Yes.
19	Q You've mentioned that it's the naked sort of DNA
20	material, the genetic material and it's and it's basically
21	encapsulated in some protein thing. What was that?
22	A No. In this case it's not DNA, it is RNA
23	molecule that
24	Q Did I say DNA? I'm sorry.
25	A Well, that yeah, encapsulated into three
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material, what do you do with it?

A Once we get this material amplified in the form of amplicons, because we're amplifying certain region from the virus. Then we detect — I determine primary structure of this genetic material which we amplified.

Q Now the RNA template that you start off with, how many proteins does that typically make for a virus, for a hepatitis C virus?

A Each individual actually infected with significant population of the virus. It's maybe between 10 billion to one trillion viral particles circulate in each and every infected individual. But what — but then we don't deal with like entire blood from the patient, we deal with small aliquots, usually 200 microliters of serum specimen.

Q And just for those of us who don't understand that, an aliquot is a -- is just a sample of it; is that correct?

A Small -- small amount of serum specimen.

Q So you work with it, you take a little small serum specimen and you do this amplification of it and then you do your genetic analysis?

A Yes, but first we need to extract nucleic acid.

Q So you get your — your nucleic acid, then you do the amplification, and then you do your analysis.

A Yes.

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	Q	So to and trying to make it as easy as
possible	. We	end up with, if I understand you correctly, a
template	that	you then does it you translate it into the
proteins	that	you talked about so you can look at the proteins
or are ye	ou loc	oking at the genetic sort of template itself?

- A No, we're looking at the template itself.
- Q So you said that there was a specific area that you looked at.
- A In course of investigation, we usually look at two different regions.
  - Q And what are those and why, if you would?
- A Yes. Hepatitis C virus genome is about 9,500 nucleotides long and it contains long codon region that encodes polyprotein, which eventually cleaved into set of 10 different proteins. And those and those proteins have different degree of diversity in in the host. And we use the most current one of the most conserved regions coming from gene NS5B that encodes preliminaries in order to identify genotype of the virus.
- Q Okay. I'm going to stop you there for just a minute because I want to go back. So if I understand you correctly, you've got the template, the RNA template. That codes for this 9,005 -- did you say 9,500 base pairs?
  - A Nine thousand five hundred approximately.
  - Q And base pairs are this --

1	A No base pairs, nuclectides.
2	Q Nucleotides.
3	A Because it's not double-stranded.
4	Q Nucleotides are are what? Are they standard
5	four building blocks, the guanine, adenine, just like those
6	things?
7	A Yeah. There are four building blocks we call
8	just it would be easier if we just call them by letters of
9	alphabet, it's A, T, G and C.
10	Q Okay. So
11	A Adenine, guanine, thymine and cytosine.
12	Q So you've got those lined up into various
13	combinations and you mentioned a coding region. Is that the
14	area where an actual gene sits that it produces well,
15	you've got a gene that makes a protein.
16	A Yeah. Hepatitis C virus contains let's put
17	it this way, one large giant open region frame that encodes
18	all proteins together. So to some extent it can be viewed as
19	one big gene and the product, which translated about 3,000
20	amino acids long, eventually be enclaved into 10 different
21	proteins.
22	Q So one big protein called a polyprotein, meaning
23	multiple
24	A Yes.
25	Q gets produced and then some enzymes or
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something come in there and chop it up into the separate 10 pieces, 10 different proteins?

A Yes. It is a combination of host proteases and viral encoded proteases that cleave this polyprotein into 10 different mature proteins.

Q Now some of those proteins make up different parts of the new virus, correct?

A Yeah. Three of those proteins that encoded the internus of the polyprotein core or nucleic acid. Nucleic acid actually encapsulates genetic material in itself. And then on top of these, there are two envelope proteins, E-1 and E-2. All three together called structural proteins.

Q Okay. So let's talk about the E-1 and the E-2. We've got two proteins that make up the -- the basket that the genetic material is in, right?

A Right.

Q So now when a virus is in a person's body, does an immune response typically happen? Like somebody tries to make antibodies to that virus to get -- to get it out of there.

A Yes. Basically all proteins of hepatitis C virus recognized by immune system. Those three, which I just mentioned, structural proteins as well as non-structural proteins. But only structural proteins contain neutralizing antigenic epitopes.

mentioned from an S5B region, that actual entire region is conserved and we use this region when we sequence that to identify genetic type of the virus. But then there is another region that comes from structural area when we're amplifying a small piece of E-1 gene and E-2 gene. Yes, that region composed a relatively conserved part and very variable part.

- Q Okay. So we've got actually two things you're doing. You're looking first you've got to type the virus, so you look at the NSB5 region?
  - A Right.
- Q Which is highly conserved, meaning it doesn't change; is that fair?
- A It does change but it is conserved because the most conserved region would be [indiscernible] region.
- $\ensuremath{\mathtt{Q}}$  Okay. But it doesn't change nearly as rapidly as anything else.
  - A That's true.
- Q So when you look at that and you looked at the study samples that came in, were they all of the same type?
- A Yes. That's actually part of the protocol because we if they would be of different type we wouldn't proceed with the second part of finalizing quasispecies. All of them were of the same type.
- Q So the type was that -- well, tell me, what type was it?

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So in the United States, are there different areas of the country that are predominately infected with different types of the virus?

There are six types of the virus, seven Yeah. types of the virus. One was recently added. And in doing that it stays the most dominant type is -- is type one. And types also subdivided into subtypes and they usually identified by letters of alphabet. So in this case it was subtype 1-A. But then in other also frequently found in the United States is subtype 1-B.

Okay. So 1-A and 1-B are predominant in the United States?

That's correct.

In this region of the country, the western half of the country, what is predominant? In this area -- well, let's even narrow it even further. In the Las Vegas, Clark County, Nevada area, what's the area -- what is the type that is traditionally predominant?

You said traditional because it most probably could have changed.

- Sloppy wording on my part. 0
- Yeah, it most probably 1-A. Α
- So 1-A is what we would expect to find?
- Yes.

1	Q And you found that in all of these?
2	A Right.
3	Q Is that correct? Now let's move away from just
4	the typing. So we've got a hepatitis C virus that's typed by
5	you through the genetic sequencing as being 1-A
6	A That's correct.
7	Q is that fair? Then let's move to the E-2
8	protein that you had that has the hypervariable region that
9	you looked at as well.
10	A That's true.
11	Q So and what did you call that hypervariable
12	region?
13	A RNA preliminaries of the hepatitis C virus has
14	no [indiscernible] mechanism so it generates a lot of errors
15	when it replicates the genome. And there are different
16	regions actually like Himalaya, there is a different a
17	different rate. In one of the regions, which is located at
18	the internus or five prime end of E-1 or E-2 protein antigen,
19	is the most variable region. That's why we call it
20	hypervariable region.
21	Q So you've got a on a on a region that
22	we're talking about, one end is called a three prime end and
23	one's called a five prime end. Is that what you said?
24	A All nucleic acids actually named this way. It
25	just direction from five prime end to three prime end.

Q So that just tells you on what end of the thing
you're on.
A Yeah.
Q So so on the end of that that region,
you've got one that that actually varies quite a lot; is
that fair?
A That's true.
Q And you said that it was because essentially
there are there's no proofreading mechanism for the
preliminaries which is an enzyme that makes the new template,
correct?
A Yeah. RNA dependent, RNA preliminaries usually
have no proofreading mechanism.
Q So that means that if there's an error made in
the replication process, it's not going to get corrected; is
that fair?
A That's correct.
Q So because it doesn't get corrected, that means
that if you have a lot you mentioned in a in a person
you might have a trillion, billion, trillion, hundred billion
cells, viral particles being produced on a regular basis daily
in a person; is that fair?
A Yeah, that's fair.
Q So if we've got if we multiply the no
proofreading, meaning the errors are occurring and not being

corrected, with how many viral particles are being produced in a body, would that mean that at least the potential for mutation and change of the virus would be high?

- A Oh, very high.
- Q You mentioned a term quasispecies. What is that?
- A This actually a term that was hijacked from molecular evolution and used and corrected by virologists, but now it's kind of stuck with virologists. It identifies interhost variance of the virus.
- Q So when you say interhost variance, does that mean that there is a host, meaning a person, let's say I was infected with the virus and that just by virtue of the fact that it's in me and replicating and we and going through all these things we just talked about, that there might be some drift or moving away from the genetic makeup of the original virus that was infected over time.
- A Yeah. Any person who infected with hepatitis C virus, infected was very, very big population of different genetic variance. Even if it starts from single single molecule, if ever it does, it still would end up over course of infection become big population of the virus with many, many variance, genetic variance. Calculations have been made that indicate that basically each and every single point mutation exists in viral population every day in each and

Q So you're telling me there could be — there could be a point mutation on each one of the replicated DNA — or excuse me, RNA templates for every one of those produced viruses in a person that's produced everyday and that could be in the hundreds of billions?

A That's true, but not all of them would be viable.

Q But of those that would be viable, there still would be a whole bunch of them.

A Oh, yeah.

Q Now does — again, does that mean that if I'm infected on today, that a week, a month, six months from now, that if you sampled my blood and — and I had an active infection still and looked at the genetics to see how closely related those are to even the — the one that infected me initially, that there would be some change over time getting further and further away from that original virus or mixture?

A Yeah, you would expect that.

Q So when you say quasispecies, does that mean that any person walking around on any given day has multiple variance of the virus within them?

A That's what it means.

Q So when you do your genetic analysis and you're trying to figure out relatedness between samples, for example

that were sent to you, if they were related at all, how do you go about figuring that out?

A Yeah. That's a very difficult task for such a very difficult virus, which changes so much. We most probably in that frequently not detect that two people infected with the same virus. And the way we do it, we kind of fingerprint virus. We use this hypervariable region one and then we sample population of the virus from each and every individual. And usually we — at that time we use technology that allow — allowed us to let's say detect 50, 100, maybe 200 variance from each and every person.

So it's more sample from all variance that circulate in each and every individual. But still, it is sample of this population. Once we sample those variance, we detect — we determine their primary structure of each and every variant and then we compare them.

Q Okay. So when you did that in this particular case, I mean you've got these different samples, did you compare those to each other for example, to see how related each one was to itself?

A Yes, we did. And there are numerous — different approaches to compare.

Q And beyond that, beyond just comparing them to -- to themselves, did you look at any other populations to compare it to to see how related they might have been to maybe

	this other population that you also compared to, what was
2	that?
3	A We usually use specimens from the Third National
4	Health and Nutrition Examination Survey. During that survey
5	we were involved in genotyping of hepatitis C virus. Those
6	specimens were available to us and we actually analyze
7	quasispecies variants from those patients.
8	Q So you looked at the same kind of thing, the
9	quasispecies, meaning all the different kinds that are in
10	in a single individual at any one time. You compared those
11	were compared in a large study so these people were positive
12	too.
13	A Yes.
14	Q How many people were in that out of that
15	study?
16	A Maybe
17	Q That were positive.
18	A Yeah, maybe not accurate down to single digit,
19	but it was I believe 270 HTV positive persons who we started
20	and from 109 we obtained population of quasispecies.
21	Q So 109 out of the all of the ones that were
22	sampled that were positive that had the quasispecies that you
23	could analyze.
24	A Yes.
25	Q Did you have a database or anything at the CDC
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1	that it contained even more comparison samples that you might
2	use?
3	A Yes, we do because we [indiscernible] specimens
4	let's say from [indiscernible] status or when we started let's
5	say clinical specimens in the course of our research studies.
6	Yes, we have this database.
7	Q Did you compare it to those as well, the samples
8	that you received?
9	A Maybe not not in this case to all of them but
10	we compared to to significant to basically many of them,
11	yes.
12	Q So a large portion of the external database
13	beyond the NHANES study that you had talked about?
14	A Yes.
15	Q And I said NHANES, it's the acronym
16	A Yes.
17	Q What was it again? It was National
18	A National Health and Nutrition Examination
19	Survey.
20	Q And it was the third one. So there
21	A Third one, yeah.
22	Q had been two previous ones before that.
23	A Yes.
24	Q So there's a chart over here we're going to get
25	to it in just a second. Did you produce this chart? This

<b>⊥</b>	sort of phylogenetic chart that's right here?
2	A Oh, yes, we did.
3	Q Does that relate to the samples that were sent
4	to you and their genetic relatedness to either each other or
5	to these other samples that you tested in your database?
6	A Yes. This chart depicts those specimens, those
7	quasispecies.
8	Q On your on your screen and what is displayed
9	as State's and I think this is any stipulation upon
10	this? You don't have an issue with this?
11	THE COURT: It was already used in your opening I
12	think.
13	MR. STAUDAHER: Yes, 74 is currently in.
14	BY MR. STAUDAHER:
15	Q We actually have 70 73 and the reason there
16	are two different ones, just so you're aware so we can see it,
17	is there's a name right here that's a little difficult to read
18	on with this color background. And then this one you can
19	see that it's Sonia Orellana. Do you see that?
20	A Yes, I do.
21	Q Okay. Now, going back to the original 74, not
22	73, I want to direct you to the column which has these letter
23	designations, HCD1, 29, 30, 31, 41, 42, 44, 45, and 46. Do
24	you see those?
2.5	A Yes. I do.

