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1
              IN THE UNITED STATES DISTRICT COURT
               FOR THE EASTERN DISTRICT OF TEXAS
2
                        MARSHALL DIVISION
   ALLERGAN, INC.
                                   Civil Docket No.
3
                                    2:09-CV-97
4
   VS.
                                   Marshall, Texas
5
                                   August 3, 2011
   SANDOZ, INC.
                                    1:15 P.M.
6
                    TRANSCRIPT OF BENCH TRIAL
7
            BEFORE THE HONORABLE JUDGE T. JOHN WARD
                  UNITED STATES DISTRICT JUDGE
8
9
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   (Proceedings recorded by mechanical stenography,
   transcript produced on CAT system.)
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                11
12
                       PROCEEDINGS
13
14
                  COURT SECURITY OFFICER: All rise.
15
                  THE COURT: Please be seated.
16
                  Ms. Brooks.
17
                  MS. BROOKS: Thank you, Your Honor.
18
         ANGELO P. TANNA, M.D., DEFENDANTS' WITNESS,
19
                       PREVIOUSLY SWORN
20
                      DIRECT EXAMINATION
   BY MS. BROOKS:
21
22
        Q.
             Good afternoon, Dr. Tanna.
23
             Good after, Ms. Brooks.
24
            Right before the lunch break, I was
        Q.
25
  frantically looking for a copy of Walters. We now have
```

```
1
   one before you in your binder. And it's DTX138.
   Oh, I'm sorry. That's the abstract actually, which you
 3
   did look at. Now, let's look at DTX137. And that is
  the Walters paper.
 4
             So you say, Dr. Tanna, you had not had a
 5
   chance to look at this before rendering your opinion; is
 6
 7
   that right?
        A. No, that's not true. Now that I see it, I do
 8
   recognize it. I have looked at this reference.
10
        0.
            So you did consider it in rendering your
11
   opinion?
             I did consider it, yes.
12
        A .
13
            All right. Then let's look, if we could,
        Q.
   please, at Bates No. 346, the page ending in that Bates
15
   number.
16
                  MS. BROOKS: And highlight, if we could,
17
   in the right-hand column where it begins similar
   means -- mean decreases in IOP.
18
19
       A. 346?
20
             (By Ms. Brooks) Yeah, 346. It should be the
   bottom right-hand corner, the Bates No. 000346.
22
            Do you have that?
23
            Yes, I do.
        A .
24
        Q.
             Okay. And it's also up on the screen.
25
             So let's see what Walters also disclosed about
```

```
this study. It says: Similar mean decreases in IOP
 2
   were noted for both dosing regimens at hours 2, 4, and 7
   in the diurnal measurements.
3
 4
             In the three-times-daily group, an additional
  mean decrease in IOP of 3.5 millimeters of mercury was
 5
   observed at hour 9, after the morning dosing, or two
6
 7
   hours following the afternoon dosing.
 8
             Do you see that, Dr. Tanna?
             Yes, I do.
 9
        A.
10
             So isn't it true that one of skill in the art
11
   would look at Walters and see that there was a
12
   statistically significant decrease in IOP at 9.0 hours
   after morning dosing on the three-times-a-day
13
   Brimonidine?
14
15
             Yes. And it is overall, in my opinion, that
16
   three-times-a-day Brimonidine is more effective than
17
   twice-a-day Brimonidine. And, in fact, that is in my
   expert opinion, and I used a different reference as the
18
19
   main reference for that, specifically Konstas.
20
                  THE COURT: Doctor, she hadn't asked you
21
  any of that.
22
                  THE WITNESS: I'm sorry, Your Honor.
23
                  THE COURT: If they want you to repeat
24
   that testimony or what's in your expert report, they'll
25
   ask you. But unless everybody's not listening to me,
```

```
the Court's going to start tightening up. I'm not here
 2
   to listen to lectures. I'm here for you to answer the
 3
   questions asked, and stop talking.
                  Are we clear?
 4
 5
                  THE WITNESS: Yes, Your Honor.
                  THE COURT: Thank you.
 6
             (By Ms. Brooks) And let's just see if we can
 7
   find the graph that correlates to this data in PTX134,
   which you don't have before you, Dr. Tanna, because it's
10
   too large, but has previously been discussed with
   Ms. Batoosingh.
11
12
                  MS. BROOKS: If we can go to PTX134 and
13
   specifically at Bates No. 676465, Mr. Exline.
14
             (By Ms. Brooks) And do you see this graph, Dr.
15
   Tanna?
16
             Yes, I do.
        Α.
17
             Could you show the Court where that
   3.5-millimeters of mercury difference occurs between the
18
19
   twice-a-day dosing of Alphagan and the three-times-a-day
20
   dosing of Alphagan?
21
             It's not doing --
        A.
22
       · Q .
             Here, I'll try to help you.
23
        Α.
             I have a pointer. May I use a laser pointer?
24
             Sure. Or did I get it close right there?
        0.
25
        Α.
             Well, that's it, yes.
```

```
1
        0.
             Okay. And so, again, you agree that -- one of
   skill in the art would know, based on this data, that
  there was an actual statistically significant decrease
 3
   in the reduction of intraocular pressure at
   approximately hour 9 between the three-times-a-day
  dosing of Alphagan and the twice-a-day dosing?
6
 7
        Α.
             Yes, in this study.
             Now, let's move to your discussion of how the
 8
   amount of BAK that was claimed would have been obvious.
10
   You said the BAK was the most common preservative; is
   that correct?
11
12
        A.
             Most commonly used in ophthalmic formulations,
  yes.
13
14
        Q. And, in fact, we saw --
15
                  MS. BROOKS: Mr. Exline, could you pull
   up Defendants' Slide 10 that they used in opening
16
17
   statement? And if not, I can always put it on the ELMO.
18
                  There we are.
19
             (By Ms. Brooks) So this was shown to the Court
        0.
20
   by the Defendants in opening statement showing all the
   different drug products that contain BAK.
21
22
             Do you agree with that, Dr. Tanna?
23
             I do.
        Α.
24
             But let's look at the amount of BAK in these
25
  various products. Isn't it true that there are no less
```

```
1
   than six different amounts of BAK in these various
   ophthalmic products?
 3
        Α.
             That looks right.
             Thank you.
 4
        Q.
 5
             Let's move on now to your discussion of other
   combination drugs. You told us about a drug called
 6
   Timpilo; is that right?
 7
             I did, yes.
8
        A.
             And you told us about a drug called Cosopt.
   Of course, we know about that, right?
10
11
        Α.
             Yes.
12
             And also a drug called Xalacom; is that right?
13
        Α.
             That's correct.
14
        Q.
             In fact, on Slide 36 that you used, you showed
15
   both the Timpilo, the Cosopt, and the Xalacom.
16
             Now, in looking more closely at the Timpilo
17
   picture that you used, that's not actually a picture of
   Timpilo, is it?
18
    A. I don't know that -- I can't tell from that
19
20
   picture. I don't know.
21
             Isn't it, in fact, just a picture of the
22 bottle of Pilocarpine?
23
             I don't think so, because it typically would
        Α.
  have a green cap. So I can't tell from this picture. I
25
   am not sure what that's a picture of.
```

```
Okay. Now, Timpilo has never been approved
1
        Q.
   for use in the United States, correct?
 3
             I was under the impression that it was in use
        Α.
   in the United States. That's my impression. I could be
 5
   mistaken about it, but my understanding is that it was
   in use in the United States.
6
 7
        Q. Okay. What about Xalacom; has Xalacom ever
   been approved for use in the United States?
 8
9
        Α.
             No, it has not.
             Now, while we're talking about Xalacom --
10
11
                  MS. BROOKS: Let's just leave that up
12
   there, if we could, Mr. Exline.
13
             (By Ms. Brooks) We're going to revisit some
   organic chemistry.
14
15
             Xalacom is the active ingredient in
16
   Latanoprost; is that right?
17
             That's correct.
18
             And Latanoprost is what's known as a
19
   prostaglandin analog; is that correct?
20
             That is correct.
        Α.
21
             Are the prostaglandin analogs normally your
22
   first choice of medication for a new glaucoma patient?
23
             For me today, yes.
        A.
24
             And, in fact, the Latanoprost is sold here in
25
   the United States as Xalatan; is that right?
```

```
1
        Α.
             That's correct.
2
             But the combination of Xalatan and Timolol,
   also known as Xalacom, has never been approved for use
3
   in the United States; is that correct?
             That is correct.
5
        Α.
             And you yourself have never prescribed the use
6
        Q.
7
   for Xalacom, correct?
8
             I have never prescribed Xalacom. That's
   correct.
10
        Q.
             Now, in that same category of prostaglandin
11
   analogs, would you put Travoprost?
12
        A.
             It is in the same category.
             And that's also known as Travatan; is that
13
        Q.
14
   correct?
15
             That's correct.
        A.
16
             There is no combination drug of Travatan and
        Q.
17
   Timolol approved for us in the United States; is that
18
   correct?
        Α.
             That is correct.
19
20
             And also within what you would call a
21
   prostaglandin analog, or we would call a prostamide, is
22
   a compound called Bimatoprost.
23
             Are you familiar with that?
24
             Yes, I am.
        A .
25
             And Bimatoprost is sold here in the United
        Q.
```

```
States by Allergan under the name Lumigan.
1
 2
             Are you familiar with that?
 3
        Α.
             Yes, I am.
             There are no -- I think you mentioned that
   Ganfort, which was a combination of Bimatoprost/Timolol
   drug; is that right?
6
 7
        Α.
            Correct.
             But Ganfort is not approved for use here in
8
   the United States; is that correct?
10
             No, it's not.
        A.
11
             And just to show how subtle differences make a
   very big difference, Bimatoprost and Latanoprost, would
12
13
   you put them in the same category as far as mechanism of
14
   action?
15
        A. There may be small differences in terms of the
  mechanism of action. I think it's a matter of
16
17
   controversy.
18
        0.
             Well, in fact, Latanoprost is what's known as
19
   17-phenyl-PGF2-alpha, correct?
20
        Α.
             I know there's a PGF2-alpha-agonist.
21
        Q.
             Okay. And at the Cl position on the alpha
22
   chain is an ester; is that right?
23
             That I don't know offhand.
24
             So I may know a little more organic chemistry.
25 What about Bimatoprost? Are you aware that if the C1
```

```
1
  position on the alpha chain of Bimatoprost is an amide?
2
             I believe that I can picture that and agree
3
  with you on that, but I would have to look at the
   structure to be sure. It's a complex -- it's a big
 4
5
   molecule, and I don't know offhand for sure.
6
             Would you agree with me that an ester is
        Q.
 7
   different than an amide?
8
        Α.
             It certainly is.
             And can, in fact, behave differently in situ?
9
        Q.
10
        A.
             Yes, it can.
11
             Now, let's go to -- back to the Timpilo. You
        Q.
12
   should have in your binder, Dr. Tanna, the label for
13
   Timpilo, I hope. And I don't know if we numbered it
   since it wasn't actually previously in use, but if you
14
   go through your binder, you should see a label for
15
  Timpilo.
16
17
             Can you tell me approximately where?
             Oh, it's not in your binder. Sorry.
18
        0.
19
                  MS. BROOKS: May I approach, Your Honor?
20
                  THE COURT: Yes.
21
             (By Ms. Brooks) Now, Dr. Tanna, you've
   referred to Timpilo as a combination drug; is that
22
   right?
23
24
             It is a combination drug, yes.
25
             Well, if we actually --
        0.
```

```
1
                  MS. BROOKS: If we can go to the ELMO,
   Mr. Exline.
3
             (By Ms. Brooks) And here's the label for
   Timpilo.
 5
                  THE COURT: Not quite. Here we go.
6
                  COURTROOM DEPUTY: Can you push the doc
 7
   cam up there?
8
                  MS. BROOKS: I sure can. Let's see here.
   Doc cam?
10
                  COURTROOM DEPUTY: Uh-huh.
11
                  MS. BROOKS: Perhaps -- Mr. Exline, do
12
   you know -- do we have the Timpilo label in the system?
13
   We don't? Okay. It would help if I turn it on. I
14
   apologize. There we go. It's my fault. I'm sorry. I
15
   didn't even turn it on.
16
             (By Ms. Brooks) Dr. Tanna, isn't it a fact
17
   that Timpilo is dispensed in what is described as a
18
   unique, two-chambered vial system?
19
        Α.
            Yes.
20
             And one of the chambers contains a
   concentrated solution of Timolol and Pilocarpine at a pH
21
22
   of approximately 3.5; is that right?
23
             Correct. Correct.
24
             Now, in relation to the pH of the eye, 3.5 is
25
   extremely acidic, is it not?
```

```
1
        A.
             It is more acidic than the ocular surface and
   the pH of the eye in general, yes.
             And the need for this low pH is to prevent the
 3
   hydrolysis of Pilocarpine prior to dispensing; is that
 4
   correct?
        Α.
           Yes.
 6
 7
             So you would agree with me, Dr. Tanna, that a
  pH can have a significant effect on an active
   ingredient?
10
        Α.
             Yes, it can.
11
             And it says the other chamber contains -- can
12
   you pronounce that word for me, so I make sure I say it
  right?
13
14
        Α.
             It's diluent.
15
             Diluent solution with a pH of 7.8 to 8.2 for
16
  Timpilo 2; and 8.5 to 9.5 for Timpilo 4.
17
             Did I read that correctly?
18
        Α.
           Yes, you did.
19
        Q.
             And the two solutions are separated by an
20
   internal plug?
21
        Α.
             Yes.
22
             So this isn't the convenience of having two
       . 0 .
23
   active ingredients in one bottle, correct?
24
             It is a little more complicated than that.
  You have to mix them together effectively by using the
25
```

```
1
   system.
2
             And for whatever formulation reason, the
3
   formulators were not able to simply put the Timolol and
   the Pilocarpine into one bottle for shelf life?
5
             Correct.
6
             And had to go to this two-chambered system
        Q.
7
   with two different pHs and a plug in the middle; is that
   right?
8
9
             That's right.
        A.
10
           Now, another -- so that's the
11
   Pilocarpine/Timolol one.
12
             You also mentioned a combination product
13
   called Probeta, which is Levobunolol and Dipivefrin?
14
             It's pronounced Dipivefrin (pronounces).
        A .
15
        Q.
             Dipivefrin (pronounces). Thank you.
16
                  MS. BROOKS: Should I push something to
17
   qo?
18
                  MR. LOVE: It's there.
19
                  MS. BROOKS: There we go. I think we're
20
  back.
21
             (By Ms. Brooks) And that's called Probeta; is
        0.
22
   that right?
23
             That's correct. That's available in Canada.
24
             So that's never been approved for use here in
25 the United States, correct?
```

1 Α. That's correct. And you yourself have never prescribed it? 2 0. 3 A . Correct. Then we have the Xalacom, which we've already 4 Q. talked about, the Ganfort which we've already talked 5 about, and then something where it's Travoprost/Timolol 6 combination; is that right? 7 8 A. DuoTrav, yes. 9 0. DuoTrav. That also has never been approved 10 for use in the United States, correct? That's correct. 11 Α. 12 0. And you yourself have never prescribed it? That's correct. 13 Α. 14 Now, I take it you weren't part of -- well, 15 have you ever been part of an FDA approval process for a combination drug? 16 17 Well, we were one of the clinical trial centers for DuoTrav for one of the Phase 3 studies in 18 the U.S. 19 20 So there were Phase 3 clinical trials 21 conducted on DuoTrav here in the United States, correct? 22 That's correct. - A . 23 And I assume that you, as one of the centers, attempted to perform those studies accurately, correct? 24 Yes, we did. 25 Α.

- 1 0. And attempted to gather the best data that you could? 3
 - Correct. Α.
 - And despite your efforts and all the other centers' efforts, to this day, the FDA has refused to approve DuoTrav for use in the United States?
- 7 A. That's correct. They're stuck in the approvable letter stage. 8
- Q. And that's been going on for years, has it 10 not?
- 11 Α. Correct.

4

5

6

17

18

19

20

21

22

23

24

25

- 12 Just a couple more areas to cover, Dr. Tanna. You showed us DTX167 on direct examination. That was the Larsson reference, and you said that this showed 14 15 that the patients -- well, actually, why don't you tell us your recollection of what this study showed. 16
 - Well, this looked at normal subjects, not normal volunteers, and they were dosed with Timolol concomitantly with Brimonidine, each on a sort of BID schedule, but only a total of three doses were given. And then the investigators evaluated the rate of production of aqueous humor in the eyes as well as the intraocular pressure. And what they observed was that the intraocular pressure was lowest in the group of

people getting both Timolol and Brimonidine, and the

```
aqueous production flow rate was also lowest in that
1
           And the pressures were higher in the other two
   groups, people getting just Timolol or just Brimonidine.
3
             So this would lead one to believe that there
 4
   may be some benefit to concomitant therapy with Timolol
5
   and Brimonidine, correct?
6
 7
        A. It sort of validates and explains that when
  you use the two together, you get a lower pressure and
   you get an additive reduction in the production of
10
   aqueous humor.
             But this doesn't tell anyone of skill in the
11
        0.
   art whether one would be able to successfully combine
12
13
   these two drugs in the same bottle, correct?
14
             That is correct.
15
            And the individuals who were tested in this
   reference were actually healthy volunteers and not
16
   actually individuals suffering from glaucoma; is that
   right?
18 l
             That is correct.
19
        Α.
20
             And there were only a total of three doses
21
   given?
22
       - A.
             That is correct.
23
             And Larsson itself, this reference, is
   actually disclosed on the face of all of the patents in
24
   this case; is that right?
```

```
1
             That is correct.
        Α.
 2
             Now, let's move on. You showed and discussed
        0.
 3
   with the Court the 19T study and the 0 -- 507T study.
             Do you remember that?
 4
 5
        Α.
             I do.
 6
             Now, neither the 19T study nor the 507T study
   are prior art to the patents-at-issue; is that correct?
             That is correct.
 8
        Α.
 9
             Now, let's go, if we could, to your written
10
   description opinion.
11
             You stated in your opinion that Claims 1, 2,
   and 3 of the '149 patent were invalid based on lack of
12
13
   written description; is that right?
14
             That's correct.
        Α.
15
        Q.
            You did not render that opinion in relation to
   Claim 4, correct?
16
17
        Α.
             That is correct.
18
             Now, Claims 1, 2, and 3 deal with a method of
19
   treating glaucoma or ocular hypertension by topical
20
   administration of about .2% Brimonidine by weight to an
21
   eye of a person in need thereof, said improvement
22
   comprising topically administering to said eye in a
   single composition about .2% Brimonidine by weight and
24
   about .5% Timolol by weight twice a day as the sole
25
   active agents, wherein said method is as effective as
```

```
1
   administration of .5% Timolol twice a day and .2%
  Brimonidine three times a day to said eye, wherein the
  two compounds are administered in separate compositions.
3
             Did I get the claim correct, I hope?
 4
 5
        Α.
             Yes.
             All right. Now, let's look at where the
6
7
   effectiveness of administration is discussed in the
   patent itself.
9
             If you would go, please, sir, to Column 4 and
  begin with Example 2. Do you see that?
10
11
             I do. I can go to it in my own exhibit,
12
   because I can't see -- okay. There we go.
13
        Q. There we go.
             So this is saying here, this is a study that
14
15
   it's describing, correct?
16
        Α.
             In Example 2, yes.
17
             Yes.
        0.
             Uh-huh.
18
        Α.
             And did you have an opportunity, Dr. Tanna, to
19
20
   compare the description of this study to the 13T study
21
   that was submitted by Allergan to the FDA?
             I did.
22
      - A.
23
             Now, were you here when Dr. Whitcup testified?
24
        Α.
             I was.
25
             Did you hear Dr. Whitcup say that what the FDA
        Q.
```

```
requires for initial clinical trials of a combination
2
   product is that the combination product be compared to
   each of the monotherapies?
3
 4
             Yes, I heard him say that.
5
             And you have no reason to disagree with that;
   is that right?
6
7
             I don't disagree.
        Α.
             So what the FDA wanted to see was the efficacy
8
   of Combigan as compared to Brimonidine three-times-a-day
10
   monotherapy, correct?
11
        A.
             Yes.
12
        Q.
             And the FDA wanted to see the efficacy of
   Combigan as compared to twice-a-day Timolol monotherapy,
13
   correct?
14
15
        Α.
             That was part of what the FDA wanted to see,
16
  yes.
             And if we go on Example 2, which begins at
17
   Column 4, Line 49, it goes all the way through to the
18
19
   bottom of Column 4, all the way through to the Column 5,
   and all the through to Column 6, 7, 8, and essentially
   ends at Column 9 where it ends with Example 2; is that
21
22
   right, Dr. Tanna?
23
             That's correct.
        Α.
24
             And what the conclusion as reported of the 13T
25 study in the patent says: Conclusions -- and I'll stick
```

```
with the right specification so we have the numbers
1
2
   right.
             Conclusion starts at the bottom of Column 8
3
  and runs over into Column 9. Here we go.
 4
5
             Conclusions: The combination treatment,
  Brimonidine Tartrate .2% with Timolol .5% administered
   twice a day for three months was superior to Timolol
   twice a day and Brimonidine three times a day in
   lowering the elevated IOP with patients with glaucoma or
   ocular hypertension; is that right?
10
             That's what it says.
11
        Α.
             And it says the combination administered twice
12
        Q.
13
   a day demonstrated a favorable safety profile that was
14
   comparable to Timolol twice a day and better than
   Brimonidine three times a day with regard to the
15
   incidence of adverse events and discontinuations due to
16
17
   adverse events; is that right?
             Yes.
18
        Α.
             So all of this is in the specification of the
19
        Q.
20
   '149 patent, correct?
21
        Α.
             That's correct.
22
             Both the methodology of how the test was run,
       · Q .
23
   correct?
             That's correct.
24
        A .
25
        0.
             The fact that there were three groups in the
```

