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IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
MARSHALL DIVISION

ALLERGAN, INC. \* Civil Docket No.  
\* 2:09-CV-97  
VS. \* Marshall, Texas  
\*  
\* August 3, 2011  
SANDOZ, INC. \* 1:15 P.M.

TRANSCRIPT OF BENCH TRIAL  
BEFORE THE HONORABLE JUDGE T. JOHN WARD  
UNITED STATES DISTRICT JUDGE

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11 \*\*\*\*\*

12 P R O C E E D I N G S

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

21 BY MS. BROOKS:

22 Q. Good afternoon, Dr. Tanna.

23 A. Good after, Ms. Brooks.

24 Q. Right before the lunch break, I was

25 frantically looking for a copy of Walters. We now have

1 one before you in your binder. And it's DTX138.

2 Oh, I'm sorry. That's the abstract actually, which you  
3 did look at. Now, let's look at DTX137. And that is  
4 the Walters paper.

5 So you say, Dr. Tanna, you had not had a  
6 chance to look at this before rendering your opinion; is  
7 that right?

8 A. No, that's not true. Now that I see it, I do  
9 recognize it. I have looked at this reference.

10 Q. So you did consider it in rendering your  
11 opinion?

12 A. I did consider it, yes.

13 Q. All right. Then let's look, if we could,  
14 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  
18 means -- mean decreases in IOP.

19 A. 346?

20 Q. (By Ms. Brooks) Yeah, 346. It should be the  
21 bottom right-hand corner, the Bates No. 000346.

22 Do you have that?

23 A. Yes, I do.

24 Q. Okay. And it's also up on the screen.

25 So let's see what Walters also disclosed about



1 this study. It says: Similar mean decreases in IOP  
2 were noted for both dosing regimens at hours 2, 4, and 7  
3 in the diurnal measurements.

4 In the three-times-daily group, an additional  
5 mean decrease in IOP of 3.5 millimeters of mercury was  
6 observed at hour 9, after the morning dosing, or two  
7 hours following the afternoon dosing.

8 Do you see that, Dr. Tanna?

9 A. Yes, I do.

10 Q. 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  
13 after morning dosing on the three-times-a-day  
14 Brimonidine?

15 A. 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  
18 expert opinion, and I used a different reference as the  
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,

1 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.

4 Are we clear?

5 THE WITNESS: Yes, Your Honor.

6 THE COURT: Thank you.

7 Q. (By Ms. Brooks) And let's just see if we can  
8 find the graph that correlates to this data in PTX134,  
9 which you don't have before you, Dr. Tanna, because it's  
10 too large, but has previously been discussed with  
11 Ms. Batoosingh.

12 MS. BROOKS: If we can go to PTX134 and  
13 specifically at Bates No. 676465, Mr. Exline.

14 Q. (By Ms. Brooks) And do you see this graph, Dr.  
15 Tanna?

16 A. Yes, I do.

17 Q. Could you show the Court where that  
18 3.5-millimeters of mercury difference occurs between the  
19 twice-a-day dosing of Alphagan and the three-times-a-day  
20 dosing of Alphagan?

21 A. It's not doing --

22 Q. Here, I'll try to help you.

23 A. I have a pointer. May I use a laser pointer?

24 Q. Sure. Or did I get it close right there?

25 A. Well, that's it, yes.

1 Q. Okay. And so, again, you agree that -- one of  
2 skill in the art would know, based on this data, that  
3 there was an actual statistically significant decrease  
4 in the reduction of intraocular pressure at  
5 approximately hour 9 between the three-times-a-day  
6 dosing of Alphagan and the twice-a-day dosing?

7 A. Yes, in this study.

8 Q. Now, let's move to your discussion of how the  
9 amount of BAK that was claimed would have been obvious.  
10 You said the BAK was the most common preservative; is  
11 that correct?

12 A. Most commonly used in ophthalmic formulations,  
13 yes.

14 Q. And, in fact, we saw --

15 MS. BROOKS: Mr. Exline, could you pull  
16 up Defendants' Slide 10 that they used in opening  
17 statement? And if not, I can always put it on the ELMO.

18 There we are.

19 Q. (By Ms. Brooks) So this was shown to the Court  
20 by the Defendants in opening statement showing all the  
21 different drug products that contain BAK.