1	Q And when you got the samples into the
2	laboratory, did they have the names associated with them or
3	just a number?
4	A Only numbers. We never have names associated
5	because of human subject restrictions.
6	Q On your I'm not I'm going to call it a
7	phylogenetic chart. Okay? Is that fair? Is that pretty much
8	what it is or is it something else?
9	A It is phylogenetic chart.
10	Q So on your chart over there, they don't have any
11	names on them, correct?
12	A No.
13	Q Because you didn't have any names?
14	A No, I never had any names.
15	${\mathbb Q}$ So the the designations here, the HBC and
16	then the number, is that something that a a number that was
17	in produced by the Centers for Disease Control for this
18	study?
19	A Yes, it was I believe generated in reference
20	laboratory.
21	Q And the dates are over here too. I know you
22	don't necessarily know what date it was sent to you, you just
23	got the sample.
24	A Yes.
25	Q But the reason I put the dates there is because
	12

1	you got the dates separated as to the different groups that
2	were sent to you at different times and some of the colors are
3	the same. You see two of them are red but they're different
4	dates.
5	A Yes.
6	Q Okay. So on your chart we've got two different
7	groups at least listed there and I'd like you to, if you
8	can
9	MR. STAUDAHER: And Your Honor, I believe this has
10	been stipulated to. This is State's Exhibit 16. I'd like to
11	publish a portion of it if I may.
12	THE COURT: All right. Sixteen is admitted and you
13	may publish.
14	(State's Exhibit 16 admitted.)
15	BY MR. STAUDAHER:
16	Q I'm just going to take it apart here. I'm going
17	to show you and I know that's really tough. I'm going to
18	zoom in as much as I can on it but I just want in general if
19	you can tell me kind of what we're looking at it when I get it
20	closer
21	THE COURT: And if you're still not able to read it,
22	Mr. Staudaher can show you the actual
23	MR. STAUDAHER: That's right.
24	THE COURT: exhibit.
25	A I can imagine
	II

1	BY MR. STAUDAHER:
2	Q You want me to walk it up to you?
3	A No, no, no.
4	Q Okay. Can you read it?
5	A Yes.
6	Ç Okay.
7	A To some extent.
8	Q Do you see that there is a whole there's a
9	column here that says patients and it's got the letter, those
10	designations that you talked about and it goes all the way
11	down and then there's a there is two different colors of
12	these things and and patient B and maximum, minimum and
13	mean. Do you see that?
14	A Yes.
15	Q Okay. I'm going to walk it up to you so you
16	have it so you can look at it in general and then I'm going to
17	bring it back here and ask a couple questions about it if I
18	may.
19	MR. STAUDAHER: For counsel this is Bates number
20	GCDesai-169.
21	BY MR. STAUDAHER:
22	Q Do you see that?
23	A Yes, I do.
24	Q Does that look familiar to you as something
25	you've seen before?

Α Yes, it is familiar.

2

Okay. And what is it exactly?

3

Α It is a table of genetic distances that we quasispecies sampled from each and every person.

4 5

So what do you mean by genetic distances?

We're calculating if, for example, we have two

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Α

sequences of nucleotide sequences which we obtain from this

8

7

virus, let's -- let them be at 100 nucleotides long only.

9

Then I start comparing let's say one sequence of 100

10

nucleotides long for one patient to another sequence of 100

11

nucleotides long. And then I align them so they would be

12

aligned properly from nucleotide one to 100 and then I look at

13

differences between those two sequences. Any of them -- let's

Okay. Now you mentioned -- so those are --

14

say only two differences, I would say it is two percent

15

That's the numbers in this -- in this table. difference.

16

those are how closely related the viruses are then?

17 18

Α Yes, it is a measure of it.

19

Now, I'm going to put up -- and we've got a 0

20

larger diagram, but I want to -- I want to zoom in on some of

21

this here. This is the -- let's go out just a second. I hate

22

to make everybody sick. Okay. I'm going to show this bigger

23

and we've got the diagram there. I may have you actually go down if I need to. And just -- just for -- for you, you can

24 25

take your fingernail and you can draw on this screen. Okay?

And you can just tap it down here to clear it if you need to, 1 if you need to show us something. 3 Α Oh, okay. When you are looking at this -- this 4 5 phylogenetic chart that you talked about, on it there are a 6 whole bunch of circles that are kind of light in color and it 7 says NHANES three participants in your -- in your sort of 8 legend here. Do you see that? 9 Α Yes, I do. 10 As far as the -- the darker area here and here, 11 this says clinic acquired HCV infection and potential source. 12 Do you see that? 13 Α Yes, I do. 14 So in -- before I zoom in on these individual  $\circ$ 15 sections, can you tell us kind of what we're looking at here? 16 This actually a model that depicts genetic 17 relationships between each and every variant which was sampled 18 from each and every patient. And if you recall from each and 19 every patient where sampled more than one variant, usually 20 20 to 30 or sometimes up to 200. In -- in this case we have long 21 branches and short branches. Short terminal branches are 22 right here, for example. We call them tips and they represent 23 individual --

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Just tap it.

Q

24

25

It doesn't work for me. We have each and every

1	of that tips represent individual genetic variant, which was
2	sampled from those patients.
3	Q One second. I want to I want to go to that
4	since you're trying to explain that so that we can see it. So
5	when you're looking at at these wow, it's not focusing
6	very well, is it?
7	A Yeah.
8	Q Well, when we see those little branches and
9	maybe that it will be a little easier
10	MR. STAUDAHER: Can I have him come down, Your Honor,
11	so I can ask him some of these questions?
12	THE COURT: Sure. Sir, you can step down so you can
13	I guess point to the yeah, easel.
14	MR. STAUDAHER: Try not to hurt yourself.
15	MS. STANISH: Your Honor, could I ask that that
16	chart not be blocked. Maybe if Mr. Staudaher would leave the
17	courtroom I could see it.
18	MR. STAUDAHER: Leave the courtroom, no.
19	THE COURT: Well, Ms. Stanish
20	MS. STANISH: I just can't see it. If they're
21	pointing to it I can't see.
22	THE COURT: You can counsel can
23	MS. STANISH: Can I move, Your Honor?
24	THE COURT: Yeah, I was going to say counsel
25	MS. STANISH: Okay, great.

THE COURT: -- can move so that they can see the chart and observe the witness.

MS. STANISH: Great.

THE COURT: You can move to that side or back over there, whatever's easiest.

## BY MR. STAUDAHER:

Q So when you were talking, you were pointing to one of these little tiny branches here on one of the circles [inaudible]; is that correct?

A That's correct.

Q So when you talk about small branches or small distances, is that what we're talking about, just a little bit of distance between like a branch point and the end point, that particular line there?

A Yes, that's true. For example, when I see this tip right here, it represents one single variant which we obtained from this very patient. And then you may see some other short tips, they also represent individual variance.

And the short of those tips, that link — the short of those tips, the close of those variance to each other. And then you see here they merge at some point. A merging point is predicted ancestor for those two variance. So it's a bifurcated tree in this case.

Q So when you say predicted ancestor, that means that they have common ancestors before that point and then

they branched at some point?

A Yes. For example, this variant and for example this variant, they have common ancestor here, but then an additional variant right here. Now they share a common -- a common ancestor for this variant in all these branch right here and it goes down the tree.

Q So this circle here represents a patient; is that right?

A Yes. Each encircled area represent population of variants which you obtain from single -- from a single patient.

Q And all of these white ones are different patients from the NHANES participants that you compared to beyond the ones that were just sent from Las Vegas, is that — is that fair?

A Oh, that's correct.

Q And you said that you -- this -- if I count these, there's one, two, three, four, five, six, seven, eight, nine, so there's only nine depicted on this diagram but you did a very larger number than that. Did you say almost 200 or so?

A Actually, we have many more but we placed those here only for illustration. Just for people to perceive — to see. What would he — what originated can be expected from in each and every individual variant. This is diversity of the

25

Α Yeah, it may go up to 20 percent or even more.

25

thing for that one?

MR. STAUDAHER: For the record I was pointing to NC42 and NC45 for the record. 2 3 THE COURT: Okay. In this case we need to look at all variants 4 that were shown here with black dots and they actually -- as 5 you can see can be found even here intermixed with this 6 variance shown in different color. 7 BY MR. STAUDAHER: 8 So are the individual dots an individual 9 quasispecies within the sample? 10 That's correct. 11 So if this shows you that on -- for example, a 12 person who was at black has many different quasispecies within 13 them that are all closely related; is that fair? 14 That's fair. 15 Okay. And this over here where you have a 16 smaller population, the blue or the pink or the red or the 17 vellow or the green or the white, which corresponds with each 18 represented number designation, do those look like they are 19 20 related to each other? Oh, clearly related. They sometimes even share 21 the same variance, which we sampled from different people. 22 So if you were to say -- I mean is this part of 23 your analysis to determine how if, in fact, one person has one 24 virus and the other person has the same virus or doesn't have, 25

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is that what you do? 1 Yes, that's exactly what we do. 2 3 So in this case for those -- for this grouping, it says September, the September cluster, all of those 4 different individuals. Can you tell us if they're related or 5 6 not? 7 Oh, they are very closely related. Α When you say closely related, how closely are we 8 9 talking about? As much related as individual quasispecies from 10 11 individual patients. 12 Say that one more time. They as much related as cuasispecies within each 13 14 individual patient. And when you said that you were pointing to, 15 again, for the record, the latter two circles from the NHANES 16 17 participants on the -- on the screen, right side of the diagram. You said that they're as related to each other as 18 19 the individual quasispecies variation within an individual on 20 the other one of the diagram. That's what I said. 21 Α 22 C Is that the same thing for the other diagram 23 over there, the July cluster? That's absolutely correct for that cluster as 2.4 Α 25 well.

that's it.

Q But you had this NVC-30 clearly before you had NCV-46 --

A Yes.

Q -- is that right?

 $_{\mbox{\scriptsize A}}$   $_{\mbox{\scriptsize NVC-46}}$  we received I believe in May, like five month later.

Q But you were aware when you got that one that at least it was a sample that had been taken from the day -- the July date, correct?

A I -- I -- at that time I didn't know dates, it was just another sample.

Q So you -- you eventually [indiscernible] --

A Yes.

Q -- charts together. Did you in some way predict -- or can you predict which is the source and which is the nonsource samples for patients from this study?

A Yes. It is not always that we can do this but in certain situations we can. And the major assumption is if — we already learned that viruses [indiscernible] diverse and it evolves very rapidly over time. So if someone was already infected with hepatitis C for a certain period of time, we would expect certain diversity of this variance in there. And the longer virus evolves, the greater the diversity should be. So in this case source always was infected before the incident

cases. So it — the amount, the evolution of the virus that the virus can experience should be much greater, so population should be more, heterogenics should be more diverse. In incident cases, since infection is very recent, should have population less diverse.

Q So there should be fewer of the variances is what you're talking about.

A Yes.

Q So a lot from the source patient and fewer for the -- for the infected patients if they're related.

A That we would generally expect, yes.

Q And would you expect to see the -- the related ones come off of a branch of what the source patient would be essentially?

A Yes, we expect and that's what we see in this cluster. For example, this variance shown in black here, they intermix with this variance completely from other patients.

And this is clear indication of common source. In that case, we didn't observe this —

Q When you say that case, you were pointing to the July cluster for the record?

A Yes. In that case we did not see identity between quasispecies sample from two different patients. And actual, this table shows this. And then the -- the minimal distance was 98.6 percent between variance sampled from

1 patient 46 and 30. 2 Okay. So over there at the time that you got 3 it, you've got 30 and it's sticking way out here away from the rest of these; is that right? 4 5 Α Yes. And when I say the rest of these, I'm talking 6 7 about the September cluster. So you knew that there was a --8 there was no relationship whatsoever of the July cluster to 9 the September cluster. 10 Α Yes, it was absolutely clear. 11 Totally different virus. 12 Totally different viruses. Α 13 Now did you expect if you would find the source patient that it would -- it would display like it is there 14 15 when there's a very -- very source patient and a very narrow 16 infected patient? 17 In general, we don't expect that to identify 18 directionality of transmission, but in this case we could 19 detect this. 20 So you don't expect to do that. Is that because 21 you don't usually see this kind of thing?

example, transmission would occur from this patient, this most probably — we wouldn't be able to identify directionality of transmission.

It's not always because sometimes -- if for

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So when you finally got the NVC-46 patient and you did the analysis on it, did it fall where you predicted if it had been genetically related to NVC-30?

Yes. We clearly knew that it is genetically related. These two patients have populations of the virus that genetically very tightly related.

And you mentioned the difference in the maximum [indiscernible] type sequence identity and there's some -there's some ranges here. It says the September cluster ranges between 92. -- or 98.2 percent and 100 percent. What does that mean?

Since we have population of variance here Α sampled, so we'll look at genetic distances between all variance sampled in all patients. And then we present only minimal distances. Or let's say this patient would have 30 variance and we compare it to another patient who has also 30 variance. So all 30 on one side on the -- and other side compared. Then we take the minimal distance and we put in this table. Then we go to another patient and then we do the comparison by all possible peers. Let's say patient one to two, two to three, one to three, two to four and so on. And that's what this range is all about.

But your range goes up to 100 percent. How's that possible?