```
test, correct?
1
 2
        Α.
             Correct.
 3
        Q.
             The dosing regimen for each of the groups,
   correct?
 5
        Α.
             Correct.
             And, in fact, Dr. Whitcup told us that in
6
        Q.
   order for the Timolol-only group not to know that they
   weren't getting Brimonidine, they were given a third
8
   drop as a placebo?
10
             And the same is true for the fixed combination
11
   group.
12
             Exactly. So in order to keep this a
13
   double-masked study, there was even a placebo drop
14
   administered to the combination group, and a placebo
15
   drop administered to the Timolol monotherapy group; is
   that right?
16
17
             Right. That's very standard.
        Α.
18
        Q.
             And this is all detailed in the patent,
19
   correct?
20
        A.
             Correct.
21
             Then if we look specifically at Table -- the
22 table that is at the bottom of Column 3, Mr. Beck told
   us that this is the actual formulation that was the
23
24
   final formulation for Combigan.
25
             Are you aware of that, Dr. Tanna?
```

```
1
        Α.
             That he testified to that effect, I was not
 2
   aware of that, but I accept that to be true.
             Okay. So in the patent, one of skill in the
3
 4
   art would know how to make Combigan, correct?
 5
        Α.
             Correct.
 6
             And one of skill in the art would know how to
 7
   conduct a study to determine whether or not Combigan was
   as effective as Brimonidine three-times-a-day
   monotherapy and as effective as Timolol twice-a-day
  monotherapy, correct?
10
11
             That one wouldn't know how to conduct such a
12
   study?
13
        Q.
             Yes. It's all laid out in the patent itself.
             I'm not sure it really tells you how to
14
15
   conduct a study in the future. I don't -- I don't see
   that in the patent.
16
17
             Is the methodology of the study laid out in
   the patent?
18
19
             The methodology of the study that was done in
20
   the example is laid out in the patent, but you're
21
   describing a different study, aren't you?
22
             Maybe I misunderstood.
23
       0.
             Oh, I'm sorry, Dr. Tanna.
24
             The study as described in the patent is a
25
  study where Combigan or the combination product was
```

```
compared to Brimonidine three-times-a-day monotherapy
   and was compared to Timolol twice-a-day monotherapy,
 2
   correct?
 3
 4
             That's correct.
             And that study is laid out in the patent,
 5
 6
   correct?
 7
             Yes, it is. Yes.
        Α.
 8
        Q.
             And the results of that study are laid out in
   the patent, correct?
10
        Α.
             Yes.
11
             And the formulation for the combination
12
   product is out -- also spelled out in the patent,
   correct?
13
14
        A. That's correct.
             Thank you.
15
        Q.
16
             Now, I have just one more area of questioning,
17
   and it sort of goes to your overall obviousness opinion.
             My understanding, if I heard you correctly,
18
19
   Dr. Tanna, is that -- well, I don't want to overstate
20
   it. You seem to show us references that would encourage
21
   one to want to combine Brimonidine with Timolol in the
22
   same bottle.
23
           Correct.
24
        Q. And you didn't show us any references that
25 might discourage one from doing that; is that right?
```

```
1
        A.
             That's correct.
 2
             Now, let's look at the Brimonidine label
 3
   itself. It's DTX129 that you showed the Court.
                  MS. BROOKS: And if we go to the second
 4
   page of that reference and blow up, Mr. Exline. It's
 5
   very hard to see, but if we can blow up the top part
 6
 7
   here.
                  Oops, I don't know what happened. If you
 8
   can -- the second column, if we can blow up about -- a
10
   little lower than that, please, about -- blow up the top
   part but all the way to where there's a break.
11
12
                  There we go.
13
             (By Ms. Brooks) If we look right down here,
        Q.
14
   Dr. Tanna, right before it says at the very bottom
15
   tricyclic antidepressants.
16
             Do you see that?
17
             I do it. It specifically says to use it with
        Α.
   caution and take with beta-blockers.
18
             Timolol is a beta-blocker?
19
        0.
20
             That's correct.
21
             And the actual label for Brimonidine tells one
22
   of skill in the art to combine Brimonidine with caution
   with a beta-blocker, correct?
23
24
        A .
             That's correct.
25
             And certainly one of skill in the art would
        Q.
```

```
have read the label?
 2
        Α.
             That's correct.
 3
        0.
             Thank you.
 4
                  MS. BROOKS: No further questions.
 5
                  THE COURT: Redirect?
 6
                     REDIRECT EXAMINATION
7
   BY MR. BENSON:
 8
        Q.
             Good afternoon, Dr. Tanna.
        A. Good afternoon.
 9
10
                  MR. BENSON: If I could have the Timpilo
11
   reference that Counsel was showing you on the screen, if
   that's possible.
12
13
                  Was there a DTX number with that or
14
   anything?
15
                  MS. BROOKS: No, I'm afraid not, but we
16
   gave you a copy.
17
                  MR. BENSON: Well, that's okay.
18
             (By Mr. Benson) Do you have a copy of that in
19
   front of you?
20
             You're referring to the Timpilo product label?
21
            That's right.
        Q.
22
        Α.
             I have it.
23
             Now, you agreed with Counsel that the
24
  Pilocarpine and Timolol Maleate of Timpilo could not be
25 formulated in the same bottle, correct?
```

```
1
             Well, I would say that they weren't formulated
   in the same bottle. I don't know for sure that they
  cannot be formulated in the same bottle, but they were
 3
  not.
        Q. Well, let's look at the front of this -- of
 5
   this label, and Counsel showed you the first -- the
 6
   first paragraph right under presentation.
 7
             Do you see that?
 8
 9
             I do.
        Α.
10
        Q. And that was the paragraph you testified
   about?
11
12
       A. That's correct.
13
                  THE COURT: I've got a copy of it here,
14
  so I can follow you.
15
                  MR. BENSON: That's okay.
16
        Q.
             (By Mr. Benson) Well, now Counsel didn't show
   you the next paragraph, correct?
17
18
        Α.
           Correct.
19
           Okay. Could you please read that into the
20 record?
21
        A. Prior to use of Timpilo, the two solutions are
22
   mixed together, the resulting solution for
   administration has a pH of 6.4 to 6.8.
23
24
        Q. Does that indicate the Timpilo formulation is
  formulated into the same bottle?
25
```

```
1
        A .
             I'm not sure what you mean by formulated into
   the same bottle.
 3
        Q.
             Okay.
             Well, it is one bottle that has two separate
 4
 5
   chambers in it, so I guess you would call that one
   bottle.
6
 7
        0.
             Let's go to -- do you see where it says --
   well, it says here prior to the use of Timpilo, the two
 8
   solutions are mixed together.
10
             Do you see that?
11
        Α.
             Yes, I do.
12
             So you'll agree with me that the two separate
13
   solutions are being mixed together, correct?
             Correct.
14
        Α.
15
             If you could go to Page 8 of 10, and do you
        Q.
16
   see where it says pharmaceutical precautions?
17
             Yes, I do.
        A .
             And it says here -- and I'll read this into
18
19
   the record -- store at room temperature; do not freeze;
20
   protect from light; Timpilo is stable for four weeks
   after mixing.
21
22
             Did I read that correctly?
23
             Yes, you did.
        A.
24
             What, if anything, does that suggest to you as
25
   to whether or not these two drugs are being formulated
```

```
into the same bottle?
1
             I think they are formulated into a special
  bottle that has two separate chambers and then you kind
   of bring them together right before you're about to
   start using it. And then they're stable for four weeks.
   That's how I read it and hear it.
 7
        Q. So for four weeks the two drugs are mixed
  together, correct?
9
             Correct.
        Α.
            Now, in any -- in Claim 1 through 4 -- Claims
10
   1 through 4 of the '149 patent and Claim 1 of the '976
11
12
   patent, did you see any limitation relating to the shelf
   life stability of the formulation?
14
           No, I did not.
       Α.
15
                  MR. BENSON: I have no further questions,
16 Your Honor.
17
                 MS. BROOKS: No questions. Thank you,
   Your Honor.
18
19
                  THE COURT: Okay. You may step down.
20
                  Who will be your next witness?
21
                  MR. BENSON: Your Honor, we may re-call
22
   Dr. Tanna in a rebuttal case, if time allows.
23
                  THE COURT: Okay.
                  THE WITNESS: Shall I remove these items?
24
25
                  THE COURT: No. Somebody else will take
```

```
care of that.
1
                  Next witness.
 2
                  MR. RUZICH: Defendants call Dr. Laskar.
 3
                  THE COURT: Okay.
 4
 5
                  (Witness sworn.)
                  MR. RUZICH: Good afternoon, I'm Rich
6
7
   Ruzich, and I'll be handling for all Defendants,
   including Apotex.
9
                  THE COURT: Okay. Thank you, Mr. Ruzich.
10
                  MR. RUZICH: May I proceed, Your Honor?
11
                  THE COURT: Please do.
12
                  MR. RUZICH: Thank you.
        PAUL LASKAR, Ph.D., DEFENDANTS' WITNESS, SWORN
13
14
                      DIRECT EXAMINATION
15
   BY MR. RUZICH:
16
             Good afternoon, Dr. Laskar. Would you please
17
   introduce yourself to the Court.
18
        Α.
             My name is Paul Andrew Laskar.
19
           And are you currently employed?
        0.
20
        A.
             Yes, I am.
21
        Q.
            By whom?
22
        Α.
             I am self-employed. I have a consulting
23
   organization called Paul Laskar Associates.
24
             And what does your company do?
25
        Α.
             My company provides consulting services to my
```

```
clients in the area of chemistry manufacturing and
1
   controls with a focus on ophthalmic formulation as well
   as respiratory, dermatological, and nasal formulation.
3
   There's analytical chemistry issues around that,
 4
 5
   stability assessment, and preparation of regulatory
   documents and regulatory reports in -- in support of my
 6
   clients.
             Okay. Now, Dr. Laskar, you have a binder in
 8
   front of you that we're going to refer to throughout
   your testimony here today. And I'd ask you to please
11
   turn to DTX107 in your binder, which I believe is a copy
   of your CV.
12
13
             And let me know when you have that document in
14
  front of you.
15
             It seems to be missing a few pages. Oh, the
   pages are in an order in which I'm not familiar.
16
17
             That's okay.
18
             Well, I want to keep you on your toes, right?
        Q.
19
             After lunch, I think that's a good idea.
        Α.
20
             Okay. We'll take a few moments to review that
        Q.
21
   document. Is that document up-to-date?
22
             Yes, it is substantially up-to-date.
       Α.
23
             Okay. So what I want to first do is talk
        Q.
24
   about your education, and then we'll get into your
   experience.
25
```

```
1
             So why don't we first start with your first
   degree you earned from the University of Rochester.
 2
             Yes. I attended the University of Rochester
 3
   and earned a BA degree in 1965 in general science with a
   focus in chemistry and biology. Subsequent to that, I
 5
6
   attended and earned a BS in pharmacy and a master of
7
   science in pharmacy from the College of Pharmacy,
8
   University of Illinois, in 1968 and 1971, respectively.
             After which, I attended the Oregon State
9
10
   University and earned a Ph.D. degree in pharmaceutical
   science in 1974.
11
12
             Some years prior to that, after obtaining my
   bachelor of science degree in pharmacy, I took the
13
14
   licensure exam and became registered as a pharmacist and
15
   practiced pharmacy on a part-time basis between 1968 and
16
   approximately 1977. Somewhat later, I earned an MBA
   from the University of California-Irvine in 1988.
17
18
             Okay. So let's now talk about your actual
19
   experience as an expert drug formulator. After your
20
   Ph.D., what did you do?
21
             And I want to break it down to your academic
22
   experience as well as your private sector. So let's
23
   first take the academic experience.
24
        A .
           Very well.
25
             I joined the faculty of the College of
```

Pharmacy at the University of Illinois in 1973 and 1 remained there until 1980, during which time I developed 2 educational materials for pharmacy education as well as 3 teaching in basic pharmaceutics, various aspects of 5 pharmaceutical -- pharmaceutical technology, and pharmacokinetics. 6 In 1988 -- excuse me -- 1980, I joined the 8 faculty of the School of Pharmacy at Creighton University and taught substantially the same course 9 10 materials until 1982. And then after that? 11 12 Subsequent -- in late 1982, I joined Allergan 13 as a scientist in their R&D area, focusing on ophthalmic 14 therapeutics and was a scientist and section manager in 15 the ophthalmic area until, I believe it was, 1986. 16 During which time, I participated in the development of 17 Allergan's Levobunolol project, their beta-blocker, which they market as Betagan, as well as the combination 18 product that has subsequently been marketed as Pred-G, 20 as well as a leukotriene antagonist compound that was a 21 formulation I participated intimately in, as well as a

combination of two antimicrobial agents, a cephalosporin

that was combined with a Polymixin B Sulphate, which had

some significant formulation challenges inasmuch as the

two active ingredients were incompatible.

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22

24

25

```
1
             We managed to formulate that into a successful
2
   product that required lyophilization and reconstitution
3
   prior to use.
             In 1986, I transferred into the product
 4
5
   development area of Allergan's Dermatological Division
   and spent the rest of my career at Allergan in the
6
7
   Dermatology Division.
             Just so I'm clear, when you say Allergan, are
8
        0.
   you referring to the Plaintiffs in this case?
10
        Α.
             That is correct.
11
        Q.
             Thank you.
             Please continue.
12
13
             In 1988, in the fall of 1988, I joined a
        Α.
14
   startup company called Procyte in the Seattle
   metropolitan area who had a new chemical entity with a
15
16
   dermatology focus.
17
             In the middle of 1989, I actually rejoined
18
  Allergan in the dermatology area with the same position,
   manager of product development, that I left some 10
19
20
   months earlier, and continued and was promoted to
21
   Director of Product Development at Herbert Laboratories.
22
   And during that time, worked on several dermatological
23
   projects for Allergan at that time.
24
             In 1993, I joined another startup company
25
  called CoCensys, whose area was neurology as Director of
```

```
Pharmaceutical Sciences, and they had two new chemical
1
   entities. One an oral product and the other intended
2
   for injection as a sterile product, and developed
3
 4
   formulations for both of those to the point of an IND.
 5
             In 1994, I joined Santen, a -- in their U.S.
 6
   subsidiary. Santen is an ophthalmic specialty company
7
   headquartered in Osaka, Japan, and I joined them as
   Director of Pharmaceutical Development, and was with
   Santen for about nine years beginning as Director and
   then promoted to Vice President of Pharmaceutical
10
11
   Development, and was involved in their ophthalmic
12
   portfolio that included three successful NDAs during
   that period of time, as well as a number of INDs.
13
14
             One of the projects I worked on was a
15
   beta-blocker that Santen was interested in that was
   ultimately not pursued for the U.S. market, but is, I
16
17
   believe, currently marketed in Japan and some other
   markets.
18
19
             In addition, I served as a technical advisor
20
   to Santen's finished subsidiary, who was trying to
21
   develop a ready-to-use or was in the process of
22
   developing a ready-to-use combination of Pilocarpine and
   Timolol. They preferred not to use the reconstitutable
23
24
   version that was discussed just a short time ago, and
25
   advised them relative to formulation as well as market
```

1 stability and obtaining a reasonable shelf life. 2 In addition, I worked on a combination product that is a combination of a corticosteroid and an 3 antimicrobial, which entered clinical investigation by 4 5 way of IND in the United States and, I believe, also in -- outside the United States. It is -- I don't know 6 7 what its current development status is. It was still in development at the point I left Santen. 8 Q. Okay. 9 Also was involved in Santen's Prostonoid and 10 11 its formulation and early development. That formulation was not pursued for clinical development in the United 12 13 States due to the crowded marketplace that's been 14 alluded to previously, but is approved and marketed in Europe, Japan, and other markets outside the United 15 16 States. 17 During the course of that time, I wrote two 18 expert reports in support of regulatory filings for 19 those -- the -- two of the compounds that Santen was 20 registering. Those are in support of the European 21 filings. 22 In 2003, I joined Dey, LP. That is a -- as 23 Senior Director of Pharmaceutical Development. They are 24 a specialty company in sterile nebulized products as well as nasal products. 25

And directed the formulation, development, analytical chemistry, clinical supplies, technology transfer functions with Dey, and was intimately involved in preparing for an NDA submission that has subsequently been successful, as well as an ANDA for a nebulized product.

And formulated a combination product for respiratory use for nebulization. And for a time, was involved in two ophthalmic projects when Dey had an interest in developing a generic ophthalmic. One of those was developing a generic for Latanoprost and the other was a combination of Dorzolamide and Timolol, a generic version of Cosopt.

In the fall of 2006, I left Dey, and very shortly thereafter, formed Paul Laskar Associates and have been associated with this organization since that time.

As I alluded to or mentioned earlier, I provide consulting services to my clients, primarily startup companies, in the course of which I've been intimately involved and directed the formulation of several ophthalmic formulations, including two ophthalmic combinations.

One is a combination of -- of an antimicrobial and a corticosteroid. Another is a combination that's

```
used in the amelioration of dry eye, and revisited the
 2
  combination of Dorzolamide and Timolol again on behalf
   of a client as -- which is, as I mentioned, the generic
 3
   version of Cosopt.
 5
             So if my math is correct, you've been
   formulating drugs for just over 30 years or thereabouts?
 6
 7
        Α.
             I don't like to think about the age, but it's
   probably pretty close to that.
             Okay. Let's just focus on the products that
 9
        Q.
10
  you've been involved with as a drug formulator.
11
             You mentioned sterile products --
12
        Α.
             Yes.
             -- a moment ago. How many sterile products
13
        Q.
   have you developed?
14
            In excess of 30.
15
16
             Okay. And is your experience in sterile
17
   products relevant to the development of ophthalmic
   products?
18
19
             Yes. I would say more generally that
20
   formulation of almost any liquid is generalizable, and
21
   with sterile products being a subset of that and with --
22
   within the somewhat larger arena of sterile products,
23
   ophthalmic formulations are a subset with special
   requirements and special considerations.
24
25
            With regards to ophthalmic drugs, how many of
        Q.
```

```
1
   those have you developed?
 2
             Approximately 20.
3
             And how many combination products have you
   developed?
             I've -- I've been involved in the development
5
   of -- excuse me -- seven sterile combinations and a few
6
   non-sterile combination.
             And I believe you touched on a few of those
8
   while you were explaining your practical experience as a
   formulator.
10
             I was -- I did. Excuse me.
11
12
             Dr. Laskar, I noticed that you published about
13
   eight times; is that right?
14
        A.
             Yes.
15
             And do people who work in the industry tend to
16
   publish as much as academics?
17
           Not in literature that's publicly available.
        Α.
18
        Q.
             Does that diminish at all your ability to
19
   formulate a drug?
20
             I do not believe so.
21
                  MR. RUZICH: Defendants offer Dr. Paul
22
   Laskar as an expert in the fields of pharmacy,
   pharmaceutical drug formulation, and ophthalmic drug
23
   formulation, Your Honor.
25
                  THE COURT: Permit him to testify within
```

```
the confines of his opinions as revealed in his expert
1
 2
   report.
                  MR. RUZICH: Yes, sir. May I proceed?
 3
                   THE COURT: Please do.
 4
 5
                  MR. RUZICH: Thank you.
6
              (By Mr. Ruzich) Dr. Laskar, did you offer any
        Q.
 7
   reports in this matter?
             Yes, I did.
 8
        A .
9
        Q.
             And how many?
10
             The initial report and reply report.
        A .
11
             And did you have your deposition taken in
        Q.
   this matter?
12
             I did indeed.
13
        Α.
             Okay. Now, let's take a look at your binder,
14
        Q.
15
   and let's turn to JTX003.
16
             Do you recognize this document?
17
        A.
             I do.
18
        Q.
             And what is it?
19
             It is U.S. Patent 7,323,463 issued on the 29th
        A .
20
   of January, 2008, titled Combination Brimonidine and
   Timolol for Topical Ophthalmic Use.
21
22
             So for ease of reference, I'm going to refer
        Q.
23
   to this patent as the '463 patent.
24
             Does that sound fair?
25
        A .
             Sounds fair.
```

```
1
             And have you reviewed the '463 patent in it's
        Q.
2
   entirety?
        Α.
3
             I have.
 4
        Q.
             And have you reviewed all the claims of the
5
   '463 in its entirety?
6
        A.
             I have.
 7
        Q.
             Can you please explain to the Court just
   generally what the claims of the '463 cover?
9
             In a general overview sense, the claims of the
   '463 patent encompass a composition containing -- or
10
11
   comprising .5% Timolol, .2% Brimonidine in a single
   composition with using Benzalkonium Chloride as a
12
13
   preservative in an article of manufacture for topical
   treatment of glaucoma or ocular hypertension.
15
             Okay. Were you here during the testimony of
   Dr. Tanna?
16
17
        Α.
             Yes, I was.
             And do you recall him relating his
18
   understanding of the legal standard for anticipation?
19
             Yes.
20
        Α.
21
             And do you adopt that standard here for your
22
   testimony today?
23
        Α.
             Yes, I do.
24
             And you also heard Dr. Tanna's understanding
25
   of the legal standard for obviousness, correct?
```

```
1
             I do.
        Α.
2
             And do you adopt that standard for your
   testimony here today?
 3
             I do.
 4
             Dr. Laskar, in connection with your testimony
 5
6
  here today, have you reached any opinions about the
   claims of the '463 patent?
8
             I believe that the claims of the '463 patent
   are invalid on the basis of anticipation and/or
10
   obviousness.
        Q. Can you please turn to JTX004?
11
12
        A .
             I have it.
13
        Q.
             Okay. Do you recognize this document?
14
        Α.
             I do.
             And what is this document?
15
        Q.
16
             This document is U.S. Patent 7,642,258, issued
17
   the 5th of January of 2010, whose title is Combination
18
   Brimonidine and Timolol for Topical Ophthalmic Use.
19
            And just for ease of reference again, I'm
        Q.
20
   going to refer to this patent as the '258 patent.
21
        A .
           Understood.
22
             Great. And have you reviewed this document in
23
   its entirety?
24
            Yes, I have.
        Α.
25
             And have you reviewed all of the claims of the
        Q.
```

