

IN THE UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF MISSOURI
WESTERN DIVISION

MICHAEL TAYLOR,)
)
 Plaintiff,)
) Case No.
 vs.) 05-4173-CV-S-FJG
)
 LARRY CRAWFORD, et al.,)
) JUNE 5, 2006

TRANSCRIPT OF TESTIMONY OF JOHN DOE NO. 1

On Monday, June 5, 2006, the above-entitled
cause came on before the Honorable Fernando J. Gaitan, Jr.,
U.S. District Judge, sitting in Kansas City, Missouri.

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JOHN DOE NO. 1

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1 MONDAY, JUNE 5, 2006

2 THE COURT: I think one of the things we want to
3 do before we get started, Mr. Pritchett, I need for you to
4 state for the record that the individual who is present
5 today representing themselves to be John Doe No. 1 is in
6 fact that person who has been held out during the course of
7 this litigation to be John Doe No. 1.

8 MR. PRITCHETT: I will, Judge. The person here
9 today representing himself as John Doe 1 is the person we
10 have represented throughout this litigation as being John
11 Doe 1, the physician that is present during executions in
12 Missouri.

13 THE COURT: All right.

14 MS. ANDERS: I'd just like to note for the record
15 that I cannot see the doctor behind the screen and I cannot
16 tell whether he is consulting any documents, papers,
17 anything else, and I cannot observe his demeanor. And
18 plaintiff did not have any notice that that would be the
19 case.

20 THE COURT: I think it was implied, Ms. -- what
21 is your name?

22 MS. ANDERS: Anders, Ginger Anders.

23 THE COURT: Ms. Anders. It was implied in the
24 order. I'm sorry you didn't catch that implication.

25 And I'll say this, if the witness is referring to

1 documents, you may be free to ask him if he is referring to
2 documents and what documents they are. Okay?

3 MS. ANDERS: Thank you.

4 THE COURT: Rhonda, do you want to swear this
5 witness in and we'll get started.

6 JOHN DOE NO. 1, called as a witness on behalf of the
7 Plaintiff, being first duly sworn, testified:

8 MS. ANDERS: Before we start, has there been a
9 ruling on the protective order?

10 THE COURT: I'll rule on that at the end of this.

11 MS. ANDERS: Thank you. And I'd also like to
12 note for the record that plaintiff would respectfully
13 reiterate --

14 THE REPORTER: I can't hear you.

15 THE COURT: There is a microphone on the desk, or
16 you can step up to the podium to do your examination.

17 That isn't working? We have been having
18 microphone problems.

19 MS. ANDERS: So once more I will reiterate
20 plaintiff's objections to both the substantive and the
21 duration limitations on the deposition.

22 THE COURT: I guess if you reiterate, I
23 reiterate. How's that?

24 MS. ANDERS: Fair enough.

25 DIRECT EXAMINATION BY MS. ANDERS:

1 Q Doctor, my name is Ginger Anders and I represent
2 plaintiff Michael Taylor in this litigation and I'm here to
3 depose you today. So first I just wanted to establish a
4 few standard groundrules for the deposition. Have you ever
5 been deposed before?

6 A Many times.

7 Q So you're probably familiar with this. What types of
8 cases have you been deposed in?

9 A Criminal.

10 Q What types of criminal cases?

11 A [REDACTED] I was testifying in numerous
12 cases, death cases, murder cases. Federal cases.

13 Q Any other types of cases?

14 A Malpractice cases as an expert witness, plaintiff,
15 defendant -- not as plaintiff, but as a defendant on
16 malpractice as an expert witness many times.

17 Q Okay. So you will be familiar with these instructions
18 I'm sure.

19 A Yes.

20 Q But just to go over them once more, if you could speak
21 up for the court reporter, she can't see if you nod or
22 gesture or anything like that. Is that okay?

23 A That's fair.

24 Q And just tell me if you didn't understand a question.
25 If I may say something that isn't quite clear, please tell

1 me and I'll try to rephrase. Okay? Do you understand
2 that?

3 A Yes, I understand.

4 Q Okay, thanks. And please tell us if you need a
5 break. The only thing about that is I ask that if you to
6 need a break and a question is pending, that you answer the
7 question first and then we can take a break.

8 A Great.

9 Q And if you could also please answer my questions
10 before consulting with your attorney. You are certainly
11 allowed to consult with your attorney, but if there is a
12 question pending please wait until you have answered it
13 first.

14 A Great.

15 Q Okay. And I'd just like to say for the record that
16 I'm not here to try to discover your identity. I'm here to
17 ask you questions about the execution procedure and your
18 role in it, and most likely there will be a protective
19 order that covers parts or all of this deposition so it
20 won't be publicly available.

21 So if you could please list for me every document
22 that you have reviewed in preparation for this deposition.

23 A In preparation in the last 24 hours, or the last
24 thirty years?

25 Q For this deposition in particular.

1 A I met with Mr. Pritchett yesterday to discuss some of
2 the previous documents that we had and I reviewed them for
3 about an hour last night and that's all.

4 Q So you reviewed the documents in the possession of the
5 state and the Attorney General's Office?

6 A Yes.

7 Q Did you review any of plaintiff's filings in this
8 case?

9 A If they were with my documents, yes. But I do not
10 specifically remember any of those.

11 Q Okay. Thank you. I'd like to introduce a couple of
12 exhibits right now.

13 THE COURTROOM DEPUTY: Have they already been
14 marked?

15 MS. ANDERS: They have not been marked.

16 THE COURT: The court reporter will not be
17 handling the late marking of your exhibits. That's what
18 the courtroom deputy is here for.

19 MS. ANDERS: Okay.

20 THE COURTROOM DEPUTY: Is this No. 1?

21 MS. ANDERS: Yes, Exhibits 1, 2 and 3.

22 MR. PRITCHETT: Which order will they be in? The
23 first set, No. 1 --

24 MS. ANDERS: The first set will be Exhibit No.
25 1. The supplemental interrogatory answers will be Exhibit

1 No. 2. And the answers to the court's order, Document 148,
2 the court's interrogatories, that will be Exhibit No. 3.

3 THE COURT: Rhonda, why don't you take them to
4 the witness.

5 THE COURTROOM DEPUTY: All of them, or --

6 THE COURT: Yes.

7 THE COURTROOM DEPUTY: It will take me a minute
8 to mark all of these.

9 THE COURT: Well, they need to be marked if
10 they're going to be exhibits.

11 MS. ANDERS: Would you like a copy, Your Honor?

12 THE COURT: If you have an extra one, yes. If
13 you don't, don't worry about it.

14 MS. ANDERS: I do.

15 THE COURT: Thank you.

16 MR. PRITCHETT: Judge, if we get into questions
17 such as where did you graduate from school or what year or
18 specifically what -- when you received certain
19 certifications, pending your ruling I have asked the
20 witness to be generic in responses to those questions and
21 say to give a range of years or perhaps a general locality
22 as to what schools he may have attended.

23 THE COURT: I'll address those when we come to
24 them. Okay.

25 MS. ANDERS: Okay.

1 Q (By Ms. Anders) So, Doctor, you have just been
2 handed three documents. Have you seen these before?

3 A Yes.

4 Q And are these your answers to plaintiff's and the
5 court's interrogatories?

6 A Yes.

7 Q Did you prepare these answers?

8 A With Mr. Pritchett, yes.

9 Q Did you review them before they were submitted?

10 A I think I did.

11 Q Okay. I'm going to be asking you some questions about
12 some of your answers and I also probably will assume your
13 familiarity with some of the answers, so if I ask you about
14 a particular answer and you don't immediately remember it,
15 please just let me know and I can point you to the relevant
16 answer so you can refresh your recollection.

17 A Okay.

18 Q So I'd like you to take me step-by-step through the
19 process by which you mix thiopental solution for an
20 execution.

21 A Okay. What, where --

22 Q Just start at the beginning, assuming, since I have no
23 medical background I need a pretty basic explanation.

24 A Last year, ten years ago, thirty years ago?

25 Q The general process you have used for recent

1 executions and just how you'd instruct somebody if they
2 were going to do an execution in the near future.

3 A Oh, well, we were discussing this because pentothal
4 currently comes in a container that allows only the
5 container to be inserted into itself and mixed with a
6 specific volume. In order to demonstrate this to the court
7 we tried to locate the specific container. There is not a
8 single hospital, surgery center, or ambulance literally in
9 the state that still carries pentothal.

10 So what we were using is a formulary dose that
11 was provided by the drug company to allow the hospital to
12 bill individually to patients rather than using the large
13 multi-dose vial. It's not designed to be removed from its
14 container. So currently I have devised a method to mix the
15 pentothal with an improvised technique that allows me to
16 insert sufficient pentothal into one syringe so that a
17 nonmedical person can inject it in the dark.

18 Q And could you take me step-by-step through that, your
19 improvised process?

20 A I'd have to see the containers because I cannot at the
21 present time remember whether they have glass or -- they
22 are actually just two straight-walled glass bottles. One
23 has powder in the bottom, one has liquid in the bottom, and
24 they are designed to lock together and mix. So I have to
25 stick a needle through this plastic and inject my own

1 diluents which I know will give me no more than 50 cc's for
2 the final product, which is what I'm aiming for for the
3 final injection.

4 We have encountered problems trying to mix more
5 than three or four grams using this method, mainly because
6 of an inert substance possibly put in by the manufacturer
7 to prevent mis-mixing, which I know several drug companies
8 will do. So right now the last time I saw and talked to
9 the Director on each of these occasions saying we either
10 need to change what we say we're dosing or we will have to
11 go back to the original five-gram bottle that was available
12 when we instituted this procedure. So right now we're
13 still improvising. And he's also having me researching an
14 alternate drug if it comes to that.

15 Pentothal was chosen originally by the engineer
16 that designed the machine because it is a long-standing
17 drug. Every physician was familiar with it. It was
18 available all over the United States and it was not going
19 to be recalled off the market for any reason so it was
20 going to be available for a long time. All the drugs were
21 chosen on that criteria rather than some exotic -- and
22 again, it was done by an engineer, not by medical
23 personnel. We simply went along with its choices because
24 it made sense.

25 Q Okay. So let me step back for one moment, because I

1 don't have very much background in this. In previous
2 executions when you are preparing a dose of five grams of
3 thiopental, how did you accomplish that? How did you mix
4 it?

5 A The thiopentothal five-gram bottle is about the size
6 of a Coke bottle and it was designed for the
7 anesthesiologist to arrive at work in the morning, fill
8 this Coke bottle with five grams of pentothal and use 200
9 to 500 milligrams per patient for every anesthetic that she
10 gave that day. At the end of the day she could put it in
11 the refrigerator with her name and label and use it the
12 next day.

13 The hospital didn't like this because it allowed
14 for poor control. Left the drug out and so the hospitals
15 have gone to this 500-milligram unit dose bottle so they
16 can bill patients individually. And so they sign out a
17 specific drug to a specific patient and there's no extra
18 left over. And that's basically what -- the economics of
19 the medical use.

20 Q I'm sorry, I'm having a little bit of trouble
21 following. So did -- have you given five grams of
22 thiopental, prepared five grams for an execution since the
23 vial size was reduced to 500 milligrams?

24 A No. And we only used five grams because that's the
25 size of the bottle. Because the DEA requires a separate

1 disposal log of any drug not used and we would have to
2 create disposal records of drugs we didn't use, so we
3 simply use the five grams because that's how it was
4 supplied.

5 Q I see.

6 A If it had been a four-gram bottle we would have been
7 using four grams. The original protocol called for one
8 gram, and from my experience doing surgery inside prison
9 facilities, I was quite aware that one gram in chronic drug
10 addicts was an insufficient dose to ensure that they would
11 be sedated. So -- but a two-gram dose would cover 99
12 percent of all drug addicts and inmates. So we arrived --
13 initially with the injection machine I specified that it
14 had to be changed to two grams because the one gram could
15 be insufficient in some cases.

16 Q Okay. Thank you. I'm just going to introduce another
17 exhibit now.

18 Have you seen this before, Doctor, this document?

19 A This is a page taken from the log that was kept by the
20 prison.

21 Q Is this -- this reports the chemicals that are used
22 and disposed and their amounts in each execution; is that
23 correct?

24 A It's, I would have to say, an approximation, yes.

25 It's the -- the only thing that is significant on this as

1 far as I'm concerned is the amount of pentothal that is
2 used or disposed of. Potassium and pancuronium are not a
3 controlled substance. The DEA does not care what we do
4 with it, but they do want to see if we have a record of
5 pentothal used and pentothal disposed, and that's all it's
6 for.

7 Q I see. Thank you. If you could turn -- this has two
8 pages on it, right?

9 A Yes.

10 Q If you could turn to what is the back page, the lower
11 page, and if you would just look with me at the entry
12 that's dated 3/16. It says Stanley Hall on it.

13 A Yes.

14 Q And there does it say -- how much does it record under
15 the amount column for sodium pentothal?

16 A It says five grams.

17 Q And under the vial column?

18 A It says ten.

19 Q So I guess I'm still having trouble following. So
20 five grams were given to Stanley Hall; is that correct?

21 A It shows to be that five grams were taken out of the
22 cabinet. Whether we were able to give him the full five
23 grams or not, this record is not supposed to show that.
24 This is more of an inventory for the prison to keep track
25 of drugs.

1 Q I see. So you're saying that the five grams may have
2 been checked out --

3 A It was checked out, and I noticed when I finally saw
4 these records is that sometimes it would show different
5 amounts because after we tried to deal with it, I'm sure
6 what happened on this instance is we took ten bottles, we
7 opened them. I was unable to mix this. We show that we
8 gave the five grams because we have no provision for
9 showing that we disposed of three and gave two, or disposed
10 of two and gave three, because this has not been set up
11 that way. We either show we used it all or disposed of it
12 all.

13 Q I see. So even though there is no indication on this
14 form that any particular amount of pentothal was disposed
15 of, you're saying that you may have actually used less than
16 five grams in that --

17 A Yes, we may have injected less. We are still way over
18 the amount required to accomplish what our objectives are.

19 Q Do you remember how much you may have given during the
20 Stanley Hall execution?

21 A I don't remember specifically that, no.

22 Q Do you have any -- can you speculate as to how much,
23 based on your experience in these executions?

24 A Well, I need to back up a little bit. When I was
25 involved in the initial executions when the death penalty

1 was instituted, we were still looking at cyanide and when
2 the lethal injection came along, [REDACTED]
3 [REDACTED] I advised [REDACTED] that the
4 doses, the rate of administration was too slow with using
5 the injection machine. Therefore, we quickly converted to
6 hand injection like they've always used in Texas simply
7 because the machine cannot account for differences in flow,
8 differences in IVs, rates of administration. All of the
9 problems with lethal injection have nothing to do with the
10 drugs. They have to do with the quality of the IV, its
11 location and how fast the drugs are given. If you have a
12 poor IV, you're going to get a poor result. All of the bad
13 results are from poor IVs, not wrong doses of drugs.