> Oh, it means that patients have -- were infected KARR REPORTING, INC.

with identical quasispecies variance. 1 2 So we're not talking about just ones that were 3 most of them were similar, we're talking about all of the 4 [indiscernible]; is that right? Or all of them are the same 5 essentially if it's 100 percent. 6 I need to look -- that's -- that table which you 7 showed before. 8 You can sit back down. If you need to go back 9 and forth [indiscernible]. I'm showing you Bates number 169. 10 Is that what you were asking about? 11 Yes. And if you look at this red area at the 12 bottom of it and then you -- now you look at the word -- at 13 the column identified as maximum, in this case maximum 14 identity. 15 I'm going to put that up so the jury can see as 16 well. And you said it was right there where it's in the 100? 17 Again, the column that we're looking at talks as maximum and minimum? 18 19 Α Right. 20 If we go down and we look at that, we've got it 21 looks like NVC-45 and NVC-41, look to be 100 -- and NVC-31, 22 they're 100 percent? 23 Α Right. 24 Okay. And the rest of them as we go up, 45 is 25 99.7, 99.7 and the like?

1	the source and who isn't the source there?
2	A Oh, yes. It is NVC-46 because it contains
3	significantly more heterogenics population than NVC-30.
4	Q So NVC-46 is Ziyad, Sharrieff, correct, at least
5	according to this chart?
6	A Correct.
7	Q And we're looking at 74. And NVC-30 on that is
8	Michael Washington.
9	A That's correct.
10	Q I know you didn't have the name, but I'm just
11	saying it corresponds, does it not?
12	A Yeah, I'm looking at this chart.
13	Q Any question that we're talking about these
14	being at least all genetically identical or close to being
15	identical for each individual day?
16	A No question actually, it's
17	Q And when comparing the two days, are they even
18	remotely close to each other?
19	A No, they're not, they're totally different.
20	MR. STAUDAHER: Pass the witness, Your Honor.
21	THE COURT: Counsel, approach.
22	(Off-record bench conference.)
23	THE COURT: Ladies and gentlemen, we're just
24	discussing scheduling, whether we're going to take out lunch
25	break now or whether or not we're going to try to finish up

with this witness in a decent time because we don't want to 7 2 take lunch at 3:00. So we're going to have -- you follow 3 Officer Hawks, who informed me that you've been complaining we 4 don't take enough breaks and -- I know, I was teasing. 5 And once again, I do need to admonish you that you're 6 7 8 9 10

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not to discuss the case or anything relating to the case with each other or with anyone else. You're not to read, watch, listen to any reports of or commentaries on this case, any person or subject matter relating to the case by any medium of information. Don't do any independent research by way of the Internet or any other medium and please do not form or express an opinion on the case. If you would all please place your notepads in your chairs and follow the bailiff through the rear door.

(Jury recessed at 12:02 p.m.)

THE COURT: Sir, when's your flight?

THE WITNESS: 3:15.

THE COURT: 3:15. So you would very much like it if we could finish with you before lunch, I'm assuming?

THE WITNESS: Definitely would.

THE COURT: Okay. I need to take a break anyway. But Ms. Stanish, how long about do you think for your cross?

MS. STANISH: I -- I'm not sure, Your Honor, to be honest with you --

THE COURT: Yeah, I mean, I know if you say --

1	MS. STANISH: because it's so technical.
2	THE COURT: an hour and it goes an hour and a
3	half, I'm not going to stop you.
4	MS. STANISH: I'm trying to be you know, anywhere
5	from a half hour to an hour
6	THE COURT: And then Mr. Santacroce?
7	MS. STANISH: I'm guessing.
8	MR. SANTACROCE: Five minutes.
9	THE COURT: Okay. And then whatever the redirect.
10	MR. STAUDAHER: There won't probably won't be
11	much.
12	THE COURT: Okay. All right. And the juror
13	questions. I know that there's probably not going to be many.
14	All right. If anyone needs to use the restroom or something
15	like that, let's do it now and then we'll come back before
16	lunch.
17	(Court recessed at 12:03 p.m. until 12:07 p.m.)
18	(Outside the presence of the jury.)
19	THE COURT: Is everyone ready? The jury's fine going
20	late, a little bit later for lunch so we'll finish up his
21	testimony. And we're missing Ms. Stanish and Dr. Desai, so we
22	need to wait a moment. As soon as your client gets here, Ms.
23	Stanish, we can get started.
24	MS. STANISH: All right.
25	THE COURT: So is he in the restroom or

1	MS. STANISH: I didn't follow him. I was in the
2	restroom so I don't know where he is.
3	THE COURT: Well, here's how I would conclude that.
4	If he's not sitting in the hallway somewhere
5	MS. STANISH: He's probably in the restroom.
6	THE COURT: he's not in the courtroom. I would
7	assume that he's in the restroom.
8	MS. STANISH: Me toc.
9	THE COURT: Mr. Wright, are you ready to go?
10	MR. WRIGHT: Yep.
11	THE COURT: Could you tell Penny to bring the jury
12	in?
13	(Jury reconvened at 12:15 p.m.)
14	THE COURT: All right. Court is now back in session.
15	Ms. Stanish, you may begin your cross-examination.
16	MS. STANISH: Thank you, Your Honor.
17	CROSS-EXAMINATION
18	BY MS. STANISH:
19	Q Sir, how do I pronounce your last name?
20	A Khudyakov.
21	Q Khudyakov? Can I call you Dr. Yury?
22	A That's the best.
23	Q Thank you. Thank you also for reminding me why
24	I'm a history major when I was in college. I want to first
25	talk about your laboratory. As I understand it, your main
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1	mission of your laboratory is it's a research laboratory,
2	correct?
3	A That's correct.
4	Q You're not a you're not a a like a
5	Department of Justice certified DNA laboratory or anything
6	like that.
7	A No, we're not a forensic laboratory.
8	Q And by the way, are you familiar with the
9	Department of Justice's process for DNA labs?
10	A Well, not in all details though but in general
11	all these are related protocol should be treated the same or
12	assays.
13	Q I'm sorry, I didn't understand.
14	A Yeah. I'm not familiar in all details how they
15	treat the assays. But in general, I assume that general
16	stream of test is the same.
17	Q Okay. So you think the testing is the same as
18	what the Department of Justice requires?
19	A No, I don't think so.
20	Q Oh, you're not
21	A I have no idea even
22	Q Okay.
23	THE COURT: Are you saying that the general
24	principles laboratory
25	THE WITNESS: General principles laboratory, yeah.
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1	THE COURT: would be the same between what the DOJ
2	does and what the CDC does?
3	THE WITNESS: Exactly.
4	THE COURT: Okay.
5	BY MS. STANISH:
6	Q But testing for hepatitis C and trying to match
7	the source patient with infected patients, that's entirely
8	different then the DNA process of the criminal labs?
9	A I'm not aware of any laboratory of let's say
10	in criminal justice laboratories doing this assays which we
11	do.
12	Q Are you aware of other laboratories in the
13	country that do these this kind of testing?
14	A Yes. There are some other laboratories that do
15	similar testing
16	Q In our
17	A at universities.
18	Q At universities? The you didn't have just
19	to clarify a few points. I understand your job is molecules
20	and genes. You don't have contact with well, I should ask
21	you. Do you did you have contact with law enforcement in
22	this case?
23	A No, I didn't.
24	Q Aside from the District Attorney
25	A Yes, I

1	Q you, of course
2	A that's true.
3	Q dealt with them. Did you have any dealings
4	with the Southern Nevada Health District?
5	A Not directly.
6	Q And people who you supervised I assume had
7	contact with them.
8	A No, they did not.
9	Q Oh, okay. When you say not directly, what are
10	you talking about?
11	A Oh, because in reference laboratory, people
12	people definitely communicated with the Nevada Department of
13	Health. I did not communicate directly with them.
14	Q And I guess we should clarify that. You're not
15	the guy sitting under with the machine actually testing the
16	sample, you have some staff member doing it?
17	A That's true.
18	Q And and you are you're not sure one way or
19	the other well, that staff member then would have been the
20	one to communicate with the Nevada Health District?
21	A Nobody communicated with Nevada Health
22	District
23	Ç Okay.
24	A from my laboratory.
25	Q All right. Just somebody else in the greater
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1	CDC had communications with them.
2	A Most probably someone from epidemiological
3	program because we're appointed epidemiologists at the Centers
4	of Disease Control.
5	Q What is the definition of epidemiology?
6	A Epidemiology? A dissemination of disease.
7	Q I'm sorry?
8	A Study of dissemination of disease in human
9	population.
10	Q Could you just repeat your entire testimony?
11	No, I just want to jump I'm going to jump around because
12	because I was a history major. The I do want to start with
13	your diagram up there to make sure I understand a few points.
14	All right? The first point, I understood you to testify that
15	this is the final chart that gives us a picture of your test
16	results; is that correct?
17	A Yes, it is the very last.
18	Q I'm sorry?
19	A It is the very last.
20	${ t Q}$ And I and as I understand it, there were
21	other ones but you didn't have all the samples so it couldn't
22	be finalized.
23	A Yes, that's true.
24	Q Now you testified before the grand jury,
25	correct?

1	A Yes, I did.
2	Q And at that time was your chart finalized?
3	A Yes, it was. We already had our information,
4	paper was published.
5	Q That's right. You published a article on this,
6	correct?
7	A I was a co-author on that on that paper.
8	Q What now this one thing at a time because
9	I like I said, I'm jumping around here. Nucleotide
10	variation five percent. And as I understood that, that was a
11	matter of the distance between what; variance?
12	A [indiscernible] phylogenetic tree.
13	Q Okay. And do you recall at the grand jury the
14	nucleotide variant was different than five percent? Would it
15	help if you could see
16	A Yes
17	Q the grand jury material?
18	A it would.
19	MS. STANISH: Court's indulgence.
20	THE COURT: That's fine.
21	MS. STANISH: Sorry. I have a lot of paperwork here.
22	Indulge me a moment. I'm going to show him this exhibit.
23	MR. STAUDAHER: Yeah, that's fine.
24	MS. STANISH: And then I'll just show him the
25	transcripts to refresh his memory.
	II

1	MR. STAUDAHER: Sure.		
2	BY MS. STANISH:		
3	Q Do you recall the date that you testified?		
4	A No.		
5	Q If I can approach I'll help you out with that.		
6	A Okay.		
7	Q Just read this to yourself. So what was the		
8	date?		
9	A Oh, April 15th, Wednesday.		
10	Q And now I'm going to show you this document. It		
11	was an Exhibit 11A in the grand jury and if you would just		
12	take a look at that. This was the do you recognize that?		
13	A Yeah, I recognize it.		
14	Q Now, I asked you whether the final chart		
15	whether there was a final chart submitted to the grand jury.		
16	You had all the data for this exhibit, correct?		
17	A Yes, we did.		
18	Q Why is the variant what is the variant that		
19	was presented to the grand jury? Was it a error or what?		
20	A No.		
21	Q What, what is it?		
22	A A nucleotide variation. Actually this bar has		
23	it approximates the scale at which this phylogenetic tree		
24	can be analyzed in terms of genetic distances. So for that		
25	matter, it could have been two percent or even ten percent.		

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It's just a simple scale mark.

I'm not -- I'm not understanding what -- you -why was this chart changed to five percent compared to the three percent variant?

It is the same way as you would measure distances. You may use it in meters or centimeters. So I could have said it is 20 centimeters and put it as a scale in order to measure the distance. And later I could have said maybe it would be more convenient to measure it in meters and then I would say a two-meter scale, but then it would be bigger.

> So ---0

THE COURT: So are you saying the -- it's the same value, if you will, or number, it's just measuring -- it's the same quantity, it's just measured in different units?

THE WITNESS: Yeah. Units are the same in this case, percentage. But in -- in one case we show this -- the size of the scale as five percent, in another case it should be three percent.

BY MS. STANISH:

- All right. So it's kind of like --
- Or genetic differences.
- -- kind of like a map, you just -- you're -you're telling me that the information that you -- was presented in the grand jury is the same but you just had a

for illustration purposes. Just for people who look at this

25

tree would appreciate genetic diversity within individual patients and then within the cluster.

Q Okay. Are you — do you know enough about the Department of Justice requirements for DNA to know that the random — the comparison between the test subjects and this control patient, for lack of better term, your control group, that that is required that you have to have a statistical analysis in order for these dots to have significance? Do you know?

A Oh --

MR. STAUDAHER: Objection, vague and ambiguous. I'm not sure if we're comparing the same, you know, it's the -- he's already testified.

THE COURT: Well, I'm sure the witness -- I mean if he can't answer the question as phrased, I'm sure the witness can say, I can't answer that question the way you've -- you've phrased it, so --

BY MS. STANISH:

Q Right. And if it's because of my ignorance of science, please feel free to correct with me the appropriate terms.

A We did -- we did statistical analysis in reality. And there are different ways of doing statistical analysis. I'm not familiar with requirements of Department of Defense, but for the research purpose, we definitely do this.