```
1
   '258 patent?
2
             Yes, I have.
        Α.
             And, again, if you could explain to the Court
3
   just generally what the claims cover of the '258 patent.
5
             In a general sense, they cover the same ground
   as the '463 patent with some additional specificity of
6
7
   Brimonidine being referred -- being referred to as
   Brimonidine Tartrate and Timolol as being referred to as
   Timolol Tartrate (sic).
10
        Q. And do the claims cover a fixed composition of
11
   those two ingredients?
12
             In the same fashion as it does for the '463.
             And does the '258 patent also cover an article
13
        Q.
14
   of manufacture?
15
             Yes, it does. And together with the use of
   Benzalkonium Chloride as a preservative.
16
17
            Let's back up for a moment here, just so I'm
        0.
18
   clear. With regards to Timolol that's claimed in the
   '258 patent, is that Timolol Maleate or Timolol
19
20
   Tartrate?
21
        Α.
             In the -- in -- I'm sorry. In the --
22
             In the '258 patent, yes, sir.
       - Q .
23
             If I misstated, I apologize. It's Timolol
24
   Maleate and Brimonidine Tartrate.
25
        Q. Thank you.
```

```
1
             And does -- do the claims of the '258 patent
   also cover a method of treatment both of glaucoma and
3
   IOP?
            Yes. And as I mentioned early on, it is --
 4
        A .
5
   is -- is substantially the same as the claims for the
   '463 with the additional specific -- specificity
7
   concerning the -- the salts of Brimonidine and Timolol.
8
             Dr. Laskar, in connection with your testimony
        0.
   here today, have you reached an opinion about the claims
   of the '258 patent?
11
            Yes, I have.
        Α.
12
            And what is your opinion?
        Q.
            My opinion is that the claims of the '258
13
   patent are invalid by virtue of anticipation and/or
15 obviousness.
16
                  MR. RUZICH: Your Honor, there's some
17 overlap between the '258 and the '463 patents, and so
   I'm going to make every attempt to streamline things
   here for Your Honor, okay?
19
20
        Q.
             (By Mr. Ruzich) Have you reviewed the
   specifications of both the '463 and the '258 patents?
21
22
            I have.
        A .
        Q. And how do they compare?
23
24
             They appear to be substantially the same. The
25
  '4 -- the specifications of the '463 and the '25 -- '258
```

```
patent appear to be substantially the same.
1
                                                The '258
   patent adds two additional examples, Example 2 and
3
  Example 3, that are not present in the '463 patent.
           Okay. And, Dr. Laskar, you're here today to
 4
5
   provide testimony only as to the '463 patent and the
   '258 patent, correct?
6
 7
        Α.
             That is correct.
8
             Okay. But have you reviewed the '149 and the
   '976 patents?
10
        A .
             Yes, I have.
           And why have you done that?
11
        Q.
12
             I've reviewed those inasmuch as it's my
        Α.
   understanding that the '463 patent and the '258 patent
13
   derive in some fashion from the '149 patent.
14
15
             Isn't it a fair characterization that the '258
   and '463 claims are similar to the '149 and '967 (sic)
16
17
   patent claims?
18
             The '976. I think you --
        Α.
19
           I'm sorry. The '976.
        Q.
20
             They are. The principal difference is that
   the '149 patent and the '976 patent referred to a method
22
   of treatment, whereas the '463 and the '258 patents
  refer to compositions.
23
24
             Okay. And just quickly, we've -- you've heard
  of the DeSantis patent?
25
```

1 Α. I certainly have. 2 Q. Okay. And with regards to the DeSantis 3 patent, was that disclosed -- is your understanding whether it was disclosed during the prosecution of the 5 '149 patent? A . I do not believe it was. 6 7 And as to the '976 patent, was DeSantis Q. disclosed during its prosecution? I do not believe so. 9 A. 10 Okay. And finally, as to the '463 patent, was 11 DeSantis disclosed to the Patent Office during this 12 prosecution? 13 Α. No. 14 Okay. And we all know it was disclosed during 15 the '258 prosecution; is that correct? 16 Α. Yes, we do. Okay. We're been bandying about this phrase 17 critical date. And just for the -- just to clarify, 18 19 what is your understanding of a critical date? 20 A. My understanding of the critical date is that it is the date of filing of the patent application for 21 22 the '149 patent, which is the 19th of April, 2002. 23 Okay. And you just testified a moment ago 24 that you were here when Dr. Tanna testified, correct?

That is correct.

25

A.

```
1
             And in his testimony -- or is his testimony
   consistent with your understanding of what was known to
 2
   a person of ordinary skill in the art with regard to
 3
   Brimonidine, Timolol, and the treatment of glaucoma in
   April of 2000?
 5
 6
        Α.
             Yes.
 7
           And you also heard --
        0.
 8
        Α.
             2002.
 9
             2002. Okay. I was just go about to get to
        Q.
10
   that.
11
             All right. And did you hear Dr. Tanna's
  opinion as to what a person of ordinary skill in the art
12
13
  is?
14
             Yes.
15
           And is this consistent with your
16
  understanding?
17
        A. Yes.
18
           Okay. All right. I just want to talk a
19
  little bit about the knowledge of a person having skill
20
  in the art with regards to the Alphagan and Timoptic
21
  products.
22
             I believe earlier Counsel and Dr. Tanna's
  testimony referred to them as the Alphagan labels and
24
  the Timoptic labels. Are you familiar with both of
25
  those --
```

```
1
        Α.
             Yes.
 2
             -- labels?
        Q.
             Yes, I am.
 3
        A.
             Okay. And do you recall Dr. Tanna's testimony
 4
        Q.
   regarding what was known by one of ordinary skill in the
5
6
   art regarding the Alphagan product prior to 2002?
 7
        Α.
             Yes.
 8
             And just in general terms, what was known?
             Well, the information that was known on or
9
        A.
10
   before April 2002 was that Alphagan is a -- is a brand
   name by Allergan of Brimonidine Tartrate at a
11
12
   concentration of .2% in an ophthalmic solution that has
13
   Benzalkonium Chloride at .005% and that is used in the
14
   treatment of glaucoma or ocular hypertension with a
15
   dosage regimen in the U.S. label of three times a day.
16
             And is there any publication that exemplifies
   the understanding of one of ordinary skill in the art as
17
18
   it relates to the Alphagan label in 2002?
19
        Α.
             Yes. In April of 2002, a person of skill in
20
   the art might readily consult a Physician's Desk
21
   Reference.
22
                  MR. RUZICH: Can we pull up DTX129,
23
   please.
24
        A .
             And this is the reproduction of the cover of
25
   the Physician's Desk Reference, very often referred to
```

```
1
   by its acronym that appears at the top of that page,
   PDR. And this one happens to be the edition from 1998.
3
  And as Dr. Tanna mentioned, it is published on an annual
  basis.
             (By Mr. Ruzich) Okay. And was this a document
 5
   that was available to a person of ordinary skill in the
 6
 7
   art at that time?
        Α.
             Absolutely.
8
             And do you recall Dr. Tanna's testimony
9
   regarding what was known by one of ordinary skill in the
10
   art regarding Timoptic prior to 2002?
11
12
        Α.
             Yes.
13
             And what was known to one of ordinary skill in
   the art about that product?
14
15
             To one of ordinary skill on or before April of
   2002 concerning Timoptic, one would know that it is
16
17
   Merck's brand of Timolol Maleate solution and that that
   solution was available to the market in two
18
   concentrations, 0.25 and 0.5% solution, intended for
19
20
   multiple use, and that multiple-use product was
   preserved with 0.01% Benzalkonium Chloride.
22
             I would also just note that Timoptic was also
   available in a format called Ocudose, in which it was
23
24
   available without any Benzalkonium Chloride.
25
             And is there a publication that exemplifies
        0.
```

```
1
   the understanding of one skilled in the art as to the
2
   Timoptic label in 2002?
             Yes.
3
        Α.
 4
                  MR. RUZICH: And can we pull up DTX134,
5
  please.
             And this is, again, the -- a reproduction of
6
        A .
7
   the cover page of the Physicians Desk Reference. This
   one is from 2001. And there's a monograph for Timoptic
   present within this volume.
             (By Mr. Ruzich) Okay. That's fine.
10
             Now, let's jump to discussing some background
11
12
   in formulating a combination product. And, again, let's
   take a broader view for the Court.
13
             We're heard from Dr. Tanna, and now we're
14
15
   going to hear from an expert formulator. What would a
16
   person of ordinary skill in the art do to develop a
   fixed combination product?
17
             To develop a fixed combination product -- and
18
   I think, at this point, I would make the assumption that
19
20
   both the monotherapy products are available, and that
   would -- and that certainly within the glaucoma field,
21
22
   I'm not aware of any de novo combinations used in
23
   glaucoma, wherein neither of the monotherapies are not
   already available.
24
25
             So taking that as a base, I would consider the
```

```
1
   information about those monotherapies that were intended
   to be formulated as a fixed combination and use that
 3
   information as a tool from which to build my fixed
   combination.
 4
 5
        Q.
           Okay. Is it fair to say that you try to keep
   it as simple as possible?
 7
        A. Absolutely.
           Okay. To a person of ordinary skill in the
 8
   art, is there an ideal number, in terms of the -- you
10
  know, the general number of excipients to be used in an
11
   ophthalmic product?
12
             As few as would be required to accomplish the
13
   goal that you have.
14
           Dr. Laskar, if you could flip to DTX98 in your
15
   binder, and I want to draw your attention to Page 10
   that's numbered in the report.
16
17
                  MR. RUZICH: And, Your Honor, do you have
   a copy of that?
18
                 THE COURT: Yes.
19
             I have that page.
20
        A .
21
             (By Mr. Ruzich) Fantastic. Dr. Laskar, do you
22
   recognize this document?
23
            Yes, I do.
        Α.
24
        Q. And what is it?
25
            It is my initial expert report that's dated
```

```
the 27th of May of this year.
1
2
             And I asked you to direct your attention to
   Page 10 that's numbered in your report.
3
                  MR. RUZICH: And, Ms. Sarwan, if you can,
 4
5
   can you highlight the first two columns.
 6
        0.
             (By Mr. Ruzich) And, Dr. Laskar, once that's
   highlighted, can you please describe what is shown.
 7
8
        A.
             Yes. Those two columns are -- the left-hand
   column is a general descriptor of the components of an
10
   ophthalmic formulation, that is to say the active
   ingredient, which is, in row one, buffer, preservative,
11
12
   tonicity agent, viscosity agent, pH -- and I should --
13
   might have modified that by saying pH fine tuning or
14
   adjusting agent.
15
             And then although not included there would be
16
   the diluent. And in both -- in essentially all cases,
   that's water.
17
18
        Q.
             Okay.
                    And --
19
             And in the column -- excuse me.
20
        Q.
             No. That's fine. Go ahead.
21
             The column on the right-hand side provides the
        A .
22
   purpose of each of those components, buffer meaning
23
   being designed to obtain the desired pH for the
24
   particular ophthalmic formulation.
25
             Preservative, that is required to be used in
```

```
1
   multidose ophthalmic products.
2
             The purpose of what a tonicity agent
3
   accomplishes, that is to obtain, as close as possible, a
   composition that's isosmotic with tear fluid.
 4
5
             And if a viscosity agent is added, it's
   generally designed to increase the viscosity to thicken
6
 7
   the eyedrop, to extend the residence time on the ocular
   surface.
8
             And then the pH fine tuning, adjusting agent,
9
   is to fine tune the pH after putting these -- the above
10
   components together to attain more sharply the desired
11
   pH for the particular formulation.
12
13
             Let's talk about that for a moment. As to pH
   adjusting agents, is that a specific concern with regard
14
   to ophthalmic products or drugs?
15
16
        Α.
           Absolutely.
17
             And what does that concern?
18
        Α.
             There are -- the pH can impact an ophthalmic
19
   product in a number of ways, some in a more general
20
   sense than others. In the case -- in the case of an
   ophthalmic product, the pH can impact the -- the
   stability of the product as it would any -- essentially
22
23
   any liquid product.
24
             It can -- in the case of an ophthalmic, more
25
   specifically can impact the comfort of the ophthalmic,
```

```
inasmuch as the eye has a surface pH of approximately
1
   7.4. And although it's quite tolerant of -- of
 2
 3
   variations around that, if one moves to extremes, then
   discomfort sets in.
 5
             And in addition, pH can have a significant
  impact on the ocular bioavailability of the drugs in --
6
   residing in the ocular formulation.
7
             Okay. Is there a single pH value that you
 8
        Q.
   must formulate with in connection with an ophthalmic
  product?
10
11
        A .
             That you must formulate with, no. It is --
   you -- you -- the pH that you formulate in is designed
12
13
   to optimize those attributes that I just discussed.
14
             Okay. And you also mentioned preservatives,
        Q.
   and it's also up here on your chart. So let's talk
15
16
   about those generally.
17
             For ophthalmic formulations, are preservatives
18 required?
19
             In all -- it is required that all multidose
20
   ophthalmic products maintain stability during patient
21
   use. And this is accomplished most frequently by
22
   addition of an exogenous preservative.
23
            And are there different categories of
24
  preservatives?
25
        A .
             Yes, there are.
```

1 Q. And what's the most common? The most common is the category of quaternary 2 ammonium compounds of which Benzalkonium Chloride is the 3 predominant example. Okay. We're going to refer to that as BAK for 5 0. the rest of your testimony. Is that fair? 6 I tend to use the word BAK. 7 A. 8 0. Fantastic. It comes from my history. 9 Α. 10 Q. So let's go back to DTX98. You have that open, and that's your opening report. Could you go to 11 12 Page 13 as numbered in the report itself? Α. I have it. 13 14 And can you describe for me what this is. Yes. This is a table that I prepared to -- as 15 an illustration, and it depicts the glaucoma products 16 that were available on the U.S. market on or before 17 18 2001. 19 And as I mentioned, it is restricted to those 20 that are available or used in the treatment of glaucoma. 21 And I think you can see in the second column that Benzalkonium Chloride, BAK, is the preservative 22 exclusively used in all of these glaucoma therapeutic 23 agents. 24 25 Q. And a moment ago, we were talking about the

```
Alphagan label, as well as the Timoptic label. Do they
1
   appear on this table?
             Yes, they do. And you can see on the top line
3
   and then the fourth from the bottom line, those two
  products are identified.
 5
        0.
             Okay. Is it fair to say that half of these
6
   concentrations are less than 0.01% of BAK?
7
             I believe you're correct in that. I think
8
        Α.
   there are only two examples that are greater than .01%.
10
             Okay. So let's go back to Page 10, to that
   chart in your expert report.
11
12
             So let's look at two specific examples that
13
   you've provided in this chart, again, Timoptic and
   Alphagan.
14
15
                  MR. RUZICH: And if you could highlight
16
  those. Okay.
17
             (By Mr. Ruzich) All right. In formulating a
18
   fixed combination product, which formulation would a
19
   person of ordinary skill in the art choose to start with
20
   in formulating a fixed combination of two active
21
   ingredients?
22
        A. In -- in -- of those two, ocudose would be the
   Timoptic vehicle inasmuch as it has the fewest
23
24
   excipients present and would be the most straightforward
25
   point from which to begin my formulation of a fixed
```

```
1
   combination.
 2
            Okay. And as to the number of excipients, any
3
   opinion as to how a person of ordinary skill in the art
   would take those into account in formulating a fixed
 5
   combination?
             As I mentioned, the fewest in number. And as
6
   you can see, in this particular instance, there are the
   two components of the buffer, mono and dibasic sodium
   phosphates, the preservative, BAK, and some sodium
10
  hydroxide used to fine tune the pH, and water used as
11
   the diluent for the entire product, together with the
   two actives.
12
             Let's go back to the ingredients of Timoptic.
13
   What's the active ingredient in Timoptic?
14
15
             Timolol Maleate.
16
             And do you have an understanding of what that
17
   drug was initially used before it was used in the eye?
             Yes, I do.
18
        Α.
19
             And what is your understanding?
        Q.
20
             It was used in the treatment of -- as a
21
   cardiovascular in the management of blood pressure.
             And when did Timolol come out?
22
       - Q.
23
             For ophthalmic use, it was in 1978. It was
        Α.
24
   available or used in -- in cardiovascular treatment as a
25
   systemic drug prior to this.
```

```
1
             So just so I'm clear, before 1978, it was used
   as a cardiovascular drug?
3
        Α.
             By a systemic administration as a tablet, if I
   recall correctly.
5
             Okay. And as to the Alphagan agent active
   ingredient, Brimonidine --
6
7
        Α.
             Yes.
8
             -- was that also used as a cardiovascular
   drug?
             That I'm not aware of.
10
        A .
11
        Q.
             Okay. And you're not a physician, correct?
12
        Α.
             I certainly am not.
13
             Okay. As to the pH of these two products,
        Q.
14
   would there be any particular importance as to the pH
   level of these two products?
15
             Yes. As I mentioned before, the three
16
17
   elements that contribute to the desirable pH are
18
   stability, comfort, and bioavailability.
19
             In -- in -- in the case of stability, it is
20
   to -- and in the formulation of a fixed formulation
21
   would be to identify a pH at which both the Timolol
22
  Maleate component and the Brimonidine component of that
23
   fixed combination would have a suitable stability,
  such -- such that the expiry date would be commercially
25 viable and desirable by the marketing group of the
```

```
1
  pharmaceutical company.
             So if a person of ordinary skill in the art
3
   chose the Timoptic vehicle as its base, what would the
   next steps be in formulating a fixed combination?
             As I mentioned some time ago, I would, first
5
   of all, look at the information that I could garner
6
 7
   concerning both Timoptic and Alphagan concerning the pHs
  of the individual products, information that I would
  have access to relative to the stability of both of
10
  these agents at various pHs, information that I might
11
  have available to my -- to -- to -- access to concerning
12
  the impact of pH, for example, on the bioavailability of
  those agents and whether any other excipient components
14
  could impact the bioavailability, in fact, of either or
15
  both of the agents used in the fixed combination and
   would identify a pH to attain the -- the desirable
16
17
   expiry date and so as not to compromise the
18
  bioavailability of the agents when they might -- when
19
  they were used as monotherapy.
20
             Okay. As to pH, would a person of ordinary
21
   skill in the art know the pH of Brimonidine?
22
       - A .
             Yes.
23
        0.
             And I believe you referenced a moment ago the
24
   PDR, the Physicians Desk Reference, correct?
25
             Yes.
        Α.
```

```
1
             For the Alphagan label?
        Q.
 2
        Α.
             Yes.
             Would a person of ordinary skill in the art
 3
        0.
   understand the pH of Timolol?
 5
             Yes.
        Α.
 6
        Q.
             And the Timoptic product?
 7
             From a -- from a similar reference.
        Α.
 8
        0.
             And that similar reference was the PDR?
 9
             That is correct.
        Α.
10
             Okay. With those steps in mind in formulating
   a fixed combination product, would a person of ordinary
11
12
   skill in the art have a reasonable expectation of
13
   success if they followed those steps?
14
        Α.
             I would believe so --
15
        Q.
             And --
             -- from the standpoint achieving a stable
16
17
   formulation.
18
             And is it your understanding that the -- this
19
   process was followed by the inventors in designing the
20
   product that was disclosed in the patents-in-suit?
21
             It appears from the verbiage in the
22
   specifications of the '463 and the '258 patents.
23
             And is it your opinion whether there was any
   part of the development of the formula mentioned in the
24
25
   patents that was not routine development by one of
```

```
1
   ordinary skill in the art?
 2
             For a person of ordinary skill in the art, I
 3
   believe that the processes that were necessary and that
   were pursued appear to be those that are routine to a
   person of skill in formulation in April of 2002.
 5
        Q.
 6
             Okay.
 7
                  MR. RUZICH: If we could pull up JTX004,
   please.
 9
                  Okay. Now I want to focus on Example No.
10
   1, which is -- which appears in Column 4. And if we
11
   could highlight that, please.
12
        Q.
             (By Mr. Ruzich) And, Dr. Laskar, let me know
   when you have that example in front of you.
13
14
             I have it.
15
             Okay. What formulation has been used as a
   starting point to create the patented combination here?
16
17
             From reading the text of the patent beginning
        A.
18
   in -- I believe that's Line 19: The formulation vehicle
19
   is based upon a Timolol ophthalmic solution, which
20
   contains an isotonic phosphate buffer system at pH 9.
21
   The formulation preservative Benzalkonium Chloride (BAK)
22
   at concentration of .005% (weight volume) 50 part per
   million.
23
        Q. And is that in keeping with how a person of
24
25
   ordinary skill in the art would have formulated the
```

```
patented combination?
1
2
             To obtain a stable product, yes, and then some
   additional work to validate, verify, and qualify the
3
   concentration of BAK.
             So just to clarify, as described in the patent
5
6
  itself, both the '463 and the '258, in your opinion, was
   that process -- the formulation process routine?
8
        A.
             Absolutely, yes.
             And were you here for the testimony of
        Q.
10 Mr. Beck?
11
       A.
             I was.
12
        Q.
             And do you recall him testifying about any of
13
   the problems that he set forth in formulating the
14
   patented drugs in -- the patented product in the '258 or
   the '463?
16
       A. I do not recall Mr. Beck referring to any
   problems concerning the formulation of the composition
17
18
  in this table.
           Okay. You mentioned earlier and there's been
19
20
   a lot of testimony on the fact that a preservative has
21
   to be used, but how would one of ordinary skill in the
22
   art, from a formulator's perspective, determine that
   amount of preservative to be used?
24
        A. A person of ordinary skill in the art
25
   understands that a preservative -- and has been
```