14 When given two grams, 20 milligrams or so of
15 pancuronium and 100 milliequivalents of potassium, 100
16 percent of people will die from those injections.

17 Q Okay. And just for the sake of completeness, could
18 you look at the entry under the one we were just talking
19 about, which is 4/26. It says Donald Jones. Do you see
20 that one?

21 A Yes.

22 Q And that also says that five grams were checked out of
23 sodium pentothal?

24 A Yes.

25 Q And then the vials column, could you describe what you

1 see there?

2 A I see a 10 and I notice now it's marked out. I would
3 never have seen this once the execution was completed, but
4 I know now that someone initialed and wrote in that eight
5 had been used because apparently they checked the inventory
6 and based on their inventory, so we may have taken ten out
7 and put two back is the only thing I can speculate on that.

8 Q And do you remember how much sodium pentothal you
9 actually prepared for that execution?

10 A It could not have been over four grams, but whoever
11 wrote that in the log, and I can assure you that is not my
12 writing, said that I gave five grams. But again, I don't
13 know who wrote that in this log.

14 Q I see. Thank you. And then on the first page of this
15 log, I guess the top page, for 5/17/05, Vernon Brown, would
16 your testimony be the same, that five grams was checked out
17 but that's not necessarily how much --

18 A It shows five -- ten vials were checked out and ten
19 vials confirmed at inventory, so for some reason the ten
20 vials were either used or disposed of in this case.

21 Q I see. But do you remember whether you injected five
22 grams or not, or prepared five grams?

23 A Specifically in this instance, no, I do not remember.

24 Q But based on your previous testimony, do you think it
25 would have been less than five grams?

1 A It could have been less than five grams. My objective
2 though is still trying to -- again, the amount is not
3 nearly so important as the speed, route, concentration,
4 body weight, body fat. There are many, many other
5 factors. Pre-medication. All of these have much -- as
6 much or more effect as this total dose does.

7 Q I see. Thank you. So then if you could just take me
8 down to the next entry. I guess it's the entry after the
9 next one. 5/30 or 6/30.

10 A Yes.

11 Q So if you could just explain to me here. It looks to
12 me it says five grams under the amount and then under vials
13 it says six.

14 A That shows six, yes.

15 Q So that means that six vials were taken out?

16 A Six vials were confirmed at inventory.

17 Q And what dose is six vials?

18 A Under this system -- again, we have had several
19 different drugs. We have had different doses of
20 pancuronium. We definitely have had different
21 concentrations of potassium. So I don't know at what
22 point -- I'm dealing with what I see at the time and what
23 I'm required to mix to get this to work. So whether that
24 was a different manufacturer or whether we still had the
25 500 milligram -- it's my best recollection we had a similar

1 type of 500 milligram vial to work with at that time.

2 Q I see. And that's a pretty standard vial size; is
3 that correct?

4 A Until we get a different size, yes.

5 Q Okay.

6 A Right now nobody is using it, so I don't know if we're
7 going to have this available, but we are going to make
8 attempts to get that or some other size that we can work
9 with.

10 Q Okay. So if you could just -- if we could just go
11 back to the Gray execution which we have been talking about
12 in this case as an execution in which you prepared five
13 grams of thiopental.

14 A Which date was that?

15 Q That was on 10/26/05. That's the second to the last
16 entry in the chemical log. I was just going to ask you a
17 few questions about it.

18 A Yes.

19 Q Are you aware that your counsel represented to this
20 court on May 17th that five grams of thiopental had been
21 prepared and given for each execution, including Mr.
22 Gray's?

23 A He may have.

24 Q Assuming that he made that representation, was that
25 accurate?

1 A By seeing this log, it probably was not accurate.

2 Q Do you have any idea why he may have made that
3 representation at the time?

4 A I can give you a very good reason.

5 Q What is that?

6 A Well, when I was requested to come back and get
7 involved with the execution process, my main objective was
8 and I was charged by the Director, they had had a very
9 difficult execution in which the inmate took approximately
10 25, 30 minutes to expire which caused a flurry in the press
11 and embarrassment to the prison. And my job as a surgeon
12 was to ensure that they had an adequate IV.

13 Secondarily, I was also involved in adjusting the
14 doses and keeping -- making sure that these personnel were
15 able to give the doses rapidly in the dark by nonmedical
16 personnel. So my objectives were to keep the syringes
17 consistent, the labeling consistent, and the timing
18 consistent, which is very, very important.

19 And in that process I was more concentrating on
20 how and why the drugs work, because we really had nothing
21 to go by. If you go back in the history of executions, the
22 hangman had to refer to a chart for size of rope, length of
23 drop, weight of inmate to determine whether a hanging was
24 accomplished. So since there was no other source, and I
25 was the only physician involved in any executions, I think

1 it fell to me to determine if we were doing an adequate
2 job.

3 So under this protocol that I devised for
4 nonmedical people to do the injecting, we would inject
5 the first syringe of pentothal and the inmate would be
6 unconscious in 15 seconds with no cardiovascular
7 depression.

8 He would then give the pancuronium, which
9 requires the heart to still be beating and it has to
10 circulate for at least one minute, which is the time a
11 nonmedical person has to change syringes. As this
12 circulates, it paralyzes all voluntary muscles. If you
13 give it too quick or your timing is off, you're not going
14 to get the right effect.

15 Then the two vials, the two ampules of -- or two
16 syringes of potassium chloride were sufficient for a person
17 under 300 pounds to stop cardiac activity. Otherwise, you
18 have to wait 15 minutes for cardiac activity. But the
19 person will be paralyzed in 15 seconds as the dose goes in
20 and the effective heart beat will stop within 15 seconds.
21 We wait another minute or two so all electrical activity is
22 stopped so no one will question.

23 So my concern is to follow that type of schedule,
24 so I am -- and I'm quite aware in other jurisdictions that
25 they would -- they can't get the five gram and they have

1 also used two grams, and I knew and was figuring at that
2 point in time that a five-gram dose might be criticized as
3 being excessive. I knew it wasn't, but again this being
4 reviewed by nonmedical personnel who would look for any
5 reason to criticize. So I was totally comfortable with --
6 especially when we're dealing with this difficult drug, to
7 say -- and by 10/26 I said get out five, I'll give 2.5, and
8 again observed that within 15 seconds the patient was --
9 the inmate was unconscious, and there was absolutely no
10 change in the timing.

11 My main objection is, my obligation to the
12 director is, he is able to go out and does not have to
13 explain to the press why did this happen, why didn't this
14 happen. As long as protocol is followed, death has
15 occurred within two to three minutes 100 percent of the
16 time and the witnesses are totally unaware even when and
17 how the injections are given. There is no reaction.
18 There's no grimacing. There's no writhing. There's no
19 pain. There's no feeling whatsoever. It is a very calm
20 procedure. And that's what I'm trying to maintain.

21 Q Okay. Let me just unpack a few things in that
22 answer. Let me just go back for my benefit. So I think
23 you testified that the DOC requested that you come back
24 after a particular execution; is that correct?

25 A Yes.

1 Q And what was the reason for that?

2 A The inmate was a drug addict and they could not get an
3 IV line in. They finally put the needle in his thumb, and
4 you cannot give these drugs through the thumb and get the
5 result you expect, so it was a prolonged execution which
6 caused a lot of embarrassment and it should not have
7 happened.

8 Q Do you remember which execution that was?

9 A I do not. I was not there.

10 Q About what year was that?

11 A At least ten years ago, possibly.

12 Q And I think you also stated that you devised the
13 current procedure as it has to do in the past ten years or
14 so since your participation?

15 A Again, I was the only physician available anywhere to
16 ask about how and what. No one has any experience with
17 this drug and currently no one has experience with these
18 drugs anymore simply because other drugs are currently
19 being used, so I have to be the authority, I guess. [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 Q I see. So you came up with the current procedure?

23 A Yes, I did.

24 Q Did you consult anybody in the course of doing that?

25 A I just said no one else knows anything about this.

1 Q Okay. Thank you. And so when you devised the
2 procedure, I think you said that your goal was to have
3 death occur quickly and very --

4 A Painlessly. With no apparent suffering that the
5 public can observe, which they will make the most of.

6 Q I see. Thank you.

7 So I think you also said that it has been a
8 relatively -- strike that. I'm sorry. I think you
9 testified that since the vial size of thiopental has
10 changed to 500 milligrams it has been consistent that you
11 haven't mixed five grams and haven't -- and five grams
12 hasn't been injected; is that correct?

13 A The total dose to me was insignificant. My focus was
14 on the objective of making it -- and if you look at the
15 times of injection and time of -- the amount -- the timing
16 of the injections and the time that death occurred, there
17 is no visible difference in any of these. You cannot tell
18 from the dose given.

19 Q I see.

20 A There's no way to tell.

21 Q Sure. Could you look, please, at your answers to the
22 first set of interrogatories. It's on page 24. This is
23 Interrogatory No. 63.

24 A Page 24.

25 Q Your answer there is at the bottom of the page. And

1 could you just read that answer for me.

2 A "John Doe 1 states that this entry means that 2.5
3 grams of sodium pentothal was prepared and administered at
4 this execution. John Doe 1 adds that he/she did not
5 initially recall having prepared a smaller dose of sodium
6 pentothal than usual at this execution. John Doe 1 states
7 upon further thought and review of the drug log that he/she
8 recalls that he/she prepared a smaller dose because it
9 comes to his/her attention that other jurisdictions
10 considered a dose of sodium pentothal as large as five
11 grams to be larger than necessary and John Doe 1, based on
12 his/her medical judgment concluded 2.5 grams of sodium
13 pentothal was more than adequate."

14 Q So you stated here that you initially did not recall
15 that you prepared a smaller dose; is that correct?

16 A Yes.

17 Q Was that accurate at the time that this was written?

18 A Yes.

19 Q Okay. Do you have any idea why you might not have
20 recalled initially that you prepared a smaller dose, given
21 that it was relatively consistent that you prepared a
22 smaller dose than five grams?

23 A I can save you a whole lot of time and offer my
24 apologies to the court, but last night I was trying to pay
25 my cable bill and I had two hours. I realized I had copied

1 my account number by dropping one digit and transposing
2 two. In surgery, that's not important. But I am dyslexic
3 and so I can recall in the operating room specific facts
4 and details of operation and function perfectly, but in
5 terms of copying one line to another or trying to simply
6 copy a phone number or account number I will sometimes
7 transpose numbers even when I'm staring at the two
8 numbers. So it's not unusual for me to make mistakes.

9 But in the operating room where I have no notes,
10 no letters, just my mental files which are extensive, this
11 -- and I am capable of doing 20 to 25 operations a day when
12 I go on these medical missions, without any errors. But I
13 am dyslexic and that is the reason why there are
14 inconsistencies in my testimony. That's why there are
15 inconsistencies in what I call drugs. I can make these
16 mistakes, but it's not medically crucial in the type of
17 work I do as a surgeon.

18 Q Okay. Thank you. I'm just trying to get it all
19 straight for --

20 A Well, I may contradict myself again.

21 Q I understand. We all do sometimes. So looking at
22 this answer again, it states that you prepared only 2.5
23 grams because it had come to your attention that other
24 jurisdictions considered a dose of sodium pentothal as
25 large as five grams to be larger than necessary and based

1 on your medical judgment you concluded that 2.5 grams was
2 more than adequate. Is that correct?

3 A All other jurisdictions use two grams, period.

4 Q And what is the source on which you base that?

5 A Direct communication with states involved in
6 executions.

7 Q Have you communicated with California?

8 A Yes.

9 Q I think California uses five, or used, but I could be
10 wrong on that.

11 A No. I just talked to them a month ago when they had
12 this fiasco.

13 Q If I could just ask what you meant by necessary in
14 this answer, when you said larger than necessary.

15 A It's adequate, but excessive dose has no bad effects.
16 I mean, I could possibly give as much as ten grams, that
17 would really be over-kill but it would not really -- the
18 drug was chosen because it doesn't cause cardiac vascular
19 depression so it means you can give a lot of it and your
20 heart will still beat fine. So that's why this drug was
21 given because the muscle relaxant requires heart beat and
22 blood pressure to be effective. If you gave a drug that
23 had a chance of stopping the heart beating, of course you
24 expect that at an execution, but then you could not give
25 the muscle relaxant and the other drugs because they

1 require a heart beat to circulate and be effective.

2 Q When you said 2.5 grams was adequate, you mean
3 adequate to cause unconsciousness?

4 A One gram will cause 90 percent of the population to be
5 unconscious. The extra gram is for that small percentage
6 of drug addicts that had excessive drug use, they produce
7 enzymes in the liver that allows them to metabolize
8 pentothal at a much more rapid rate.

9 The problem with all of these drugs is if you
10 give the dose and you do not get the effect you need, you
11 cannot simply add more drug to get the dose. You must
12 repeat the entire dose. So if you had chosen a two-gram
13 dose just theoretically, and you gave it and a person did
14 not become unconscious, rather than giving another 500
15 milligrams, most likely you would have to give another full
16 two-gram dose. So we have -- I had to adjust the doses to
17 guarantee that we would not have to redose anybody. So
18 that's as much a reason why these numbers were chosen.

19 Q I see. I'm sorry. And if you gave two grams
20 initially why would you then have to give another full two
21 grams after that?

22 A That's the way all drugs work. You can't simply add
23 more to it to get what you want. You must repeat the
24 entire dose because the body -- as far as the body is
25 concerned, that drug is completely gone. If that person,

1 you gave him two grams and he's awake, there is no
2 pentothal circulating in his body, so you must give another
3 full two grams or more if you want an effect. You can't
4 simply add to the dose you have given. It doesn't
5 accumulate.

6 Q I see. And then do you recall that in interrogatory
7 answer submitted on May 25th, these were in response to the
8 court's interrogatories, you stated that you had prepared
9 only 2.5 grams because you had difficulty dissolving more
10 than 2.5 grams?

11 A Upon seeing the drug log and inventory, yeah, then I
12 did remember. But I have a lot of other things I'm
13 involved with and busy with and doing out of the country
14 long periods of time. So, yes. And one of the problems
15 with being dyslexic is you have to be confident in what
16 you're doing at the time, so I was fairly confident that I
17 had mixed five grams. Then when I saw the drug log and the
18 inventory, obviously that is when I made the change. But
19 at that point in time I could remember the details of what
20 was involved in that and how I had to try to mix it. But
21 for the most part I would have answered five grams had I
22 not seen the log and the inventory and realized they were
23 inventory of what was left.