1	And we know that diversity within individual patients may not		
2	exceed more than four percent or or I mean of type 1-A,		
3	subtype 1-A. We did not see it.		
4	Q And the control group that you used came from a		
5	survey, correct?		
6	A Yes.		
7	Q And that basically means that the CDC over time		
8	collected blood samples from a wide range of children and		
9	adults across the country.		
10	A That's true.		
11	Q And this control group, those blood samples, do		
12	you know what years they were collected?		
13	A '88, '93.		
14	Q '88 to '93?		
15	A I believe I'm correct, yeah.		
16	Q And when you did your did your lab select		
17	certain characteristics of from this survey as a		
18	comparison? Do you see what I'm saying?		
19	A No, I'm not clear.		
20	Q Okay.		
21	A I'm sorry.		
22	Q The your survey group, I mean there's a stash		
23	cf blood samples or something in the CDC lab that let's you		
24	compare test results to this control group.		
25	A I'm not following		

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Yeah, because I — I don't understand. I'm just trying to figure out how you came up with this model and make sure that I understand it. And since I'm not as smart as a fifth grader, I'm trying to dumb it down and probably dumbing it down too much for myself. The survey, the control group that you're — you compared the test group, the testing samples to the control group. Okay? That control group comes from this population of people that the CDC collected information on over time.

A Yes.

Q And collected the blood samples of these people between 1988 and 1993, correct?

A That's correct.

Q And -- and what is it, just you have the data from the blood samples? Somehow the blood samples back in -- between 1998 and '93, those blood samples were just examined way back and put into this database, is that how it works?

A Yes, to some extent that's how it worked. We were involved and we still do -- involved in genotyping of all hepatitis C cases when they're detected. In that case we also had protocol approved to deal with, to understand quasispecies organization of hepatitis C virus in individual patients because at that time with the inception of -- idea of how to track transmissions. So in this population this conveniently became available to us for that very study and that's why we

use it to demonstrate diversity of quasispecies within individuals.

Q All right. So if I'm understanding what you said, is between 1988 and 1993 you got samples of blood that were infected with hepatitis C and you examined them and kept that data so that you could use it as a comparison group for something like this, to compare it to.

A That's correct.

Q Okay. So my question is, when the comparison is being done for the — I'm going to call the shaded areas our test, test samples. When the test — when the test group is compared — is going to be compared to this control group whose blood was collected back in the 1980s and early '90s, would you select certain characteristics from the whole survey because — do you seen what I'm saying?

A Yes, now I believe I do.

Q Okay.

A No. No specific selection was done for these patients. They were randomly chosen only for the sake of building this phylogenetic analysis, build this tree and for demonstration purposes.

Q All right. So basically your -- your survey group, the control group that comes from the -- the blood that was collected way back, that would include children, adults, old people in their 80s and people from all over the country?

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## Electronically Filed IN THE SUPREME COURT OF THE STATE OF IN AD 2014 09:00 a.m. Tracie K. Lindeman Clerk of Supreme Court

DIPAK KANTILAL DESAI,	) CASE NO. 64591
Appellant,	)
VS.	) )
THE STATE OF NEVADA,	) )
Respondent.	) )

#### APPELLANT'S APPENDIX VOLUME 6

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**CLERK OF THE COURT** 

DISTRICT COURT CLARK COUNTY, NEVADA \* \* \* \* \*

THE STATE OF NEVADA, CASE NO. C265107-1,2 Plaintiff, CASE NO. C283381-1,2 DEPT NO. XXI VS. DIPAK KANTILAL DESAI, RONALD E. LAKEMAN, TRANSCRIPT OF PROCEEDING Defendants.

BEFORE THE HONORABLE VALERIE ADAIR, DISTRICT COURT JUDGE

JURY TRIAL - DAY 11

THURSDAY, MAY 9, 2013

APPEARANCES:

FOR THE STATE:

MICHAEL V. STAUDAHER, ESQ.

PAMELA WECKERLY, ESQ.

Chief Deputy District Attorneys

FOR DEFENDANT DESAI:

RICHARD A. WRIGHT, ESQ. MARGARET M. STANISH, ESQ.

FOR DEFENDANT LAKEMAN: FREDERICK A. SANTACROCE, ESQ.

Also Present:

ARTEMUS HAM, ESQ.

RECORDED BY JANIE OLSEN COURT RECORDER TRANSCRIBED BY: KARR Reporting, Inc.

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# LAS VEGAS, NEVADA, THURSDAY, MAY 9, 2013, 9:09 A.M. \* \* \* \* \* (Outside the presence of the jury.)

THE COURT: All right. Just to put on the record before we bring the jury in. At the conclusion of the day yesterday, before she -- or was it this morning, Kenny?

THE MARSHAL: It was yesterday.

THE COURT: Okay. Yesterday afternoon Ms. Annen
Smith indicated to the bailiff that she recognized the face
of, I think she referred to him as the Asian doctor, it would
be Dr. Bui, she recognized his face. She didn't recall — she
hadn't recalled his name but she had seen him about 10 years
ago as a physician. And when he walked in then she looked at
his face and felt that she recognized him. All right. Can we
bring the jury in?

MR. WRIGHT: How did she recognize him?

THE COURT: By his face.

MR. WRIGHT: Okay. Was she a patient?

THE COURT: Yeah. She saw him about 10 years ago as a patient. I mean, we can bring her in for further questioning at a -- at a break or something like that if you'd like --

MR. WRIGHT: Okay.

THE COURT: -- to do it that way. I'm just informing you of the information that's been conveyed to the Court.

juror?

MR. SANTACROCE: When are we going to do the other

THE COURT: We can do it at the next break. Let's go ahead and get Ms. Hutchinson done since we know she has travel plans and she's had to put them off to come back today. So let's get her done so we can make sure she can leave and then we can handle some of these other juror issues on the break. Okay? Or when we take a break at some point today. We're mindful of them and I just don't think that, you know, we really need to do it right this second.

And obviously, Ms. Annen Smith knew that she wasn't to discuss it in front of the other jurors. She approached the bailiff privately and informed him of it. So I don't think there's any concern at this point with her talking to the other jurors because she handled the situation appropriately and pretty much immediately.

So let's go ahead and bring the jury in and then we'll be -- begin with the continuation of Ms. Hutchinson's testimony.

(Jury reconvened at 9:13 a.m.)

THE COURT: All right. Court is now back in session. The record should reflect the presence of the State through the Deputy District Attorneys, the presence of the defendants and their counsel, the officers of the Court and the ladies and gentlemen of the jury.

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1	And we'll recall the witness from yesterday. Ma'am,
2	come on back up here next to me, please. Just have a seat.
3	And you are still under oath. Do you understand that?
4	THE WITNESS: Yes, I do.
5	THE COURT: All right. Mr. Wright, are we you
6	ready to proceed with your cross-examination?
7	MR. WRIGHT: Yes, Your Honor.
8	THE COURT: All right. Go ahead.
9	CROSS-EXAMINATION
10	BY MR. WRIGHT:
11	Q Good morning, ma'am.
12	A Good morning.
13	Q My name is Richard Wright. I represent Dr.
14	Desai. I'd like to begin with approximately the middle of
15	2008. Okay?
16	A Okay.
17	Q After the your hospitalization, after your
18	interaction with the clinic and after your interaction with
19	the health district. Okay?
20	A Okay.
21	Q And then who was were was your were
22	your treating physicians?
23	A For can you please
24	Q Primary care and for your hepatitis C virus.
25	A Dr. Bui was my primary care physician and then
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ll ll	
1	Dr. Bui referred me to Dr. Fayde for interferon treatment.
2	Q Okay. And you you you've stayed with Dr.
3	Bui, correct?
4	A Yes.
5	Q Okay. Is he still your primary care physician?
6	A Yes.
7	Q Okay. I'm asking because sometimes there's a
8	lot of patients involved in this and I get get them mixed
9	up with their doctor.
10	A Bui's been my physician for like the last 15
11	years.
12	Q Okay. And the on your interferon treatments,
13	that that's a series of treatments, goes on for, what, nine
14	months, a year?
15	A Twelve months.
16	Q Twelve months. Okay. And you started those in
17	about when? And I'm just looking for months approximately.
18	A September.
19	Q Of 2008?
20	A '08.
21	Q Okay. And at that time your hepatitis C do
22	you know what the viral load is?
23	A A viral was in the millions or billions, it was
24	high.
25	Q Okay. And so you started this interferon
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1	treatment program, correct?	
2	А	Yes, I did.
3	Q	And that was under the supervision of your
4	specialist.	
5	А	Yes.
6	Q	Okay. And that went on for one year.
7	A	Yes.
8	Q	Okay. And was it successful?
9	А	Yes.
10	Q	Okay. So that the hepatitis C virus cleared.
11	А	No.
12	Ç	Okay. Tell me the terminology that we you
13	would use for the successful treatment.	
14	А	That it is in in a in remission. I get
15	tested once a year to make sure that it has not come back.	
16	Q	Okay. And the on on your testing, if you
17	know this, li	ke when you talk to your specialist or who do
18	you see once	a year?
19	А	Dr. Fayde.
20	Q	Okay. Could you spell his name?
21	А	F-a-y-d-e.
22	Q	Okay. Fayde.
23	А	Uh-huh.
24	Q	Okay. At you went from like September 2008
25	to September	2009

1	А	Yes.
2	Q	with your treatment program. And then, did
3	you understan	d that the blood work, liver panel screens showed
4	negative?	
5	А	Yes.
6	Q	Okay. And that that's what's called a
7	successful tr	eatment program. Did you understand that?
8	А	Yes.
9	Q	Okay. And then thereafter, you have been you
10	you visit	Dr. Fayde annually?
11	А	I'm sorry. Repeat
12	Q	Annually?
13	А	Annually, yes, I do.
14	Q	Okay. Or did you start out at six-month
15	intervals?	
16	А	I had to start at six-month intervals and then
17	we went once	a year.
18	Q	Okay. And then each time you you he
19	you do blood	work, a new panel of tests again, correct?
20	А	Yes.
21	Q	Okay. And that's to see if it somehow came
22	back; is that	, <del></del>
23	А	I'm sorry?
24.	Q	Using layman's terms, that's to see if the
25	hepatitis C c	came back.
	II	

1	A Yes.	
2	Q Okay.	
3	THE COURT: Can everybody hear okay? All right.	
4	BY MR. WRIGHT:	
5	Q And so far you thankfully, it has been	
6	successful, correct?	
7	A Yes.	
8	Q Okay. Now in 2008 you also commenced civil	
9	litigation, lawsuits, correct?	
10	A Yes.	
11	Q Okay. And you because you had been harmed	
12	and so you sued to try to get compensated, correct?	
13	A Yes.	
14	Q Okay. And who do you know who you sued?	
15	A The pharmaceutical company and the medical	
16	center	
17	Q Okay.	
18	A that Desai	
19	Q The medical center being where where you had	
20	the procedures done	
21	A Yes.	
22	Q that were where Dr. Desai was.	
23	A Yes.	
24	Q Okay. So you sued the clinic. I mean that's	
25	what we call it here, and you also sued pharmaceutical	
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1	manufacturers.		
2	A Yes.		
3	Q Okay. Do you know which which the		
4 -	manufacturer is who manufactured what product, generally, do		
5	you know?		
6	A Sicor manufactured the propofol bottles.		
7	Q Okay. Propofol manufacturer?		
8	A Yes.		
9	Q Do you know if you you sued the saline vial		
10	manufacturers?		
11	A I'm not aware of that.		
12	Q Pardon?		
13	A I have no clue.		
14	Q Okay. But it is it fair to say that was		
15	handled by your lawyers?		
16	A Yes.		
17	Q Okay. I mean, there was extremely voluminous		
18	pleadings and counterpleadings in your case. I mean, are you		
19	aware of that?		
20	A Can you		
21	Q The the complaint		
22	THE COURT: That might not be a word that people that		
23	aren't lawyers		
24	BY MR. WRIGHT:		
25	Q All of the paperwork		
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1	A I'm sorry.	
2	THE COURT: No, you're no, I know pleadings, what	
3	does that mean?	
4	A I mean, it's kind of pleading and pleading,	
5	sorry.	
6	BY MR. WRIGHT:	
7	Q All right. All of the paperwork	
8	THE COURT: It's a lawyer word, Mr. Wright.	
9	BY MR. WRIGHT:	
10	Q All of the paperwork, like your claims is a	
11	great big document where you sue somebody.	
12	A Yes, I understand that.	
13	Q Okay. And so as as far as like who to go	
14	after and what the claims are, you leave that to the	
15	lawyers	
16	A Yes, I do.	
17	Q because that's what they're to figure out,	
18	correct?	
19	A Yes.	
20	Q Okay. And do you know if you sued like the	
21	Lidocaine manufacturers or distributors for the multi-use	
22	vial?	
23	A You would have to ask my attorney on that one.	
24	Q And so it's the same for saline multi-use, you	
25	don't know if you sued them or not?	