```
testified to, I believe, by multiple individuals -- a
  preservative, such as Benzalkonium Chloride, has some
   downsides relative to cytotoxicity and ocular
3
   irritation, and as such -- and, in fact, it would be
  true for other excipients as well, is that the desired
5
6
   goal is to minimize the amount of any excipient
   required.
8
             So as a part of routine testing, one would use
  what's called a PET test that -- or preservative
10
  effectiveness test that has also been mentioned by
   others as a methodology to identify an appropriate level
11
12
   of the preservative Benzalkonium Chloride to be used.
  It's a routine test that is -- that's currently employed
13
14
   and was employed in -- in late '90s and -- and before
   2002.
15
             So let's focus on before 2002. What were the
16
   respective amounts of BAK in Brimonidine and Timolol
17
   products prior to 2002?
18
19
             Prior to 2002, for the Brimonidine products,
   which would be exclusively Allergan's brand of -- brand
20
21
   known as Alphagan, it was .005%.
22
             In the case of the Timoptic products, it was
   either 0 in their Ocudose product or .01% in their
   multidose product.
24
25
        Q. And there's been a lot of testimony that BAK
```

```
1
   has some toxic issues, correct?
 2
        Α.
             That is correct.
 3
        Q.
             Dr. Laskar, do the patents disclose the
   toxicity issue --
 5
        A .
             Yes, they do.
             -- or any toxicity issue?
        Q.
 6
 7
             And how do they disclose it or discuss it?
 8
             They discuss it in -- in -- as others have
   mentioned, that Benzalkonium Chloride has a -- has, as I
10
   noted as well, some issues with respect to toxicity, and
11
   therefore, it would be a desirable goal to minimize the
12
   amount present and thereby minimize the exposure of the
   ocular surface to Benzalkonium Chloride.
14
             Is it fair to say that the possibility of a
        Q.
15
   toxic event or the toxicity of BAK was known -- well
   known before 2002?
16
17
             Oh, yes. It's well recorded in textbooks and
18
   literature back -- back several decades.
19
             So with that in mind, would a person of
        0.
20
   ordinary skill in the art still use BAK as of April 2002
21
   despite these known side effects?
22
        A.
             Yes.
23
           And why is that?
        Q.
24
             Yes, they would. And I think, as has been
25
   testified to by many person -- many of the witnesses,
```

```
that Benzalkonium Chloride, in 2001, was the prevalent
1
   preservative, it was before that, and to this day, it is
2
   the prevalent preservative.
3
4
             From the perspective of a formulator, is it
5
   the go-to preservative in ophthalmic products?
             At the present time, yes, it is. It's the
        Α.
6
   go-to. It's the preferred preservative. Because to --
8
   to a formulator, a formulator understands its
   attributes, both positive and negative.
9
10
             To a physician, it is well known concerning
11
   the positive attributes that it has, as well as the
12
   adverse possibilities that it has.
13
             And I might note that there's a significant
14
   burden of entry to any new preservative inasmuch it is
15
   treated by physicians as being something new, untested,
   and therefore perhaps with skepticism, and the safety
16
17
   and effectiveness and efficiency and compatibility must
   be established of that candidate, new preservative, with
18
   what other formulation is being worked on.
19
20
            Okay. So do the patents discuss any problems
21
   whatsoever with the development of the claimed
22
   formulations?
23
             Not that I've been able to find in the text of
   the '463 or the '258 patents.
24
```

Do the patents discuss any concerns regarding

25

```
degradation products?
1
2
             No. They mention -- there's no mention of
   degradation products.
3
            And do the patents mention anything about FDA
 4
 5
   compliance?
             I was unable to find any text having to do
6
        Α.
7
  with any regulatory review or FDA-approval issues.
8
             Do the claims of the patents discuss anything
        0.
   or mention anything about FDA approval?
10
             None whatsoever.
        A .
             I'm going to switch gears now, and we're going
11
   to talk about DeSantis, and I think that we can move
12
   quite quickly on DeSantis, given the length of treatment
   that it's already been given so far in this trial.
14
             We know that DeSantis was available to one of
15
  skill in the art before April 2002.
16
17
                  MR. RUZICH: If we could pull up DTX123,
18 please.
19
             (By Mr. Ruzich) And do you recognize this
        0.
20
   document?
21
        A.
             I do.
22
        Q.
             And did you hear Dr. Tanna discuss DeSantis?
23
             I did.
        Α.
24
        Q.
             And do you agree with his discussion of
25
  DTX123?
```

```
1
        Α.
             Yes.
 2
             And in your opinion, was a fixed combination
   of Brimonidine and Timolol formulated with BAK disclosed
3
 4
   prior to 2001?
             Yes. I believe it's disclosed in this
 5
        Α.
   DeSantis patent '052.
 7
        Q.
             Are there more than one kind of Alpha-2
   agonists?
8
9
        Α.
             Yes.
             And in your opinion, does the DeSantis
10
   reference -- reference disclose Brimonidine as an
12
   Alpha-2 agonist?
13
             It does by incorporation.
14
             Okay. And where and how is it disclosed in
15
   DeSantis?
16
             Brimonidine is disclosed by -- in DeSantis by
17
   incorporation of the article by Timmermans.
             And what's your understanding of incorporating
18
   a document into a patent?
19
20
             My understanding of incorporation of a
21
   document -- or incorporation by reference to a document
   is that it is tantamount to reproducing the entire text
22
   of whatever is being referred to within the body --
23
   within the specifications of the patent.
24
25
        Q. Okay. We'll get to Brimonidine and Timmermans
```

```
in a moment, but in general, what information was
1
   provided to a person of ordinary skill in the art by the
   Timmermans reference.
3
                  MR. RUZICH: And if we could pull up
 4
  DTX124, please, Page 217. Let's go to DTX124.
5
6
             (By Mr. Ruzich) Doctor, do you recognize this
   document?
             Yes, I do.
8
        Α.
9
                  MR. RUZICH: And let's turn to Page 217.
10
             (By Mr. Ruzich) You mentioned a moment ago
        Q.
11
   that Brimonidine is disclosed in the DeSantis patent by
   way of incorporation by reference, right?
12
13
        Α.
             Yes.
14
             And that incorporation by reference was the
15
   Timmermans document?
16
        Α.
             Yes, it is.
17
             And where in the Timmermans document does --
18
   is Brimonidine disclosed?
19
        Α.
             I have it in front of me, but not on the
20
   screen, it's got Page 230.
           Okay.
21
        Q.
22
        Α.
             Do you want me to wait until it's shown on the
23
   screen?
24
        0.
           Sure.
25
        A. Okay. There we go.
```

```
1
        Q.
             Great. Thank you.
 2
             Brimonidine is disclosed in -- on this page in
 3
  Figure 31 where there appear substructures of Clonidine
 4
   analogs, and one of those substructures has -- has the
 5
   UK-14,304-18. And when you join that substructure to
   the substructure identified with an R, then one has the
   Brimonidine molecule.
            Is it fair to say that this is chemistry
 8
   shorthand?
10
        Α.
             Yes.
11
        Q.
             Okay. You mentioned the designator
   UK-14,304-18.
12
13
        Α.
             Yes.
14
             Why not just say Brimonidine?
15
             At the -- at the time that Timmermans wrote
16
   this chapter, this compound did not have a trivial name
   such as Brimonidine. It was known only by its compound
17
18
   name that Pfizer assigned to it as UK -- as this
   UK-14,304-18.
19
20
             And, in fact, I might just mention that when
   Allergan brought this molecule to Irvine, they, I
21
22
   believe, relabeled it as AGN 190342, and then at some
23
   point, it became the adopted USAN name, and I think the
24
   BAN name of Brimonidine.
25
        Q. Okay.
```

```
1
                  MR. RUZICH: And if we could turn to the
2
  next page, please, of the Timmermans reference. And I
   just want to highlight the second column here, let's
3
   just go down to the second full paragraph. I'm sorry.
   The first column. And let's go down a little bit
5
   further. Okay.
6
7
             (By Mr. Ruzich) Dr. Laskar, is Brimonidine
        0.
   discussed in this column?
             Yes, it is.
9
        Α.
10
        0.
             Where?
11
             Beginning with -- and at the top of this
   called-out section: The quinoxaline system found in the
12
   experimental compound UK-14,304-18 (Pfizer) refers to
13
   Brimonidine.
14
15
        0.
           Okay.
16
             And then it discusses that this substance is
   somewhat less active than Clonidine, and it seems likely
17
   that the mechanism which underlies the hypotensive
18
   effect is identical to that of Clonidine, and then it
19
20
   refers to how that -- how Timmermans came to know that.
             And I think right below it, there's also
21
        0.
22
   another mention of Brimonidine, too?
23
             Yes. There's mentioned elsewhere in the text
        Α.
24
   that, in fact, the tartrate salt of that particular
25
   compound was used in this particular experimental
```

```
1
   protocol.
 2
             Would it surprise you as an expert formulator,
   over your 30 years' experience, that a formulator
 3
   looking for a formulation for the eye would turn to an
   antihypotensive drug?
 5
 6
             From my understanding as a person of art and
   as -- as a trained pharmacist, no.
 8
             And let's be clear. Before the critical date
   of April 19th of 2002.
10
             Yes. I'm sorry. I did not qualify.
        A .
11
             And I believe you mentioned before that
   Timolol was an antihypotensive drug as well?
12
13
        Α.
             That's correct.
14
             Okay. Is there any doubt, from a chemistry
15
   standpoint, that this Brimonidine that's disclosed in
16
   DeSantis by way of Timmermans is not the same
17
   Brimonidine that's claimed in the '463 and '258 patents?
             None whatsoever.
18
        Α.
19
        0.
           You're certain?
20
             I would just mention that the last organic
21
   chemistry class I took, Ms. Brooks was probably in
22
   diapers.
23
                  MS. BROOKS: Thank you.
24
                  THE COURT: You didn't mention me,
25
   Doctor.
```

1 [Laughter] THE WITNESS: Well, you might have been 2 in high school. 3 THE COURT: I was in organic chemistry 4 before you were, but go ahead. But I had the good sense 5 to get out. 7 (By Mr. Ruzich) Let's get back to your 8 testimony here. Would a person of ordinary skill in the art 9 10 understand which Alpha-2 agonists were considered pharmaceutically acceptable for the treatment of 11 glaucoma to one skilled in the art as of 2002? 12 13 Yes. To a person of skill in the art on or A. before April of 2002, they would have understood that 14 15 there were an extremely small number of possible Alpha-2 agonist compounds with which one might formulate a fixed 16 17 combination. Okay. And in your opinion as an expert drug 18 19 formulator, how many Alpha-2 agonists were available to 20 a person of ordinary skill in the art to create a fixed combination drug before April 2002? 21 To a person skilled in the art on or before 22 23 April of 2002, I believe that there is one Alpha-2 24 agonist that one would functionally use to make a fixed 25 combination for the treatment of glaucoma.

```
1
             Is it fair to say there are a lot of Alpha-2
        0.
   agonists that are disclosed in Timmermans?
3
        Α.
             Absolutely.
 4
             But from the perspective of a drug formulator,
   from the perspective of a person having ordinary skill
 5
   in the art as a drug formulator, which Alpha-2 agonist
6
   would a person of skill in the art choose from
   Timmermans as of 2002?
             In 2002, a person of skill in the art would
9
10
   have chosen Brimonidine.
11
             Okay. And what would -- let's just bring this
12
   full circle now.
             What would DeSantis have taught a person of
13
14
   ordinary skill in the art with respect to formulating
15
   that fixed combination product with that Alpha-2
   agonist?
16
17
             DeSantis would have taught that one would take
        Α.
   that particular -- that Alpha-2 agonist, Brimonidine,
18
19
   and formulate it with the beta-blocker, Timolol, which
   is the beta-blocker identified in the title of the -- of
20
21
   the DeSantis patent.
22
             Does DeSantis disclose any beta-blockers?
       · O .
23
             In the specifications of the '052, there are a
   significant number of beta-blockers identified.
24
25
                  MR. RUZICH: And if you can pull up
```

```
DeSantis for a minute. I think that was -- you got it.
1
                  THE WITNESS: That's Timmermans.
2
3
                  MR. RUZICH: Right. Get to the DeSantis
   in a moment.
4
5
                  THE WITNESS: There we go.
6
             (By Mr. Ruzich) And just out of clarity, you
   mentioned that it's disclosed here in DeSantis, correct?
8
        A.
             Yes.
             Okay. And to a person of ordinary skill in
9
   the art, does Timmermans and DeSantis disclose thousands
10
11
   of potential combinations for a fixed product, for a
   fixed combination glaucoma drug?
12
13
             I suppose if one does the hypothetical
        Α.
   mathematics of taking the number of beta-blockers that
14
15
   are listed in the specification to DeSantis and takes,
   again, the list of Alpha-2 agonists that are listed both
16
   in Timmermans and in DeSantis and do the math and
17
   overload the calculator, yes, one would have a humongous
18
19
   number.
20
             And we're not talking about math here today.
        Q.
21
        Α.
             No.
22
             And you're not a -- you're not testifying as
        Q.
   an expert on odds, in other words, mathematical odds,
23
24
   correct? Or mathematics combinations, are you?
25
        A. No, I'm not.
```

```
1
             So you're here to testify about the
 2
   perspective of a person of ordinary skill in the art in
 3
   formulating a drug.
             That is correct.
 4
        Α.
 5
             As to the number of combinations that are
   potentially disclosed in DeSantis and Timmermans, what
 6
   can you say about that?
 8
        A. I can say that DeSantis would identify one
   potential combination; that is, a combination of Timolol
10
   and together with Brimonidine to a person skilled in the
11
   art on or before April of 2002.
12
             And you were here during the testimony of Mr.
   Beck, correct?
13
14
        Α.
             I was.
15
             And were you here when he testified that there
   was only one Alpha-2 agonist of choice in 2002?
16
17
        Α.
             I heard that.
           And do you agree with Mr. Beck?
18
        Q.
19
             Yes, I agree with Mr. Beck.
20
             And are you familiar with the testimony of Ms.
        Q.
21
   Batoosingh?
22
             I -- although I did not hear her testimony,
   I'm familiar with it.
23
             Okay. And would you agree that -- with her
24
25
   assessment that Timolol was the beta-blocker of choice
```

```
as of 2002?
 1
 2
             Yes, I would agree with her assessment of
   that.
             Okay. We've been talking about your
 4
   background. We've been talking about your experience as
 5
   a formulator. We've been talking about the -- what a
   formulator would do in formulating a fixed combination
 8
   glaucoma product.
             So let's now discuss in-depth both of the
 9
10
   patents for which you're here to testify about.
11
             The first one, the '463 patent. And,
12
   Dr. Laskar, did you prepare a set of demonstratives to
   use in conjunction with your testimony here today?
13
             Yes, I did.
14
        Α.
15
             And would those demonstratives assist you in
        Q.
16
   explaining your testimony to the Court?
17
        Α.
             I hope so.
18
        Q.
             Okay. Fantastic.
19
                  MR. RUZICH: Well, you beat me to the
20
   punch here. You must have read my mind. So let's go to
   the next slide, the '463 here.
21
22
             (By Mr. Ruzich) Can you explain to the Court
23
   real quickly what this is?
24
             Yes. This is just to illustrate a way of
  summarizing some information. In the left-hand column
25
```

```
is the '463 patent, and on this screen, Claims 1 through
   3 of that patent.
 3
             The next column over is -- indicates a box
   which -- with an indicator of whether it is -- whether
   that claim is anticipated by DeSantis.
 5
 6
             And the right-hand column, in an analogous
   fashion, indicates whether that claim is obvious when
   DeSantis is viewed by one of skill and their knowledge.
 9
                  MR. RUZICH: Your Honor, Dr. Tanna
10
   testified earlier, as you know, about the '149 patent,
   as well as the '976. Dr. Laskar is here to testify, as
11
12
   you know, about the '463 and the '258.
13
                  So we're going to have to cover some
14
   ground, and I'm going to do this in an efficient manner,
15
   I promise.
16
            (By Mr. Ruzich) What does DeSantis disclose
17
   about Claim 1 of the '463 patent?
             Claim 1 of the '463 patent has -- teaches --
18
19
           A composition comprising about .2% Brimonidine
   by weight and about 0.5% Timolol by weight as the sole
20
21
   active agents in a single composition.
22
       Q. Okay. And let's focus on this phrase, quote,
   about 0.2% Brimonidine. I think we've established that
24
   Brimonidine is disclosed in DeSantis, correct?
25
        Α.
            Yes.
```

```
1
             And I think we've already went over that, how
   it is disclosed in DeSantis, correct?
        Α.
 3
             Yes.
        0.
 4
             Okay.
 5
                  MR. RUZICH: So let's go to the next
   slide, Slide 6.
6
7
             (By Mr. Ruzich) So let's go back to the claim
   again and look at the phrase 0.2% Brimonidine. Do you
   have that in front of you?
10
        A.
             I do.
11
             And is there a disclosure in DeSantis as to
        Q.
12
   the range of the Alpha-2 agonists?
13
        Α.
             Yes.
14
             And can you also provide the column number and
        Q.
  line number?
15
16
           I apologize.
        Α.
17
        0.
             That's fine.
             I didn't have my --
18
        Α.
19
             I overlooked that, and we can recapture that
        0.
20
   in a moment. Go ahead.
21
             I neglected my own cue card about that.
22
   In Column 6, Line 3 to 6 of the '052 patent, there is
23
   text which reads: Alpha-2 agonist in the amount of
24
   about 0.2 (sic) to 2% by weight.
25
        Q. Okay. And let's just jump back to Claim 1
```

```
1
   with regards to the 0.2% Brimonidine. Can you explain
   to the Court just the line -- the column and line number
 3
   as to where that appears in DeSantis?
             If I can have that slide again, please.
 4
 5
                  MR. RUZICH: Sure. If you could punch
  back to that. Thank you.
 6
 7
        Α.
             For Brimonidine, it is noted in Column 4,
   Line -- beginning Line 42 of the patent and then on
   Page 20 -- 28, which is part -- which is Table 31 of the
   Timmermans article.
10
             (By Mr. Ruzich) Okay. So let's focus in on
11
12
   the actual percentage of Brimonidine, 0.2&. What would
13
   a person of ordinary skill in the art have known about
   that specific percentage?
14
15
                  THE WITNESS: And if we can skip forward
16
   to that.
             There we go.
17
                  MR. RUZICH: Great.
18
        Α.
             The particular percentage, 0.2% Brimonidine,
19
   would be known to one skilled in the art in April 2002
20
   that that is the concentration of Brimonidine used in
21
   Allergan's brand, Alphagan, used clinically in the
22
   treatment of glaucoma and ocular hypertension --
23
        Q.
             (By Mr. Ruzich) Is it fair to --
24
             -- and had been for a number of years.
25
        Q.
             Is it fair to say that a person having skilled
```

```
in the art would have envisioned that 0.2%?
2
        Α.
             Absolutely.
 3
        0.
             Okay.
 4
                  MR. RUZICH: Let's go to the next slide,
5
  please.
             (By Mr. Ruzich) And for the sake of our
6
        Q.
   discussion here today, is there any publication that
   exemplifies your understanding?
8
             Yes. As we noted just a little while ago, the
9
        Α.
   PDR and the Alphagan monograph within the PDR would have
10
11
   identified the fact that Alphagan is composed of .2%
12
   Brimonidine Tartrate.
13
        Q.
             So let's go back to the claim and look at the
14
   phrase, quote/unquote, about 0.5% Timolol.
15
             Do you see that?
16
        Α.
             I do.
             Does DeSantis disclose Timolol?
17
18
             Yes, it does, in two places: Column 1,
19
   beginning on Line 33, and secondly, in Column 6,
20
   beginning Line 42, which is the single claim of the
21
   patent.
22
             In Column 1, it states: Other preferred
23 beta-blockers include -- and I might mention firstly
   that Timolol is explicitly identified in the title of
24
25
   the patent.
```

```
Then secondarily, it's listed as first among a
2 list of beta-blockers, and finally, it is listed as the
3 beta-blocker in the claim of -- excuse me -- the '052
  patent.
        O. And does DeSantis disclose that the
  beta-blocker can be used in any amount or any specific
  amount?
            Yes, it does. It -- DeSantis identifies that
  the Timolol can be used at 0.01 to 3%. And one skilled
  in the art would immediately envision, based on their
  knowledge, that the concentration to be used would be
   .5%.
       Q. So let's focus in on the actual percentage of
14
  Timolol at 0.5%.
             Okay. What would a person of ordinary skill
  in the art have known about that specific percentage?
        A. A person of skill in the art, April 2002,
  would have known that .5% was the -- was one of the two
  concentrations of Timolol that was marketed as Timoptic
  and that the .5%, as we've heard from multiple
   individuals, was the most predominant concentration of
  Timolol used in the clinical treatment of glaucoma and
  ocular hypertension.
            Okay. And for the sake of our discussion here
  today, is there a publication that exemplifies that
```

1

5

6

10

11

12

13

15

16

17

18

19

21

22

23

24

25

```
understanding?
1
             Yes, there is. And as we mentioned
2
  previously, it is the PDR and the Timoptic monograph
   that appears within that volume.
5
        Q. And so based on this disclosure, is it fair to
6
   say that this is how a person of ordinary skill in the
7
   art would be expected to practice the claims and the
8
   disclosures of the '052 patent, the DeSantis patent?
             I believe so.
        A.
9
10
        Q.
             All right. So let's take --
11
                  MR. RUZICH: We're moving along, Your
12
  Honor.
13
             (By Mr. Ruzich) Let's take a look at the term
   sole active ingredients in a single composition.
14
15
             Do you see that?
16
             I do.
        A .
             And what does sole active agents refer to?
17
18
             Sole active agents refer to the two items
19
   above, that is to say, Brimonidine and Timolol.
20
        Q.
             And are Brimonidine and Timolol in a single
21
   composition disclosed by DeSantis?
22
             Yes, it is. It's disclosed in two places.
23
   One in Column 1, beginning Line 19, and second --
   second -- secondly, Column 3, beginning at Line 3.
24
25
  And in Column 1, it states: A pharmaceutical
```