24 Q Okay. Thank you. So just going back to the Gray
25 execution once again. So you encountered a problem during

1 the mixing process.

2 A As soon as they went to the ten vials, yes. I go to
3 the execution chamber and we're on a time frame. I have
4 minutes to get the drugs ready, minutes to ensure a perfect
5 IV. There's no time to call the drug company at midnight,
6 the Director or nursing staff to change. I am required to
7 deal with what I am given and make it come out right and
8 make this -- make it happen I guess is best way to say it.
9 And since, when I analyzed what I was dealing with, I had
10 more than enough to make everything happen according to
11 what they were expecting to happen so there was no reason
12 to break protocol or call a delay or call the Director or
13 something because he was counting on me to keep my end --
14 do my part and there was nothing in there that I saw that I
15 couldn't do it. I was able to modify what I was given and
16 he was totally unaware that there was any change in dosage,
17 because the timing was exactly the same. And he's almost
18 to the point of counting on this predictability and the
19 reliability of our method.

20 Q So how much pentothal did you set out to mix for the
21 Gray execution?

22 A Independently I don't remember. All I have is this
23 log of the person that says it came back in inventory. And
24 again, to me, that was not as important as the fact that I
25 had enough to effect a loss of consciousness in 15 seconds,

1 and in fact I do remember when we used only the 2.5 -- and
2 that is my handwriting that shows five vials and 2.5 -- the
3 inmate was unconscious in 15 seconds and we didn't change
4 the order of rotation, size of the syringes or the guards
5 that are actually doing the injections.

6 Q And do you remember about how long you had to mix the
7 drugs?

8 A We have about a ten-minute window to make a decision.

9 Q Was that the case with the Gray execution as well?

10 A It's always.

11 Q Okay.

12 A We arrive approximately an hour before. We have to
13 prepare the central line tray, get all these drugs from
14 their different locked sources, get all the tubing

15 arranged, the EKG monitoring, the IV tubing, mix all the
16 different solutions and flushes, so while we're not rushed
17 or stressed we definitely don't waste any time. Because we
18 arrive, we have experience, everybody knows what to do.
19 They get the job done. And for that reason I am the one
20 that always mixes the pentothal because it's very difficult
21 for someone who is not used to this to accomplish it.

22 Q Sure. So you took about ten minutes during the Gray
23 execution. At the end of that ten minutes were the 2.5
24 grams fully dissolved?

25 A Yes.

1 Q And on what do you base that?

2 A I would not have proceeded had it not. I would have
3 modified, added more solution, transfer it to another
4 container, do whatever was required. Had I had to switch
5 to two syringes, then there would be a problem with the
6 timing. Then I would have notified someone and said, hey,
7 we're going to have a problem, it's going to take twice as
8 long to inject the first drug. I made the decision that I
9 could have sufficient in the same syringe, the timing of
10 the execution would be exactly the same, and for the people
11 doing the injecting, I didn't have to change their
12 understanding of what they had to do, that they had to do
13 this one -- the people who do the injections are nonmedical
14 and they're in the dark so they have a small flashlight
15 that they're able to quickly identify the syringes, make
16 the appropriate connections and injections, disconnect,
17 clamp the tube, and changing the number of syringes or the
18 order of syringes was an unnecessary risk.

19 Q I see. So did you consider using two syringes?

20 A No, because I was able to get 2.5 in one syringe.

21 Q So you didn't consider it an option to fill two
22 syringes each with --

23 A I could have done whatever was needed, but had I
24 changed to two syringes, then I would notify somebody that
25 this is going to be different. There was going to be a

1 delay, because we have to add an extra syringe to the
2 process. Since I was able to get 2.5 -- and I knew two
3 grams was more than adequate. Actually had I gone down to
4 one gram I would have notified somebody. But as long as I
5 was within the 2 to 2.5 range and I could get it all in one
6 syringe, they didn't want to be bothered, because as far as
7 they were concerned this was going to go as smoothly as it
8 always had.

9 Q So you didn't want to add another syringe because it
10 would increase the amount of time to do all the injections?

11 A It would confuse the nonmedical people giving the
12 injections. These are nonmedical people. They're either
13 guards, wardens, whatever, whoever they designate to do the
14 injecting. That's the first time probably in their life
15 they have picked up a syringe, and it's a Luralock twist
16 connector and then they have a separate clamp where they
17 have to clamp and unclamp the tubing, so it's a little
18 stressful for them to be doing this and still have to do
19 these manipulations. I mean, I can do it in my sleep, but
20 for them it's a job. So I had to keep it -- my objective
21 there was keeping it consistent so nonmedical personnel
22 could understand what they were doing and it wasn't any
23 different than they had seen it done before or they had
24 done it before. That was my priority.

25 Q I see. And so for the Gray execution, how many cc's

1 of thiopental solution did you end up with?

2 A I think I wound up with 40 cc's, from memory, 40 cc's
3 of 2.5 grams. Again, speed and route is as equally
4 important as a lot of other things. So if you have 2.5 and
5 you can get it in 40 cc's -- again, there's no way to know
6 what the final result is going to be, so I had 2.5 in 40.
7 It made no sense to add another 10 cc's of nothing when I
8 had it all dissolved in a 40 cc syringe, which basically
9 again is one dose, and save time on injecting.

10 Q It's my understanding that the syringe holds
11 60 cc's; is that correct?

12 A Actually it holds 70, but some are marked 50, some are
13 marked 60, so therein lies the confusion of whether we use
14 a 50 or 60 or 70 cc syringe. I could put 70 cc's in all of
15 these syringes, but the markings go either to 50 or 60.

16 Q I see. And you didn't consider dissolving more
17 thiopental and additional --

18 A No, because we had more than enough. And by this time
19 I was more than -- after several other experiences and also
20 dealing with other states and communicating with them, and
21 also realizing their responding outside pressures, I was
22 entirely comfortable that anything over two grams was more
23 than enough for any execution, provided that the inmate did
24 not weigh over 300 pounds.

25 Q Sure. And just so that I'm clear, is there also a

1 flush solution with Heparin in each syringe?

2 A I do that simply because it guarantees that there will
3 be one minute between the injection, so part of that has to
4 do with getting a rhythm for the individuals giving the
5 injections and it allows the other one to flush and
6 circulate sufficiency to have an effect.

7 Q I'm sorry. I am having trouble following. You say it
8 guarantees one minute between injections. What do you
9 mean?

10 A It takes a minute to clamp, unclamp, grab another
11 syringe, reclamp, unclamp and start injecting. So, yeah,
12 then they inject a flush and then after they flush they
13 clamp, unclamp, unhook the syringe, then grab another
14 syringe of the next drug and then start injecting that, so
15 you can't -- if you rush, you can do it in two and a half
16 minutes. If you take it slowly, you can do it in about
17 three minutes. So there's so many physical clampings and
18 unclampings that it takes a set amount of time to do the
19 injection. I take that into consideration when I prepare
20 the solution.

21 Q So you're aiming for about one minute --

22 A They can inject a syringe in 30 seconds and it takes
23 them 30 seconds to reconnect another syringe after they've
24 flushed.

25 Q I see. And I'm still having trouble following. I'm

1 sorry. I think there are six syringes total?

2 A Just an approximation.

3 Q Okay. So if there's six syringes total, I'm sorry, so
4 is it about two syringes per minute, is that right, to get
5 it done in three minutes?

6 A The guards understand this. They just simply pick up
7 the next syringe and give either half or the entire amount,
8 and it takes about three minutes because the time of death,
9 as you see from the logs, occurs at three to five minutes
10 that we announce and that's the time when electrical
11 activity is completely ceased so we have stopped injecting
12 for at least two minutes at that time.

13 Q I see. And which syringes do they give half of?

14 A One of the flush.

15 Q Is there just one flush syringe?

16 A Two flush.

17 Q Okay. Thank you.

18 A They are colored differently. We added a coloring
19 agent so they are easy to identify in the dark. We use a
20 methylene blue solution so they are a bright blue color
21 even in the darkened room where we're working so they can
22 easily identify them. Even though they're labeled, they
23 are also a different color so they know which syringe
24 they're injecting even if they can't see the labels.

25 Q I see. And there isn't any methylene blue in the

1 nonflush syringes?

2 A All the flush is blue so they can immediately identify
3 them in the dark.

4 Q And the methylene blue goes in the flush solution with
5 Heparin; is that right?

6 A Yes. The Heparin is probably redundant simply because
7 the newer catheters we receive are Heparinized catheters
8 and probably wouldn't clot for a twelve-hour period if we
9 absolutely gave nothing through them. So it's just an
10 extra safety factor. We don't want anything to go wrong,
11 so I have prepared for every possible failure in the way I
12 mix the drugs.

13 Q Sure. And when you put the -- some of the flush
14 solution with Heparin into the syringes that also has some
15 of the chemical in them, does the flush solution at that
16 point already have some of the methylene fluid in it, or do
17 you add it later?

18 A No, the flush solution only goes in after we have
19 mixed the other ones so there's no cross-over.

20 Q I'm sorry.

21 A Only the flush solution is blue. All the other
22 drugs -- the pentothal it yellow. The pancuronium and
23 potassium are clear. So they can easily identify the
24 yellow from the blue from the clear. And the two clear
25 are separated by a blue syringe in between so they can't

1 get mixed up.

2 Q And when you add flush solution to -- I'm sorry. Let
3 me step back. I think you said earlier, just a bit earlier
4 that you add some flush solution with Heparin to the
5 syringes containing each of the chemicals; is that correct?

6 A No.

7 Q I'm sorry. I think you said a little bit earlier that
8 you improvised a method for dissolving the thiopental.

9 Could you explain that to me again?

10 A Well, it depends on what they hand me, what kind of
11 corks, what kind of needles, what kind of glass bottles
12 they're in. I could dump it in an ashtray and pour water
13 in it and suck it in a syringe, that would be one way to do
14 it, but I'm trying to do it in a sterile fashion and
15 medical fashion. So I'm able to put a needle around the
16 plastic stoppers and inject solution into the powder and
17 then aspirate it through that same 50 cc syringe. I'm able
18 to do that five times on five separate bottles without
19 spilling too much and getting assured that I have 2.5 grams
20 in my final solution after I have shaken up those five
21 vials.

22 Q I see. And maybe if you state it more simply for me,
23 because I'm still not getting it. So you start out with
24 the syringe and a bottle. And is the thiopental powder in
25 the bottle or in the syringe?

1 A The thiopental is in bottle, but it's not a bottle in
2 the sense -- it's a straight cylinder tube with a plastic
3 cork that is designed to lock on to another plastic cork
4 that contains water. As the two mix, then it goes out the
5 other end and there's a needle built into the system, so if
6 they use their system we would be required to break the
7 needle off of either five or ten bottles and then connect
8 these broken needles individually into our injection system
9 and inject each of those individually, it would -- we would
10 have 250 -- it would take five to ten minutes for these
11 people to inject that as it's prepared, which is three
12 times longer than our entire process takes. It's
13 unacceptable.

14 Q So what you're just describing was the way that you'd
15 have to do it if you used --

16 A Five bottles into --

17 Q I'm sorry. Let me step back for a minute. What you
18 just described was what you'd have to do if you mix the
19 stuff in a way that --

20 A The mixing is --

21 Q I'm sorry. Just for the sake of the record, if you
22 could just wait until I'm finished.

23 A Yes.

24 Q Sorry. So the thiopental mixing process that you just
25 described where you have to break the needles off, that's

1 what you would have to do if you used the mixing process
2 that the manufacturers intend in their packaging?

3 A Yes. They contain each about 100 milliliters of
4 solution, so the total injection would be five or ten times
5 100. If we injected five grams or 2.5 it would be five
6 individual injections. The problem is this broken needle
7 is about one-fourth the size of our tubing. It does not
8 have a locking mechanism so if you inject forcibly you can
9 actually blow the connections apart. It just is totally
10 nonacceptable for nonmedical personnel to deal with a drug
11 designed for an anesthesiologist on a busy schedule.

12 Q Okay. So what technique have you developed to avoid
13 that situation?

14 A As far as the inmate -- as far as the guards doing the
15 injection, they can't tell there's any difference because
16 they still walk in and there are six syringes the same
17 color in the same block as it's always been, and there's
18 more than adequate drug to accomplish our goal.

19 Q Right. So how do you mix the thiopental then to avoid
20 the situation you were just describing where you have to
21 break the needles?

22 A I simply use one of the 50 cc syringes and go to each
23 individual bottle and I start with about 30 cc's in the
24 syringe and inject it into each bottle, shake it until it's
25 dissolved, withdraw it in the syringe, then inject that

1 same solution into the next bottle, and do this five
2 times. So it's a little labor-intensive but it can be
3 done.

4 Q I see. And how many cc's do you end up with total
5 then?

6 A In that case, 40 cc's, but I wasn't going to change
7 and say oh, I mean to add five because somebody might come
8 and look at this later and think I made a mistake. I knew
9 what I was doing.

10 Q So you put 30 cc's --

11 A 40.

12 Q I'm sorry.

13 A 40 was in the record there.

14 Q I'm sorry.

15 A I may have started with 30, but by the time you add
16 all the chemicals you may get to 40, so you have to allow
17 for the chemicals being dissolved in your solution as you
18 go through the process.

19 Q Okay. I understand. Thank you. That makes it clear
20 for me.

21 So you also prepared a 2.5 gram dose for Michael
22 Taylor's scheduled execution; is that correct?

23 A Yes, I think that's what it says.

24 Q That's just on the log, the entry, 2/1/06.

25 A Yes.

1 Q Do you recall stating in an interrogatory answer, this
2 is in your responses to the court's interrogatories, it's
3 number 5 on page 6, do you remember stating that you used
4 2.5 grams for Mr. Taylor because you were aware that 2.5
5 grams had been adequate in Mr. Gray's execution?

6 A I was aware that two grams has been adequate all over
7 the country.

8 Q Okay. Let's just look at your answer for --

9 A I know that's what my answer was. Yes, that was the
10 best answer I could give at the time.

11 Q So when you said that the 2.5 was adequate for
12 Mr. Gray, on what did you base -- what facts or experience
13 did you base your judgment that it was adequate?