	<b> </b>	
1	A	Yes. You would have to ask my attorney on that
2	one.	
3	Q	Okay. Your attorney's whom?
4	A	Huh?
5	Q	Who who are your lawyers?
6	A	Nia Killebrew.
7	Q	Is that her?
8	А	Yes.
9	Q	In the courtroom?
10	А	Yes, in the courtroom.
11	Q	Okay. And the the and did she she was
12	hired early c	on. Is that fair?
13	А	Correct.
14	Q	Okay. And she accompanied you to the police for
15	an interview?	
16	А	Yes.
17	Q	Okay. And to the grand jury?
18	А	Yes.
19	Q	Okay. And your your lawsuits your you
20	had to sit fo	or depositions, correct?
21	А	Yes.
22	Q	And a deposition's where you had to go to a
23	lawyer's offi	ce is that where it was, lawyer's office?
24	А	Correct.
25	Q	Okay. And you had to make your safe self
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1	available and answer questions	for the lawyers, for everyone
2	that you were suing, correct?	
3	A Correct.	
4	Q There's a lot of t	them. A lot of lawyers
5	questioned you.	
6	A There were a lot (	of lawyers, but who they were I
7	cannot recall.	
8	Q Okay. And and	your deposition went for
9	hours, many hours?	
10	A Yes.	
11	Q Okay. And they p	robed into anything and
12	everything about you and your is that fair?	
13	A Yes, that's fair.	
14	Q Okay. And then u	ltimately are your cases done,
15	your lawsuits?	
16	A Yes.	
17	Q Okay. And so the	re your lawsuits are
18	completed and you won, correct?	
19	A Correct.	
20	Q Okay. And what I	'm interested in only what you
21	received or or anything d	o you have a spouse?
22	A Yes.	
23	Q Okay. Was there	a claim on behalf of your
24	spouse?	
25	A No.	

l l		
1	Q So it was only you as what we call the	
2	plaintiff, the person seeking compensation	
3	A Yes.	
4	Q is that fair? Okay. Leaving out costs,	
5	attorney fees and all that, I just would like to ask the net	
6	number of what you received from the lawsuits.	
7	A Three point nine for future medical costs of	
8	anything that I need up until the day I die for to take	
9	care of myself medically.	
10	Q Okay. So 3.9	
11	A Million.	
12	Q Okay. And and that was all totally for	
13	future medical costs?	
14	A Yes.	
15	Q Okay. And then you received nothing, no other	
16	compensation for your injuries, pain and suffering, anything	
17	like that?	
18	A I received \$20,000 from the lady who sold the	
19	propofol bottles to the clinic. I received \$150,000 from the	
20	clinic. Nothing from Desai because he filed bankruptcy, so it	
21	was on behalf of the clinic, not Desai.	
22	Q Okay. And is is that included in the number	
23	you gave me?	
24	A No, so it's 4.1 million.	
25	Q Okay. And the $$ and I'm not intending to pry,	
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but is that -- is that the total number of all that you 1 2. received? Yes, sir. 3 Α Okay. The future medical care award, is -- is 4 -- do you receive that only if you get future medical care? 5 I receive it in an annuity to --6 7 Okay. Q -- make sure that -- I pay for my own medical 8 It's hard for me to get medical insurance 9 insurance. 10 because --11 Q Okay. -- of my prior history. 12 And you -- I'm sorry I interrupted. The --13 And as an annuity, that means you're getting it paid 14 okay. out over a number of years, right? 15 Yes, so then that way I can pay for my medical 16 insurance every month and my medical -- what medical doctors I 17 do see are paid. If I -- if a liver fails, it's -- I 18 researched it. It's like \$400,000 just to have a liver 19 20 transplant. 21 Okay. So those are things that I have to make sure 22 Α that I'm protected and my family is protected too because 23 they've been through a lot. 24 I understand. And the -- you -- you have 25

1	received that amount, this future stream of payments, correct?
2	A Yes.
3	Q Okay. And that that is yours regardless of
4	your medical costs.
5	A Yes, but it's earmarked for me for my medical
6	Q I understand.
.7	A to make sure that I'm okay that
8	Q Okay.
9	A $$ make sure that I get the medical care that I
10	that I deserve because I didn't give this to myself.
11	Q Yes, ma'am.
12	A Sorry.
13	Q Thank you very much.
14	THE COURT: No further questions?
15	MR. WRIGHT: No.
16	THE COURT: Mr. Santacroce, did you have any
17	questions?
18	MR. SANTACROCE: No, I don't have any questions.
19	THE COURT: All right. Redirect?
20	MS. WECKERLY: Just briefly.
21	REDIRECT EXAMINATION
22	BY MS. WECKERLY:
23	Q Good morning.
24	A Morning.
25	Q Can you describe the interferon therapy that you
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went through for the year, like what -- what that consists of?

A It consisted of taking nine pills a day, seven days a week, having one shot in my stomach every Friday. I had to take it on Friday because I had to work during treatment. I — I went from 225 pounds down to 164 pounds in one year. The pain is just excruciating when taking the pills and the shots. It kind of makes you crazy, so you're just not in your right mind. And it's a lot of doctor visits and so — and my family went through a lot with me so.

Q Is it okay if I just ask you a couple of specific questions about what you just said?

A Go ahead.

Q The -- the nine pills you said that you had to take daily?

A Yes.

Q Was -- was that at set times during the day?

A Yes, one in the morning, one in the after — three in the morning, three in the afternoon and three at night.

Q And did those pills make you feel dizzy or nauseous or did you have any kind of side effects from that medication?

A The side effects from the medication was constant sickness, throwing up, not holding food down. The — the mind set that I — I just don't know if I can explain it,

1	but when you go on that drug a hepatitis patient would be able	
2	to explain to you that when you're on the drug it actually	
3	makes you crazy and you're trying and I never liked that	
4	excuse. But it actually puts you in some sort of weird space.	
5	And so trying to compose yourself during that whole year at	
6	work and with home is really difficult.	
7	Q Challenging.	
8	A Yes. And the pain is just I can't explain	
9	the pain. The pain is just from head to toe.	
10	Q Where oh, head to toe. I was like where is	
11	the pain?	
12	A Yeah, head yeah, head to toe. It's just like	
13	you just don't know where it's going to hit you next.	
14	Q Is it like an aching pain or a cramping pain?	
15	A It's excruciating pain like like you just got	
16	in a boxing match with somebody.	
17	Q And then you said you had to get a shot on	
18	Friday?	
19	A On Friday.	
20	Q Why was it on Friday? Like, why did you set	
21	that as the day?	
22	A Because I had Saturday and Sunday off so when I	
23	took the shot, the shot really did a number on me so I would	
24	rather that, Saturday and Sunday, to go back to work on	
25	Monday.	

And -- and when you say did a number on you, 1 what -- what does that mean? Like were you bedridden for the 2 3 weekend? I was, yeah, I was bedridden. I couldn't Yeah. 4 eat before -- after 7:00 at night, I couldn't do -- perform a 5 lot of my housework, a lot of my bills, a lot of 6 forgetfulness. It's just -- you're basically -- it hurts, you 7 8 just don't want to move. It's a rough treatment. 9 Yes, it is. I don't -- would not want anybody 10 Α on that. 11 And then you do that for a year? 12 Q A whole year and then at the very end of my 13 treatment my -- they -- one of the side effects is -- is 14 memory loss and -- and your blood disorder. So I was doing 15 really good until the last three weeks of my treatment and 16 they were looking at giving me another blood -- give me a 17 blood transfusion and I did not want a blood transfusion 18 because the fact that's --19 You're nervous? 20 -- I don't want a needle near me. 21 22 Sure. So I had -- I've been seeing a hematologist, a 23 Α hematologist put me on cancer drugs. Anybody who has to take 24 those shots it -- they hurt because my white blood count was 25

1	down so I had to take a shot for that and then I had to get a
2	shot for my red blood count to counteract that. It's it
3	hurts in the bones and I feel so sorry for cancer patients
4	when they have to go on this. It's just excruciating pain.
5	Q And so and so you had to do that you're
6	describing the last three weeks?
7	A The last three weeks. I was hoping to avoid
8	that because I was doing really good.
9	Q And you said that your I think the word you
. 0	used was remission?
1	A Remission, yes.
12	Q Has your doctor that treats you and that you
13	went through the interferon treatment with, are you are you
L 4	cured? Is this never going to come back for you?
15	A No. If I if I was cured I wouldn't be tested
16	once a year. So so it's in remission just like a cancer
17	patient would go because my mom had breast cancer so she
18	had to go for five years for testing to make sure her cancer
19	didn't come back. So it's almost the same thing.
20	Q You only have to go for five years?
21	A No. I have to go for the rest of my life.
22	Ç Okay.
23	A No, because it can come back at any time.
24	Q Yeah. It's just unpredictable.
25	A Yes.

1	Q Similar, I guess.	
2	A So it's like when I cut myself	
3	MR. WRIGHT: Objection, leading.	
4	THE COURT: Well, go on. It's all right.	
5	A So it's like when I cut myself I have to throw	
6	everything away. I have to make sure no one uses my	
7	toothbrush. I have to make sure that there's no one uses	
8	my toothpaste or my razors because I don't know if that	
9	particular day that if my hepatitis C came back. And I also	
10	do get tested for hepatitis B and HIV because you just don't	
11	know.	
12	BY MS. WECKERLY:	
13	Q Right.	
14	A I don't I don't know too much about those	
15	two.	
16	Q So, I mean, there are precautions you have to	
17	take in your household to make sure you don't infect someone	
18	close to you.	
19	A Yes.	
20	Q Now, Mr. Wright asked you about your your	
21	litigation and that was against the at least the maker of	
22	propofol and then you you said you weren't sure of some of	
23	the other entities; is that right?	
24	A Yeah, that's correct.	
25	Q Okay. Do you have a case that's pending against	
	ll .	

1	your HMO or healthcare provider?
2	A Yes, I do.
3	Q Thank you.
4	THE COURT: All right. Any recross?
5	MR. WRIGHT: Only on that last question because I
6	misunderstood.
7	RECROSS-EXAMINATION
8	BY MR. WRIGHT:
9	Q I thought all all your litigation was done.
10	A Oh, I'm sorry, sir. I have an HMO case
11	pending
12	Q Okay.
13	A — against Health Care of Nevada.
14	Q Okay. And did the the recent civil
15	litigation against Health Plan of Nevada a couple months ago,
16	were you a plaintiff in that trial?
17	A No, sir.
18	Q Okay. Then to and I mean, are you
19	familiar with the trial I'm talking about?
20	A No. I don't like watching the news or read a
21	newspaper. I'm I'm sorry, I just don't it's too
22	upsetting.
23	THE COURT: So your case hasn't gone to trial yet
24	THE WITNESS: No.
25	THE COURT: or your case? Okay.
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1	BY MR. WRIGHT:
2	Q Okay. Are are you aware that a case has gone
3	to trial against your HMO, HPN?
4	A Yes, through my mother.
5	Q Okay. And are you aware that that was
6	successful?
7	A Yes.
8	THE COURT: Can I see counsel up here?
9	(Off-record bench conference.)
10	MR. WRIGHT: Thank you, ma'am.
11	THE COURT: Anything else from the State?
12	MS. WECKERLY: No, Your Honor.
13	MR. SANTACROCE: Your Honor, I have a question based
14	on the redirect.
15	THE COURT: Oh. I'm sorry, Mr. Santacroce. Did we
16	also have any juror questions? No? Okay, Mr. Santacroce.
17	Go ahead.
18	RECROSS-EXAMINATION
19	BY MR. SANTACROCE:
20	Q Ms. Hutchinson, you testified that the side
21	effects I believe of the drug or the disease was memory loss;
22	is that correct?
23	A Yes, sir.
24	Q And can you tell me how that specifically
25	affected you, that side effect?
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1	A Short-term memory. I can you be more
2	specific when you what are you asking?
3	Q Well, I want to know what memory loss you
4	suffered as a result of this disease or treatment.
5	A Day to day. Sometimes if I have to pay a bill I
6	forget, or sometimes I forget where things I've put them,
7	or I have a date book that I write everything down that I need
8	to do so then that way I don't forget those things throughout
9	the day or throughout the week.
10	Q So is that a long lasting effect for you,
11	this
12	A I am not a doctor, so I can't answer that. But
13	for right new it's it that's what I'm experiencing.
14	Q About how long have you had it?
15	A I've had it probably for the last two years.
16	Ç So your memory was better three years ago than
17	it is today?
18	A Yes.
19	Q Before testifying here today, did you meet with
20	any representatives from the District Attorney's Office?
21	A No, sir.
22	Q Did you discuss your testimony with your
23	attorney?
24	A No, sir.
25	MR. SANTACROCE: I have no further questions.
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1	THE COURT: Anything from the State?
2	MS. WECKERLY: Can I have the Court's indulgence?
3	THE COURT: Sure.
4	MS. WECKERLY: No, Your Honor. Thank you.
5	THE COURT: Any juror questions for this witness?
6	All right, ma'am. Thank you for your testimony. Please don't
7	discuss your testimony with anyone else who may be called as a
8	witness in this case.
9	THE WITNESS: All right. Thank you very much. I
10	appreciate it.
11	THE COURT: Thank you and you are excused.
12	THE WITNESS: You have a good day.
13	THE COURT: And the State may call its next witness.
14	MS. WECKERLY: The next witness is
15	MR. WRIGHT: Your Honor, please, may we approach the
16	bench?
17	THE COURT: Sure.
18	(Off-record bench conference.)
19	THE COURT: All right, State, call your next witness,
20	please.
21	MR. STAUDAHER: State calls Pat Armour, Your Honor.
22	PATRICIA ARMOUR, STATE'S WITNESS, SWORN
23	THE CLERK: Please be seated and please state and
24	spell your first and last name for the record?
25	THE WITNESS: Patricia Armour, A-r-m-o-u-r.
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1	THE COURT: And your first name?
2	WITNESS: Patricia, P-a-t-r-i-c-i-a.
3	THE COURT: Thank you. Ms. Weckerly.
4	MS. WECKERLY: Thank you.
5	DIRECT EXAMINATION
6	BY MS. WECKERLY:
7	Q Ms. Armour, how are you employed?
8	A I am the laboratory manager at the Southern
9	Nevada Public Health Laboratory and we're a component of the
10	Southern Nevada Health District.
11	Q And as the laboratory manager, what are you in
12	charge of?
13	A I'm in charge of the operations of the public
14	health laboratory. Our laboratory performs bioterrorism
15	testing for Southern Nevada as well as reportable disease
16	isolate and clinical testing for the health district.
17	Q And as the laboratory manager, were you involved
18	in the investigation of the hepatitis outbreak that was
19	discovered in 2008?
20	A Yes, I was.
21	Q And what just generally at first, what role
22	did you play in that investigation?
23	A As a participant in the outbreak investigation
24	team that the health district has in place, I was involved in
25	the initial planning for the investigation, how we would go