```
composition which includes as principal active
   ingredients combinations of one or more Alpha-2 agonists
 2
3
   and one or more beta-blockers.
             And then later: A combination of a
   therapeutically effective amount of one or more -- one
 5
   or more Alpha-2 agonists and a therapeutically effective
6
   amount of one or more beta-blockers.
             As to Timolol, does Column 5 and Line 33 of
   the '463 patent shed any light as to that disclosure?
10
        Α.
             I'm sorry. Column 3?
11
             Column 5, Line 33, the Lines 33.
12
        A.
             I don't have that immediately in front of me.
13
   Hang on.
14
             Sure. You have the full --
        Q.
             Yeah. Column 5, Line --
15
             And I believe that's JTX4 -- that's JTX3.
16
        Q.
17
             We'll just take it from Lines 31 through 35 on
   Column 5.
18
19
                  MR. RUZICH: Not of DeSantis, of the --
20
   I'm sorry. Of DeSantis, correct.
21
             Would you repeat the question, please?
22
             (By Mr. Ruzich) Sure. Does Column 5,
   Line 33 -- or Lines 30 to 35, shed any light as to the
23
   disclosure of Timolol in DeSantis?
24
25
             Yes. It discloses Timolol in Line -- it
        A.
```

```
appears to be 33 explicitly, and then further, in the
1
   following paragraph, it discloses the amount of the
2
   beta-blocker.
3
4
        Q. Okay.
5
                  MR. RUZICH: Let's go to Slide 11,
6
   please.
7
             (By Mr. Ruzich) And just to wrap this up, Dr.
        Q.
8
  Laskar, is it your opinion that DeSantis discloses all
   the elements of Claim 1, either explicitly or
   inherently, of the '463 patent?
10
             Yes.
11
        Α.
             And is it your opinion that DeSantis
12
        Q.
   anticipates Claim 1 of the '463 patent?
13
        Α.
14
             Yes.
15
           Now, let's turn now to obviousness.
        Q.
16
             You see on this chart here, we have an
   Anticipation column, as well as an Obvious Over column.
17
             Yes, I do.
18
        Α.
19
             Okay. Do you have an opinion as to whether
20
   Claim 1 is rendered obvious?
            Yes, I do.
21
        A.
22
             And what is your opinion as to whether Claim 1
   is rendered obvious?
23
24
             My opinion is that Claim -- that DeSantis and
25
  the information available to one skilled in the art
```

```
would immediately envision that the Claim 1 of the '463
   patent is obvious.
 2
 3
        Q.
             And why is that?
             Because the information in DeSantis describes
  the Brimonidine. It leads one to the -- by virtue of
 5
  information to the .2% of Brimonidine. It identifies
6
   Timolol explicitly. And one with knowledge would
   immediately identify 0.5% and that those would be in a
   single composition.
10
        Q. Okay.
                  MR. RUZICH: Let's go to Slide 12,
11
12 please.
13
            (By Mr. Ruzich) Let's focus now on Claim 2 of
        Q.
14
   the '463 patent. What does Claim 2 recite?
15
             Claim 2 of the '463 patent says: The
   composition of Claim 1 further comprising from 0.001 to
16
   0.01% Benzalkonium Chloride.
17
             Do you understand that Claim 2 depends from
18
        Q.
   Claim 1?
19
20
             Yes, I do.
        Α.
21
             And what's your understanding of dependent
        Q.
22
  claims?
23
             My understanding of dependent claims is that
  the text of the claim referred to in the dependent claim
24
  is essentially copied into that dependent claim.
25
```

```
1
             So do you understand that all the limitations
        0.
2
   of Claim 1 are now in Claim 2, correct?
             Yes, I do understand that.
 3
        A .
 4
             And does your analysis of Claim 1 still apply
   to those same limitations that are now incorporated into
 5
   Claim 2?
6
 7
        Α.
             Yes.
 8
             Okay. And we've talked a lot about
   preservatives. Specifically what is disclosed in
   DeSantis with regards to preservatives?
10
             DeSantis discloses in Column 5, Line 41 to
11
12
   46 -- it discloses a list of antimicrobial preservatives
   of which Benzalkonium Chloride is the first listed and
13
   then further identifies a concentration in which it
14
   might be used that ranges from .001 to 1%.
16
             Let's go back to Claim 2 and the range of BAK,
17
   which is from 0.001% to 0.01%.
18
             Do you see that?
19
             I do.
        A .
20
        Q.
             Is there a range of BAK disclosed in DeSantis?
             Yes. It is .001 to 1%.
21
        Α.
22
             As to the upper range, you noticed that that's
        Q.
23
   different.
24
        Α.
             Yes.
25
             So what would a person of ordinary skill in
        Q.
```

```
the art do to limit that range in DeSantis any further?
1
             A person of skill in the art would immediately
2
   envision that the concentration -- the upper
3
   concentration that -- that might reasonably be used
   would be .01%.
5
             And so just so we're -- just so we're clear,
7
   based on this disclosure, is it your opinion that this
   is how a person of ordinary skill in the art would be
   expected to practice the claims of the DeSantis patents?
10
        Α.
             Yes, I believe so.
                  MR. RUZICH: Okay. Let's go to Slide 13.
11
             (By Mr. Ruzich) Does the Timoptic PDR we
12
        Q.
13
   looked at earlier support your opinion that a person of
   ordinary skill in the art would have known Timolol was
14
   formulated at 0.01%?
15
16
        A.
             Yes, they would. It is explicitly explained
   in the Timoptic monograph in the PDR wherein the
   concentration of Benzalkonium Chloride is identified as
18
19
   .01%.
20
                  MR. RUZICH: Next slide, please.
21
             (By Mr. Ruzich) And just to wrap this up, Dr.
22
   Laskar, is it your opinion that DeSantis discloses all
23
   the elements of Claim 2 either explicitly or inherently
   of the '463 patent?
24
25
        Α.
            Yes.
```

```
1
        0.
             Does DeSantis, in your opinion, anticipate
2
   Claim 2 of the '463 patent?
3
        Α.
             Yes.
             Turning now to Obvious in the second half of
 4
   this chart here, do you have an opinion as to
5
   obviousness with regards to Claim 2 of the '463 patent?
6
7
             Yes.
        Α.
             What is your opinion?
8
             I believe that DeSantis, together with the
9
        Α.
10
   information available to one skilled in the art, would
   render Claim 2 of the '463 patent obvious.
11
             Let's move on now to Claim 3.
12
        0.
                  MR. RUZICH: It's Slide 15.
13
             (By Mr. Ruzich) What does Claim 3 recite?
14
        Q.
15
             Claim 3 states: The composition of Claim 2
   comprising about 0.005% Benzalkonium Chloride.
             And you'll notice that Claim 3 depends on
17
18
   Claim 2, and Claim 2 depends on Claim 1.
19
             Do you see that?
             I do.
20
        Α.
             Okay. And you now understand -- you
21
22
   understand that all the limitations of Claim 1 and
23
   Claim 2 can now be found in Claim 3, correct?
24
           That is correct.
        Α.
25
             And does your analysis of Claim 1 and Claim 2
        Q.
```

```
that we just went over still apply to those same
1
2
   limitations that are now incorporated into Claim 3?
3
        Α.
             Yes.
 4
                  MR. RUZICH: So let's go to the next
   slide. Le's turn now to Claim 3.
5
             (By Mr. Ruzich) Does DeSantis disclose the
6
   contents of this claim?
             Yes, it does.
8
        Α.
9
             Okay. And what about the specific
   concentration of BAK? Would a person of ordinary skill
   in the art have knowledge of that percentage, precisely
11
   0.005%?
12
13
            Yes, they would.
14
        0.
           And how's that?
        A. A person of skill in the art, in April of
15
   2002, would have understood the .005% Benzalkonium
16
17
   Chloride explicitly and immediately envisioned that by
18
   their knowledge of the information contained in the
19
   Alphagan monograph of the PDR.
20
             And the Alphagan monograph is the one we
21
   had -- that's been found in the PDR, correct?
     - A .
2.2
           Yes.
23
        Q.
             Okay.
24
             And that we've shown and discussed on several
25
   occasions.
```

```
1
        0.
             Great.
 2
                  MR. RUZICH: Let's go to Slide 16. Okay.
  I see that one there.
 3
            (By Mr. Ruzich) Okay. Just to wrap this up,
 4
   Dr. Laskar, is it your opinion that DeSantis discloses
  all the claims -- or all the elements of Claim 3 either
 6
   explicitly or inherently of the '463 patent?
 8
        Α.
             Yes.
 9
             In your opinion, does DeSantis anticipate
        Q.
10
   Claim 3 of the '463 patent?
11
        Α.
             Yes.
12
            Okay. Let's turn now to the obviousness
13
   analysis. Do you have an opinion as to whether Claim 3
   is rendered obvious?
14
15
        A .
            Yes.
16
            And what is your opinion?
17
             My opinion is that a person -- that DeSantis,
18
   together with information available to one skilled in
   the art, would render obvious the -- Claim 3 of the '463
19
20
   patent.
        Q. Let's move on to Claim 4 of the '463 patent.
21
                  MR. RUZICH: The next slide, Slide 17.
22
23
             (By Mr. Ruzich) And we have, I think, three
24
   remaining claims to go here.
25
             Generally, what is Claim 4 directed to?
```

```
1
        A.
             In general, it -- it talks to an article of
   manufacture that contains the combination -- a fixed
3
   combination and also describes the uses of that fixed
   combination.
 5
             Okay. And let's look at that term article of
   manufacture.
             What would a person of ordinary skill in the
 7
   art, as of April of 2002, have known regarding this
 8
   phrase?
10
             A person of ordinary skill, in April of 2002,
11
   would have known that an article of manufacture refers
   to the plastic ophthalmic dropper bottle and the
12
   solution that it contains.
             And is this understanding supported by the
14
15
   PDRs that we just went over?
16
        A .
             Absolutely.
17
        0.
             And where?
18
             In both of the Alphagan monograph and the
        A.
19
   Timoptic monograph, there is an -- information which
20
   describes how Alphagan is packaged; that is to say, as
   you can see in the highlighted section, white opaque
   plastic dropper bottles, and in the Timoptic monograph
22
23
   described as a white translucent dispenser.
24
                  MR. RUZICH: Let's go to Slide 19.
25
             (By Mr. Ruzich) Now, let's carefully look at
        0.
```

```
this next limitation of Claim 4, which recites, quote:
   Wherein said composition comprises about 0.2%
 2
   Brimonidine by weight and about 0.5% Timolol by weight
 3
   in a single composition.
 4
 5
             Do you see this?
        Α.
             I do.
 6
 7
        0.
             And is this similar to Claim 1 of the '463
 8
   patent?
 9
        A.
             Yes.
10
             And would you apply the same analysis as you
   applied to Claim 1 to this claim?
11
12
        Α.
             Yes, I would.
             Does DeSantis disclose this limitation?
13
14
             Yes. Just as I mentioned in my analysis of
        A .
15
   Claim 1.
16
                  MR. RUZICH: Let's go to Slide 20,
17
   please.
18
             (By Mr. Ruzich) And let's tackle the last
19
   limitation of this claim. Can you please read to the
   Court this last limitation?
20
             The last limitation is: And wherein said
21
   packaging indicates that the composition is useful for
22
   treating glaucoma or ocular hypertension by twice-a-day
23
24
   topical administration of the composition to a person's
25
   eye.
```

```
1
        Q.
             Okay. So let's break that down.
 2
             Is treating glaucoma or ocular hypertension
3
   disclosed in DeSantis?
             Yes, it is.
        A.
 4
 5
        0.
             Where?
             In the DeSantis patent, Column 1, beginning in
6
        A.
 7
  Line 13, it refers to -- that the invention relates to
   the treatment of glaucoma and associated elevations of
   intraocular pressure and to the treatment of ocular
  hypertension.
10
11
                  MR. RUZICH: Let's go to the next slide,
   Slide 21.
12
             (By Mr. Ruzich) Is, quote, twice-a-day topical
13
   administration, end quote, disclosed by DeSantis?
14
15
             Yes, it is. It is disclosed in Column 6,
16
   beginning at Line 37 in which it says: The methods will
17
   typically comprise topical application of one to two
   drops to the affected eye one to two times per day.
18
19
                  MR. RUZICH: Let's go to the next slide,
20
   Slide 22, please.
21
             (By Mr. Ruzich) Is, quote/unquote, topical
22
   administration of the composition to a person's eye
23
   disclosed by DeSantis?
24
        Α.
             Yes, it is.
25
            And where?
        0.
```

```
1
             It's disclosed at Column 11, beginning Line
   42, which is the claim of the DeSantis patent where the
3
   text reads in part: Comprises applying topically to the
   affected eye a therapeutically effective amount of a
 5
   compensation, et cetera.
6
        0.
             So with your Claim 1 analysis in mind and now
 7
   your analysis you just went through a moment ago, is it
   your opinion that DeSantis discloses all the elements of
   Claim 4, either explicitly or inherently, of the '463
10
   patent?
11
        Α.
             Yes.
12
        Q.
             Is it your opinion that DeSantis anticipates
13
   Claim 4 of the '463 patent?
14
        Α.
             Yes.
             Okay. Now let's turn to obviousness here.
15
16
             Do you have an opinion as to whether Claim 4
17
   is rendered obvious?
18
             Yes.
        Α.
19
             And what is that opinion?
        Q.
20
             My opinion is that, considering DeSantis and
21
   the information available to a person skilled in the
22
   art, would render Claim 4 of the '463 patent obvious.
23
             And the information that was available to a
24
   person of ordinary skill in the art as of April 2002 --
25
        Α.
             Oh, yes.
```

```
1
        Q.
             -- would be --
 2
        Α.
             Yes.
 3
        0.
             If you can elaborate a little more,
   Dr. Laskar.
             I'm sorry. I didn't qualify that. I
 5
   apologize.
 6
 7
           And, again, if you could elaborate a little
   bit more.
          And that would be for the -- the first element
   of Claim 4. A similar analysis for the second and third
10
11
   elements of Claim 4 relative to anticipation and to
12
   obviousness, that the -- those two are anticipated by
13
   DeSantis and that to a person of skill in the art in
14
   April of 2002, together with the information that -- to
   which they would have access would render the other
15
16
   elements of Claim 4 obvious.
17
        Q. Okay. And before we move on to Claim 5 --
                  MR. RUZICH: I'm sorry. Okay. All set?
18
19
   Okay.
20
             (By Mr. Ruzich) Let's now move on to Claim 5
21
   of the '463 patent. It specifically cites --
                 MR. RUZICH: 24.
22
23
             (By Mr. Ruzich) What does Claim 5 recite of
   the '463 patent?
25
       A. Claim 5 of the '463 patent says: The article
```

```
of manufacture of Claim 4 wherein the composition is
  further -- further comprises from 0.001 to 0.01
2
  Benzalkonium Chloride.
3
             And, again, you'll see that Claim 5 depends
  from Claim 4?
 5
             I do.
6
        A.
 7
             And you understand that all limitations of
   Claim 4 can now be found in Claim 5?
            Yes, I understand.
9
        Α.
10
             So does your analysis of Claim 4 still apply
   to those same limitations that are incorporated into the
11
12
   Claim 5?
13
        Α.
             Yes.
14
             Okay. Is this the same amount of BAK that was
   recited in Claim 2 of the '463 patent?
16
        Α.
            Yes, it is.
17
             And so your analysis of Claim 2 of the '463
18
   patent would be applicable to Claim 5?
19
             It would be the same.
        A .
20
        0.
             And does DeSantis disclose this range?
21
            Yes, it does.
        Α.
22
        Q.
             Where?
23
             Column 5, beginning at Line 40, and in
   which -- there are the -- a number of antimicrobial
24
25
   preservatives are identified of which Benzalkonium
```

```
1
   Chloride is the first noted, and then secondarily, with
  respect to concentration, DeSantis notes the
  concentration to range from .001 to 1%.
3
             Does the Timoptic PDR that we looked at
 4
   earlier support your opinion that a person of ordinary
   skill in the art would have known that the Timolol was
6
   formulated at 0.01%?
 7
        A. Absolutely. As soon as -- as soon as one
8
   reads DeSantis, they would immediately envision that the
10
   concentration that would be employed would be .01%.
                  MR. RUZICH: Let's go to Slide 26, and
11
12
   let's wrap this up.
13
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
14
   that DeSantis discloses all the elements of Claim 5,
15
   either explicitly or inherently, of the '463 patent?
16
        A .
             Yes.
17
             In your opinion, does DeSantis anticipate
   Claim 5 of the '463 patent?
18
19
        Α.
            Yes, I do.
20
             Turning now to the obviousness review, do you
21
   have an opinion as to whether Claim 5 of the '463 patent
   is obvious?
22
23
        Α.
            Yes.
24
        Q. And what is that opinion?
25
           My opinion is that DeSantis, together with the
        A .
```

```
person of ordinary skill in April of 2002 and the
1
  information available at that time, would have rendered
2
   Claim 5 obvious.
3
             Now let's turn to Claim 6, and we can go to
  Slide 27. Can you please read Claim 6 to the Court?
5
             Claim 6 of the '463 patent states: The
6
   article of manufacture of Claim 5 wherein the
8
   composition further comprises about 0.005% Benzalkonium
   Chloride.
10
        Q. And as you know, Claim 6 depends from Claim 5,
   which in turn depends from Claim 4.
11
12
             Do you see that?
13
        Α.
             I do understand that.
14
             Okay. And so all the limitations of Claim 4
15
   and 5 can now be found in Claim 6, correct?
16
        A .
             Yes.
17
             And does your analysis of Claims 4 and 5 still
18
   apply to those same limitations that are incorporated
   now into Claim 6?
19
20
        Α.
             Yes.
21
             Okay. Is this the same amount of BAK that was
22
   recited in Claim 3 of the '463 patent?
23
        Α.
             Yes.
24
        Q. And does DeSantis disclose this amount of BAK?
25
            Yes, it does.
        Α.
```

1 Does the same analysis that we went through from Claim 3 apply to your analysis of Claim 6? 3 My analysis would be identical. Okay. So let's just focus in for a moment 4 here, because I think it's important that we do, that with regards to the Alphagan PDR that we looked at 6 7 earlier, is it your opinion that a person of ordinary skill in the art would have known that Brimonidine was formulated at 0.005% BAK? 10 Α. Absolutely, yes. 11 MR. RUZICH: Let's go to the next slide. 12 0. (By Mr. Ruzich) Dr. Laskar, is it your opinion that DeSantis discloses all the elements of Claim 6, 13 14 either explicitly or inherently, of the '463 patent? 15 Yes. Α. 16 0. And does DeSantis anticipate Claim 6 of the '463 patent? 17 18 A . Yes. 19 Turning now to obviousness, do you have an 20 opinion as to whether Claim 6 is obvious? 21 A. Yes, I do. 22 And what is that opinion? · Q . 23 My opinion is that DeSantis and a person of 24 ordinary skill in the art in April of 2002 and the 25 information that they would have access to would have

```
rendered Claim 6 of the '463 patent obvious.
 2
        0.
             Okay. Just to nail down one fine point here,
3
   I wanted to turn your attention to the PDR label, the
   Alphagan label found in the PDR.
 5
             And as we know, it discloses 0.05 percentage
   of BAK, correct?
 6
 7
        Α.
           0.005.
        O. Correct.
 8
 9
             How does that disclosure compare to the 0.05%
10
  weight by volume limitations of the claims?
11
             The -- in Alphagan, the expression is .05
   milligrams, which is equivalent to .00 -- and that's
12
   milligrams per ml, which is equivalent to .0005%.
13
14
             Okay. I just want to nail down. We're
        Q.
   dealing with different percentages and --
15
16
        Α.
           Units.
17
        Q. -- and milligrams, correct. And the units,
18
   exactly. So great.
19
             Now we're going to --
20
                  MR. RUZICH: We're on the last patent,
   Your Honor, the '258 patent.
21
22
             (By Mr. Ruzich) So let's focus our attention
23
   on that, Dr. Laskar.
24
                  MR. RUZICH: And if we can go to
25 Slide 30, please.
```

```
(By Mr. Ruzich) As I mentioned before, there
1
        Q.
2
   was some --
3
                  MR. RUZICH: If we can go -- hit it
4
   again.
5
             And I would just mention that this -- this is
   formatted in the exact analogous fashion as the summary
   chart of the '463 patent.
             (By Mr. Ruzich) Okay.
8
        Q.
9
                  MR. RUZICH: And can we go to the next
   slide?
10
11
           (By Mr. Ruzich) Would you please read Claim 1
   of the '258 patent.
12
13
                  THE COURT: Well, I'll tell you, I'm
   really not trying to prove how long I can sit up here.
15
   I'm going to take a break until 2:30 -- I mean 3:30.
                COURT SECURITY OFFICER: All rise.
16
17
                  (Recess.)
18
                  COURT SECURITY OFFICER: All rise.
                  THE COURT: Please be seated.
19
20
                  Counsel?
21
                  MR. RUZICH: May I proceed?
22
                  THE COURT: Please do.
23
                  MR. RUZICH: Before we jump to the '258
24
   patent, I want to clarify a couple of points.
25
                  If we can go to Slide 17, please.
```

1 Let's go to Slide 18. 2 (By Mr. Ruzich) All right. Dr. Laskar, you 3 earlier testified as to the meaning of article manufacture in Claim 4, correct? 4 5 Α. Yes. 0. And you'll notice in the claim, it also 6 requires packaging material. 7 8 Α. Yes. 9 0. Do you see that? 10 Okay. And I believe -- well, why don't you 11 tell us in terms of what a person of ordinary skill in the art would understand an article of manufacture to 12 mean in 2002? 13 14 An article of manufacture, when comprising a Α. 15 packaging material, which is the ophthalmic dropper bottle, in the vast majority of cases, together with the 16 17 required label to identify its contents, as well as 18 secondary packaging, which would include, in most cases, 19 an outer carton and a package insert or prescribing 20 information insert that is included within each pack -unit of the product. 21 22 An example of that packaging insert or 23 packaging material would be the two PDRs that we 24 discussed, one for the Alphagan label as well as the Timoptic label, correct? 25