22 Do you agree with that, Dr. Tanna?

23 A. I do.

24 Q. 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  
2 ophthalmic products?

3 A. That looks right.

4 Q. Thank you.

5 Let's move on now to your discussion of other  
6 combination drugs. You told us about a drug called  
7 Timpilo; is that right?

8 A. I did, yes.

9 Q. And you told us about a drug called Cosopt.  
10 Of course, we know about that, right?

11 A. Yes.

12 Q. And also a drug called Xalacom; is that right?

13 A. 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  
18 Timpilo, is it?

19 A. I don't know that -- I can't tell from that  
20 picture. I don't know.

21 Q. Isn't it, in fact, just a picture of the  
22 bottle of Pilocarpine?

23 A. I don't think so, because it typically would  
24 have a green cap. So I can't tell from this picture. I  
25 am not sure what that's a picture of.



1 Q. Okay. Now, Timpilo has never been approved  
2 for use in the United States, correct?

3 A. I was under the impression that it was in use  
4 in the United States. That's my impression. I could be  
5 mistaken about it, but my understanding is that it was  
6 in use in the United States.

7 Q. Okay. What about Xalacom; has Xalacom ever  
8 been approved for use in the United States?

9 A. No, it has not.

10 Q. Now, while we're talking about Xalacom --

11 MS. BROOKS: Let's just leave that up  
12 there, if we could, Mr. Exline.

13 Q. (By Ms. Brooks) We're going to revisit some  
14 organic chemistry.

15 Xalacom is the active ingredient in  
16 Latanoprost; is that right?

17 A. That's correct.

18 Q. And Latanoprost is what's known as a  
19 prostaglandin analog; is that correct?

20 A. That is correct.

21 Q. Are the prostaglandin analogs normally your  
22 first choice of medication for a new glaucoma patient?

23 A. For me today, yes.

24 Q. And, in fact, the Latanoprost is sold here in  
25 the United States as Xalatan; is that right?

1 A. That's correct.

2 Q. But the combination of Xalatan and Timolol,  
3 also known as Xalacom, has never been approved for use  
4 in the United States; is that correct?

5 A. That is correct.

6 Q. And you yourself have never prescribed the use  
7 for Xalacom, correct?

8 A. I have never prescribed Xalacom. That's  
9 correct.

10 Q. Now, in that same category of prostaglandin  
11 analogs, would you put Travoprost?

12 A. It is in the same category.

13 Q. And that's also known as Travatan; is that  
14 correct?

15 A. That's correct.

16 Q. There is no combination drug of Travatan and  
17 Timolol approved for us in the United States; is that  
18 correct?

19 A. That is correct.

20 Q. 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 A. Yes, I am.

25 Q. And Bimatoprost is sold here in the United

1 States by Allergan under the name Lumigan.

2 Are you familiar with that?

3 A. Yes, I am.

4 Q. There are no -- I think you mentioned that  
5 Ganfort, which was a combination of Bimatoprost/Timolol  
6 drug; is that right?

7 A. Correct.

8 Q. But Ganfort is not approved for use here in  
9 the United States; is that correct?

10 A. No, it's not.

11 Q. And just to show how subtle differences make a  
12 very big difference, Bimatoprost and Latanoprost, would  
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  
16 mechanism of action. I think it's a matter of  
17 controversy.

18 Q. Well, in fact, Latanoprost is what's known as  
19 17-phenyl-PGF2-alpha, correct?

20 A. I know there's a PGF2-alpha-agonist.

21 Q. Okay. And at the C1 position on the alpha  
22 chain is an ester; is that right?

23 A. That I don't know offhand.

24 Q. 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 A. I believe that I can picture that and agree  
3 with you on that, but I would have to look at the  
4 structure to be sure. It's a complex -- it's a big  
5 molecule, and I don't know offhand for sure.

6 Q. Would you agree with me that an ester is  
7 different than an amide?

8 A. It certainly is.

9 Q. And can, in fact, behave differently in situ?

10 A. Yes, it can.

11 Q. Now, let's go to -- back to the Timpilo. You  
12 should have in your binder, Dr. Tanna, the label for  
13 Timpilo, I hope. And I don't know if we numbered it  
14 since it wasn't actually previously in use, but if you  
15 go through your binder, you should see a label for  
16 Timpilo.