14 A Complete loss of consciousness in 15 seconds after the
15 injection started.

16 Q Did you monitor Mr. Gray's anesthetic depth during the
17 execution?

18 A I monitor -- the only thing that can be monitored is
19 facial expression, and you can judge when the effect of the
20 drug is accomplished, and that can be seen from across a
21 room through a window. And when that effect occurs then I
22 know the inmate is unconscious. And there's absolutely no
23 difference in any of these injections. Again, because the
24 tubing is eight, nine feet long, by the time the 15 seconds
25 I know that inmate may have only gotten 500 milligrams of

1 injection. That's the other reason we use -- allow
2 premedication is because a calm, relaxed individual
3 requires a lot less drug than an agitated individual. And
4 as a physician I am there to make sure this man is in a
5 calm state and that he has an IV injected -- inserted
6 completely painlessly that will not fail during the course
7 of the procedure.

8 MS. ANDERS: I'm sorry. Would you read that
9 answer back for me?

10 A I can't.

11 (The prior answer read back by the reporter.)

12 Q (By Ms. Anders) So you said that you can see that --
13 an inmate's facial expression from where you stand?

14 A Yes. That's the only thing any anesthesiologist uses
15 in the course of inducing a person when pentothal was still
16 used, was you simply start injecting, look at the face, and
17 again, it's difficult to describe, but I can tell instantly
18 when the pentothal has taken effect. And in medical
19 practice the instant the pentothal has taken effect they
20 gave absolutely no more because then they move on to the
21 actual anesthesia which has to be started before the
22 pentothal wears off.

23 In our case, we're just worried about when he
24 reaches that point, because there is a phenomena with
25 pentothal where if it's given to some agitated individuals

1 they can in fact have a seizure or, you know, they'll say
2 this isn't working because they're agitated. And there is
3 an effect of pentothal that will cause agitation or
4 seizures.

5 So once that facial expression change has
6 occurred, we know we're out of the danger zone and that
7 this agitation or seizure will not occur.

8 Q And just so I'm clear, do you stand in the execution
9 room? Do you stand behind the two John Does who are
10 injecting the drugs?

11 A Yes. In case they have a question, problem, I am
12 there to give advice. I'm not there to inject. But I can
13 see the side of the inmate's face and that's all
14 sufficient. He goes from looking toward witnesses to
15 looking around the room to a completely relaxed facial
16 expression.

17 Q Okay. Thank you. Just to go back to the mixing the
18 thiopental. I think you briefly stated before why you
19 thought you might have had trouble mixing the thiopental.
20 Could you explain for me why again why you think that might
21 be?

22 A Some companies, because of their suspecting that
23 somebody will try to mix the wrong dose or give the wrong
24 dose, I know that certain drugs -- this drug is mixed with
25 two containers so you cannot mix it any other way

1 theoretically, but also some medications have an inert
2 compound in or a secondary compound to prevent improper
3 dose. The case in point being some cough medicines that
4 have a small amount of epicate (phonetic spelling) that if
5 you take too much cough medicine you will get enough
6 epicate to cause vomiting. But if you take the right dose,
7 you get the right amount of cough medicine but not enough
8 epicate to cause vomiting. So there are many things in
9 drugs that are used by the industry, and I suspect there
10 was possibly an inert compound added to prevent improper
11 mixing of these drugs.

12 Again, I am aware now that all of the pentothal
13 we have has expired so I have no clue who is going to
14 supply it, if we can get the next pentothal, if we have
15 another execution. So I will have to review this with the
16 Director to find out what is available or what he thinks we
17 should do about changing it if we can no longer get this
18 pentothal. I'm hoping we can still get it at least in one
19 form or another.

20 Q You mean you might not be able to get thiopental at
21 all?

22 A It's always going to be available somewhere. It may
23 be more difficult or it may come in these doses that is
24 very difficult for us to manage, but pentothal is like
25 aspirin, it's never going to go away because it's part of a

1 compound of drug that is -- well, I can tell you all
2 barbiturates, and it's a member of the barbiturate family
3 of controlled drugs, and there's nothing in it that can
4 cause heart attack, lung cancer, like these newer cosmetic
5 -- newer drugs that are coming out that have these horrible
6 side effects. Pentothal is not going to be taken off the
7 market, so there's no reason for it to be removed from the
8 market. It just may be more difficult to find.

9 Q I see. And just to go back to your earlier answer for
10 a minute. Are there any other things you can think of that
11 might account for the trouble mixing the total five grams?

12 A They may have a special compound in their solution
13 which I can't get out of the bottle that allows for more
14 rapid dissolution. Whether I use a saline or water
15 solution should make no difference on this, but they may
16 have a compound in their solution that allows it to
17 dissolve more easily, but I can't get theirs out of the
18 bottle without actually breaking glass.

19 Q I see. And did you ever consider the possibility that
20 the thiopental might be defective?

21 A No. It's a compound. It's like salt. There's -- or
22 sugar. It's a chemical. There's nothing -- it
23 deteriorates after it's been mixed, but there is nothing in
24 pentothal that can out-date as long as it's in powder.

25 Q I see. So it's pretty stable?

1 A Very.

2 Q Is it stable even if, say, air gets to it or something
3 like that?

4 A Yes. It's just what it becomes -- in the liquid form
5 it does lose some potency, and again, it would be after a
6 week or two, because I know they would mix -- they would
7 usually mix it at the hospital the first of the week and
8 use it all week with no problems, and if there were any
9 left they would simply mix a new bottle the next week. So
10 it loses potency when it's in liquid solution. And when
11 it's over that long period of time in a multi-dose vial
12 after it's been open for a week, there's a possibility --
13 you are more worried about contamination of the solution
14 rather than deterioration of the product.

15 Q I see. And I think you also said that you might
16 consider using other drugs if you can't get thiopental.
17 What other drugs might you consider?

18 A Well, the most common use, the reason pentothal is no
19 longer available is because everyone -- [REDACTED]
20 [REDACTED] they use Diprovan
21 now as their No. 1 drug for inductions and even some
22 anesthesia. Diprovan though requires a continuous
23 infusion. In other words, it has been to be given
24 constantly. It looks like milk hanging in a bottle. It
25 looks like milk in the IV tubing as it's going into the

1 individual. The milk runs in their arm. The instant that
2 milk disappears from the IV the individual getting it will
3 sit up and walk out of the room with no side effects. It's
4 instant recovery. The anesthesiologists love it, but we
5 can't use it.

6 Q Is that primarily an induction agent?

7 A That's the No. 1 induction agent today.

8 Q So it's not used -- is it used for maintaining
9 anesthesia too?

10 A Only in short cases. They would use it for my cases
11 because I can do most operations in ten minutes, but for
12 most surgeons they would use other agents.

13 Q Are there any other drugs you can think of?

14 A [REDACTED]

15 really, no. It's still going to be down to a barbiturate.
16 If not pentothal, one of its other analogs which have a
17 slower onset and a longer duration. But the pentothal
18 we're using has the most rapid onset of all, but it's also
19 metabolized quicker. We're talking 15 to 20 minutes as
20 opposed to the long-acting ones that may last up to an
21 hour, like sleeping pills. The barbiturates that are used
22 for sleeping last six to eight hours, but they take longer
23 to take effect and some of them can't be given IV.

24 Pentothal can be given IV.

25 Q So pentothal is preferable because it takes effect

1 more quickly?

2 A Yes. It's the fastest, but it isn't good in an oral
3 form. If you took it by mouth, it would -- I think it has
4 no effect. It's eaten up by the acid in the stomach so it
5 has no effect if given orally, so it has to be given IV.

6 Q Okay. Thank you. I'd just like to look at another
7 one of your interrogatory answers now. It's in the third
8 set which are the court's interrogatories. It's No. 5 --
9 the answer on 22 begins on page 5.

10 A Page 5?

11 Q The top of page 5.

12 A Rate of infusion is at the top of the page?

13 Q Yes, that's correct. So you said, "The rate of
14 infusion and concentration of the dose ensured that 2.5
15 grams was more than sufficient to make the offender
16 unconscious." So just because I don't have any medical
17 training or anything, could you define rate of infusion for
18 me?

19 A The speed with which the drug is given. So if I
20 dilute it in a larger volume the same amount of drug, it
21 takes longer to give it. The speed that the drug is given
22 has a significant effect on its -- the way it reacts in the
23 body. If you give it in an IV in the arm, because a lot of
24 these drugs are concentrated, they will induce spasm. So
25 what you think you're giving might be leaking around the

1 needle, may be slowly getting up the arm, so you can't give
2 it as fast. And the problem compounds itself because the
3 slower you give it the more the body metabolizes it, so
4 it's not a one-to-one ratio. So if you give it in 30
5 seconds you get one result, but if you give it over two
6 minutes, the result is completely different. At some point
7 eventually they're all going to be the same, but the speed
8 with which the individual goes to sleep directly affects
9 how fast -- is affected by how fast the drug is given.

10 Q Okay. And what is the rate of infusion for an
11 execution?

12 A Because of the length of the tubing and the size of
13 the syringe you can only inject it -- you can't inject it
14 any faster than a certain rate. The big heavy syringes
15 just don't allow you to go any faster. So if they push
16 harder, it doesn't go any faster. You can go maybe slower,
17 but the tubing and the syringe act as a monitor to the way
18 the injection is given. If they try hard, they can do it
19 in 15 seconds. If they do it slow, it takes 20 seconds.
20 So the size of the syringe, the length of the tubing has a
21 serious -- an effect on the speed of this injection, the
22 way I've got it set up.

23 The size of the needle at the other end is going
24 to have equally an effect because that's what happened in
25 the case of Ohio, Texas, other states where they have these

1 bad results. They have a small needle in the arm so no
2 matter how hard you push that 50 cc syringe it's going to
3 take you three minutes to give the drug and you will not
4 get the effect you expect. You'll get an agitated inmate
5 who is agitated.

6 Q So if you had to put a number on the rate of infusion,
7 just if you were going to do calculations here --

8 A 30 seconds.

9 Q Okay. So the rate of infusion is 30 seconds?

10 A I would estimate, yes.

11 Q Okay. And what was the concentration of the
12 thiopental solution for Mr. Gray?

13 A In his case we had 2.5 in 40 cc's I think, if I'm
14 thinking of the right one.

15 Q Yeah, those figures sound right to me.

16 I'm sorry. Just because I can't see, are you
17 doing a calculation or --

18 A Oh, no. I'm waiting for the next question.

19 Q I'm sorry. So you're saying the concentration would
20 be 2.5?

21 A I'm dyslexic. I cannot figure those things out. I
22 can't. I have to rely on the nurse. When I say give me
23 the first med, she hands me the syringe.

24 Q I'm sorry. So when you were mixing the drugs for
25 Mr. Gray and you said that the rate of infusion and the

1 concentration made it -- made the 2.5 grams sufficient, is
2 that a calculation that you would do at the time?

3 A No, no, that's just judgment. As long as I have 2.5
4 grams, whether I had it in 30 or 60, the priority was
5 whether it was in one syringe or two. So once I had 2.5
6 grams and I knew from previous mixing that I could possibly
7 do it so I started with the smaller amount so when I was
8 finished I had 2.5 grams in 40 cc's rather than 50 or 60
9 cc's. And to my understanding of what our objective was,
10 that was better than just adding more inert solution to the
11 mix to dilute the drug.

12 When we're giving it through a central line, a
13 fast-flowing central vessel, the concentration is not a
14 problem. It's only when you're giving it through a
15 peripheral IV does the concentration affect the rate of
16 infusion.

17 Q I see. So the concentration can affect the rate of
18 infusion?

19 A If you're not using a central line, yes.

20 Q Does the concentration make it slower?

21 A Yes, because it will put -- it will -- the solution
22 becomes thicker, and also it puts a spasm in the vessel
23 that prevents it from flowing -- it has to flow through
24 the vessels to a major vessel before it has any effect, and
25 that can take a number of seconds, whereas when it's in a

1 central line, our central line is positioned inches from
2 the heart so the minute that injection is in it's
3 immediately in the heart and distributed to the entire
4 body.

5 Q I see. So when you said that the rate of infusion and
6 concentration were more than sufficient -- I'm sorry. The
7 rate of infusion and the concentration of the dose ensured
8 that the 2.5 grams was more than sufficient, you're relying
9 on your medical judgment?

10 A Yes.

11 Q Were there any other factors that you considered in
12 considering whether the thiopental was sufficient?

13 A No, because I knew we were dealing with a central line
14 and it was going to be given rapidly so I didn't have to
15 worry about diluting it up to a larger amount. I mean, you
16 eliminate all of those calculations by using a large core
17 central line catheter and you're not going to have to worry
18 about extravasation, leakage, any of those factors. Or
19 pain of injection. The inmate has no inkling that these
20 drugs are being injected. Absolutely no sensation other
21 than he gets sleepy.

22 Q I see. And for the next execution that occurs,
23 assuming that you participate, what dose of thiopental do
24 you think you'll prepare?

25 A I will recommend 2.5 if we have to deal with the same

1 equipment that we're dealing with. If we get another
2 supplier that supplies us one-gram bottles in premixed or
3 mixable in 25 cc's each, then I will recommend to the
4 Director we use the two-gram, which is a more convenient
5 way of mixing.

6 It's only when we step outside the parameter of
7 2 to 2.5 in one 50 cc syringe is there a serious change
8 occurring as far as I'm concerned, or that I would have to
9 discuss this with the Director who relies on my judgment to
10 make this happen.

11 Q Okay. So just to go back for a minute, you said that
12 if you found a supplier who supplied it in one-gram bottles
13 you would recommend two grams; is that what you said?

14 A Yes.

15 Q So a total of two-gram dose?

16 A That would be more consistent with national standards
17 as opposed to using three bottles and a three-gram dose.
18 But again, that's just -- as long as you're over two grams
19 you're going to have 100 percent unconsciousness after 15
20 seconds. It's only -- the one-gram dose is only
21 insufficient when you have a serious drug addict or obesity
22 over 300 pounds.

23 Q I see. So for a normal inmate you could give one
24 gram?

25 A For most -- for everybody sitting in this room I

1 could give you 500 milligrams and everybody would be
2 unconscious. 500 is enough. That's why the new doses come
3 in 500-gram bottles. That's -- the standard dose is 500.

4 Q When you say that 500 is enough, it's enough to render
5 somebody unconscious; is that what you mean?

6 A In order to proceed with an anesthetic. This is not
7 the execution setting. This is giving you an anesthetic.
8 If you receive 500 milligrams of IV pentothal, you would be
9 asleep and unconscious, but still breathing.

10 Q Would you be unconscious to the point where somebody
11 could perform surgery on you?

12 A No, it's not an anesthetic. It's a sedative. It has
13 no anesthesia properties. Surgery takes a long time and it
14 wears off almost within minutes, so you wouldn't even have
15 time to get ready to do surgery.