```
1
        A .
             The information contained in those monographs
   is the information that is contained within that
3
   prescribing information.
 4
        Q.
           Okay.
 5
        Α.
             That text.
        Q.
           Okay.
 6
 7
                  MR. RUZICH: Let's go to Slide 23,
8
   please.
9
                  Your Honor, we had a technical glitch. I
   just want to make certain that these boxes were checked.
10
11
                  THE COURT: Okay.
                  MR. RUZICH: Okay. Just to make certain,
12
  Your Honor.
13
                  THE COURT: Mr. Davis, I want you to give
14
15 me a case, if I fail to check the box.
                  Go ahead.
16
17
                  MR. RUZICH: Okay. I just wanted to -- I
   wanted to clarify that.
18
19
                  One more point of clarification, Your
20
   Honor, just so if you're reading the '463 patent, you
   should know that there's a certificate of correction
   that's attached, and the certificate of correction is
22
23
   important, because certain lines in the claims that are
24
   related to the claims where they transposed Timolol for
25 Brimonidine.
```

```
1
                  So you might be reading it say, oh,
   goodness, the ranges are different from Timolol and
   Brimonidine than what we told you here today. So I just
3
   wanted to draw that to the Court's attention.
5
             (By Mr. Ruzich) All right. So let's now jump
   to the '258 patent.
6
7
                  MR. RUZICH: And if I could have
  Slide 30, please.
8
9
                  And, Your Honor, again, there's overlap
10
   with these claims, and I think we can save this Court
11
   some time by addressing that overlap in an efficient
12
   manner.
13
                  And I believe right before break -- oh,
   right. Thank you. Thanks, Bo.
14
15
             (By Mr. Ruzich) Dr. Laskar, right before the
16
   break, we were about to discuss the '258 patent,
17
   correct?
18
        A .
             That's correct.
19
        Q. So let's take a look at Claim 1 of the '258
20
   patent. And would you please read that claim to the
21
   Court.
22
        A. Claim 1 of the '258 patent says:
   composition comprising 0.2% Brimonidine, paren,
23
24
   weight/volume, and 0.5% Timolol, paren, weight/volume,
25
   in a single compensation.
```

```
1
        Q.
             And I'm going to be make a reference to the
   claims of the '258 and the '463 patents, so I ask that
 3
   you be patient with me and make sure you listen to my
   question.
 4
 5
             And for the Court's reference, you'll notice
   that we have the '258 patent on the left-hand side of
 6
 7
   this demonstrative, and the '463 to the right, and we're
   addressing the claims to the right here.
9
             So with regards to Claim 1 of the '258 patent,
10
   do they differ from Claim 1 of the '463 patent?
11
        Α.
             They are essentially the same, although there
   are some slight differences, and those are highlighted
12
13
   in the right-hand column in which Claim 1 of the '463
   patent is identified and the differences are the word
15
   about prefacing .2% Brimonidine as well as .5% Timolol
16
   as well as the phrase, sole active agents, which appears
17
   in Claim 1 of the '463 but does not appear in Claim 1 of
18
   '258.
19
     Q. Okay. And those are the bolded words that
20
   appear in the top right?
21
             That's correct.
        Α.
22
             Great.
       . Q.
             Would one skilled in the art interpret these
23
24
   claims differently?
25
        Α.
             No.
```

```
1
             So does DeSantis in your opinion disclose all
2
   the limitations of Claim 1 either expressly -- or
   explicitly or inherently of the '258 patent?
3
             Yes, it does, for the same reasons that I
   indicated for Claim 1 of the '463 patent.
 5
                  MR. RUZICH: Let's go to Slide 32.
 6
7
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
        Q.
   that the DeSantis discloses all elements of Claim 1
   either inherently or explicitly of the '258 patent?
10
        Α.
             Yes.
11
             Is it your opinion that DeSantis anticipates
12
   Claim 1 of the '258 patent?
13
        Α.
             Yes.
14
             Okay. Let's turn now to the obviousness
   portion of your opinion.
15
16
             Do you have an opinion as to whether Claim 1
17
   of the '258 patent is rendered obvious?
18
        Α.
            Yes, I do.
19
           And what is that opinion?
20
             It is that using DeSantis as well as
   information available to a person skilled in the art in
21
22
   April of 2002, the information that they would have
   available would render Claim 1 of the '258 patent
   obvious.
24
25
        Q. Okay. And just so I'm clear, your analysis of
```

```
Claim 1 of the '463 patent is readily applicable to your
1
2
   analysis for anticipation and obviousness of Claim 1 of
   the '258 patent?
3
 4
        Α.
             That is correct.
 5
             Okay. Let's move on now to Claim 2 of the
   '258 patent.
6
                  MR. RUZICH: Next slide, 33, please.
8
             (By Mr. Ruzich) Can you please read that claim
   to the Court, Claim 2?
9
10
             Claim 2 of the '258 patent reads:
11
   composition of Claim 1 further comprising from 0.001 to
12
   0.01 of Benzalkonium Chloride.
13
             And you understand that Claim 2 depends from
14
   Claim 1?
        Α.
15
             Yes, I do.
16
             And from your earlier understanding, you now
   know that all limitations of Claim 1 now appear in
   Claim 2?
18
19
        A .
             Yes.
20
             Does your analysis of Claim 1 apply to those
21
   same limitations that are now incorporated into Claim 2?
22
      - A.
             Yes.
2.3
             How does Claim 2 of the '258 patent differ
   from Claim 2 of the '463 patent?
24
25
             I see no difference in the text.
```

```
1
             Okay. Would one of ordinary skill in the art
        Q.
2
   interpret these claims differently?
        Α.
 3
             No.
             Does DeSantis disclose all limitations of
 4
        0.
   Claim 2 of the '258 patent?
5
 6
        Α.
             Yes.
 7
           And how did you reach this conclusion?
        Q.
8
        A.
            By means of the same analysis that I applied
   to Claim 2 of the '463 patent.
10
             To wrap this up, Dr. Laskar, is it your
11
   opinion that DeSantis discloses all the elements of
12
   Claim 2 either explicitly or inherently of the '258
13
   patent?
        Α.
           Yes.
14
15
        Q. Now, let's focus on --
16
                  MR. RUZICH: If I could get that box
17
   checked, please. Oh, no, we didn't get to obviousness
18
   yet.
19
            (By Mr. Ruzich) With regards to Dr.
20
   Laskar's -- Dr. Laskar, with regards to your opinion as
   to obviousness, with regards to Claim 2 of the '258
21
   patent, do you have an opinion?
22
23
             Yes.
        Α.
24
        Q.
           And what is that opinion?
25
        A .
             That DeSantis as well as information available
```

```
to a person skilled in the art in April of 2002 would
   render Claim 2 of the '258 patent obvious.
 3
             And is it fair to say, then, that your
   analysis of Claim 2 of the '463 patent is also readily
   applicable to Claim 2 of the '258 patent?
 5
        Α.
            Yes.
 6
 7
        0.
             Okay.
 8
                  MR. RUZICH: And if we could check
  Claim 2, both those boxes, please.
9
10
                  We have a technical glitch, Your Honor,
   again, but -- there we go. Fantastic.
11
12
                  So let's now move to Slide 35, please.
13
             (By Mr. Ruzich) Can you read for the Court
        Q.
14
   Claim 3, please?
15
           Yes. Claim 3 of the '258 patent reads:
   composition of Claim 2 comprising about 0.005%
16
   Benzalkonium Chloride.
17
             And now do you understand that Claim 3 depends
18
   from Claim 2, which in turn depends from Claim 1?
19
20
             Yes, I do.
        Α.
21
             And is it your understanding that all
22
   limitations that can be found in Claim 1 and Claim 2 are
23
   now incorporated into Claim 3?
             Yes, I do understand that.
24
        Α.
25
             And does your analysis -- based on that
        Q.
```

```
understanding, does your analysis of Claim 1 and Claim 2
1
2
   still apply to those same limitations that are now
   incorporated into Claim 3?
3
4
        Α.
             Yes.
             How does Claim 3 of the '258 patent differ
5
        0.
   from Claim 3 of the '463 patent?
6
7
             There appears to be no difference.
        Α.
8
        Q.
             Would one of ordinary skill in the art
   interpret these claims differently?
             No, they would not.
10
             Does DeSantis disclose all the limitations of
11
        0.
   Claim 3 of the '258 patent?
12
13
        A.
             Yes.
14
           And how did you reach that conclusion, sir?
        0.
15
        Α.
             Using the same analysis that I applied in
   analyzing Claim 3 of the '463 patent.
16
             Dr. Laskar, is it your opinion that DeSantis
17
18
   discloses all the elements of Claim 3, either explicitly
   or inherently, of the '258 patent?
19
20
        Α.
             Yes.
21
             In your opinion, does DeSantis anticipate
   Claim 3 of the '258 patent?
23
        Α.
             Yes.
24
             Turning now to obviousness, do you have an
25
   opinion as to obviousness with regards to Claim 3?
```

```
1
        Α.
             I do.
             And what is that opinion?
2
        0.
             My opinion is that DeSantis and information
3
   available to one skilled in the art in April of 2002
   would render Claim 3 obvious.
 5
        Q. And is that conclusion with regards to
6
   anticipation of Claim 3 of the '258 patent -- I'm
   sorry -- the '463 patent and your obviousness analysis
   of Claim 3 of the '463 patent readily applicable to
10
   Claim 3 of the '258 patent?
11
        Α.
             Yes.
12
             I hope I said that right.
        0.
             I had to parse that kind of carefully.
13
        Α.
14
             I appreciate it. Okay.
        Q.
15
                  MR. RUZICH: Let's move on now to Claim 4
   of the '258 patent, Slide 37, please.
             (By Mr. Ruzich) Okay. Can you read Claim 4 to
17
        Q.
   the Court, please?
18
19
            Yes. Claim 4 of the '258 patent reads:
20
   composition of Claim 1 wherein Brimonidine is
   Brimonidine Tartrate and Timolol is Timolol Maleate.
21
22
      Q.
             And, again, Claim 4 depends from Claim 1.
23
             Do you see that?
24
        A .
             Yes.
25
             And do you understand now that all limitations
        Q.
```

```
of Claim 1 are now in Claim 4?
 2
        Α.
             I do.
 3
             Does your analysis of Claim 1 apply to those
   same limitations that are now incorporated into Claim 4?
 5
             Yes, it does.
             How is this claim different than the other
 6
        0.
   composition claims that we've been through, such as
   Claim 1?
             Claim 4 of the '258 patent makes the
9
        A .
10
  distinction between Brimonidine in general and -- and
   defines Brimonidine as being Brimonidine Tartrate, and
11
   in an analogous fashion, defines Timolol as Timolol
  Maleate.
131
14
        Q.
             Okay. What exactly is Tartrate and what
15
   exactly is Maleate?
16
             Tartrate and Maleate are the counter-ions used
   in the formation of a salt of Brimonidine and a salt of
17
   Timolol, respectively.
18
19
        Q. And does DeSantis disclose all limitations of
20
   Claim 4?
            Yes, it does.
21
        Α.
22
             Would a person of ordinary skill in the art
23
   have understood DeSantis to disclose the salt forms you
24
   just testified to?
25
        A. Yes. A person of ordinary skill would
```

```
1
   immediately envision in April of 2002 that when
   Brimonidine is referred to, that, in fact, Brimonidine
  Tartrate is referred to -- is meant, and that when
 3
   Timolol is referred to, that Timolol Maleate is the
 4
   object of that referral.
             Is that knowledge set forth in the
 6
   publications we discussed earlier, specifically the PDRs
   for the Alphagan and Timoptic labels?
             Yes. Both those pieces of information are
10
   present in the monograph for Alphagan and the monograph
   for Timoptic that appear in the PDR.
11
12
        0.
             Okay. So this is the Alphagan PDR.
13
                  MR. RUZICH: Next slide, please.
14
        Q.
             (By Mr. Ruzich) And this is the PDR for
15
   Timoptic?
16
        Α.
             Yes.
17
        0.
             Great.
18
                  MR. RUZICH: Slide 40, please.
19
        Q.
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
20
   that DeSantis discloses all the elements of Claim 4,
21
   either explicitly or inherently, for the '258 patent?
22
       - A .
             Yes.
23
             And does DeSantis, in your opinion, anticipate
24
   Claim 4 of the '258 patent?
25
        Α.
             Yes.
```

```
1
             Let's now turn to your obviousness review.
 2
             Do you have an opinion as to whether Claim 4
   is rendered obvious?
 3
        Α.
             Yes.
 4
 5
             And what is that opinion?
             That DeSantis, together with information
 6
   available to one skilled in the art in April of 2002,
   would render Claim 4 of the '258 patent obvious.
 9
        Q. Okay. And as to your analysis with regard to
   anticipation and obviousness of Claim 1 of the '258
10
11
   patent, would that analysis also be applicable to your
12
   analysis of Claim 4 here?
13
        Α.
            Yes.
14
             So address Claim 5 of the '258 patent,
   Dr. Laskar. What does Claim 5 recite?
15
        A. Claim 5 of the '258 patent states: The
16
17
   composition of Claim 1, which is useful for treating
18
   ocular hypertension.
19
        Q. And you notice that Claim 5 depends from Claim
  1?
20
21
        Α.
           I do.
22
             And do you understand that all those
23
   limitations that are in Claim 1 can now be found in
24
   Claim 5?
25
        A .
            Yes.
```

```
1
             And does your analysis, Dr. Laskar, of Claim 1
        Q.
   apply to those same limitations that are now
   incorporated into Claim 5?
3
 4
        A.
             Yes.
5
             Dr. Laskar, in your opinion, does DeSantis
   disclose Claim 5?
 7
             Yes, it does. In Column 1, beginning Line 13
   where the highlighted -- as indicated in the highlighted
   section, treatment of ocular hypertension.
           And that's Column 1, 13 through 24?
10
11
        Α.
            Yes.
12
                  MR. RUZICH: Next slide, please.
13
        Q.
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
   that DeSantis discloses all the elements of Claim 5,
14
15
   either inherently or explicitly, of the '258 patent?
16
        Α.
             Yes.
            Does DeSantis anticipate Claim 5, in your
17
18
   opinion, of the '258 patent?
19
       Α.
            Yes.
20
            Let's now focus on your obviousness review of
        Q.
21
   Claim 5.
22
             Do you have an opinion as to whether Claim 5
   has been rendered obviousness?
23
24
        Α.
             Yes.
25
        Q. And what is your opinion?
```

```
That DeSantis and information available to one
1
        A.
   skilled in the art in April 2002 would render Claim 5 of
2
   the '258 patent obvious.
3
             And the knowledge of a person having ordinary
4
5
   skill in the art at that time was what? Are there any
  publications that you can point to that would show what
6
7
   the knowledge of one of ordinary skill in the art had at
   that time?
8
             In this case, yes. The information concerning
10
   ocular hypertension is contained within the monographs
   for Alphagan and Timoptic, such as those that which --
11
   those that appear in the PDR.
12
             So now let's focus on the Claim 6 of the '258
13
14
   patent.
15
             Can you please recite the claim for the Court?
             Claim 6 of the '258 patent reads:
16
17
   composition of Claim 1, which is useful for treating
18
   glaucoma.
        Q. Okay. And, again, Claim 6 depends from Claim
19
20
   1, correct?
21
        Α.
             Yes.
             And do you understand now that all limitations
22
   of Claim 1 can now be found in Claim 6 of the '258
23
24
   patent?
25
        Α.
             Yes.
```

```
1
             And does your analysis of Claim 1 apply to
   those same limitations that are incorporated into the
   Claim 6?
 3
 4
        A .
             Yes.
 5
             Dr. Laskar, does DeSantis disclose Claim 6?
 6
        A.
             Yes, it does. It does so in Column 1,
   beginning in Line 13, in which it notes that the
   invention relates to the treatment of glaucoma.
9
             Okay. And just for the Court's sake, it's
10
   Column 1, Lines 13 through 24?
11
             Yes.
        A.
12
        0.
            Okay. Thank you.
13
                  MR. RUZICH: Let's go to the next slide.
14
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
15
   that DeSantis discloses all the elements of Claim 6,
   either explicitly or inherently, of the '258 patent?
16
17
             Yes.
        Α.
18
             Does the DeSantis anticipate Claim 6 of the
   '258 patent?
19
20
             Yes, it does.
        Α.
21
        Q.
             And now let's turn to --
22
                  MR. RUZICH: Put a check in that box.
23
             (By Mr. Ruzich) Now let's turn to your
   obviousness opinion.
24
25
             Do you have an opinion as to whether Claim 6
```

```
has been rendered obvious?
1
            Yes, I do.
2
        A .
            And what is that opinion?
 3
             My opinion is that DeSantis and information
 4
   available to a person skilled in the art in April of
5
   2002 would render Claim 6 of the '258 patent obvious.
 7
        Q.
             Thank you.
 8
             Let's focus now on Claim 7. We have three
  more claims to go of the '258 patent.
10
                  MR. RUZICH: Slide 45, please.
             (By Mr. Ruzich) And you'll notice, Dr. Laskar,
11
        0.
   that Claim 7 is an independent claim.
12
             Yes, I noticed that. Thank you.
13
        A .
             Would you please read Claim 7 of the '258
14
15
   patent for the Court?
16
             Would you like it in its entirety or
17
   section-by-section?
             Section-by-section. I think the Court would
18
19
   appreciate that.
20
             Okay. The first element of Claim 7 of the
21
   '258 patent is an article of manufacture comprising
22
   packaging material and a composition within said
   packaging material.
23
24
           Okay. And we're going to make a comparison to
  the Claim 4 of the '463 patent, Dr. Laskar.
25
```

```
How does Claim 7 of the '258 patent differ
 1
  from Claim 4 of the '463 patent?
 3
            The first element of Claim 7 of the '258
   patent and the first element of Claim 4 of the '463
   patent are identical in wording.
       Q. And the differences are pointed out by the
 6
   bolded language on the right-hand side?
           Except there is no bolded language in that
   particular element.
        Q. Okay. Fair -- okay. Fair enough. We'll get
10
  to that in a moment.
11
12
           Would one of skill in the art interpret these
13 claims differently?
14
       A. No.
15
          And why not?
        Q.
16
        A. Because the words are identical in -- in
   exactly identical order.
17
18
        Q. Okay. And in your opinion, Dr. Laskar, does
19
   DeSantis disclose all the limitations of Claim 7 of the
20
  '258 patent?
21
             It certainly discloses element 1 insofar as
22
   we've analyzed that claim thus far of the '258 patent.
23
             Okay. And what about the other elements?
24
             I have -- the second element of Claim 7 has
  the -- the difference between that and Claim 4 of the
25
```

```
'463 patent are the modifiers about preceding .2% of
1
   Brimonidine, .5% Timolol.
 2
 3
             And Claim 3 of the -- of Claim -- excuse me --
 4
   element 3 of Claim 7 of the '258 patent is identical in
   wording to the third element of Claim 4 of the '463
 5
   patent.
 6
 7
             And therefore, my analysis of Claim 4 in its
   entirety, as well as of the elements of the '463 patent,
8
   is identical to what I would -- I would apply to Claim 7
   in its entirety of the '258 patent.
             Thank you.
11
        Q.
12
                  MR. RUZICH: Okay. Next slide, please.
   Slide 47.
13
14
                  Great.
15
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
        Q.
16
   that DeSantis discloses all the elements of Claim 7,
17
   either inherently or explicitly, of the '258 patent?
18
        Α.
             Yes, it does.
19
        Q.
             And does DeSantis anticipate Claim 7 of the
20
   '258 patent?
21
        A .
             Yes, in its entirety.
22
       Q.
             Fantastic.
23
             Now, let's turn to your obviousness review.
24 Do you have an opinion as to whether Claim 7 of the '258
25
   patent has been rendered obvious?
```

```
1
        Α.
             Yes, I do.
 2
             And what is that opinion?
 3
             My opinion is that DeSantis and information
   available to one skilled in the art in April of 2002
   would render all elements of Claim 7 of the '258 patent
 5
   obvious.
 6
 7
        Q. We understand that your analysis that you
   applied to Claim 4 of the '463 patent would be readily
   applicable to Claim 7 of the '258 patent when discussing
9
10
   and opining on anticipation, correct?
11
             When opining upon anticipation and
12
   obviousness.
13
        Q.
            Okay. Thank you.
14
             Claim 8.
15
                  MR. RUZICH: Can we go to Slide 48,
16
   please?
17
             (By Mr. Ruzich) Dr. Laskar, can you read Claim
18
   8?
19
                  THE WITNESS: Perhaps 49.
20
                  MR. RUZICH: We can punch it to 49.
21
                  THE WITNESS: No, the next one.
22
                  MR. RUZICH: There we go. Thanks.
             (By Mr. Ruzich) Can you read Claim 8 to the
23
24
   Court, please?
25
        Α.
             Yes. Claim 8 of the '258 patent reads:
```

```
article of manufacture of Claim 7, wherein the
1
   composition further comprises from 0.001% to 0.01%
2
   Benzalkonium Chloride.
            Okay. And you notice that Claim 7 depends --
 4
   I'm sorry -- Claim 8 depends from Claim 7?
 5
 6
        Α.
             I do.
 7
             And do you understand that all the limitations
8
   of Claim 7 are now in Claim 8?
        Α.
             I do.
9
             And does your analysis of Claim 7 (sic) still
10
11
   apply to the same limitations that are now incorporated
12
   into Claim 8?
13
             I think you meant to say Claim 8. And my
   analysis of Claim 8 of the '258 patent is the same.
14
        Q. Thank you.
15
16
                  MR. RUZICH: Let's go to the next slide.
17
   Let's go back. I'm sorry. Let's go back to 49.
             (By Mr. Ruzich) Let's take a look at Claims 8
18
   and 9 of the '258 patent as to the claims of 5 and 6 of
19
20
   the '463 patent.
21
             Would one of ordinary skill in the art
22
   interpret these claims differently?
23
             Not at all.
        Α.
24
           And does DeSantis disclose all limitations of
25
   Claim 8 of the '258 patent?
```

1 A. Yes, it does. And how did you reach that conclusions? 2 3 Using the same analysis that I performed on Claim 5 of the '463 patent, that analysis I applied to Claim 8 of the '258 patent. Okay. And, Dr. Laskar, is it your opinion 6 Q. that the DeSantis discloses all the elements of Claim 8? 8 MR. RUZICH: If we could have the next 9 slide, please. 10 Α. Yes. 11 (By Mr. Ruzich) Is it your opinion that 12 DeSantis anticipates Claim 8 of the '258 patent? 13 Α. Yes. 14 Now, let's turn to your obviousness opinion. Q. 15 Do you have an opinion as to whether Claim 8 has been rendered obvious? 16 17 Yes, I do. Α. 18 And what is your opinion? 19 That DeSantis, together with information 20 available to one skilled in the art in April of 2002, 21 would render Claim 8 of the '258 patent obvious. 22 And that information that was available to a person of ordinary skill in the art as of April of 2002 included the PDRs that we discussed? 24 25 Yes. That would be one of the references they A .