17 A. Can you tell me approximately where?

18 Q. Oh, it's not in your binder. Sorry.

19 MS. BROOKS: May I approach, Your Honor?

20 THE COURT: Yes.

21 Q. (By Ms. Brooks) Now, Dr. Tanna, you've  
22 referred to Timpilo as a combination drug; is that  
23 right?

24 A. It is a combination drug, yes.

25 Q. Well, if we actually --



1 MS. BROOKS: If we can go to the ELMO,  
2 Mr. Exline.

3 Q. (By Ms. Brooks) And here's the label for  
4 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.  
9 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 Q. (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 A. Yes.

20 Q. And one of the chambers contains a  
21 concentrated solution of Timolol and Pilocarpine at a pH  
22 of approximately 3.5; is that right?

23 A. Correct. Correct.

24 Q. 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  
2 the pH of the eye in general, yes.

3 Q. And the need for this low pH is to prevent the  
4 hydrolysis of Pilocarpine prior to dispensing; is that  
5 correct?

6 A. Yes.

7 Q. So you would agree with me, Dr. Tanna, that a  
8 pH can have a significant effect on an active  
9 ingredient?

10 A. Yes, it can.

11 Q. And it says the other chamber contains -- can  
12 you pronounce that word for me, so I make sure I say it  
13 right?

14 A. It's diluent.

15 Q. 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 A. Yes, you did.

19 Q. And the two solutions are separated by an  
20 internal plug?

21 A. Yes.

22 Q. So this isn't the convenience of having two  
23 active ingredients in one bottle, correct?

24 A. It is a little more complicated than that.  
25 You have to mix them together effectively by using the

1 system.

2 Q. And for whatever formulation reason, the  
3 formulators were not able to simply put the Timolol and  
4 the Pilocarpine into one bottle for shelf life?

5 A. Correct.

6 Q. And had to go to this two-chambered system  
7 with two different pHs and a plug in the middle; is that  
8 right?

9 A. That's right.

10 Q. 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 A. It's pronounced Dipivefrin (pronounces).

15 Q. Dipivefrin (pronounces). Thank you.

16 MS. BROOKS: Should I push something to  
17 go?

18 MR. LOVE: It's there.

19 MS. BROOKS: There we go. I think we're  
20 back.

21 Q. (By Ms. Brooks) And that's called Probeta; is  
22 that right?

23 A. That's correct. That's available in Canada.

24 Q. So that's never been approved for use here in  
25 the United States, correct?

1 A. That's correct.

2 Q. And you yourself have never prescribed it?

3 A. Correct.

4 Q. Then we have the Xalacom, which we've already  
5 talked about, the Ganfort which we've already talked  
6 about, and then something where it's Travoprost/Timolol  
7 combination; is that right?

8 A. DuoTrav, yes.

9 Q. DuoTrav. That also has never been approved  
10 for use in the United States, correct?

11 A. That's correct.

12 Q. And you yourself have never prescribed it?

13 A. That's correct.

14 Q. Now, I take it you weren't part of -- well,  
15 have you ever been part of an FDA approval process for a  
16 combination drug?

17 A. Well, we were one of the clinical trial  
18 centers for DuoTrav for one of the Phase 3 studies in  
19 the U.S.

20 Q. So there were Phase 3 clinical trials  
21 conducted on DuoTrav here in the United States, correct?

22 A. That's correct.

23 Q. And I assume that you, as one of the centers,  
24 attempted to perform those studies accurately, correct?

25 A. Yes, we did.



1 Q. And attempted to gather the best data that you  
2 could?

3 A. Correct.

4 Q. And despite your efforts and all the other  
5 centers' efforts, to this day, the FDA has refused to  
6 approve DuoTrav for use in the United States?

7 A. That's correct. They're stuck in the  
8 approvable letter stage.

9 Q. And that's been going on for years, has it  
10 not?

11 A. Correct.

12 Q. Just a couple more areas to cover, Dr. Tanna.  
13 You showed us DTX167 on direct examination. That was  
14 the Larsson reference, and you said that this showed  
15 that the patients -- well, actually, why don't you tell  
16 us your recollection of what this study showed.

17 A. Well, this looked at normal subjects, not  
18 normal volunteers, and they were dosed with Timolol  
19 concomitantly with Brimonidine, each on a sort of BID  
20 schedule, but only a total of three doses were given.  
21 And then the investigators evaluated the rate of  
22 production of aqueous humor in the eyes as well as the  
23 intraocular pressure. And what they observed was that  
24 the intraocular pressure was lowest in the group of  
25 people getting both Timolol and Brimonidine, and the

1 aqueous production flow rate was also lowest in that  
2 group. And the pressures were higher in the other two  
3 groups, people getting just Timolol or just Brimonidine.