16 Q I see. So you wouldn't use thiopental alone if you
17 were doing surgery?

18 A Never. It's not an anesthetic. It's a sedative.

19 Q But for an execution --

20 A It's a sedative.

21 Q Would a five-gram dose be sufficient for an execution?

22 A One gram would probably be sufficient if he wasn't a
23 serious drug addict or a certain amount of body fat. But
24 we're not in a position to change once we have started, so
25 my recommendation to the Director was to -- and the

1 recommendation of other states, is to go two-gram minimum
2 to ensure they're going to get the 99th percentile, and if
3 every state agrees that they're over three, 400 pounds they
4 are going to have to go to three grams.

5 Q Would one gram be sufficient for you to do a quick
6 surgery on somebody?

7 A No, never; it never works.

8 Q So would the person wake up?

9 A If I cut him, yes. They're not -- it has no
10 anesthesia. It's a sedative.

11 Q I see. So --

12 A Anesthesia is what keeps you from feeling pain.
13 Pentothal is just a sedation like a sleeping pill. If I
14 operated on you when you were asleep, you would wake up
15 immediately.

16 Q Okay. So the thiopental would put you to sleep and
17 then if you felt something painful you would then wake up?

18 A If I -- at a certain point in time you would respond.
19 Again it depends on the level. When you go through the
20 stages of induction, which is what we're dealing with with
21 pentothal, you go through them, but you don't immediately
22 wake up. You must go back through the stages that got you
23 through that stage, if that makes sense. In other words,
24 you can't go to a level of total unconsciousness to
25 immediately wake up and talking. You have to come back

1 through grogginess and the other stages that you went
2 through going to that. Diprovan avoids all that, and
3 that's why some people stopped using pentothal and went to
4 Diprovan because you immediately wake up after the drug is
5 stopped with no side effects and no residual.

6 Q So when you give thiopental for an execution, is the
7 goal total unconsciousness?

8 A The goal is to render the inmate unconscious so the
9 paralysis agent can be given and then the drug given to
10 stop the heart beat. Again, you're arguing how many grains
11 of powder do you put in a bullet if we were using a firing
12 squad. The amount of powder in the bullet has very little
13 affect on the effect of the bullet.

14 Q I see. So if you use pentothal to induce total
15 unconsciousness because it's not an anesthetic, then
16 somebody could still wake up if you --

17 A Given sufficient time, it's reversible, yes.

18 Q Okay.

19 A In 15 minutes he would probably wake up.

20 Q Okay. Let me step back. I think you said that
21 thiopental has no anesthetic properties?

22 A That's correct.

23 Q So then if somebody is put to sleep with thiopental,
24 then they might -- then if you cut them, they'd wake up?

25 A Depending on how much pentothal they had and how long

1 you waited after the injection. But still that point has
2 nothing to do with executions.

3 Q And why is that?

4 A We don't inflict any pain ever.

5 Q I see.

6 A It's all done through a central line. They can't feel
7 anything.

8 Q When you say that, could you just sort of explain that
9 to me?

10 A If you were injecting through the arm they might
11 theoretically feel the potassium if they were not
12 paralyzed, but by using a central line -- all the
13 complications of lethal injection have to do with how
14 the IV is put in, not with the drugs.

15 Q So when potassium is injected into the femoral vein,
16 it doesn't hurt?

17 A Absolutely not.

18 Q What do you base that on, that conclusion?

19 A It's impossible. It's injected into a major
20 free-flowing vessel. The only way it hurts is by causing
21 spasm in a vessel in your hand or in your arm or in your
22 leg. Once it passes through the arm or leg into a central
23 high-volume vessel, it's completely painless.

24 Q I see. So I'm just having a little bit of trouble
25 following because of my lack of medical background. So I

1 think you said two things. One is that it isn't painful in
2 the femoral vein because that vein doesn't spasm?

3 A Absolutely not. It's a high-flowing vessel. It's not
4 a cutaneous vessel. Cutaneous vessels on your skin must

5 have muscles in them to constrict. If you accidentally cut
6 yourself -- peripheral vessels have to contract and stop

7 bleeding or else everybody when they cut their finger would

8 bleed to death. Central veins do not need to constrict so

9 they have no muscle in it so you do not feel a spasm and

10 they cannot react to drugs as they are being injected.

11 Plus the drug is diluted instantly. The amount of blood

12 flowing through the interior vena cava amounts to a quart

13 every two seconds, so it's instantly dissolved.

14 Q And what is the concentration of the potassium that

15 you inject?

16 A Higher than can be given through a peripheral IV.

17 We're using a drug that was designed -- a bottle that was

18 designed to be put in a quart of IV fluid in order to

19 adjust electrolyte imbalance on people that are on diuretic

20 overdose. They eliminate so much potassium, and potassium

21 allows for stability of the heart beat. So we will put one

22 of those bottles of the six that we use in a large IV

23 solution and give it gradually over six hours to patients

24 in ICU. We can't give it any faster than that in the

25 clinical setting.

1 Q If you'll look at the chemical log again, which is
2 Exhibit No. 4, just looking at the first line on the first
3 page, for the potassium chloride it says amount, 120.

4 A Yes.

5 Q Is that 120 milliequivalents?

6 A I have been informed that the new solution, and we
7 have been through three, has two milliequivalents per ML,
8 so -- and I could stand corrected, but it's probably 240
9 that we are using right now.

10 Q I see. So you're using 240 milliequivalents in 120
11 cc's or milliliters; is that correct?

12 A Yes. Again, we're trying to maintain the continuity
13 for the people doing the injection. Since they're
14 nonmedical people, they want to come in and see those six
15 syringes just as they saw them the previous time because
16 they don't want to make any mistakes.

17 Q I see.

18 A I could probably get by with one syringe if we always
19 knew we were having that 240, but it's much easier for the
20 other people to see this standardized tray with those
21 syringes as they remember them from the previous time.

22 Q I see. So there was a point where the dose was not
23 240. It was 120?

24 A It was 120, and again this log is really -- people
25 writing on the previous lines, and as I stated before I'm

1 incapable of copying one line to the next consistently, but
2 I try.

3 Q So when the dose is 120, you also used two syringes to
4 keep it consistent?

5 A Always two syringes. Now, we did have one individual
6 that I do remember when we were going through this where I
7 recommended, because of the size of the inmate and because
8 of what I previously stated, if we do not get the heart to
9 stop on two syringes we then have to give two plus, meaning
10 three syringes, so we'd have to give a total of five. It
11 was much easier to have three syringes available and give
12 it to ensure -- and the factor is called fat absorption,
13 that the fat absorption of the potassium would not use up
14 enough of the drug that the heart would stop at an
15 appropriate time.

16 So in one instance I recommended and did not
17 check or tell anybody because it was based on medical
18 dosage that this person would require a third syringe of
19 potassium. And I don't remember whether it's even in this
20 log, but one instance, because of the obesity of the
21 inmate. And again, Texas, California, those places, they
22 have no one that can make those decisions, so if they had
23 someone of that weight, they might have had a serious
24 problem. But we do this on an individual basis and for
25 that reason I recommended that we use more so we would not

1 be sitting there for 30 minutes waiting for the electrical
2 activity to stop.

3 Q I see. So just going back to the potassium in the
4 femoral vein, so if -- the concentration is I guess two
5 milliequivalents per milliliter; is that correct?

6 A Right.

7 Q And that concentration won't hurt in the femoral vein?

8 A Absolutely not. It's not actually going in the
9 femoral vein. We use the femoral vein to insert a catheter
10 that I think is about 16 inches long, so actually from the
11 femoral vein if you measure up to your xiphoid which would
12 mean it's about two inches from the heart, so the catheter
13 is almost in the heart when -- so the drug is directly
14 injected below the heart as it enters.

15 Q I see. And what do you base your conclusion that it's
16 not going to hurt at all on?

17 A The same as before. It's not a peripheral vein. It's
18 diluted so rapidly in the heart.

19 Q Are there any calculations that go with that?

20 A Heavens, no.

21 Q So you don't have to calculate the concentration?

22 A No.

23 Q I see. Okay. I think you said in one of your
24 interrogatories, this was in the plaintiff's supplemental
25 interrogatories, you don't have to turn to it unless you

1 don't remember, but I think you stated you have had
2 conversations with previous Directors of Corrections
3 regarding your authority to make changes to the execution
4 process?

5 A Well, we don't exist in a vacuum. I mean, we will, as
6 we come in for the execution, basically I go to the
7 Director's office. The Director is usually always there,
8 plus his assistants, and so we will visit about this and he
9 will ask are there problems, do you anticipate problems,
10 have you had problems, in the course of that conversation.
11 So there is some discussion every time there is a execution
12 if I anticipate problems or if I have adequate supplies or
13 what do we need or what I would recommend to be done in the
14 future, so, yeah, we do discuss these.

15 Q And do some of these discussions involve the scope of
16 your authority and context of the procedure?

17 A No. He's relying on me to keep him looking good, to
18 use his terms directly, so he does not have to go out and
19 explain why we made a mistake or we may have a problem or
20 why it didn't go smoothly or why a clamp was left on the
21 tubing and we had to close the curtains and make an
22 adjustment. That will not happen when I'm there.

23 Q So your understanding is that you have the authority
24 to do whatever is necessary during the execution to ensure
25 that it goes smoothly?

1 A Yes. And if I can't get it done, I will contact him
2 and he will make sure what I request is done. But so far
3 we have -- we have anticipated every possible problem with
4 this dosage, with these catheters, with these solutions,
5 and we see no reason to make any significant change other
6 than drugs not available or, you know, the catheters that
7 we use, the IV tubing, all that is current state of the
8 art.

9 Q I see. So it's your understanding from previous
10 directors that you have the authority that is necessary to
11 make the execution go smoothly?

12 A They're relying on me to make changes or suggestions
13 that they will agree with if I think a change needs to be
14 made. They're relying on my medical expertise. No other
15 state has a physician that they can consult and say what
16 went wrong when these guys set up in Ohio, what went wrong
17 in Texas when they sprayed the viewers' gallery with
18 pentothal.

19 Q I see. Have you had any discussions with Director
20 Crawford about the scope of your authority?

21 A Oh, yes. We talk -- I talk in his office and at the
22 time of the execution. In fact, he's the only director I
23 have actually gone over to his office for other reasons and
24 visited about this. And again, he has no background in
25 corrections and he has no background in medicine, so the

1 other corrections officers had long backgrounds in
2 corrections so they were aware of what we were doing and
3 why we were doing it. Since he has no background in either
4 field, he reiterated that he's totally dependent on me
5 advising him what could and should and will be done, and he
6 will back up -- if I think there's a change that needs to
7 be made, he wants me to quickly inform him so he can make
8 the appropriate changes.

9 Q I see. So it's your understanding that if you thought
10 a change to the execution procedure needed to be made you
11 would -- Director Crawford would defer to your opinion?

12 A Absolutely.

13 Q And would you have to inform him first before making a
14 change?

15 A If I made a change of the number of syringes or if I
16 made a change of that magnitude, I would inform him that he
17 is going to see different times. And that's the only way
18 he's going to know something -- I would warn him that --
19 he's very used to sitting up in his office and seeing one
20 drug, next minute another drug, next minute another drug.
21 Two minutes later he's informed that we're finished. And
22 if we had to add extra syringes or change something
23 significant to where you can't physically inject that many
24 syringes, then he would -- I would tell him it's going to
25 be two minutes between the first and second dose and then

1 he would understand and know why it happened. Or someone
2 would ask him a question at the press conference, which he
3 has to give, he would be informed of what that change was
4 so he could answer intelligently.

5 Q I see. So let's just go through that a little bit.
6 So what types of changes might you not inform him about?

7 A Well, when we could not mix the drugs, he would not
8 care that we could not mix the drugs as long as I could mix
9 a sufficient dose. If I would have required -- could not
10 mix it that night and would require two syringes instead of
11 one, I would immediately inform him.

12 But I have no way of returning from the execution
13 chamber to the Director's office without upsetting their
14 schedule so it would have to be a phone conversation, not a
15 face-to-face conversation.

16 And I'm also aware that we have no other way to
17 change once we're in that room and we're given the drugs
18 that they thought were the right drugs when they arrived.

19 Q I see. So you have the impression that Director
20 Crawford wouldn't care whether the drugs couldn't be mixed
21 or something like that, as long as the number of syringes
22 stayed the same, is that --

23 A Well, the only reason he would know the number of
24 syringes were different is because the difference between
25 the first and second drug would take two minutes instead of

1 one.

2 Q I see. Have you ever had any conversations with
3 Director Crawford that sort of gave you the sense certain
4 things you would inform him about and certain things you
5 wouldn't?

6 A When these actions occurred in this state and other
7 states, we were aware that we were going to be under a fine
8 tooth comb so we were already exploring if certain drugs
9 were ruled unacceptable we would have to go to alternate
10 drugs. So I was researching and my conclusion was that
11 it's going to cause problems if we have to switch drugs.

12 Q And what do you mean by that, that it would cause
13 problems?

14 A Well, if Diprovan is going to be used, it requires a
15 continuous IV infusion. You can't put it in a syringe and
16 inject it. So the entire procedure is going to have to be
17 changed.

18 Q Because you need a continuous IV?

19 A Continuous infusion. We are already anticipating that
20 because what we use is called a triple lumen catheter. I
21 can simultaneously inject three independent drugs without
22 danger of intermixing in the tubing because the catheter we
23 use has three individual injection sites so I can get one
24 in one and another drug in another.

25 So if a change should occur where we require

1 continuous infusion of Diprovan, we can simultaneously give
2 the other drugs through another port while the Diprovan is
3 infusing.

4 Q I see. So if you use the Diprovan you would use one
5 lumen of the catheter for the Diprovan and then use the
6 other lumens for the --

7 A Yes. The triple lumen anticipates that problem.

8 Q I see. So is that why you use the triple lumen
9 catheter now?

10 A We use the triple lumen because that is the most
11 complete tray available. There are single lumen catheter
12 trays that are available, but they do not require all the
13 instruments that's on the triple lumen catheter that are
14 necessary to treat hematoma, pneumothorax, those type of
15 complications. Should they, in the remote possibility that
16 any of those occur, there's sufficient material on that
17 large tray to treat and correct those complications.

18 Q I see. So that tray contains equipment necessary to
19 deal with any complication from the femoral catheter?

20 A Yes. It's a full instrument tray on triple lumen, and
21 the single lumen does not have a full instrument tray.

22 Q I see. And that tray comes with a triple lumen
23 catheter?

24 A Yes. It's all packaged as one unit.

25 Q So just hypothetically, if you had to change an aspect

1 of the procedure that wouldn't affect the timing of the
2 drug, say giving a different drug but using the same amount
3 of solution, is that something that you would inform the
4 Director about?