```
could use.
1
2
            Okay. And to be specific, the PDR of the
3
  Alphagan label?
 4
             It would be the Alphagan monograph and the
5
   Timolol monograph in that volume.
6
        Q.
             And by the Timolol monograph, you're referring
   to the Timoptic?
7
8
        A.
             Yes, Timoptic.
             I know it's getting late in the day.
10
             Claim 9, let's address that next. Can you
  please read that for the Court?
11
12
             Yes. Claim 9 of the '258 patent reads:
        Α.
13
   article of manufacture of Claim 7, wherein the
14
   composition further comprises about 0.005% Benzalkonium
15
   Chloride.
16
        Q. And you understand that all the limitations of
17
   Claim 7 are now in Claim 9, because Claim 9 depends from
   Claim 7?
18
19
        A .
             Yes, I do understand that.
20
             And does your analysis of Claim 7 still apply
21
   to those same limitations that are incorporated in Claim
22
   9?
23
        Α.
            Yes.
24
             And let's take a look at Claim 9 of the '258
25 with Claim 6 of the '463 patent.
```

```
Do you have that?
1
             Yes. It's a typo --
 2
        Α.
 3
        Q.
             Yeah.
             -- in that box.
 4
 5
        0.
             Okay. How does Claim 9 compare to Claim 6 of
   the '463 patent?
 6
             The wording is identical, except for the
 7
   number 7 in Claim 9 of the '258 patent, and 5 in Claim 6
   of the '463 patent. But those claim referentials refer
10
   to identical text in their respective documents.
11
        0.
             Would one of skill in the art interpret these
12
   claims differently?
13
        Α.
             No.
             Does DeSantis disclose all limitations of
14
15
   Claim 9 in the '258 patent?
16
        Α.
            Yes.
17
             How did you reach that conclusion?
18
             I reached that conclusion on Claim 9 of the
19
   '258 patent using the same analysis that I performed on
20
   Claim 6 of the '463 patent.
21
                  MR. RUZICH: Next slide, please.
22
             (By Mr. Ruzich) Dr. Laskar, is it your opinion
23
   that DeSantis discloses all the elements of Claim 9,
24
   either explicitly or inherently, of the '258 patent?
25
        Α.
             Yes.
```

```
1
             And in your opinion, Dr. Laskar, does DeSantis
   anticipate Claim 9 of the '258 patent?
3
        Α.
             Yes.
             As to obviousness, have you rendered an
 4
5
   opinion as to Claim 9 of the '258 patent is obvious?
6
        Α.
             Yes.
 7
        Q.
             And what is that opinion?
             My opinion is that DeSantis and one skilled in
8
   the art, having information available such as that from
   the respective monographs of Alphagan and Timoptic,
10
   would render Claim 9 of the '258 patent obvious.
11
12
             Okay. Dr. Laskar, with respect to the '258
   patent, you know that that was cited to the Patent
14
   Office, correct? I'm sorry?
15
           That DeSantis -- the '052 was cited within the
        Α.
   body --
16
17
             Let me rephrase. You know that DeSantis was
        0.
18
   cited to the Patent Office during the prosecution of the
19
   '258 patent, correct?
20
        Α.
             Yes, I do.
21
             You also know that DeSantis was not cited to
22
   the Patent Office during the prosecution of the '463,
23
   the '149, and the '976, correct?
24
             I am aware of that.
25
             As to the '258 patent, as to the fact that
        Q.
```

```
DeSantis was provided to the Patent Office, does it
1
   impact your opinion as you testified in Court today?
3
           Not at all.
        Q. Okay.
 4
5
                  MR. RUZICH: I just have a couple of
   wrap-up questions, Your Honor.
6
 7
             (By Mr. Ruzich) Dr. Laskar, have you read
  Dr. Noecker's reports?
             I have.
       A.
10
             And have you read what Dr. Noecker -- have you
  read what Noecker defines as a person of ordinary skill
11
  in the art?
12
       A. I have.
13
           And do you agree with his statements regarding
14
  the level of knowledge of one skilled in the art?
15
       A. I do not.
16
17
        Q.
           And why is that?
18
             I believe that Dr. Noecker does not give
   sufficient credit to a person skilled in the art at the
19
20
  time of April of 2002.
21
                  MR. RUZICH: Your Honor, I have nothing
22
  further, and I pass the witness.
23
                  THE COURT: Okay. Ms. Brooks,
   cross-examination?
24
25
                  MS. BROOKS: Thank you, Your Honor.
```

1 CROSS-EXAMINATION BY MS. BROOKS: 2 3 Good afternoon, Dr. Laskar. Q. Good afternoon, Ms. Brooks. 4 5 Am I correct, if I did my math right, that you have not worked for Allergan for approximately 18 years? 6 7 Is that right? 8 That sounds about right, yes. A. 9 0. And since that time, you've worked for various 10 startup companies at various points in your career? 11 I hardly describe Santen or Dey as startup They're very well-established. Santen, I 12 companies. think, began business early in the 20th century. Dey 13 began business in the late 1980s. 14 15 I'm sorry. Perhaps you misunderstood my Q. 16 question. 17 Dr. Laskar, have you worked for various 18 startup companies during the course of your career? 19 Α. Yes. 20 Okay. And I think you told us about some of 21 them on direct examination; is that right? 22 Yes. Α. 23 And at the present time, you have your own 24 consulting company called Laskar & Associates; is that 25 correct?

1 A. Laskar Associates, yes. 2 Laskar Associates. And are you also on the 3 management board for a company called Amalyte Pharmaceuticals? 4 5 Α. I am. 0. And is that also a startup company? 6 7 A . Yes, it is. 8 0. Are you also on the management board of a company called G2B Pharmaceuticals? 9 10 A. Yes, I am. 11 Q. And is that also a startup company? Yes, it is. 12 A. 13 Now, both of those companies have scientific 0. 14 advisory boards, but you are not on their scientific 15 advisory boards, correct? 16 Α. That is correct. 17 0. In addition to working for various startup 18 companies, you've also assisted generics on occasion in 19 formulating generic copies of branded products; is that 20 right? 21 I have assisted one company. 22 And, in fact, is it fair to say, Dr. Laskar, Q. 23 that the only combination ophthalmic glaucoma treatment 24 that you have worked on was a generic version of Cosopt? 25 No, that's not correct.

```
1
             So at your deposition, when you were asked
        0.
2
   this question -- it's at Page 17, Line 18:
             So then, Dr. Laskar, is it correct that the
3
4
   only combination ophthalmic glaucoma treatment that you
   worked on was the generic version of Cosopt?
5
             And your answer was: Yes.
6
7
             Was that inaccurate?
8
        A.
             Yes, that was.
9
             So you want to change that answer to no?
        Q.
10
        Α.
             Yes.
11
             All right. Have you worked on other generic
12
   versions of other combination ophthalmic products?
13
        Α.
             No.
14
             So is it correct, then, that the only
15
   combination ophthalmic glaucoma treatment that you
16
   worked on was a generic version of Cosopt?
17
        Α.
             No.
18
             Okay. What other combination ophthalmic
19
   glaucoma treatments have you worked on?
20
        Α.
             As I mentioned in -- in direct examination, I
21
   assisted Santen's finished subsidiary in their
22
   ready-to-use version of a combination of Timolol and
23
   Pilocarpine.
           Did that ever make it to market?
24
        0.
25
        A. No, it did not.
```

```
1
             Now, when you're assisting a generic in the
   case of the generic who was copying Cosopt, you would
   agree that the formulation, then, had already been
3
   achieved by the branded company, correct?
5
        Α.
             The formulation had been achieved by the
   branded company, that's correct.
 6
7
             And you would agree that the branded or the
   innovator company had already gone through its
   preformulation efforts, correct?
10
        Α.
             Yes.
11
             And the innovator company would have already
12
   gone through its formulation efforts, correct?
13
        Α.
             That is correct.
14
        Q. And it would have already gone through its
15
   Investigational New Drug Application, correct?
16
        Α.
             Yes.
17
             It would have already gone through its Phase 1
18
   clinical trials, correct?
19
        A.
             Yes.
20
             It would have gone through its Phase 2
21
   clinical trials, correct?
22
       - A .
            That's correct.
23
             It would have gone through its Phase 3
24
   clinical trials, correct?
25
             That is correct.
        A .
```

```
1
             It would have already submitted its New Drug
2
   Application to the Food and Drug Administration,
   correct?
 3
        Α.
             Of course.
             And it would have already received approval
 5
        Q.
   for that drug, correct?
6
7
        Α.
             Yes.
8
             And so would you agree with me, Dr. Laskar,
   that when working for a generic who is copying an
   innovator's formulation, that hindsight is 20/20?
10
             It is -- no, I would not agree with that.
11
12
        0.
             Would you agree that it's a lot easier to be
13
   able to just copy an innovator's formulation than to
   have to start from scratch?
14
             Yes, I would agree with that.
15
16
        Q.
             Now, let's turn to your analysis in this case
   of the Timolol and Brimonidine combination that is
17
18
   Combigan. You started your testimony by showing us a
   page from your expert report, DTX98, and specifically
19
20
   Page 10 -- excuse me.
21
                  MS. BROOKS: And if we could pull that
22
  back up, Mr. Exline.
23
                  And at Page 10, if we could blow up that
   chart that you showed us.
24
25
            (By Ms. Brooks) Now, on this chart, this is
        Q.
```

1 showing Timoptic in one column and Alphagan in another column; is that correct? 3 Α. Yes. And it appears that the buffer in Timoptic is 4 Q. something called a monobasic and dibasic sodium phosphate; is that right? 6 7 Those are the components of that buffer Α. system. 0. The buffer system for Alphagan was a citric 10 acid and sodium citrate, correct? Yes, it is. 11 A. 12 And as a formulator, you would agree that 13 those are two different buffer systems, are they not? 14 Α. Yes, they are. 15 In fact, the phosphate is toward the alkaline 16 end of the pH scale, and then the acid or citrate would 17 be more toward the acid end? 18 Α. It depends on the ratio of those two phosphate 19 salts, sodium phosphate --20 You would agree -- I'm sorry. I didn't mean 21 to interrupt. 22 A. No, I was incomplete in my sentence, and I 23 tried to correct. 24 And you would agree as a formulator that the Alphagan formulators must have chosen the citric acid 25

```
and sodium citrate buffer for a reason?
 1
 2
        Α.
             Yes.
             Now, we move down to the BAK.
 3
                                             In Timoptic,
   the amount of BAK was .01%, correct?
 4
 5
        A .
             That is correct.
 6
        Q.
             And in Alphagan, the amount of BAK was .005%,
 7
   correct?
 8
        A.
             That is correct.
9
             Now, again, as a formulator, you would agree
10
   that there must have been a reason for the formulators
11
   of Timoptic to choose the .01% BAK, correct?
12
        A .
             I would believe so, yes.
13
        Q.
             And, in fact, we've heard testimony that there
   is cytotoxicity to BAK; is that right?
14
15
        Α.
             Yes.
16
             And so, one, as a formulator, you would want
        Q.
   to try to use the lowest amount of BAK possible.
17
18
             Would that be a fair statement?
19
             That's what I've said before, yes.
        A .
20
        Q.
             And so we can assume that the formulators of
   Timoptic used the .01% BAK, because they believe that
21
   that was necessary for that formulation.
22
23
             Would you agree with that?
24
        A.
             I -- I would agree that they had some reason
25
   to do so. I have no idea what that reason might be. I
```

```
can't get inside the Merck formulator's head.
 2
             Now, if it we come down to the tonicity agent,
 3
   for Timoptic, there is no tonicity agent; is that right?
             There is no tonicity agent.
 4
 5
             But for Alphagan, there is a tonicity agent
        0.
   called sodium chloride; is that correct?
 6
        Α.
             Correct.
 7
             And, again, as a formulator, I think you
   mentioned that a formulator would want to try to use the
10
   minimum amount of excipients possible.
11
             Did I hear your testimony correctly?
12
        Α.
             That is correct.
13
             So the fact that there is this tonicity agent
        Q.
14
   in Alphagan would lead you as a formulator to believe
   that it is there for a reason; is that right?
15
16
        A. Yes, it would have to be there for a reason.
17
   Otherwise, it would not be there.
18
             And there is under viscosity agent in the
        0.
   Timoptic formulation, there's nothing listed under
19
20
   viscosity agent; is that right?
21
             Not in Timoptic. That's correct.
22
             But in Alphagan, there's polyvinyl alcohol
   listed; is that correct?
23
             Yes, there is.
24
        Α.
25
        Q.
             And, again, as a formulator wanting to use the
```

```
least amount of excipients possible, you would agree
1
   that the formulators of Alphagan must have been using
2
   polyvinyl alcohol for a reason?
3
             Yes, absolutely.
 4
             And then we come down to the pH adjusting
 5
   agent, and both Timoptic and Alphagan have pH adjusting
6
7
   agents of sodium hydrochloride, or in the case of
   Alphagan, also hydrochloric acid?
             I think you misstated. Within Timoptic it's
10
   sodium hydroxide, not hydrochloride.
             My apologizes. You're right. It is late in
11
12
   the day for everybody.
             Timoptic has sodium hydroxide as a pH
13
   adjusting agent; is that right?
14
        A.
15
             Yes.
             And Alphagan also has sodium hydroxide as a pH
16
   adjusting agent, correct?
17
18
        Α.
             It has sodium hydroxide as one of the pH
   adjusting agents, yes.
19
20
             Correct. And it says: Or hydrochloric acid;
21
   is that right?
22
             Yes. And actually, I think there may be a
        Α.
23
   typo there, because I believe the labeling may say
24
   and/or.
25
        Q. So it could be both. In fact, the
```

```
hydrochloric acid and the sodium hydroxide might be
1
   present in the Alphagan formulation?
3
             In one batch and it may be one or the other in
   another batch. I can't postulate what happens in the
 4
   manufacturing for Allergan.
 5
6
             Would you agree that the formulators of
 7
   Combigan would have been aware of the excipients that
8
   were contained in the Alphagan formulation when they
   began their formulation efforts?
10
        Α.
             I would hope so.
11
             And you would agree that the formulators of
12
   Combigan would have been aware of the excipients
   contained in Timoptic when they began their formulation
13
14
   efforts?
15
             They would have known at least the qualitative
   version, and perhaps more, given the generic version of
16
17
   Timolol, that Allergan, through their specific pharma
18
   markets are marketed.
19
             Now, let's talk for a minute about pH. You
20
   don't have this in your report, but the pH of Timoptic,
   the target pH, is approximately 7; is that right?
21
22
             That's correct.
       . A.
23
             And that is right at neutral on the pH scale;
   is that correct?
24
25
           As you instructed us yesterday.
```

1 Q. And did I get it right? 2 As you instructed, so, yes, you were right. 3 Q. Thank you. I just like people to say that. Alphagan, the pH of Alphagan is 6.3; is that right? The target pH? 6 Α. No. It appears -- as I read the label, that the lower limit of the target is 6.3, and the upper is 6.5 or 6.6. I don't recall exactly. Q. All right. So there is a range of pH for 10 Alphagan; is that right? That's what I recall from the labeling. 11 12 And it's a range of probably 6.3 to 6.5. Does that sound about right? You probably have better access to that 14 Α. information immediately than I do, so I'll accept that. 15 And you would agree that those are two 16 17 different pHs, 7.0 versus 6.5 or 6.3? 18 Α. Absolutely. 19 And was I -- was I right that the pH scale is 0. 20 a log scale? 21 Α. Yes. 22 Q. So there -- it would be between 7.0 pH and 6.3 23 pH, a sevenfold difference; is that right? 24 A . No. 25 Okay. What would be the difference between Q.

```
6.3 and 7?
1
2
             About fivefold.
3
        Q.
             A fivefold difference?
 4
        A.
             Yes.
5
             What would be the difference between 6.5 and
        0.
   7?
6
 7
             About three or fourfold.
        Α.
8
           So we have anywhere from a three to fourfold
   to a fivefold difference between the two pHs in this
  case; is that right?
10
            Yes. That's what I said.
11
        Α.
12
           And, again, the formulators would be aware of
   that, also?
13
14
    Α.
             Yes.
15
       Q. Now, would you agree that when formulating
16
   ophthalmic formulations, a formulator would, if
17
   possible, try to get the formulation as close to the pH
   of the eye as possible?
18
19
      A. Other things being equal, yes.
20
             Exactly. Other things being equal.
21
             So can we assume, then, that the formulators
22
   of Alphagan were unable to formulate Alphagan at higher
23
   than a pH of 6.5?
24
             I don't know that with certainty, given the
25
   information that in 2001 or 2002 would have been
```

```
available, I believe, publicly and certainly within the
1
   frame -- the laboratories of Allergan.
 2
        Q. Well, at the time that Alphagan was
 3
   formulated, the conventional thinking was that
 5
   Brimonidine would fall out of solution at higher pHs;
   isn't that right?
6
 7
        Α.
             I don't know that that's common knowledge.
 8
        Q. Do you know that?
 9
            Do I know that?
10
             Yes.
        Q.
11
             I know from the information that's publicly
12
   available and has been for quite some time that that
13
   would not be the case.
14
             Well, we're talking now about -- we're going
15
   to get to Alphagan-P in a minute. We're talking
   about --
16
17
        A.
             No, I'm talking about Alphagan.
18
        0.
           Pardon me?
19
           I am talking about Alphagan.
        A.
20
        Q.
             Would you agree that Alphagan was indeed,
   though, formulated at a pH of approximately 6.3 to 6.5?
21
22
        A .
             I've not disputed that at all.
23
        Q.
             Okay. Now, let's talk for a minute about
24
   Alphagan-P.
25
             Are you familiar with that drug?
```

```
Α.
             Somewhat.
1
2
             And Alphagan-P does not use BAK as a
3
   preservative; is that correct?
 4
             Yes, that is correct.
        A.
 5
             It uses Purite as a preservative, correct?
6
        A. Yes, it does.
             But the active ingredient in Alphagan-P is
 7
        0.
8
   Brimonidine; is that right?
9
             Brimonidine Tartrate, yes.
10
        0.
             And it is the same active ingredient that is
11
   in Combigan, correct?
12
             Yes, it is.
        Α.
13
             And were you here when Mr. Beck testified that
   the formulators of Combigan attempted to use Purite as
15
   the preservative in Combigan?
16
        A .
            Yes.
17
             And were you here when Mr. Beck testified that
   those formulation efforts failed?
18
19
        Α.
           Yes.
20
             And did you understand his testimony to be
21
   that the reason that they failed was the Purite ended up
22
   oxidizing with the Timolol?
23
        Α.
             Yes.
             And as a formulator, you are familiar with
24
25 that type of phenomenon occurring, are you not?
```

A. I am.

1

2

3

5

8

13

- Q. Where you might put two ingredients together and together something happens that wouldn't -- wouldn't occur if you kept them apart?
- A. I think in the -- in this particular case that given the information that would be publicly available, that that reaction would have been one that one would be suspicious about; that is, that there would be the suspicion that that could happen.
- Q. So the formulators at Allergan were just
 wasting their time when they tried to formulate Timolol
 and Purite?
 - A. No, I did not say that.
- Q. Well, you seem to have quite a working
 knowledge of Brimonidine, where it does or doesn't fall
 out of solution.
- But isn't it true, sir, you don't have any experience working with Brimonidine?
- A. Not in a hands-on fashion. That is absolutely correct.
- Q. And, in fact, you don't have any experience working with Alpha-2 adrenergic agonists; is that correct?
- A. Given that Brimonidine is -- is -- occupies

 25 90-plus percent of the market, then you are absolutely

```
1
   correct.
 2
             Well, you don't have any hands-on experience
  working with Apraclonidine, do you?
3
 4
        Α.
            No. You're correct. I was being a little bit
  facetious.
 5
        Q. Now, you said on direct examination that in
 6
 7
   looking at the patents, the formulators appear to have
   no problems in formulating, and then you said this
   formulation, and you were pointing to the formulation in
10 the patent; is that right?
11
        Α.
             Yes.
12
             Now, when you say, in looking at the patent,
   you're talking about then starting with the patent and
13
14
   confining your observations to the patent to determine
15
   whether or not there appear to be formulation problems;
16
   is that right?
17
            Yes. That's the information that I have
18
   available.
19
        Q. For example, you did not look through
20
   Allergan's laboratory notebooks of their formulation
   efforts on Combigan, did you?
21
22
             I would have no way of having access to that
   information.
23
24
            Well, actually, aren't you, Dr. Laskar,
   approved under the protective order in this case?
25
```