4 Q. So this would lead one to believe that there  
5 may be some benefit to concomitant therapy with Timolol  
6 and Brimonidine, correct?

7 A. It sort of validates and explains that when  
8 you use the two together, you get a lower pressure and  
9 you get an additive reduction in the production of  
10 aqueous humor.

11 Q. But this doesn't tell anyone of skill in the  
12 art whether one would be able to successfully combine  
13 these two drugs in the same bottle, correct?

14 A. That is correct.

15 Q. And the individuals who were tested in this  
16 reference were actually healthy volunteers and not  
17 actually individuals suffering from glaucoma; is that  
18 right?

19 A. That is correct.

20 Q. And there were only a total of three doses  
21 given?

22 A. That is correct.

23 Q. And Larsson itself, this reference, is  
24 actually disclosed on the face of all of the patents in  
25 this case; is that right?

1 A. That is correct.

2 Q. Now, let's move on. You showed and discussed  
3 with the Court the 19T study and the 0 -- 507T study.

4 Do you remember that?

5 A. I do.

6 Q. Now, neither the 19T study nor the 507T study  
7 are prior art to the patents-at-issue; is that correct?

8 A. That is correct.

9 Q. Now, let's go, if we could, to your written  
10 description opinion.

11 You stated in your opinion that Claims 1, 2,  
12 and 3 of the '149 patent were invalid based on lack of  
13 written description; is that right?

14 A. That's correct.

15 Q. You did not render that opinion in relation to  
16 Claim 4, correct?

17 A. That is correct.

18 Q. 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  
23 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%  
2 Brimonidine three times a day to said eye, wherein the  
3 two compounds are administered in separate compositions.

4 Did I get the claim correct, I hope?

5 A. Yes.

6 Q. All right. Now, let's look at where the  
7 effectiveness of administration is discussed in the  
8 patent itself.

9 If you would go, please, sir, to Column 4 and  
10 begin with Example 2. Do you see that?

11 A. 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.

14 So this is saying here, this is a study that  
15 it's describing, correct?

16 A. In Example 2, yes.

17 Q. Yes.

18 A. Uh-huh.

19 Q. And did you have an opportunity, Dr. Tanna, to  
20 compare the description of this study to the 13T study  
21 that was submitted by Allergan to the FDA?

22 A. I did.

23 Q. Now, were you here when Dr. Whitcup testified?

24 A. I was.

25 Q. Did you hear Dr. Whitcup say that what the FDA



1 requires for initial clinical trials of a combination  
2 product is that the combination product be compared to  
3 each of the monotherapies?

4 A. Yes, I heard him say that.

5 Q. And you have no reason to disagree with that;  
6 is that right?

7 A. I don't disagree.

8 Q. So what the FDA wanted to see was the efficacy  
9 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  
13 Combigan as compared to twice-a-day Timolol monotherapy,  
14 correct?

15 A. That was part of what the FDA wanted to see,  
16 yes.

17 Q. And if we go on Example 2, which begins at  
18 Column 4, Line 49, it goes all the way through to the  
19 bottom of Column 4, all the way through to the Column 5,  
20 and all the through to Column 6, 7, 8, and essentially  
21 ends at Column 9 where it ends with Example 2; is that  
22 right, Dr. Tanna?

23 A. That's correct.

24 Q. And what the conclusion as reported of the 13T  
25 study in the patent says: Conclusions -- and I'll stick

1 with the right specification so we have the numbers  
2 right.

3 Conclusion starts at the bottom of Column 8  
4 and runs over into Column 9. Here we go.

5 Conclusions: The combination treatment,  
6 Brimonidine Tartrate .2% with Timolol .5% administered  
7 twice a day for three months was superior to Timolol  
8 twice a day and Brimonidine three times a day in  
9 lowering the elevated IOP with patients with glaucoma or  
10 ocular hypertension; is that right?

11 A. That's what it says.

12 Q. And it says the combination administered twice  
13 a day demonstrated a favorable safety profile that was  
14 comparable to Timolol twice a day and better than  
15 Brimonidine three times a day with regard to the  
16 incidence of adverse events and discontinuations due to  
17 adverse events; is that right?