5 A If it was the same number of syringes and we could
6 give it with sufficient speed, the Director would not be
7 aware. I mean if -- the reporters are watching this so
8 closely that if there is a difference of one minute or so
9 between injections or 10 or 15 minutes to time of death
10 they immediately have questions about it. So if there
11 would be a problem in what the public perceives, then I
12 would inform him this is why this happened, this is why
13 this didn't happen, so he -- since he has no medical
14 background he wants to be informed and so I do a good job
15 of keeping him informed why something happened. That's
16 more what he's interested in, rather than opposed to what
17 am I going to change on my own authority.

18 Q I see. Is there anything that wouldn't affect timing
19 that you would tell him about, any kind of change?

20 A No, because all he sees is the timing.

21 Q I see. So you'd inform him about something that
22 affected the timing?

23 A If there was a perceptible difference in the way the
24 execution was carried out that someone in the -- one of the
25 three visitors gallery would ask him a question about or

1 anticipate a question, why did this happen, why did he
2 cough, why did he wiggle, why did he move, he's prepared to
3 answer those questions.

4 Q I see. So you'd inform him about anything that
5 happened --

6 A Absolutely anything.

7 Q Anything -- I'm sorry.

8 A Anything that could be noticed or questioned.

9 Q So you'd inform him about anything that happened
10 during the execution that might be noticed by the
11 witnesses?

12 A Yes.

13 Q Okay. Thank you. Are you aware -- are there any
14 regulations or rules that require you to notify the
15 Director about certain aspects of the procedure or certain
16 changes?

17 A Absolutely not. This is just good practice.

18 Q I see. And is any part of the execution procedure
19 written down?

20 A I have never seen it. If it was, it would have been
21 written on my recommendations.

22 Q I see. Do you have any idea why it might not be
23 written down?

24 A I'm sure it's written down somewhere. If they're
25 checking the logs of all the drugs every time we use them

1 and recording expiration dates and number of sheets and
2 needles that we use, I'm certain they have it written down
3 somewhere.

4 Q But in terms of the aspects of the procedure that
5 you're responsible for, that you perform, those aren't
6 written down, to your knowledge?

7 A It might be written in there, but it would be written
8 on by somebody observing what I was doing and using their
9 interpretation. So if there was a written procedure that
10 they had done I would -- you know, I'm curious to see what
11 they think I'm doing, but I don't know that they write down
12 the individual details of how I insert an 18-gauge rather
13 than a 22-gauge or a 14-gauge needle.

14 Q I see. So people might write things down as you're
15 doing them, but there's no guide that you follow as you're
16 doing it?

17 A Absolutely not.

18 Q So you just rely on your memory?

19 A Yes.

20 Q And your judgment?

21 A Yes.

22 Q Do you have a clinical practice?

23 A [REDACTED]

24 [REDACTED]

25 [REDACTED]

1 [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 Q [REDACTED]

7 [REDACTED]

8 A [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 MR. PRITCHETT: [REDACTED]

13 [REDACTED]

14 MS. ANDERS: [REDACTED]

15 [REDACTED]

16 A [REDACTED]

17 [REDACTED]

18 [REDACTED]

19 MS. ANDERS: Okay. I'd just like to -- maybe we
20 can establish is it okay for the doctor to answer these
21 questions about where he's worked and things like that
22 because we certainly would agree that that all should be
23 subject to a protective order.

24 THE COURT: You say is it okay that he not be
25 asked that, or not respond?

1 MS. ANDERS: That he go ahead and answer that
2 subject to Mr. Pritchett's objection. Because otherwise,
3 we're going to have to talk about the protective order
4 later and I might have to go back and ask him those
5 questions because he won't have given a substantive answer.

6 MR. PRITCHETT: Well, I object to the identifying
7 information coming out in general other than, as I
8 mentioned earlier, general time frames or general
9 locations, even subject to the protective order.

10 THE COURT: I think he can talk about his
11 practice in general. You don't have to specify where it is
12 you practice, that kind of thing. Just an inquiry as to
13 the background, but not where.

14 MR. PRITCHETT: I still ask that that identifying
15 information be subject to the protective order.

16 THE COURT: I just told you how my ruling is
17 going to be on that, protective order notwithstanding.

18 MR. PRITCHETT: Okay. Thank you, Judge.

19 MS. ANDERS: I'm sorry. Could you restate that?

20 THE COURT: No, I won't restate it. Continue
21 your examination. You don't have a lot of time left.

22 MS. ANDERS: Then I guess I'd just like to note
23 that I probably will need more time.

24 THE COURT: No, I don't see any reason to extend
25 the time at this time.

1 MS. ANDERS: Okay.

2 Q (By Ms. Anders) So I think you mentioned that you are
3 [REDACTED] doing some practice [REDACTED]; is that correct?

4 A [REDACTED] I [REDACTED] have
5 patients call me for advice and recommendations and
6 referrals, so I will talk with patients on a daily basis,
7 recommending surgery or I'll sometimes go in and assist in
8 their surgeries. [REDACTED]

9 [REDACTED]

10 Q [REDACTED]

11 [REDACTED]

12 A [REDACTED]

13 Q [REDACTED]

14 [REDACTED]

15 A [REDACTED]

16 [REDACTED]

17 [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 Q [REDACTED]

24 A [REDACTED]

25 [REDACTED]

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 Q [REDACTED]
15 [REDACTED]
16 A [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 Q [REDACTED]
20 A [REDACTED]
21 Q [REDACTED]
22 [REDACTED]
23 A [REDACTED]
24 [REDACTED]
25 Q Do you have any training in the induction of general

1 anesthesia?

2 A I don't know that that has anything to do with this
3 because the induction of general anesthesia is not what
4 we're doing when we're doing an execution.

5 THE COURT: The question, Doctor, is do you have
6 training?

7 A I do lots of anesthesia. [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 Q (By Ms. Anders) So you have assisted anesthesia --

12 A I have induced anesthesia many times, either in the
13 course of endoscopies, in the course of surgeries, starting
14 an operation or induction before the anesthesiologist gets
15 there. I'm quite capable of doing that. It's not a matter
16 of training. It's a matter of doing it.

17 Q And have you for the purposes of surgery, say
18 abdominal surgery, have you ever induced anesthesia
19 yourself without the aid of any anesthesiologist?

20 A Yes, because with a gunshot wound, a car wreck arrives
21 in the emergency room, [REDACTED]

22 [REDACTED]

23 [REDACTED] So, yes, I have induced the
24 anesthesia. They simply follow up and catch up with where
25 I am at the point. Any surgeon can do that. And should.

1 Q That would be anesthesia for the purposes of surgery
2 and there would be no further anesthesia given?

3 A The purpose of saving a life. The continuation of the
4 anesthesia is done by the anesthesiologist. I must get
5 that person breathing which means inducing an anesthetic,
6 get them on a respirator to keep them alive until the
7 anesthesiologist gets there. That requires an anesthetic
8 induction. And I may even transfer them to the operating
9 room. I do not turn on the gas, because I don't want that
10 on until the anesthesiologist is there, but I will maintain
11 sedation and pain medication until the anesthesiologist
12 gets there. Then I can proceed with the surgery. I have
13 done it many times as a [REDACTED] surgeon.

14 Q And what year did you graduate from medical school?

15 A [REDACTED]

16 MR. PRITCHETT: Object on the ground of
17 identifying the year would be identifying --

18 THE COURT: He said [REDACTED], Mr. Pritchett.

19 MR. PRITCHETT: Thank you.

20 Q (By Ms. Anders) I just ask for the record where did
21 you go to medical school?

22 A [REDACTED]

23 Q As part of your medical training or otherwise, have
24 you gone through different scenarios that can occur or
25 problems that can arise when inducing general anesthesia?

1 A Yes. [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 Q So just hypothetically, if you were attempting to
8 insert a femoral catheter on anyone and they moved and you
9 ended up lacerating the femoral artery, what would you do
10 about that?

11 A It would never happen.

12 Q Well, hypothetically speaking, if it did happen?

13 A Since I'm only using a 22-gauge needle for the initial
14 insertion, this is like a small wire with a tiny hole, any
15 laceration of anything could be controlled with 30 seconds
16 of pressure and then proceed to try again.

17 Q I see. So what if you lacerated the femoral artery
18 and a hematoma developed?

19 A You cannot lacerate it with a 22-gauge needle. It's
20 too small. It's like a stick pin. It's no bigger than a
21 safety pin needle and that can't lacerate.

22 Q Well, just assuming hypothetically using a larger
23 needle or whatever --

24 A Cellular does not use a larger needle. It only uses a
25 small needle to start the procedure. That's why we use

1 that needle.

2 Q And just assuming for a second that a hematoma
3 developed, what would you do about that?

4 A Reach over on the tray, take the knife that's provided
5 with the tray, open it and vent it and it would be
6 controlled. Actually under this setting, the hematoma
7 would actually stop bleeding better than actually -- the
8 medical treatment would be to drain it, but in this setting
9 the hematoma is actually useful and it will stop the
10 bleeding in a matter of seconds by itself.

11 So there's a medical reason why you drain a
12 hematoma, but the reason in this situation was the hematoma
13 would actually stop the bleeding. But we have never and
14 could not possibly see a hematoma in this setting because
15 of the small needles used.

16 Q So when you say that the hematoma would stop the
17 bleeding, I don't really follow that.

18 A As it bleeds into the space it increases the pressure
19 around the vessel. The pressure of the hematoma is going
20 to stop the bleeding no matter where the bleeding is.

21 Q So the bleeding would stop on its own?

22 A It would stop on its own.

23 Q If that happened while you were trying to get the
24 catheter in for an execution, how would you then get the
25 catheter in?

1 A He's got two legs.

2 Q So you'd go to the other leg?

3 A Yes. And two vessels in the neck that I can use as
4 back-up. I have never failed. The only instance that
5 failed was an IV drug user who had been injecting his
6 legs. I made two attempts on the leg and saw that we were
7 dealing with a completely clotted vessel so I immediately
8 went to the neck. I only have about a five-minute window
9 from the time the inmate arrives where I have to make a
10 judgment decision to get a sufficient IV in. So if I can't
11 get it in the femoral in 30 seconds, I will then turn my
12 attention to either the subclavian or internal jugular and
13 quickly insert it in another appropriate vessel.

14 Q So you have about five minutes to complete the
15 procedure?

16 A Five to ten minutes. That's all I need.

17 Q I see. And you have always completed it within that
18 time?

19 A It takes two minutes.

20 Q Okay. And has femoral access always been the first
21 choice method of obtaining venous access for an execution?

22 A It's my preferred method because it avoids all the
23 complication with the subclavian. In the rare event that
24 someone would perforate through the vessel in a subclavian
25 you would actually hit the lung with that small initial

1 needle. That could cause a pneumothorax after about four
2 or five hours. Plus inmates can and will manipulate their
3 shoulders which could affect IV infusion. Or could
4 possibly grab or turn their head, dislodge the catheter.
5 In a femoral vessel, it was chosen simply because it's the
6 safest way to put it in. It cannot be dislodged. It
7 cannot be manipulated by the inmate.

8 Q So they can't move their legs or anything like that?

9 A Absolutely not. They are completely restrained with
10 over-the-knee, pelvis, shoulder straps, and full arm and
11 ankle restraints. They could move their head because we
12 allow them to look at their family, and they could turn
13 their head and literally bite the bandage off of their arm,
14 which I'm sure one might try to do some day, but with it in
15 the leg that isn't going to happen.

16 Q So do you know if femoral access has always been used
17 by the DOC since they started lethal injection?

18 A Since I was involved with the lethal injection and
19 because of the serious problems they had on that prolonged
20 execution, I have recommended and stuck by the femoral line
21 which is foolproof.

22 Q So after -- so you came in after that problematic
23 execution?

24 A Yes.

25 Q And you recommended femoral access?

1 A Yes. They wanted me to do a cut-down because they
2 thought that was the way to solve the problem. I informed
3 them that I probably could not find a cut-down tray in the
4 prison system anywhere or in the state of Missouri. It was
5 ancient.

6 Q I see. So you mentioned the cut-down. If you tried
7 within your five or ten minute window to --

8 A It takes 30 minutes to do a cut-down.

9 Q Is it something that you might do if you had trouble?

10 A I haven't had to do one in 30 years.

11 Q Would you consider doing one?

12 A If I lived another 30 years I might.

13 Q If you had trouble with both subclavian access and
14 jugular access and femoral access, would you --

15 A That can't happen.

16 Q Why not?

17 A Just -- God made it that way. You cannot clot all of
18 those vessels off and survive.

19 Q So I think you said that the institution of femoral
20 access, was that based on your recommendation?

21 A Yes.

22 Q And was that something that had to be approved by
23 someone, or did you just decide to do it?

24 A No. They wanted a foolproof solution to their problem
25 and they did not want to have to explain to the public why

1 things did not go well, and I said this will solve your
2 problem forever. And they were quite pleased that I did
3 exactly what I said I would do, and it did exactly what it
4 was supposed to do.

5 Q So when you suggested femoral access, do you know who
6 made the ultimate decision on that to approve it?

7 A I told them that's what was necessary as opposed to a
8 cut-down and this could be done quickly, safely, easily,
9 and they were in complete agreement, in fact relieved, that
10 they did not have to do a surgical procedure.

11 In the event that the central line is -- femoral
12 line is inserted and the execution could be cancelled,
13 which is almost impossible, I can simply go in and remove
14 that femoral line and hold pressure for 30 seconds and
15 there's no damage done. With a cut-down it requires
16 sutures and suturing a catheter. Removing the cut-down is
17 a surgical procedure also.

18 Q I see. So you would rather not do a cut-down?

19 A It's totally unnecessary.

20 Q So was it the Director of the DOC who approved the
21 femoral access?

22 A I don't even remember who the director was at that
23 time. I only communicate directly with John Doe 4 or 5 and
24 he passed the information on to the Director.

25 Q And then for the first execution that you participated

1 in, you used the femoral catheter?

2 A A femoral catheter, yes.

3 Q Did someone communicate to you that that would be
4 acceptable? Did someone tell you that's what you would be
5 allowed to do?