1	about investigating the initial phone call or information
2	that we had received and as well as the entire process of
3	collecting samples, shipping samples and receiving results.
4	Q And in in this particular case, the Southern
5	Nevada Health District consulted with the Center for Disease
6	Control; is that correct?
7	A That's correct.
8	Q And they're based where?
9	A In Atlanta, Georgia.
10	Q Do you always consult with them in your
11	experience over the years?
12	A We typically will consult with them if we need
13	additional support or if we need some subject matter expert
14	assistance.
15	Q So in this particular case in 2008, you said
16	that you were part of or you were involved in obtaining
17	samples and shipping those samples to the CDC?
18	A That's correct.
19	Q And in $$ in the case of your work, did all
20	those samples actually pass through you to get shipped to the
21	CDC?
22	A Yes, they did.
23	Q How were how were samples collected from what
24	we would call like the victims in the case or or people who
25	got whose blood was later tested by the CDC?

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A So samples could could be collected in in
a couple different ways. We may have received samples from
commercial or clinical labs in the beginning stages of the
investigation. There was testing that was performed at other
laboratories and we were able to obtain those samples and have
them transported to our laboratory and then shipped to the
CDC. Or we collected samples using our licensed laboratory
professionals to collect the samples and and transport them
to the CDC.

Q And in — in the case of each individual victim, how many blood samples were actually collected?

A We attempted to collect two samples from every single person.

Q Were both samples then ultimately sent to the CDC?

A No. We -- we kept one sample in the laboratory so that we would have a backup in case there was some problem during transport, then we made sure that we had a backup to keep at the lab.

Q Now when you get the -- the sample, the blood samples of these individuals, are they labeled by the person's name or does your lab assign some sort of number to them?

A So the samples that come in to our laboratory, every sample that comes in to the laboratory comes with a name, first and last name. If it's coming from a commercial

laboratory it may have an additional identifier that the laboratory uses at that facility. And then when it gets to our lab we also assign it a unique identifier that's generated from our computer system.

Q And is there a reason why you use your own identifier or is it just to keep track of things?

A The identifier allows us to keep track of not only the sample but also the test results that will come back from the lab that's doing the test for us.

Q So once you got the samples that you needed, you were actually the person that packaged them and sent them to the CDC or oversaw that?

A I oversaw the shipping. In some cases I did the shipping as well.

Q And each of the different samples of the — the victims, were they packaged — how were they packaged to ensure no, you know, cross-contamination or any issues with contamination?

A So all the samples that came in to us were placed into a separate transport bag along with a test requisition. They were all individually packaged and they were all processed individually and they were all shipped individually.

Q So there were never two samples in a -- connected to one another?

1	A Correct.
2	Q And those were all shipped to the CDC?
3	A The samples that were shipped to the CDC, yes.
4	
	Q And then you retained a sample.
5	A Correct.
6	Q Once once the samples went to the CDC, did
7	your lab ever get them back or do they stay with the CDC?
8	A No, the samples stayed at the CDC.
9	MS. STANISH: No objection.
10	THE COURT: All right.
11	MS. WECKERLY: May I approach, Your Honor?
12	THE COURT: You may.
13	BY MS. WECKERLY:
14	Q Ms. Armour, I'm showing you what's been marked
15	as State's proposed Exhibit 15. Would you look through that
16	package of documents for me? Do you recognize those
17	documents?
18	A Yes, I do.
19	Q Are they part of your lab's work in association
20	with this investigation?
21	A Yes, they were. Those were spreadsheets that we
22	put together to keep track of the various numbers that we were
23	getting that were involved with the samples.
24	MS. WECKERLY: State moves to admit 15.
25	THE COURT: Any objection to 15?

1	MR. SANTACROCE: No.
2	MS. STANISH: No, Your Honor.
3	THE COURT: All right. Fifteen is admitted.
4	(State's Exhibit 15 admitted.)
5	BY MS. WECKERLY:
6	Q I'm going to zoom in because I cannot read that.
7	A Thank you.
8	Q Can you see your screen though in front of you?
9	A I can.
10	Q Okay. Okay. Let's this is the first
11	document in the packet. Can you read that or should I get it
12	bigger?
13	A No. I that's fine, thank you.
14	Q That's good?
15	A Yes.
16	Q Okay. And our first column here says patient
17	name, correct?
18	A Yes.
19	Q And can you just read the list of names that you
20	that are on there?
21	A Rodolfo Meana, Carole Grueskin, Michael
22	Washington, Gwendolyn Martin, Stacy Hutchinson and Patty
23	Aspinwall.
24	Q Okay. And this next column, what is that's
25	obviously their dates of birth?

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2	Q Okay. And just moving I'm going to just move
3	across the document a little bit. What does this next column
4	represent?
5	A The the column with the patient contact
6	employee or part-time employee, we were actually trying to
7	identify which samples we were collecting, what what their
8	involvement was. So in this case these were all patients.
9	Q Okay. And so that was like a way to just sort
10	of keep track of everybody?
11	A Correct.
12	Q The next the next column, what is that?
13	A Our office of epidemiology has a morbidity
14	record number, that's what MR number stands for. And that is
15	a unique identifier in the epidemiology tracking system that
16	was given to each one of these patients.
17	Q Okay. Now in this this column I'm pointing
18	at right now, it says Quest on on this person and Stacy
19	Hutchinson here at the bottom. Does that mean that was the
20	lab that collected the sample?
21	A That was the lab we initially contacted, yes, it
22	was.
23	Q About obtaining a sample?
24	A Yes.
25	${ t Q}$ And this next, is that or that would be the
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1	date?
2	A Well, that was the date that we thought a
3	specimen had been collected.
4	Q Okay. And then this next column, what is that?
5	A That is the accession number of the laboratory
6	that collected the sample. There's two numbers that are
7	there. Both of those are for Quest and we were actually able
8	to obtain those samples from Quest.
9	Q Okay. And then the ones that say no sample,
10	which looks looks like on two of them or three of them,
11	what does that mean?
12	A We were not able to obtain a sample that could
13	be used.
14	Q Okay. So you had to collect your own?
15	A Correct.
16	Q And then the next column?
17	A The next column would be the date of the
18	specimen that was sent to the CDC.
19	Q Okay. And the next column is the accession
20	number that you talked about?
21	A The next column is this our the laboratory
22	at our laboratory's accession number.
23	Q Okay. And that's your own internal numbering
24	system?
25	A Correct.

1	that was performed at the CDC.
2	Q And let's see if I can go to the end here. Can
3	you see that still?
4	A Yes.
5	Q Okay. What's the next column?
6	A The date we received the results.
7	Q And the next one?
8	A And the date results that the date that
9	office of epidemiology received results.
10	Q And I'm going to just flip to the the next
11	page. These are additional, sort of starting again, these are
12	additional people that were sampled in sort of the same
13	process that you just discussed?
14	A Correct.
15	Q And that's the names on these people are
16	Sonia Orellana Rivera, Kenneth Rubino and Sharrieff Ziyad?
17	A Correct.
18	Q And the columns across, if you looked at them
19	they would be the same?
20	A That's right.
21	Q And now flipping to the third page of the
22	packet, this is also a list of of patients, correct or a
23	list of victims?
24	A Yes.
25	Q Now is this document, does it have any
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1	additional information other the previous two that we went
2	through?
3	A Can you go all the way over?
4	Q Sure. Am I going too slow?
5	A It's the same information, we just didn't put
6	the date results received.
7	Q Okay.
8	A And the results
9	Q So it actually has maybe one one column less?
10	A Yeah.
11	Q But this this packet of documents essentially
12	memorializes how the samples were collected, whether you got
13	them initially from an outside lab, your own internal lab
14	collection, sending it to the CDC and the dates that it
15	actually got there and all of that.
16	A That's correct.
17	Q Were there other then these individuals, were
18	there any other samples sent to the CDC?
19	A There were a number of samples that were sent in
20	the initial stages of testing. We collected samples on the
21	employees of the facility and those samples were sent to to
22	the CDC for initial testing.
23	Q Okay. Any other potential patients that were
24	sent to the CDC or is this is this who you have?
25	A This is the list.

1	
1	Q Okay. Was there — was there an individual
2	whose blood that you you sent twice to the CDC?
3	A Yes, there was.
4	Q Okay. Tell us about that, that case.
5	A We had a sample that was sent to the CDC for
6	initial testing and the CDC contacted us and asked us to
7	please send the second vial that we had in our freezer, they
8	were having difficulty with getting the testing results with
9	that first sample.
10	Q And what was the name of that person whose
11	sample it was?
12	A I believe that was Patty Aspinwall.
13	Q Does Lakota Quannah sound familiar?
14	A Well, it could be Lakota. Yes, I think it was
15	Lakota Quannah.
16	Q Okay. So that individual's blood was sent twice
17	to the CDC because the first sample didn't for whatever
18	reason they couldn't get results.
19	A Correct.
20	Q And so the second sample went as well.
21	A Yes.
22	Q Other than that individual, was there any
23	anybody else's blood sent? You collected from the employees,
24	these people and then Lakota Quannah; is that right?
25	A I believe we also sent Patty Aspinwall's
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1	Q Twice?
2	A — twice as well.
3	Q And what was what was the situation with
4	hers?
5	A It was the same situation. They needed the
6	second vial to do additional testing.
7	Q So in her in her case you don't have a second
8	sample here, but in every other victim's case you do; is that
9	right?
10	A Yes.
11	Q So hers was sent twice because for whatever
12	reason the first blood they couldn't get results from it?
13	A I'm not sure exactly what was going on at CDC.
14	They asked us to resend the second vial so we sent it.
15	Q Okay. Thank you.
16	MS. WECKERLY: I'll pass the witness, Your Honor.
17	THE COURT: All right. Cross?
18	MS. STANISH: Pam, can I have that Exhibit?
19	MS. WECKERLY: Oh, sure.
20	MS. STANISH: I didn't see the first page.
21	CROSS-EXAMINATION
22	BY MS. STANISH:
23	Q Good morning.
24	A Good morning.
25	Q How are you? Are you a lab technician or what
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did -- I know you're a manager, but what's your training?
What are you?

A I'm a licensed medical technologist. I have a general supervisor's license with the State of Nevada and I've been licensed as a medical technologist for 40 years.

Q All right. And you stated that all these samples passed through you.

A Correct.

Q And when you say that, what are you talking about? I mean, just handling them, packaging them? I'm — that's what I wanted to have clarified.

A So the samples — when we talk about samples passing through the laboratory, we need to have a mechanism to track them and process them appropriately and they need to come into our facility so that we can handle them appropriately and also store them and transport them.

Q And you didn't necessarily -- I guess I should have just asked it this way. You're the supervisor, you didn't have to personally handle each and every one of these, correct? You have staff to do that?

A I have staff that does that, that was under my supervision. But in addition, I actually also assisted with the collection — the transport and shipping of these samples.

Q Understood. Did the health district itself collect blood samples from people?

1	A Samples were collected by licensed laboratorians
2	that are employees of the health district.
3	Q So I wasn't clear on that because I see that
4	your I should back. You're a certified clinical lab,
5	correct?
6	A I'm a laboratory, a medical technologist.
7	Q Oh, I'm sorry, not you. Your facility, it's
8	certified as a clinical laboratory?
9	A Our laboratory's licensed with the State of
10	Nevada.
11	Q And and that's what you mean by certified
12	laboratories, that they're licensed by the state?
13	A That's correct.
14	Q All right. And so some of these samples are
15	collected by people at Quest Diagnostic, correct?
16	A Two of the samples were collected by
17	laboratorians at Quest.
18	Q And then others are collected by LabCorp?
19	A There was a sample that was collected at LabCorp
20	but we did not send that sample to the CDC.
21	Q And why is that?
22	A The sample wasn't stored appropriately and so
23	therefore we recollected the sample.
24	Q And did you have what did you do to ensure
25	that Quest properly stored the samples?