18 A. Yes.

19 Q. So all of this is in the specification of the  
20 '149 patent, correct?

21 A. That's correct.

22 Q. Both the methodology of how the test was run,  
23 correct?

24 A. That's correct.

25 Q. The fact that there were three groups in the

1 test, correct?

2 A. Correct.

3 Q. The dosing regimen for each of the groups,  
4 correct?

5 A. Correct.

6 Q. And, in fact, Dr. Whitcup told us that in  
7 order for the Timolol-only group not to know that they  
8 weren't getting Brimonidine, they were given a third  
9 drop as a placebo?

10 A. And the same is true for the fixed combination  
11 group.

12 Q. 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  
16 that right?

17 A. Right. That's very standard.

18 Q. And this is all detailed in the patent,  
19 correct?

20 A. Correct.

21 Q. Then if we look specifically at Table -- the  
22 table that is at the bottom of Column 3, Mr. Beck told  
23 us that this is the actual formulation that was the  
24 final formulation for Combigan.

25 Are you aware of that, Dr. Tanna?

1           A.     That he testified to that effect, I was not  
2 aware of that, but I accept that to be true.

3           Q.     Okay. So in the patent, one of skill in the  
4 art would know how to make Combigan, correct?

5           A.     Correct.

6           Q.     And one of skill in the art would know how to  
7 conduct a study to determine whether or not Combigan was  
8 as effective as Brimonidine three-times-a-day  
9 monotherapy and as effective as Timolol twice-a-day  
10 monotherapy, correct?

11          A.     That one wouldn't know how to conduct such a  
12 study?

13          Q.     Yes. It's all laid out in the patent itself.

14          A.     I'm not sure it really tells you how to  
15 conduct a study in the future. I don't -- I don't see  
16 that in the patent.

17          Q.     Is the methodology of the study laid out in  
18 the patent?

19          A.     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          Q.     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



1 compared to Brimonidine three-times-a-day monotherapy  
2 and was compared to Timolol twice-a-day monotherapy,  
3 correct?

4 A. That's correct.

5 Q. And that study is laid out in the patent,  
6 correct?

7 A. Yes, it is. Yes.

8 Q. And the results of that study are laid out in  
9 the patent, correct?

10 A. Yes.

11 Q. And the formulation for the combination  
12 product is out -- also spelled out in the patent,  
13 correct?

14 A. That's correct.

15 Q. Thank you.

16 Now, I have just one more area of questioning,  
17 and it sort of goes to your overall obviousness opinion.

18 My understanding, if I heard you correctly,  
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 A. 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 Q. Now, let's look at the Brimonidine label  
3 itself. It's DTX129 that you showed the Court.

4 MS. BROOKS: And if we go to the second  
5 page of that reference and blow up, Mr. Exline. It's  
6 very hard to see, but if we can blow up the top part  
7 here.

8 Oops, I don't know what happened. If you  
9 can -- the second column, if we can blow up about -- a  
10 little lower than that, please, about -- blow up the top  
11 part but all the way to where there's a break.

12 There we go.

13 Q. (By Ms. Brooks) If we look right down here,  
14 Dr. Tanna, right before it says at the very bottom  
15 tricyclic antidepressants.

16 Do you see that?

17 A. I do it. It specifically says to use it with  
18 caution and take with beta-blockers.

19 Q. Timolol is a beta-blocker?

20 A. That's correct.

21 Q. And the actual label for Brimonidine tells one  
22 of skill in the art to combine Brimonidine with caution  
23 with a beta-blocker, correct?

24 A. That's correct.

25 Q. And certainly one of skill in the art would

1 have read the label?

2 A. That's correct.

3 Q. 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.

9 A. Good afternoon.

10 MR. BENSON: If I could have the Timpilo  
11 reference that Counsel was showing you on the screen, if  
12 that's possible.

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 Q. (By Mr. Benson) Do you have a copy of that in  
19 front of you?

20 A. You're referring to the Timpilo product label?

21 Q. That's right.

22 A. I have it.

23 Q. 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           A.     Well, I would say that they weren't formulated  
2 in the same bottle. I don't know for sure that they  
3 cannot be formulated in the same bottle, but they were  
4 not.

5           Q.     Well, let's look at the front of this -- of  
6 this label, and Counsel showed you the first -- the  
7 first paragraph right under presentation.