6 A That's what I told them I was going to do because they
7 had to order the special equipment to do it.

8 Q I see. So you told them that's what you were going to
9 do and --

10 A Yes.

11 Q And they ordered the --

12 A They ordered it.

13 Q And in making your recommendation, did you consider
14 the risks and benefits of a femoral catheterization?

15 A Yes.

16 Q And what risks and benefits did you consider?

17 A No risk. All benefit.

18 Q And what are the benefits?

19 A All benefits. There's no way it can fail. And no
20 risk to the inmate.

21 Q So there's no risk of complication?

22 A Really, no. It's not put in until all appeals are
23 satisfied. There's no chance there's a secondary appeal
24 going to come. We have never, and don't even anticipate
25 the situation would occur that once it's inserted that an

1 appeal will somehow magically appear. So we don't really
2 start -- and that's the advantage we have. It can be done
3 quickly, but it can also be removed quickly. And that's
4 what I communicated to the Director, that it was much
5 easier than doing another surgical procedure to remove a
6 surgical cut-down, and would allow rapid infusion of the
7 drugs by nonmedical people.

8 Q I see. So the primary benefit of femoral is that it
9 allows rapid infusion?

10 A Predictable infusion.

11 Q I see. And is your primary priority in performing
12 executions the timing issue?

13 A It's as much as the weight, mental attitude, and in
14 the rare instance, sex, total body fat, age. Those are all
15 factors that affect the reaction to the drug, the doses
16 used. These are all things that, while they have little
17 impact, you can't ignore them.

18 Q All right.

19 A States where no doctors are involved, they ignore all
20 of those variables and simply inject a standard amount by a
21 janitor I guess is what one fellow is.

22 Q Right. And you mentioned several times that it's
23 important that the injection procedure be quick.

24 A Yes. All drugs are time-related. I could give each
25 of those drugs over a prolonged period of time on anyone in

1 this room with absolutely no effect if you give it slow
2 enough or through a route where it's metabolized. Each of
3 those drugs is metabolized theoretically almost as fast as
4 you give it if you gave it slow enough. None of these are
5 lethal drugs. They are simply a dose of a drug that if not
6 reversed has consequences. But the drug itself is the same
7 drugs that are on the shelf in any pharmacy. At the time
8 they were used, any pharmacy and any hospital had all of
9 these drugs available and that's why they were chosen.
10 Every doctor was comfortable with their use. They were
11 quite aware what the drug was and what to expect.

12 Q So let me just go back to the risks and benefits of
13 femoral catheterization. You said the benefits are that
14 it's not very risky, is that correct?

15 A It's virtually risk-free. It's not used in clinical
16 practice because the anesthesiologist would prefer to have
17 the IV up in the neck, head and neck area where they have
18 control of it. They can change it. They can enlarge it by
19 special techniques. They can double the size of it if they
20 want to. And if it's -- in my primary concern, if I would
21 ever use it, would be in the trauma situation where I'm
22 operating for abdominal injuries. If I have an abdominal
23 injury, I do not want the catheter on the other side of my
24 injury because I may be dumping my blood and fluid into the
25 abdomen rather than into the patient. So it makes no sense

1 to use it in clinical practice. There's very good reasons
2 why I don't use it anymore in practice. Only in an
3 emergency. And then I would simply switch to a neck method
4 for the benefit of the anesthesiologist.

5 Q I see. So you said there are reasons that you don't
6 use the femoral catheterization in your practice?

7 A That's correct. Because mostly I would be doing it
8 only in a trauma situation where the patient was legally
9 dead at that time and I would use two femorals and two neck
10 veins to dump five points of blood in in five minutes and
11 try to revive that patient sufficient to take them to the
12 operating room to stop the bleeding that is inside the
13 abdomen and the anesthesiologist wouldn't start until we
14 had neck veins going to where they could control the amount
15 of blood they gave. Because the femoral has a chance that
16 it's not going in the patient. It's actually going through
17 the ruptured liver or the ruptured spleen.

18 Q I see. And is that a problem generally?

19 A It doesn't help the patient.

20 Q Is that a problem in an execution situation?

21 A No, because they have not been in a car wreck or shot
22 or stabbed.

23 Q And if a complication occurred using femoral access
24 for an execution, would you consider changing back to
25 peripheral access?

1 A No.

2 Q Why not?

3 A It isn't reliable or predictable or safe.

4 Q So by predictable, what do you mean?

5 A We know that we're going to have -- the inmate is
6 unconscious in 15 seconds. He's paralyzed a minute and a
7 half after that. His heart will stop beating three to four
8 minutes after the injection starts. You cannot guarantee
9 that with a peripheral IV.

10 Q So by predictable, you know exactly how long it should
11 take?

12 A Yes. And you don't know that if you can't give the
13 drug rapidly.

14 Q And by reliable, what do you mean?

15 A We know it's going in there and it can't leak around
16 the needle. When you use a peripheral IV, you're using a
17 two-inch needle. You're not using a central line. So if
18 you force it, it will leak and leak into the hand. In the
19 case of the individual where the vein in the thumb was
20 used, I'm sure most of the medication went into his hand
21 rather than into his veins. With a central line that
22 doesn't happen.

23 Q I see. And when you said that the femoral procedure
24 is safe, what did you mean?

25 A No complications. I can't puncture a lung. Can't hit

1 the wrong thing. The vein is protected by muscle on one
2 side and the artery, which I can feel with my finger. So
3 if I could feel the artery with my finger and my finger is
4 on top of the artery, I'm not going to stick my finger.
5 And the nerve is on the other side of all of this, so nerve
6 and artery lacerations are impossible.

7 Q I see.

8 MS. ANDERS: And, Your Honor, I'd just like to
9 ask how much time I have left at this point.

10 THE COURT: We started at 1 o'clock and we'll
11 finish at 2 o'clock.

12 MS. ANDERS: I'm sorry. Finishing at 3 o'clock?

13 THE COURT: Started at 1 o'clock and finishing at
14 3 o'clock. You're correct. I'm sorry.

15 MS. ANDERS: I'd just like you to know that I'd
16 like more time than that.

17 THE COURT: I think you've asked for more time
18 and I told you already and I see no reason to change that
19 at this time, and I won't change it.

20 MS. ANDERS: I understand, Your Honor.

21 Q (By Ms. Anders) Would you be aware of it if a
22 complication of femoral access occurred during an
23 execution?

24 A It couldn't occur once I put that line in using this
25 method. We do these a hundred times a day in every

1 hospital across the nation and we walk out of that room
2 with the confidence that that is not going to fail once
3 that's in. That's why we use this method in every hospital
4 every day. It can't fail. The patient's life depends on
5 this thing functioning perfectly once it's inserted.

6 Q So are there any complications that could make
7 themselves -- that could become visible after you have left
8 the execution chamber?

9 A No. Complications can occur months and weeks later
10 due to long-standing problem, but the complications that
11 you are referring to that occur with the insertion, these
12 only occur on a person that is doing his first five
13 insertions. After someone has done ten of anything, he
14 will never have another complication for the rest of his
15 life.

16 Q I see. And do you examine an inmate after death?

17 A I disconnect the line and clamp it because it's a
18 Heparinized system. If it was not clamped the medical
19 examiner could not stop this thing from leaking. But we
20 are required to leave the catheter in place and simply
21 disconnect the hose and the cardiac monitors.

22 Q So do you examine the catheter site after --

23 A I can see it because I have to remove the sheet to
24 remove the IV tubing.

25 Q I see. I'm just going to introduce an exhibit.

1 You have just been given a photo which was part
2 of the documents that the State produced to us from the
3 Johnston execution.

4 A Yes.

5 Q I think that was 6/30/05.

6 A Yes, I think so.

7 Q Did you perform the femoral catheterization?

8 A Yes.

9 Q And do you see a hematoma in that picture?

10 A No.

11 Q Could you explain why you say that?

12 A I don't see one.

13 Q If I told you that three other physicians have looked
14 at these photos and thought they saw a hematoma there,
15 would that cause you to reconsider?

16 A No. They are just making your case. There's no
17 hematoma there.

18 Q So you have never had a person move or anything like
19 this while you're putting --

20 A No. They're sedated. They are very comfortable,
21 calm, relaxed. If they're agitated, upset, I will ask them
22 and if they want a sedative I will provide that for them,
23 so they are very calm. They don't feel this. They are
24 very comfortable.

25 Q I see. And have you had any training in the

1 pharmacology of thiopental?

2 A No.

3 Q What is the pH of thiopental?

4 A I have no idea.

5 Q Is it -- do you know whether it's acidic or basic?

6 A I know it's caustic. If that's basic, but I know it

7 will necrose if you infiltrate it.

8 Q Can you explain to me how thiopental distributes

9 through the body?

10 A By the bloodstream. It's given in the blood and it's

11 distributed immediately to all parts of the body.

12 Q So is there some progression? Does it go somewhere

13 first or --

14 A No, it goes everywhere immediately. That's why we use

15 the central line. All the drugs we use are distributed to

16 all parts of the body within five seconds. When you use a

17 peripheral IV it can be five to 15 seconds after you give

18 it before there is any effect. With a central line the

19 effect is immediate in every part of the body, so a drop of

20 blood that's in the heart is in your toe in two heart

21 beats.

22 Q I see. So the same thing is true with thiopental?

23 A Yes.

24 Q And what dose of thiopental would you consider too low

25 for execution purposes?

1 A 500 milligrams reliably, but if someone said the court
2 has said now you have to use 500 milligrams, I would say
3 one out of 20 may not be fully asleep when the other dose
4 is given and I would caution them that some observer might
5 say I don't agree, like seeing this hematoma which isn't
6 here, somebody would say, well, if you're only using 500
7 I saw his eyes blink, therefore he was not unconscious. So
8 if we're saying we're giving two grams, there isn't a
9 physician anywhere that would say that's an improper dose.

10 Q I see. And have you -- I think you mentioned talking
11 with people from other states about the execution
12 procedure.

13 A Yes.

14 Q Have you consulted with any other jurisdictions
15 recently?

16 A Yes, California.

17 Q And for what purpose?

18 A They had a big brew-ha about a canceled execution, so
19 I was talking with the warden at that time.

20 Q I see. And what was the substance of that
21 conversation?

22 A [REDACTED]

23 [REDACTED]

24 Q [REDACTED]

25 A [REDACTED]

1 Q [REDACTED]

2 A [REDACTED]

3 [REDACTED]

4 Q [REDACTED]

5 A [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 Q And have you consulted with any other doctors or
9 anything like that?

10 A No. None -- there's no other doctor knows anything
11 about this. If I would ask another anesthesiologist, which
12 I have, they are more interested in what the effects are
13 because they have never done anything like this and they
14 don't know what -- they really don't know what the effects
15 are.

16 Q I see. Have you talked with other states besides
17 California?

18 A Yes.

19 Q And what states?

20 A Lots.

21 THE COURT: Ms. Anders, I'm going to give you
22 five minutes to wrap this up.

23 MS. ANDERS: Okay. Thank you, Your Honor.

24 Q (By Ms. Anders) Could you give me some examples of
25 other states you have talked to?

1 A [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 Q [REDACTED]
5 [REDACTED]
6 A [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 Q [REDACTED]
13 [REDACTED]
14 A [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 Q I see. And just going back to injection speed for a
21 second, and I know I only have a couple minutes, was it
22 your recommendation to inject the drugs as quickly as
23 possible?
24 A Yes.
25 Q And why is that?

1 A There's no advantage to slow injection.

2 Q And why did you think that a fast injection would be
3 good?

4 A They don't do any good in the solution. You want a
5 rapid onset of the drug, and these drugs are rapid onset
6 drugs. If you give them slowly they just don't work. And
7 you want -- the timing is more critical than most
8 nonmedical people realize. The timing is really essential,
9 and if you wait too long after the pentothal, the heart and
10 blood pressure may eventually drop so the pancuronium
11 doesn't circulate. And you really require a strong heart
12 beat to circulate the pancuronium to the entire body. And
13 it's for the same reason that the potassium needs to be
14 circulated. It doesn't need to be sitting in a nonflowing
15 vessel. And the only way you can guarantee that is by
16 rapid injection.

17 Q Did you also have the understanding that the DOC
18 wanted rapid executions?

19 A They don't want to wait 25 minutes with witnesses
20 standing around wondering what happened.

21 Q So 25 minutes would be too long?

22 A Five minutes is too long. There's no reason why it
23 should take more than five minutes to perform three drug
24 injections and that they should have the effect on the
25 inmate. There's no point in prolonging this. That's cruel

1 and unusual.

2 Q And there's no medical reason to give the drugs any
3 slower?

4 A No. Only the initial dose of pentothal, which could
5 cause excitement or seizures, and once that plateau has
6 been reached, it's safe to give all three drugs as rapidly
7 as possible.

8 MS. ANDERS: Your Honor, that would conclude a
9 line of questioning, but I would note that I have other
10 lines of questioning that I would raise if allowed to do
11 so.

12 THE COURT: Any follow-up, Mr. Pritchett?

13 MR. PRITCHETT: A little bit, Your Honor.

14 CROSS-EXAMINATION BY MR. PRITCHETT:

15 Q Doctor, you discussed your understanding as to your
16 authority to conduct your involvement in executions up
17 until the present time. What is your current understanding
18 of who has the authority to determine whether changes may
19 be made in the method of execution?

20 A Yes, the Director has the ultimate authority on all of
21 these executions and after going through this process he's
22 going to be better informed what's going on. He may not
23 understand, so it's also my job to explain to him why these
24 changes are required or necessary or help keep him informed
25 of what we're doing and what's going on and why.

1 Q If you're informed that the plan is for executions in
2 the future to have five grams of the sodium pentothal or
3 the thiopental, would you deviate from that five grams
4 without informing the Director?

5 A If we could -- I'd really be surprised if we would be
6 able to get it, but if it was -- after we discussed this
7 and said I want five grams given and we could not obtain it
8 or give it, yes, he would be informed or I would inform him
9 that I can give that safely but I have to use two syringes,
10 is that acceptable. And we would discuss that.

11 Q And what is your understanding as to who would be able
12 to make the final call on that decision?

13 A The Director would, but I would have to explain the
14 timing and what it would appear or how it would affect the
15 other drugs, and he's very receptive to my education.

16 Q So it would be the Doctor's call based on your advice?

17 A Yes. The Director's call.

18 Q If you were to change any of the drugs at this point,
19 would that be something that you now would expect to inform
20 the Director of?

21 A If I had changed any drugs at any time, if I changed
22 the drug, absolutely I would have informed the Director.

23 Q Let me back up. If you had changed the dosages -- if
24 you change the dose of any drug in the future, is that
25 something you understand the Director wants to know?

1 A He wants to know that now. And in the past my
2 understanding was as long as the -- it was still sufficient
3 doses, I thought he did not need to be informed, but now he
4 will be informed of changes as they occur.

5 Q And if there is ever a need to go from a femoral
6 vein access to some other sort of access, is it your
7 understanding that that's something the Director wants to
8 be informed of?