1	A Quest is a licensed laboratory. They follow
2	their standard protocol and the samples were frozen. Our
3	courier transported the samples on dry ice from Quest. They
4	were placed immediately into our freezer at the lab and they
5	were transported on dry ice to the CDC.
6	Q And I'm going to put this chart this is
7	Exhibit 15, back on the can you see that because I have a
8	hard time seeing it here. All right. So Mr. Meana's sample
9	was collected by by what laboratory?
10	A That was collected by Quest.
11	Q And then when there is just to clarify a
12	point. When these boxes are left blank, that's your lab
13	that's doing the collecting in-house?
14	A Yes. We collected the sample because we were
15	not able to obtain one from another laboratory.
16	Q All right. So the people would have to come to
17	your office and blood would be drawn from there, is that what
18	you mean?
19	A That's correct.
20	Q It's not there's not other licensed
21	contractors?
22	A No. All the samples were collected by SNHD
23	employees who are licensed by the state.
24	Q And so any time we see a blank a blank any
25	time we see a blank here with a maybe just a couple

1	exceptions, that means those were done in-house?
2	A That's correct.
3	Q All right. So Meana is done at Quest. Stacy
4	Hutchinson is done at Quest. And Patty Aspinwall, was it
5	LabCorp and that's the one you had a problem with?
6	A We did not get the sample from LabCorp.
7	Q Oh. Well, it says LabCorp here.
8	A It does and then it says no sample over in the
9	other column.
10	Q And that's what you were talking about for Ms.
11	Aspinwall, it had to be redone?
12	A Correct.
13	Q By your by your lab?
14	A Correct.
15	Q The the dates of collection. And I'll just
16	use Mr. Meana as a sample. This is the his sample was
17	collected on December is that 27, I 27th, 2007?
18	A That was the original date that we had verbally
19	received that we thought there was a sample collected on that
20	date, on 12/27. And then we contacted Quest to verify that
21	that was the correct date.
22	Q Did you yourself do that?
23	A I actually did contact Quest to get in touch
24	to find out about these. And so that was the correct specimen
25	collection date was 12/27.

1	
1	Q Okay. And then you actually when do you
2	receive his sample, what day? Is that where?
3	A I don't believe we have that date on the sheet.
4	Q So basically we have to assume, I guess, that
5	you got it sometime before the date that you sent it to CDC?
6	And correct?
7	A That's right.
8	Q So in the case of Mr. Meana, it was the on
9	January is that seven?
10	A I can't see that.
11	MR. STAUDAHER: You can zoom it up.
12	BY MS. STANISH:
13	Q Can they make these fonts any smaller? Can you
14	see?
15	A Either a seven or a one. I can't see it from
16	here.
17	MR. STAUDAHER: Margaret, you can zoom in.
18	MS. WECKERLY: You can zoom in.
19	MS. STANISH: Pardon me?
20	MR. STAUDAHER: You can zoom in.
21	THE COURT: You can zoom in.
22	BY MS. STANISH:
23	Q All right. I can't do you think I can see
24	that from here? I can't. I'll just try to read off here,
25	that's all right.
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THE COURT: Okay. Yeah -- no, you can zoom it in so 1 2 it -- well, right --MS. STANISH: Well, she can see it --3 THE COURT: -- that won't -- that won't help you. MS. STANISH: -- but I can't see. It's me, not her. 5 THE COURT: That will help the rest of us but it 6 7 won't help you. 8 BY MS. STANISH: It's ckay, I'll just squint. Would you -- so 9 your assumption is that Quest or the other labs properly 10 stored this -- the samples for a period of time before you 11 12 received them? The sample that we received from Quest was 13 14 frozen --15 Okay. -- and it was transported frozen. 16 Right. So you -- you assume that they -- you 17 received it frozen so you figured it was properly stored. 18 We received it frozen. 19 Okay. And so these samples are coming in at 20 different times. Do you send them right away to CDC or do you 21 wait to accumulate more and then send them in those little 22 23 bags that you described? If you look at the column that says date 24 25 specimen shipped to CDC.

11	
1	Q Right. Wait, wait, let me find it.
2	A Over.
3	Q Over to the right? This way?
4	A Yes, over one more.
5	Ç Uh-huh.
6	A One more.
7	Q Uh-huh.
8	A Okay.
9	Q There it is.
10	A There's three dates. Three of them were shipped
11	on the 15th, the one was shipped on the first in the
12	beginning of January and then another one was shipped the
13	first part of February.
14	Q And so it looks like you shipped them soon after
15	they're collected with maybe the exception of oh, I see.
16	The ones that you your lab did, you're able to send them
17	almost the next day, correct?
18	A That's correct.
19	Q But if it's another lab it's going to be
20	different, it could be a few days.
21	A There may be a few days, yes.
22	Q Okay. And I should back up now and talk a bit
23.	about your the investigation that you participated in. I
24	understand you were involved in the initial planning stage,
25	correct?

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1	A That's correct.
2	Q And the you is it a fair statement to say
3	that you didn't have the expertise in-house to do this kind of
4	outbreak investigation?
5	MS. WECKERLY: Objection, I think that's a vague
6	THE COURT: Kind of vague, yeah. That's sustained.
7	BY MS. STANISH:
8	Q Okay. You think it's vague? You didn't get
9	that? Okay. You had mentioned when you were on direct exam
10	that you would rely on the CDC in certain cases, correct?
11	A Yes.
12	Q Just in general, you know. We know this is the
13	State of Nevada and the county, you don't do it all. But as I
14	understood your testimony and what I was trying to ask is that
15	I understood you to say that you will number one, consult with
16	the CDC if you need support; is that correct?
17	A Correct.
18	Q And you will also contact the CDC if you need
19	I wrote subject matter expertise.
20	A Correct.
21	Q So and I guess I'm asking you, in this
22	particular investigation, did you you obviously had to
23	contact the CDC for support because they had to do special
24	testing that you were not able to do in-house, correct?
25	A I'm not exactly sure

1	Q You you had to why did you contact the CDC
2	to help you?
3	A So I did not contact the CDC.
4	Q Okay.
5	A The outbreak investigation team in the planning
6	process, the office of epidemiology contacted the CDC. I was
7	a component of the team that was part of the planning.
8	Q Okay, I understand. So you're not the decision
9	maker, you're just one component of the team.
10	A That's correct.
11	Q And do you know if the epidemiology unit in the
12	health district of Southern Nevada, do you know, personally
13	know whether they have the expertise to conduct a hepatitis C
14	outbreak investigation, if you know?
15	A Again, I'm not sure exactly could you
16	rephrase that?
17	Q I'm just asking whether you know, based on your
18	knowledge, do you know if the CDC needed to be utilized
19	because the local office lacked the expertise in hepatitis C
20	investigations, if you know?
21	A I do not know.
22	Q Okay. You coordinate, you personally
23	coordinated with I suppose a counterpart in the CDC, correct?
24	A I coordinated with the hepatitis laboratory to
25	identify how to ship the samples and where to ship them to.

1	Q And who was by the way, who was the head, if
2	there was one, in in the Southern Nevada Health District
3	office, who was the head of the investigation?
4	A The there were the Southern Nevada Health
5	District is a large district and the epidemiology department,
6	Brian Labus was the epidemiologist that worked on the case.
7	But the Chief Health Officer, Dr. Sands was the Chief Health
8	Officer for the district.
9	Q But was the workhorse Brian Labus? Was he the
10	main one?
11	A Brian did the majority of the work for the
12	epidemiology department.
13	Q And am I right to assume that you had to
14	coordinate with Brian?
15	A I coordinated with Brian, correct.
16	Q Did Brian give you directions on how to handle
17	the the sampling or did that come from somebody else?
18	A The directions on how to handle the sampling
19	came from the CDC.
20	Q And did did you personally have any did
21	you personally have to communicate with the Las Vegas
22	Metropolitan Police Office during the course of your
23	involvement in this case?
24	A I did not communicate with the police department
25	during the course of the investigation.

1	Q And are you aware if anybody in your your
2	unit, the lab, are you aware if anybody else did?
3	A No one else that I'm aware of communicated with
4	Metropolitan Police Department during the investigation.
5	Q When did you first have any communication with
6	the Metropolitan Police?
7	A It was during the follow-up investigation that
8	they did contact us about receiving the reports for specific
9	people involved in the investigation.
10	Q And you say follow-up investigation. Can you
11	give me first off, what's the time frame for the follow-up
12	investigation?
13	A I have I really don't remember a time. We
14	finished when from when we finished our investigation
15	Q Okay.
16	A is that what you're asking?
17	Q I you know, I don't know what a follow-up
18	investigation is. But let maybe we we should do it this
19	way. When you're the lab person, a lab supervisor, your
20	main job is to get these samples that are collected by various
21	people to from point A to B. That's what your job is
22	basically, correct?
23	A Correct.
24	Q And you you strived to do that in accordance

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with the CDC instructions to you.

А	Yes.
Q	And when are you done with that that job?
А	Our portion of the investigation finished when
the final rep	ort was reported by the health district.
Q	Your investigation ended when the final report
was issued?	
А	Our component is part our our role in the
investigation	finished when the final report was finished.
Q	Okay. And do you know when that report was
finished?	
А	I don't remember the date.
Q	And when you say follow-up investigation, do you
what are y	ou talking about?
А	Any criminal investigation or civil that went
along with th	nis.
Q	Okay, criminal or civil. So you had to
participate i	n civil litigation?
A	I did.
Q	Now the civil litigation started really quick,
didn't it, af	fter the notices went out. The PI PI attorneys
were on it ri	ght away; is that correct?
MS.	WECKERLY: Objection, relevance.
THE	COURT: Sustained. Sustained. You need to ask
that question	n a different way.
BY MS. STANIS	SH:
	Q A the final rep Q was issued? A investigation Q finished? A Q what are y A along with th Q participate i A Q didn't it, af were on it ri MS. THE

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BY MS. STANISH:

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started?

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something I can remember.

I'm afraid I don't.

THE COURT: Does anyone need a break? Is everybody

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You were involved in civil litigation.

THE COURT: Well, she can answer. Overruled.

you an overview because I -- I -- I'm trying to understand

what you said earlier about being involved in a follow-up

investigation. I didn't know what that meant so I'm just

trying to clarify that. All right? And -- and I'm -- I

thought it would be helpful to put it on a timeline using the

time when your investigation ended, but that doesn't seem like

information to the civil litigants. Do you see my overview of

done this, so my reference or remembrance of time is -- is not

I'm trying to use little milestones. Civil litigation -- do

you know -- you don't remember when the civil litigation

I'm afraid -- it's been five years since we've

Well, that's why I'm trying to help you out, so

I -- it works that way. So I'm trying to establish little

milestones so that I can understand when the -- the health

district became involved or participated, providing

what I'm trying to understand here? Do you get it?

What I'm trying to get at just so -- I'll give

MS. WECKERLY: Objection, relevance.

okay? All right. I just saw some people looked uncomfortable
but and if anyone needs a break just, you know, raise your
hand, get my attention. Go on, Ms. Stanish.
BY MS. STANISH:
Q Do you know if you were what was tell us
what your involvement was in the civil litigation aspect.
A I did provide one deposition.
Q And do you know when that occurred?
A I don't remember the date.
Q Do you know what litigation who the party
was? What what which patient it was on this?
A I don't remember that either.
Q Okay. I think maybe I can refresh your memory.
THE COURT: Did you receive a subpoena to go to the
deposition
THE WITNESS: I did.
THE COURT: from one of the lawyers?
THE WITNESS: Yes.
THE COURT: Okay.
MS. STANISH: May I approach, Your Honor?
THE COURT: You may.
BY MS. STANISH:
Q If you can just read this to yourself. I want
to ask you what the date of the deposition was. I'll join you
up here so you don't feel so alone. Oh, here

1	A Okay.
2	Q All right.
3	A All right. Thank you.
4	Q Can you tell us what the date of the deposition
5	was now that you reviewed that document?
6	A It was April 7th, 2009.
7	Q And prior to that deposition, did you have to
8	provide information to civil litigants by way of subpoenas or
9	anything?
10	A I don't recall that I did.
11	Q Did you discuss paperwork in the deposition from
12	the lab?
13	A Again, 2009 I I believe there was paperwork
14	that was discussed during that deposition.
15	Q And with respect to the investigation relating
16	to the criminal case, you let's let's just use this
17	March 2000 I'm sorry, April 2009 date as a as a
18	milestone sort to speak. Because I'm like you, I don't
19	remember dates. I'm not sure what day it is today. Did your
20	did your office, you or anyone you supervise, get involved
21	in the criminal investigation before this date?
22	A Before the April 7th date?
23	Q Yeah, April 7th, 2009.
24	A No.
25	Q You yourself didn't?
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1	A Not that I recall.
2	Q All right. Is it was there someone else
3	under your supervision who worked with the outbreak team?
4	A No.
5	Q You've been with the district for how long?
6	A I've been at the health district for 10 years.
7	Q So you were at the time this occurred you had
8	been there for what, four years or so?
9	A Correct.
10	Q Oh, I do you know if if you know, these
11	like Mr. Meana's sample that was done by Quest, do you know
12	who actually drew the sample?
13	A I do not have that information.
14	MS. STANISH: Court's indulgence.
15	THE COURT: That's fine.
16	MS. STANISH: I think I'm about done. Am I done?
17	What do you think? No further questions. Let me put this
18	back together.
19	THE COURT: Mr. Santacroce, do you have any
20	questions?
21	MR. SANTACROCE: Yes.
22	CROSS-EXAMINATION
23	BY MR. SANTACROCE:
24	Q Ms. Armour, you mentioned a Dr. Sands in your
25	testimony. Do you recall that?