```
1
             I -- I -- when I speak of that, I speak of
2
   that as a formulator outside the realm of this
   particular -- and I did not -- I did not have -- I was
3
   not given access to the notebooks.
             My question, Dr. Laskar, was -- is it your
5
   understanding you're approved under the protective order
6
7
   in this case to see Allergan confidential information?
8
        A .
             Yes.
             And --
9
        Q.
10
             That's my understanding.
        A .
11
             I take it you didn't ask to see the lab
12
  notebooks?
             That would be correct.
13
        Α.
14
             Okay. So it's not like you asked and your
   counsel refused to let you see them?
15
16
        A .
             That's correct.
17
             So your opinion on whether the formulators did
18
   or did not have any formulation issues is based solely
19
   on the patent; is that right?
20
        Α.
             Yes, it is.
21
             Now, if we look at JTX3, which is the '463
22
   patent -- and specifically at the bottom of Column 3 and
   over to the top of Column 4, is the formulation that you
23
24
   referred to.
25
             Do I have that right, Dr. Laskar?
```

```
1
             Yes. I don't recall whether I referred to
2
   this one or to the same table that appears in the '258
3
   patent.
 4
             Okay. So it's -- the same table appears in
 5
   both patents you're opining on; is that right?
             That's correct.
 6
        Α.
 7
           And you refer to this as the starting
8
  formulation, if I heard you correctly.
9
             I -- I said what -- no, I don't think -- I may
  have misstated or perhaps you misheard.
11
             What I said was, as a formulator of a fixed
   combination of Brimonidine and of Timolol, I would start
12
13
  with one of the monotherapies. And my first preference
   would be to start with the monotherapy whose formulation
15 had the fewest number of excipients, and by virtue of
   that assessment, I would have started with the Timolol
16
17
   formulation.
18
        Q. But you're aware, are you not, Dr. Laskar,
19
   that this formulation that's up on the screen wasn't the
20
   starting formulation in this case but the finished
21
   formulation.
22
      A. I don't know whether it's the beginning or the
23
   end. It is the one that appears in the patent.
24
            Well, you were here when Mr. Beck testified,
   were you not?
```

1 Α. I was. 2 And did you hear Mr. Beck testify about the 3 formulator's efforts in using Synergel as a vehicle in Combigan? 4 Α. Yes. 5 6 And you heard how those efforts failed? 7 Α. Yes. 8 Did you hear Mr. Beck testify about using their efforts to use Purite as the preservative in what would become Combigan and how those efforts failed? 10 Yes. 11 Α. 12 Did you hear Mr. Beck testify on how the 13 formulators attempted to use carboxymethylcellulose in the formulation and how those efforts failed? 14 15 Α. Yes. 16 And you heard Mr. Beck testify that the 17 formulators ran multiple tests at different pHs before 18 they came to the pH that would ultimately become the 19 Combigan pH? 20 I don't recall having heard that testimony 21 that they -- that Allergan ran multiple formulations 22 using a composition that would be qualitatively the same 23 as the composition in this table. 24 Further, as a formulator, a fixed 25 combination --

1 I think you answered my question, actually. Q. 2 Okay. Fine. Thank you. 3 0. So, Dr. Laskar, you did see Mr. Beck put up on the screen, lab notebooks that showed tests of various 4 5 formulations at various pHs, did you not? Α. Yes, I did. 6 7 Okay. And you also saw Mr. Beck put up on the screen various tests that showed different amounts of 8 BAK being tested, correct? 9 Yes. 10 A . 11 And you also heard Mr. Beck testify that even 12 after they went through the Synergel formulation, the Purite formulation, the CMC formulation, and decided on 13 14 the aqueous formulation, they found that unique degradants were appearing. 15 16 You heard Mr. Beck testify about that, 17 correct? I did. 18 Α. 19 And that they had to stop moving forward on Q. the project until they could determine whether or not 20 21 those degradants were toxic. 22 I heard -- I heard that they needed to do some

work to evaluate the impact of those degradants, yes, I

Now, you would have only known about all of

23

24

25

did.

0.

```
that listening to Mr. Beck here in the courtroom,
1
   correct?
 2
        A .
             Yes.
 3
             Because you didn't go through the lab
 4
 5
  notebooks prior to rendering your opinion in this case;
6
   is that right?
7
             That's correct. That's correct. Sorry to
        Α.
   step on your words.
             Now, you also mentioned, in relation to the
9
        Q.
10
   '463 patent, that there was nothing in the claims about
   the FDA. Did I hear that correctly?
11
12
        Α.
             Yes.
                  MS. BROOKS: Now, if we could pull up,
13
14
   please, Claim 4 of the '463 patent, which is going to be
   at the top of Column 10.
15
16
             (By Ms. Brooks) Now, this claim doesn't go
   specifically to a composition, does it?
17
18
        Α.
             I'm sorry. Would you repeat your question?
19
        Q.
             Sure. This claim, Claim 4 of the '463 patent,
20
   doesn't go to a composition, does it?
21
             It -- as I read it, it refers to both an
        Α.
22
   article of manufacture and a composition.
23
             And a composition within the packaging
24
   material; is that right?
25
        Α.
             That is contained within the packaging
```

1 material. 2 And you've described the packaging material as 3 being not only the box and the label but what's called the package insert; is that right? Α. Yes. 5 And you are aware, are you not, as a 6 formulator that eventually, before a package insert can 7 get to market, that package insert or label, as we call it, has to be approved by the FDA. 10 MR. RUZICH: Objection, Your Honor. outside the scope of his expert report. He's not an 11 12 expert on FDA approval. THE COURT: Overruled. It's 13 14 cross-examination. Go ahead. 15 (By Ms. Brooks) If you know, Dr. Laskar, since 16 you said you didn't see anything in the claims that 17 would require FDA involvement, do you know whether or not, in fact, a label has to be approved by the FDA? 18 It is my understanding that the text of the 19 20 label is a requirement for FDA approval. 21 And then the '258 patent, I think you said the 22 same thing, that you didn't see anything in the claims that would involve the FDA. But if we can go to JTX4 23 24 and pull up Claim 7, which is at Column 10, that, too, 25 is referring to, at least in part, the package insert or

```
label, correct?
 1
 2
        Α.
             Yes.
             And it is your understanding that at some
 3
        Q.
   point in time, the FDA would need to approve the
 5
   contents of that label, correct?
             What I -- what I said was that they need to
 6
   approve the text of that label. The fact that a label
   and package insert is used is -- is a requirement for
 8
   usual pharmaceuticals, whether it be ophthalmic or
   otherwise. It is merely the words contained therein
10
   that have FDA review.
11
12
                  MS. BROOKS: And now, while we're on the
13
   '258 patent, if we can go to the front page, Mr. Exline.
14
        Q. (By Ms. Brooks) And this has already been
15
   shown, and I know you don't dispute it.
16
                  MS. BROOKS: If we could blow up, please,
   under References Cited.
18
             (By Ms. Brooks) The fifth reference down is
19
   the DeSantis reference upon which you base your
   anticipation opinion, correct?
20
21
        A .
             Yes.
22
        Q.
             And it is also the reference upon which you
23
   base your obviousness opinion combined with what one of
24
   skill in the art would have known; is that right?
25
        A. That's correct.
```

```
And so we know that the Examiner had DeSantis
1
        Q.
   before him at the time that he approved Claims 1 through
   9 of the '278 patent, correct?
3
        Α.
            Yes.
 4
 5
        Q.
             Thank you.
6
             Now, speaking of DeSantis, let's move on to
 7
   that. I won't reinvent the wheel with the questions
   that I asked Dr. Tanna, but just very quickly, would you
   agree that DeSantis discloses 56 beta-blockers?
10
             If that's the number that you've counted, I
11
   agree with it.
12
             Would you agree that DeSantis discloses 18
   alpha-agonists?
13
14
             If you counted it to be that, I accept your
15
   counting.
16
             And then would you agree that DeSantis
17
   incorporates by reference Timmermans?
18
             Yes, absolutely.
        Α.
19
             And would you agree that Timmermans discloses
        Q.
20
   197 alpha-agonists?
21
             That's what they -- a counting does, yes.
22
             And that Timmermans is not discussing the
       · Q .
23
   reduction of intraocular pressure, correct?
24
             It does not.
        A.
25
             What it is disclosing is the use of
        0.
```

```
alpha-agonists for cardiovascular use; is that right?
            Let me read the title again.
2
             And if you would like to look at DTX124,
3
        Q.
  that's Timmermans, specifically at Bates Stamp No. 210.
 5
             Right. As I read the title of -- and it's
  Bates 210, yes -- Roman IV: Structure-Activity
6
 7
   Relationships in Clonidine-Like Imidazolidines and
   Related Compounds.
 8
9
             I don't see that the title refers to
10
  cardiovascular effects.
11
                  MS. BROOKS: Well, if we can blow up, it
   will say -- actually, it's up higher. It should say:
12
   The first part of this charter deals with the
13
   structure-activity relationship --
14
15
        Q. (By Ms. Brooks) Okay. That's what you read.
16
                  MS. BROOKS: Now let's go on to the
17
   intravenous administration. Here we are. DTX124.
18
   right here. Right here. Thank you.
19
        Q. (By Ms. Brooks) Intravenous administration of
20
   Clonidine provokes a biphasic effect on arterial
21
   pressure.
2.2
             So what Timmermans was looking at was arterial
23
  pressure; is that correct?
24
        A. With Clonidine in that quote -- or in that
   piece of text, yes.
```

1 Q. And also intravenous administration, correct? 2 Yes. That's what he was talking about. 3 Would you agree also that DeSantis discloses nine preservatives? 4 5 Yes, that sounds about right. Now, Counsel, on direct examination, said: 6 Well, you're not here to do math, Dr. Laskar, and you 7 admitted that there could be, if you looked at all these various combinations, literally millions of combinations that one could take away from DeSantis in light of 10 Timmermans. 11 12 Depending on how you -- what items you put together, yes. 13 14 But Counsel then asked you -- or you said: 15 But DeSantis discloses only one potential combination, 16 and that's Brimonidine and Timolol. 17 Did I understand you correctly, Dr. Laskar? When considered -- when done under the view of 18 Α. 19 a person of skill in the art reviewing that information, 20 on or about April of 2002, having as part of their 21 knowledge information about Allergan's brand of 22 Brimonidine, known as Alphagan, and knowing information 23 about Timoptic. 24 Well, you understand that for an anticipation

reference, all of the elements of the claims must be

25

```
1
   present in one reference --
 2
             Yes, I do.
        Α.
 3
             -- or a reference incorporated by -- by
   reference, for example, Timmermans, correct?
 5
             Yes.
 6
        0.
             So for your anticipation analysis, you
  understand that one could not look to the Alphagan label
 7
   or the Timolol label. You understand that?
        A. Yes. Perhaps I misunderstood your question,
10
   but I thought I heard the word obviousness within the
   text of that question.
11
        Q. Okay. What I asked you was: Did I hear you
12
13
   correctly that DeSantis discloses only one potential
   combination, Brimonidine and Timolol?
14
15
             It -- it -- it is the combination of an
        A .
16
   alpha-agonist and Timolol that it discloses, yes.
17
             Well, let's see if that's actually accurate
18
   then, if we could, Dr. Laskar.
19
                  MS. BROOKS: If we can go to DeSantis
20
  DTX123 and go to Column 6, Lines 20 through 29.
21
           (By Ms. Brooks) Now, isn't it true,
22
   Dr. Laskar, that what we're looking at here is the only
23
   formulation disclosed in DeSantis?
24
        Α.
          It is.
25
        Q. And the --
```

```
And the leading text says: It is typical of
1
  aqueous ophthalmic solutions of the present invention.
2
3
             And the only formulation disclosed in DeSantis
  is a formulation combining Apraclonidine and Betaxolol;
   is that correct?
             That is the text -- that is the only example
6
       A.
  that it gives of -- wherein a quantitative description
8
   is provided.
        0.
9
             Thank you.
10
             Let's turn now to your opinions regarding the
   amount of BAK as disclosed in the claims.
11
12
                  MS. BROOKS: Mr. Exline, if you could
   pull up Slide 12 of Dr. Laskar's.
13
             (By Ms. Brooks) Now, you showed this to the
14
15
   Court, and even though DeSantis discloses a very wide
   range of BAK, from .001% to 1.0% by weight, that -- I
16
17
   think your words were, a person of skill in the art
   would go immediately to the .01% in Claim 2 for the BAK
18
   in the formulation; is that right?
19
20
             That's what I said.
21
             Now, let's go back and look at Slide 10 that
22
   was used in opening statement.
23
                  MS. BROOKS: And if you could,
  Mr. Exline. No. This is -- oh, I'm sorry. In
24
  Defendants' opening statement. Or I can try to go to
25
```

```
the ELMO, if we can't find it. There we are.
2
             (By Ms. Brooks) Now, this is a chart that you
3
   prepared; is that right?
 4
        Α.
             Yes, it is.
5
             And if I look here, I see that Travatan has a
   BAK of .015; is that right?
6
7
             Yes.
        A .
             And would you agree with me that that is more
8
   than .01?
9
10
        Α.
             Yes.
11
             And do I see that Xalatan has a BAK of .02?
        Q.
12
        Α.
             Yes.
13
        Q.
            And would you agree with me that that is more
14
   than .01?
15
        A .
             Yes.
16
             Lastly, Dr. Laskar, I want --
17
                  MS. BROOKS: Thank you.
18
             (By Ms. Brooks) Lastly, I just want to make
19
   sure I understand your obviousness opinion.
20
             Is it your opinion that because Brimonidine
   was already on the market as Alphagan and Timolol was
21
22
   already on the market as Timoptic, that it would have
23
   been obvious to put the two of them together in one
24
   bottle?
25
             It would be obvious to be motivated to put
```

```
those two drugs together in a single formulation.
 1
 2
             And are you saying that when that is done,
 3
   then those claims are not new or novel or inventive?
             That -- that having -- can you rephrase the
 4
 5
   question?
 6
             Sure. Are you saying that just because
  Alphagan was already on the market as a monotherapy and
   Timolol was already on the market as a monotherapy, the
   fact that the formulators were able to put them together
   in one bottle and the clinicians were able to get FDA
11
   approval for that, that that was still not new or novel
   or nonobvious?
12
13
             The -- the fact that you have monotherapy of
   Alphagan, monotherapy of Timoptic would motivate one to
14
15
   put those -- those two together and that having achieved
16
   that is -- is a matter of routine experimentation and
   not -- and not a matter of -- of supreme creativity or
   extraordinary creativity as a part -- the creativity
18
19
   required is no more than that which would be required of
20
   a person of ordinary skill in the art --
21
           So, Dr. Laskar, I take --
        0.
22
       Α.
            -- in putting that formulation together, is
23
   my --
24
             I take it, sir, that you would not claim that
25
   something was new and novel and non-obvious if you
```

```
didn't think that it was; would that be fair?
 2
             I think -- I think that's fair, yes.
             You certainly wouldn't sign a declaration of
 3
   inventorship that something was new and novel and
   non-obvious if you didn't believe that it was new and
 5
   novel and non-obvious; is that fair?
 6
 7
             Yeah, that is fair.
        Α.
 8
             So let me ask you this, Dr. Laskar: Have you
9
   ever heard of an acne treatment that is made up of
   Benzoyl Peroxide?
10
11
        Α.
             Yes.
12
        Q.
             Have you ever heard of an acne treatment that
13
   is made up of Clindamycin?
14
        Α.
             In a combination, yes.
15
             Well, I'm not getting to combination yet.
        Q.
16
             As individual agents, yes, absolutely. I
17
   thought I heard the word and in there.
18
             So you've heard way back when -- let's see --
   all the way back in 1992, you're familiar -- you were
19
20
   familiar with the fact that Benzyl Peroxide was being
21
   used as a monotherapy for the treatment of acne,
22
   correct?
23
             That is correct.
24
             And you knew, way back in 1992, that
25
  Clindamycin was being used as a monotherapy for the
```

```
1
   treatment of acne; is that correct?
 2
             That is correct.
             Yet you and your fellow inventor, Dr.
3
   Nadkarni, filed a patent where you claimed: A method of
 4
5
   treating acne vulgaris in human patients comprising
   topically administering to said patients a composition
6
7
   comprising a therapeutically effective amount of Benzyl
   Peroxide and Clindamycin; is that correct?
             Yes, it is.
9
        Α.
10
        0.
             And you believed at the time that your ability
   to combine those two monotherapies was new and novel and
11
12
   patentable, correct?
             Yes, I -- I did and I do, inasmuch as there
13
14
   were some formulation hurdles in order to stabilize the
   Clindamycin in the presence of the Benzyl Peroxide.
15
16
             But you don't discuss those formulation
   hurdles in your patent application, do you, sir?
17
18
        Α.
             No, I did not. I guess that's the way
19
   Allergan chooses to write their patents.
20
        0.
             Thank you very much.
21
                  MS. BROOKS: No further questions, Your
22
  Honor.
23
                  THE COURT: Mr. Ruzich?
24
                     REDIRECT EXAMINATION
25
   BY MR. RUZICH:
```

```
1
        0.
             Dr. Laskar, do ophthalmic drugs in Europe
2
   contain labels?
        A.
             Yes. There is -- there is a patient leaflet.
3
   My recollection of the information that's provided in
   European products is slightly different than the
5
  information contained in the U.S. one, but it is -- it
6
   contains information about the composition and the
   manner of use of the product.
             Okay. So the labeling requirement, if there
9
        Q.
10
   is one, would not be limited to the United States,
11
   correct?
12
        A. Absolutely not.
             Okay. And then based on your experience, is
13
   it at all unusual to try parallel formulations along
14
   with simpler formulations?
15
16
             Depends on the intent, but yes. It is
17
   routine, in my opinion, to take several formulations
   forward. Hopefully, if you have manpower enough in
18
19
   parallel in order -- because it is routine and normal
   for things to drop away for one reason or another.
21
             And, in fact, through many scars, I've learned
22 to always have a back-pocket formulation even as late as
23
   Phase 3.
24
             I wasn't able to review the patent that
25 Ms. Brooks had up in front of here. Did you secure a
```

```
1
  patent for that product?
 2
             I believe it still remains a patent
 3
   application. You'd have to ask the Allergan legal
 4
   department concerning its status, because I am unaware
 5
   of it. And, in fact, I thought it had never been
 6
   pursued and was only informed at a previous deposition
   that Allergan appears to be prosecuting it.
 7
 8
             Have you ever testified in court before as an
9
   expert?
10
        A .
          No, I have not.
11
                  MR. RUZICH: Nothing further, Your Honor.
12
                  MS. BROOKS: Nothing further. Thank you,
13
  Your Honor.
14
                  THE COURT: Wait just a minute.
15
                  THE WITNESS: Okay.
16
                  THE COURT: You used a term I don't know
17
   how many times. I ran out of counting. You said that
   in April of 2002, that one of ordinary skill in the art
18
19
  would immediately envision. You kept using that term.
20
                  What did you mean by that exactly?
21
                  THE WITNESS: It means -- and I think
   it's a parallel term or an analogous --
23
                  THE COURT: I want to know what you meant
   when you kept using the term immediately --
24
25
                  THE WITNESS: That the information --
```

```
that the information -- if -- if somebody referred
 2
   Alphagan to me, it would, to me, cause me to think
  Brimonidine .2%, that's a citrate buffer, the polyvinyl
 3
   alcohol for corneal residence and Benzalkonium Chloride
 5
   as a preservative. That's what -- those are pieces that
   would come popping up immediately.
 6
 7
                  THE COURT: Okay. Thank you.
                  THE WITNESS: You're welcome.
 8
 9
                  THE COURT: You may step down.
10
                  MR. RUZICH: Your Honor, just to clarify,
11
   we're holding Dr. Laskar for potential rebuttal.
                  THE COURT: Okay. Who's your next
12
13
   witness?
14
                  MR. DAVIS: Your Honor, at this time, the
15 Defense rests.
                  THE COURT: Okay. How much more you got,
16
17
   Ms. -- how long you need tomorrow? I'm talking to
18
   Ms. Brooks now. He just rested.
19
                  MS. BROOKS: Yes, Your Honor.
20
                  THE COURT: The ball is in your court.
21
                  MS. BROOKS: Thank you.
22
                  We will be making a judgment as a matter
23
   of law, Your Honor, on the Defendants' defenses of
24
   anticipation and obviousness as to all asserted claims.
25
                  They have not met their burden by clear
```

```
and convincing evidence on any of the claims.
 2
                  With that, Your Honor, we would move --
3
  unless Your Honor grants the judgment, we would move
  into our rebuttal case, and we have two witnesses we
  will be calling, I believe.
                  And so I would think we would be about --
 6
  I don't want to underestimate -- a couple of hours, Your
   Honor, at most.
9
                  THE COURT: All right. We'll recess
10
   until the morning.
11
                  Your motions are denied.
12
                  COURT SECURITY OFFICER: All rise.
13
                  THE COURT: 8:30.
14
                  (Court adjourned.)
                  ******
15
16
17
18
19
20
21
22
23
24
25
```

```
1
 2
 3
 4
                          CERTIFICATION
 5
 6
                 I HEREBY CERTIFY that the foregoing is a
 7
   true and correct transcript from the stenographic notes
 8
   of the proceedings in the above-entitled matter to the
   best of my ability.
10
11
12
13
   /s/_
   SUSAN SIMMONS, CSR
                                          Date
  Official Court Reporter
14
   State of Texas No.: 267
15 Expiration Date: 12/31/12
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