9 A I will so inform him, but I am -- I'm gowned, gloved,
10 prepared to do it, so I will simply switch from one to the
11 other and then I will inform him after I have done it
12 probably, simply because of how we are dealing with this,
13 unless he tells me I want to know before you switch, then I
14 will of course do that. But it's my recommendation that I
15 will notify him if I have to make a change.

16 Q So if the Director indicates he would like to know
17 and make the final decision if you have to change from a
18 femoral access to some other access, is that what you would
19 do?

20 A He's the boss.

21 Q You indicated on one execution you had to go from a
22 femoral vein access because of intravenous drug use through
23 the leg to neck access, and you also discussed subclavian
24 access.

25 A Yes.

1 Q Are those common means of obtaining access for drugs
2 in a surgical setting?

3 A Yes, it's preferred by the anesthesiologist, and they
4 use the neck and subclavian interchangeably because the
5 insertion point is only an inch apart and they wind up in
6 exactly the same location, so neck access and subclavian
7 access means internal jugular access.

8 Q So subclavian or neck is more standard in surgical
9 procedural --

10 A Absolutely, for the reasons I stated, not only with
11 trauma, but then the anesthesiologist has complete
12 control. The anesthesiologist can take this catheter out
13 and by inserting a cellular wire back in, she can exchange
14 that for one, two, or three other catheters in a crisis
15 situation, but she couldn't do that if it was under the
16 drapes in the leg. So the anesthesiologist has the
17 capability of quickly switching to a larger or additional
18 catheters using this in the neck, or the triple lumen can
19 use the extra lumens. But they just won't start a case
20 unless they have a neck access that they can actually put
21 their hands on so they can see if it's not functioning
22 properly.

23 Q If it were necessary for you to recommend access other
24 than femoral access through the neck or through the
25 subclavian entry -- and by subclavian, is that near the

1 clavicle?

2 A Subclavian is under the clavicle, yes.

3 Q If it became necessary for you to make a
4 recommendation that we go from femoral -- the execution
5 site go from femoral access to one of those other two
6 access, are those types of venous access that you have
7 experience in performing?

8 A Yes, but it requires significant modification of the
9 facility. In other words, the bed must have the capability
10 of being tilted with the feet up so these veins would
11 dilate sufficiently to guarantee safety. Plus it would be
12 prudent to have chest tube capability available. I have
13 rudimentary chest tube capability on this tray as I have
14 selected. But if you said I would always do subclavian, I
15 would have chest tube available on every occasion.

16 Q So if in a rare instance you needed to go subclavian
17 or neck for access, would you be able to do that, as you
18 understand, in the current set-up of the prison where
19 executions occur?

20 A This tray is set up to be used interchangeably in
21 either place, and that's why we selected this particular
22 tray. It's actually designed as a subclavian catheter
23 which can be used as a femoral catheter, but it's just
24 called a central line triple lumen.

25 Q What's the standard dose in a surgical setting for

1 sodium pentothal?

2 A Usually those ampules are 500 milligrams or less.
3 When an anesthetic is being induced, the anesthesiologist,
4 if they were using pentothal, would give a dose to the
5 point where they would see the facial reaction indicating
6 the pentothal had taken effect. They immediately stop
7 giving, whether they have given 100, 200, 300 milligrams,
8 immediately stop giving the pentothal and then immediately
9 paralyze and intubate the patient and start the anesthetic,
10 which is the gas, going through the inhalation tubing in
11 the tracheal tube. So the actual anesthetic agent goes
12 through the tracheal tube and they must reach a sufficient
13 level of gas. So if you start the operation five or ten
14 minutes after the gas is started, the individual will move
15 because they do not have sufficient anesthesia for the
16 procedure. So it takes about ten to 15 minutes for a gas
17 to render them safely unconscious, stay unconscious, and
18 also relieve all pain.

19 Q Of course we don't use gas in the execution process.
20 You have indicated that 2 or 2.5 grams in your judgment is
21 enough to permit the administration of the remaining drugs
22 in a painless manner. I was kind of confused in the
23 testimony myself. I'd just like to ask the question
24 directly. If 2 to 2.5 grams are what's given, is that
25 sufficient in your judgment, to a reasonable degree of

1 medical certainty, to keep the inmate unconscious and
2 unable to feel pain for the time period it would take for
3 the execution to be completed?

4 A The two-gram dose would ensure that he would stay
5 unconscious for at least 15 minutes in 99 percent of the
6 population. The only qualifier would be body fat, a
7 certain percentage of body fat would absorb the drug and
8 not allow it to circulate. It's actually effective only in
9 the brain, but you have to have it everywhere in the body
10 to keep that level in the brain available.

11 Q And an execution does not take 15 minutes.

12 A No. We're done in three to five minutes.

13 Q On the photograph you were shown, I think it's
14 identified as Exhibit No. 5 --

15 A Yes.

16 Q -- you said you didn't see a hematoma.

17 A What they're seeing is where I --

18 THE COURT: Doctor, there isn't a question in
19 front of you yet. Let's get the question.

20 Q (By Mr. Pritchett) What would you see or what would
21 you expect to see if there was a hematoma? How can you say
22 there's not one here?

23 A What they're seeing is the site where I injected my
24 local anesthesia. It causes a little blue mark. A
25 hematoma would be the size of a tennis ball.

1 Q So you don't see any -- and would that have a
2 distinctive color to it, the tennis ball?

3 A It would not necessarily have a color. It takes hours
4 for the color to develop, and since we're doing a deep
5 injection inside other tissue you would see the tennis ball
6 and the color would not occur until the next day, but the
7 tennis ball would be obvious. And it would only occur if
8 the artery was punctured. You cannot get a hematoma from a
9 vein. All you see is where I injected the local.

10 Q What if any significance is there to the blue line
11 that you mentioned?

12 A That's where the local anesthesia was injected with a
13 25-gauge needle and that -- in some instances, I not only
14 feel for the femoral artery but I will also mark it with a
15 magic marker. I do not see the marker on this inmate. I
16 probably used my finger because he was probably thin. But
17 if it's a moderately obese individual I will use a magic
18 marker to exactly outline the landmarks so I'm sure I'll
19 miss the vital structures.

20 Q Assuming there were a hematoma in some case, what
21 effect, if any, would a hematoma have in the execution
22 process?

23 A It would have none on the execution because this
24 catheter end is 16 inches away from where I inserted it and
25 it's in a free-flowing vessel. We can confirm the free-

1 flowing vessel by aspirating any one of those three ports.
2 So if it was kinked, curled, knotted, subcutaneously
3 inserted, it would be immediately obvious that it was not
4 functioning properly.

5 MR. PRITCHETT: That's all I have, Judge. Thank
6 you.

7 MS. ANDERS: Just a couple questions, Judge.

8 REDIRECT EXAMINATION BY MS. ANDERS:

9 Q So, Doctor, is there a written procedure or regulation
10 somewhere that delineates your discretion as to what
11 changes you tell the Director of Corrections about?

12 A Not yet, but I bet there will be.

13 Q So if you had to -- if you had to make a change during
14 an execution, say in the heat of the moment, such as you
15 mentioned going to neck access, is that something that you
16 would tell the Corrections Director about after the fact?

17 A I would tell him after I was done, because once I
18 start inserting this line I cannot stop. I have all the
19 sterile equipment prepped and ready to go, so I simply take
20 the needle and move to the neck area and insert it. Then I
21 would so inform the Director. In fact, in the instance
22 where I did change to a subclavian in the drug addict, I
23 immediately informed the Director there was a different
24 line and the bandage would be on the inmate's shoulder and
25 visible to the gallery, because he was going to immediately

1 be confronted by gallery, as I call them witnesses, and say
2 what was that patch on his shoulder thing, I didn't see
3 that before, or what was that, and he would immediately
4 know that because of his addiction problem we had to use a
5 different type of IV.

6 Q I see. So the one time that you went to neck access,
7 that was a subclavian access?

8 A Yes. And immediately informed the Director when I did
9 it.

10 Q I see. And does the gurney that's currently in the
11 execution room have the capability of tilting?

12 A I don't think so, but again we've had two or three
13 different gurneys. If it's a hospital bed, it has a switch
14 under the springs that allows me to tilt, or I simply, in
15 this case where I put in a subclavian, two of the stronger
16 guards simply lifted the bed twelve inches in the air and
17 held it while I inserted the needle which took about five,
18 ten seconds.

19 Q And what kind of lines of communication do you have,
20 if any, with the Director during an execution?

21 A There is a radio that's by all senior guards. It's in
22 the room with me. And there's two or three telephones.
23 One is only a direct access to the Director's desk.

24 Q And do you use that ever during an execution?

25 A I have never used it. I simply inform someone else

1 what I was doing, or did on the case of the subclavian, but
2 I have never had a circumstance arise that I have had to
3 talk to him directly.

4 Q What type of circumstance do you think would require
5 you to talk to him directly?

6 A Well, we have gone through so many with so few
7 problems, and a lot of it has to do with the sedation that
8 we administer before we start the IV, that I can't
9 anticipate problems. That could only occur when the inmate
10 is being brought into the room by the six guards, and if
11 he's foolish enough to attempt something with those six
12 guards, he wouldn't -- once those six guards have him
13 strapped down, he is immobilized, arms, legs, wrists,
14 ankles, pelvis, knees and shoulders, and by that time I'm
15 in and he's aware of who I am, what I'm doing and I'm
16 asking him if he's comfortable, if he would like more
17 sedation, that I was going to inject a local, it was going
18 to sting just slightly and then I was going to insert the
19 line and he would not feel anything, and that's about the
20 extent of our conversation, and he usually thanks me for
21 not hurting him.

22 Q Do you know if an anesthesiologist would opt for a
23 central line as a method of delivering anesthesia if no
24 IV were already in?

25 A All anesthesiologists prefer a central line where the

1 operation will take over an hour.

2 Q Do you think they would use it as their first choice
3 method of obtaining venous access?

4 A Only if it was over an hour, if they anticipated a
5 blood transfusion. For a hernia repair, for routine
6 gallbladders, with experienced surgeons, they will not.
7 They will only start a peripheral IV with a flexible
8 catheter. Only when you're doing a vascular procedure, a
9 colon resection, stomach, total hip, total knee, will they
10 require -- hysterectomy, will they require a central line
11 or prefer a central line. Again, it's based on their
12 confidence in their surgeon. There are certain surgeons
13 that want a central line on every patient. Other surgeons,
14 they know they can get by with a peripheral IV. So again
15 with this it's their judgment coming into play.

16 Q And if an inmate were obese, I think you mentioned
17 that you might need to use more thiopental. If you were
18 faced with an obese inmate, would you adjust the dose?

19 A If he weighed over 300 pounds, but again if he was six
20 foot five and lifted weights every day, he would not be
21 considered obese. So it has more to do with body fat
22 rather than total weight. But I just use the 300 pounds,
23 that's what anesthesia uses as a guideline to reconsider if
24 they will require additional. In the clinical practice
25 they simply give pentothal until they see the reaction they

1 want. In our situation, we have to be prepared to give an
2 overdose and we have to calculate what that overdose will
3 be.

4 Q I see. And so if you were confronted with an inmate
5 who was obese, how much would you want to give?

6 A A minimum of three grams is all.

7 Q I see. And would you have the capability of mixing
8 three grams?

9 A I would then use two syringes of the current solution
10 and inform them it was going to take two minutes for the
11 first injection and then proceed with the rest of the
12 injections to completely assure that there would be no
13 problem.

14 Q I see. But I think you testified before that you
15 prefer not to change the number of syringes.

16 A I do.

17 Q Okay.

18 MS. ANDERS: Thank you. That's all I have,
19 Judge.

20 MR. PRITCHETT: A couple more, Judge.

21 RE-CROSS-EXAMINATION BY MR. PRITCHETT:

22 Q Doctor, if the Director issued an order, either orally
23 or in writing, that if you were to change the access from
24 femoral access to some other access, and you discovered you
25 needed to do it, would you comply with that directive from

1 the Director of the Department of Corrections?

2 A Yes. This central line can actually be inserted in an
3 arm and then simply threaded up the arm into a central
4 line, which is another possibility we have discussed, if
5 for some reason -- but when we present the arguments back
6 and forth of central line vs. peripheral line or long
7 peripheral lines, this is still the most safest,
8 comfortable, reliable way of assuring that we're going to
9 effectively administer the drugs in proper sequence and
10 expect a very predictable result.

11 MR. PRITCHETT: Thank you, Doctor.

12 THE COURT: Okay. On this protective order, as I
13 understand your request, it's any information that doesn't
14 have a direct bearing on the identity of John Doe 1 ought
15 to be subject to the public purview or to your inquiry or
16 whatever you want to do with it; is that correct?

17 MS. ANDERS: We would certainly not use it for
18 any purpose other than this litigation, but I think many
19 subjects that we covered --

20 THE REPORTER: I just cannot hear you over there.

21 MS. ANDERS: Well, I was saying that plaintiff
22 and plaintiff's counsel would certainly not use any of this
23 deposition for any purpose besides this litigation, but
24 there have been many subjects that we have covered in this
25 deposition that already are subject to public access

1 through the court's filing system because they have been
2 covered in the interrogatories. They're in interrogatory
3 responses that have been filed by the defendants.

4 THE COURT: Your objection to that?

5 MR. PRITCHETT: Judge, it's more logistical than
6 anything. If the whole deposition is subject to the
7 protective order we don't get into any disagreement among
8 the parties as to what's identifying information and what's
9 not. It's just a very bright line.

10 MS. ANDERS: I think --

11 THE COURT: I think the protective order
12 modification is fair and reasonable and so I will allow
13 it. If there is any concern about what is or what isn't
14 going into the category of the identity of the witness,
15 then I urge counsel to consult the court.

16 MS. ANDERS: Just to be clear, Judge, so the
17 whole deposition won't be subject to the protective order,
18 but information that could be used to identify John Doe 1
19 could be subject to --

20 THE COURT: I think the way you framed it in your
21 motion to the court adequately frames my response, which I
22 hope I have already addressed.

23 MS. ANDERS: All right. Thank you.

24 All right. We will allow you to exit so Dr. Doe
25 can leave, and we'll be gearing up for trial next Monday.

1 MS. ANDERS: Thank you very much for your time.

2 MR. PRITCHETT: Thank you, Judge.

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REPORTER'S CERTIFICATE

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9 I, Donna M. Turner, Registered Merit Reporter,
10 hereby certify that I am a duly appointed, qualified, and
11 acting official court reporter for the Western District
12 of Missouri; that the foregoing pages contain a true and
13 correct transcript of the proceedings had in the
14 within-entitled cause on the date stated herein, and that
15 said transcript is a true transcription of my shorthand
16 notes taken therein.

17

18

19

Registered Merit Reporter

20

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DATE: _____

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