1	A Yes.
2	Q And what did Dr. Sands do?
3	A He's the Chief Health Officer.
4	Q And do you know his first name by any chance?
5	A Lawrence.
6	Q As I understand your function or your team's
7	function in this, you were to gather samples, blood samples,
8	patient samples and send them to the CDC. Is that basically
9	what you did?
10	A That was one component.
11	Q What's the other one or others?
12	A We also may have sent samples to the Nevada
13	State Public Health Lab for testing.
14	Q Okay. But the purpose was to collect samples
15	and send them somewhere, correct?
16	A That's correct.
17	Q And how did you identify what samples you were
18	going to collect? By that I mean what people?
19	A The office of epidemiology identified the
20	patients who had procedures on two specific days and we
21	identified that we were going to collect samples from people
22	who had procedures on those two days.
23	Q Did you collect samples from all the people that
24	had procedures on those two days or just some of them?
25	A Just some of them.

1	Q Do you have a list of those that you did
2	collect?
3	A That's correct.
4	Q Where's that list?
5	A The list is at the laboratory.
6	Q You don't have it with did you produce it to
7	the District Attorney's Office?
8	A $$ I we only produced the list for names that
9	had given permission to hand out, to provide results.
10	THE COURT: Counsel approach.
11	(Off-record bench conference.)
12	THE COURT: You know what, ladies and gentlemen, it's
13	been over an hour now and we're going to go ahead and take our
14	break. It reminds me, I did want to say to everyone, you
15	know, I try to break at least after at two-hour intervals.
16	If any of you feel that we're not taking enough breaks or the
17	breaks aren't long enough or you need more breaks or something
18	like that, just make sure you let the bailiff know at the
19	break, at this break, and he'll let me know. All right?
20	Before we take just about let's about a 10 minute
21	or so recess, I must admonish you again that you're not to
22	discuss the case or anything relating to the case with each
23	other or with anyone else. You're not to read, watch or
24	listen to any reports of or commentaries on this case, any
25	person or subject matter relating to the case by any medium of

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information. Do not do any independent research on any subject connected with the trial. Please don't form or express an opinion on the case. If you would all please place your notepads in your chairs and follow the bailiff through the rear door.

(Jury recessed at 10:26 a.m.)

THE COURT: All right. And ma'am, you can be excused or you can remain in the courtroom. Your -- any objection to the witness --

MR. SANTACROCE: Well, she's not excused from testifying.

THE COURT: No, no, I meant for the break.

MR. SANTACROCE: Okay.

THE COURT: Any objection to --

MR. STAUDAHER: No, Your Honor.

THE COURT: All right. Or you can stay, your preference.

All right. We took the break — I called counsel up to the bench based on Mr. Santacroce's line of questioning. I didn't know where he was going with that and I just wanted to make sure that he didn't get into questioning about other patients who were tested and had records at the Southern Nevada Health District. As everyone will recall, the State had issued a subpoena for those records and the health district, I believe they filed it as a motion to quash the

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subpoena, and that matter was litigated and the Court ruled that there was a statutory prohibition. This was done some months ago, that there was a statutory prohibition on the Southern Nevada Health District releasing those records based on patient privacy and other — was essentially the main issue. And the public policy goal of encouraging people to cooperate with the health district to promote the goals of, you know, public health and stopping the spread of infectious disease.

And so I ruled in favor of the health district on that and against the State. And so the reason I called everyone to the bench is I didn't know where you were going with that, Mr. Santacroce, but I wanted to make sure that you didn't somehow get into that or suggest somehow to the health district that they're hiding the ball or they didn't produce everything when that matter — you know, they had counsel here, it was Terry Coffing and that matter was thoroughly litigated in front of this Court.

So that was what I just wanted to make sure, you know --

MR. SANTACROCE: Well, I can assure you --

THE COURT: -- we didn't get into. And -- and that's why, I just want to make sure everyone remembers that was months ago, everyone remembers that and that certain records -- I don't know, you know, where we're going with this, but

certain records that the State had requested, the Court said, no, I rule in favor of the health district and they are not required to produce these records pursuant to Nevada statute so.

MR. SANTACROCE: Well, I'll tell you where I'm going with it but --

THE COURT: All right.

MR. SANTACROCE: -- I don't want to tell you with the witness in the courtroom.

THE COURT: Okay, that's fine. Ma'am, you can go ahead and be excused for the break. Anyway, I just wanted to make sure that we didn't go down that road. I don't think it's appropriate to question witnesses about records that the Court has excluded.

MR. SANTACROCE: Your Honor, here's my point.

THE COURT: All right.

MR. SANTACROCE: All I want to know are the names of the -- and the number of people that were tested on the two dates, September -- or September 21st, 2007 and July 25th, 2007. And by now the Court and everybody else in this courtroom knows the theory of my defense and it's absolutely essential for me to have those names in order to adequately defend my client. I need to know who was tested and what their results were.

THE COURT: Okay. Well, first of all --

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MR. SANTACROCE: And so I'm going to ask her -

THE COURT: -- you can ask her -- okay, the number of people tested and how they determined who to test and how they contacted the people, all of those things are the subject of fair questioning. Okay? What you can't get into is what those people's names were and -- like that. And Mr. Santacroce, you know, that was thoroughly litigated. I don't remember, maybe the State knows, maybe Ms. Stanish knows.

MR. STAUDAHER: Your Honor, can I -- can I weigh in on this just for a moment because I want to make sure that at least the record's clear on where we stood in regard to that. The only information that -- that I believe that we can even get into or Mr. Santacroce could get -- maybe this will be enough for him for what he needs to do, is that there are apparently approximately 10 names on each incident day that were lost to follow-up, that didn't get tested, whatever, for whatever reason. We already have the names of everybody. That's not the issue and defense has that. It was just who were those people.

THE COURT: Right.

MR. STAUDAHER: Now, we couldn't figure -- and that's what the health district would not give us information about and what the Court said we could not get into. But he certainly could find out that of the 65 people on one day, only 55 of those people were actually tested. I think

that's --

THE COURT: Right and that's fine. And you can say, ckay, well, what happened to the other 10 people and do you know, you know, were attempts made to contact them and why didn't they come in or what have you. You just can't say who they were.

MR. SANTACROCE: Okay. I got the rules.

THE COURT: So is that fine? I mean can you --

MR. SANTACROCE: I've got the boundaries.

THE COURT: Okay.

MR. SANTACROCE: If I cross them, check me.

THE COURT: All right. Well I just wanted to make sure we were all on the same page here because, as I said, you know, that was a — that was months ago that the Court issued that ruling and I just wanted everyone to be mindful that, you know, that — that was the ruling of the Court and I don't think it's appropriate to somehow suggest that the health district is inappropriately hiding information when there was a Court order that said health district, you are protected, you don't have to release this information. State, anything else?

MS. WECKERLY: The only other thing is I -- I'm not sure this witness knows that answer. I mean he can certainly ask. There are health district witnesses who do know the answer so --

THE COURT: Okay. And that's fine. Mr. Santacroce can ask her. If she doesn't know the answer, she doesn't know the answer. And like I said, I think that's perfectly appropriate to ask, you know, how many people were contacted. How many people showed up? How many people didn't show up? And, you know, what efforts were made to get those people there. I think that's perfectly appropriate.

MR. STAUDAHER: And one last thing. It has to go with — and I don't know if this is the implication now but I'm starting to feel as though that there's becoming a challenge to the chain of custody issue. We've actually discussed this well in advance of trial, is this going to be an issue in the case. So I don't know. It just was we were like, well you didn't test it at your lab, we didn't drag in all those people.

THE COURT: Mr. Wright's shaking his head so maybe we can circumvent this if they're not going to make a challenge.

MR. SANTACROCE: Are you implying I am?

MR. STAUDAHER: No. I'm just — I was starting to get a little concerned with your line of questioning —

MR. WRIGHT: No. I told you we're not --

MR. STAUDAHER: — that was going up there saying okay, there's about 10, 15 witnesses we need to bring in then if that's going to be the case.

MS. STANISH: No, no.

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THE COURT: All right. Well we can all take our break unless Mr. Wright — I made a note up here. You'd approached the bench at the conclusion of Ms. Hutchinson's testimony and indicated you wanted to place on the record something regarding I guess your conversations with Dr. Desai and the reason you didn't probe into certain areas on your cross—examination of Ms. Eutchinson; is that correct?

MR. WRIGHT: Yes, Your Honor.

THE COURT: All right. We can do that now.

MR. WRIGHT: Talking with Dr. Desai after Court, after the direct examination yesterday, after the direct examination yesterday regarding Stacy Hutchinson I could not get from him a — a good memory or recollection regarding the treatment and conversations with Stacy Hutchinson that she testified about when she returned to the clinic and talked to Dr. Carrol and Dr. Desai and Dr. — she stated that Dr. Desai said let me go get my boss, that exchange.

THE COURT: Right.

MR. WRIGHT: And Dr. Desai's recollection of the testimony yesterday seemed to me to be intertwined with Mr. Rubino and with Stephanie Castleman because she talked about Aspinwall and Martin. And so it — that was mixed up for lack of a better word in the information about Aspinwall and Martin, which came out of Stephanie Castleman, who's mixed up with what Stephanie Hutchinson actually testified to. And so

I -- I could not, through lack of recollection and being mixed up on direct testimony heard here in the courtroom, could not get reliable information from my client about that. So I did not touch it again and did not cross-exam or explore any further with her her testimony about her interaction with Dr. Desai.

THE COURT: All right.

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MR. WRIGHT: Thank you.

MS. WECKERLY: The only — the only thing I just would want to put on the record is after the direct of Stacy Hutchinson yesterday afternoon at the request of defense counsel, the Court broke so counsel could speak with Dr. Desai.

what occurred at the bench on the record. Mr. Wright approached the bench and indicated he would need about 20 minutes with Dr. Desai in order to go over Ms. Hutchinson's testimony before he began his cross-examination. It was 4:30 at that point, which would have put us obviously at 4:50. And one of the jurors, as we know, has childcare issues and has to pick up her child by six. And so rather than just take a 20-minute break and then come back for 10 minutes, the Court recessed at that point in time giving Mr. Wright the 20 minutes plus whatever additional time in the evening he wanted to utilize to discuss that with his client.

1	So if anyone needs to take a break, let's just do
2	that and we will go ahead and then come back and resume with
3	the witness's testimony.
4	(Court recessed at 10:37 a.m. until 10:43 a.m.)
5	THE COURT: Ma'am, come on up and have a seat back up
6	here at the witness stand. Also, whoever put the easel there,
7	that may be obstructing the jurors' view of the witness.
8	All right. Everybody ready? All right. Kenny,
9	bring them in.
10	(Jury reconvened at 10:46 a.m.)
11	THE COURT: All right. Court is now back in session.
12	Everyone can sit down.
13	And, ma'am, of course you are still under cath. All
14	right. Mr. Santacroce, you may proceed.
15	MR. SANTACROCE: Thank you.
16	BY MR. SANTACROCE:
17	Q Ms. Armour, there's been representations made in
18	this courtroom that the health district sent out some 63,000
19	notifications, give or take. Is that fairly accurate, do you
20	know?
21	MS. WECKERLY: Objection, foundation, if she knows.
22	THE COURT: If she knows. If don't speculate or
23	guess.
24	BY MR. SANTACROCE:
25	O Well, she either knows or she doesn't.

1	A I have no idea.
2	Q Okay. The two dates in question are July 25th,
3	2007 and September 21st, 2007. Are you aware of that?
4	A Yes, I am.
5	Q On those two particular dates, do you know how
6	many people were tested?
7	A I don't know the numbers of the on those
8	dates, no.
9	Q Is it fair to say that most if not all of the
LO	people on those dates were tested?
11	A I don't know.
12	Q You mentioned earlier before we took a break
13	that you have a list of those people that were tested at the
14	health district office, correct?
15	A We have a list of the people that the laboratory
16	tested.
17	Q Would it be fair to say that all the people that
18	were infected on those dates would be on your chart here, this
19	chart that you testified to earlier?
20	MS. WECKERLY: I'm going to object to the form of the
21	question.
22	THE COURT: If she knows.
23	BY MR. SANTACROCE:
24	Q Why don't I just hand you this exhibit. You can
25	look at it and you can answer my question if you can.

1	A The people on this list had positive hepatitis C
2	tests.
3	Q Okay. Except for two people, correct? Lakota
4	Quannah, that was not established that she was positive
5	because I believe you testified that two samples were sent to
6	the CDC and the results came back inconclusive; is that
7	correct?
8	MS. WECKERLY: Objection, foundation.
9	THE COURT: Sustained.
10	BY MR. SANTACROCE:
11	Q All the is it your testimony that all the
12	people on that list tested positive for hep C?
13	A The people on here have a hepatitis C test
14	positive listed for the results that we received for hepatitis
15	C and a body testing.
16	Q And the people on that list would be on the two
17	relevant dates, correct?
18	A That's correct.
19	Q And my question to you is if there were other
20	people infected on those two dates, they would appear on that
21	list, correct?
22	A If they had been tested by our facility.
23	Q Or another facility that you collected the blood
24	samples from.
25	A Correct.