8                     Do you see that?

9           A.     I do.

10          Q.     And that was the paragraph you testified  
11 about?

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  
17 you the next paragraph, correct?

18          A.     Correct.

19          Q.     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  
23 administration has a pH of 6.4 to 6.8.

24          Q.     Does that indicate the Timpilo formulation is  
25 formulated into the same bottle?



1           A.    I'm not sure what you mean by formulated into  
2 the same bottle.

3           Q.    Okay.

4           A.    Well, it is one bottle that has two separate  
5 chambers in it, so I guess you would call that one  
6 bottle.

7           Q.    Let's go to -- do you see where it says --  
8 well, it says here prior to the use of Timpilo, the two  
9 solutions are mixed together.

10                    Do you see that?

11           A.    Yes, I do.

12           Q.    So you'll agree with me that the two separate  
13 solutions are being mixed together, correct?

14           A.    Correct.

15           Q.    If you could go to Page 8 of 10, and do you  
16 see where it says pharmaceutical precautions?

17           A.    Yes, I do.

18           Q.    And it says here -- and I'll read this into  
19 the record -- store at room temperature; do not freeze;  
20 protect from light; Timpilo is stable for four weeks  
21 after mixing.

22                    Did I read that correctly?

23           A.    Yes, you did.

24           Q.    What, if anything, does that suggest to you as  
25 to whether or not these two drugs are being formulated

1 into the same bottle?

2 A. I think they are formulated into a special  
3 bottle that has two separate chambers and then you kind  
4 of bring them together right before you're about to  
5 start using it. And then they're stable for four weeks.  
6 That's how I read it and hear it.

7 Q. So for four weeks the two drugs are mixed  
8 together, correct?

9 A. Correct.

10 Q. Now, in any -- in Claim 1 through 4 -- Claims  
11 1 through 4 of the '149 patent and Claim 1 of the '976  
12 patent, did you see any limitation relating to the shelf  
13 life stability of the formulation?

14 A. No, I did not.

15 MR. BENSON: I have no further questions,  
16 Your Honor.

17 MS. BROOKS: No questions. Thank you,  
18 Your Honor.

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.

24 THE WITNESS: Shall I remove these items?

25 THE COURT: No. Somebody else will take

1 care of that.

2 Next witness.

3 MR. RUZICH: Defendants call Dr. Laskar.

4 THE COURT: Okay.

5 (Witness sworn.)

6 MR. RUZICH: Good afternoon, I'm Rich  
7 Ruzich, and I'll be handling for all Defendants,  
8 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.

13 PAUL LASKAR, Ph.D., DEFENDANTS' WITNESS, SWORN

14 DIRECT EXAMINATION

15 BY MR. RUZICH:

16 Q. Good afternoon, Dr. Laskar. Would you please  
17 introduce yourself to the Court.

18 A. My name is Paul Andrew Laskar.

19 Q. And are you currently employed?

20 A. Yes, I am.

21 Q. By whom?

22 A. I am self-employed. I have a consulting  
23 organization called Paul Laskar Associates.

24 Q. And what does your company do?

25 A. My company provides consulting services to my

1 clients in the area of chemistry manufacturing and  
2 controls with a focus on ophthalmic formulation as well  
3 as respiratory, dermatological, and nasal formulation.  
4 There's analytical chemistry issues around that,  
5 stability assessment, and preparation of regulatory  
6 documents and regulatory reports in -- in support of my  
7 clients.

8 Q. Okay. Now, Dr. Laskar, you have a binder in  
9 front of you that we're going to refer to throughout  
10 your testimony here today. And I'd ask you to please  
11 turn to DTX107 in your binder, which I believe is a copy  
12 of your CV.

13 And let me know when you have that document in  
14 front of you.

15 A. It seems to be missing a few pages. Oh, the  
16 pages are in an order in which I'm not familiar.

17 That's okay.

18 Q. Well, I want to keep you on your toes, right?

19 A. After lunch, I think that's a good idea.

20 Q. Okay. We'll take a few moments to review that  
21 document. Is that document up-to-date?

22 A. Yes, it is substantially up-to-date.

23 Q. Okay. So what I want to first do is talk  
24 about your education, and then we'll get into your  
25 experience.



1           So why don't we first start with your first  
2 degree you earned from the University of Rochester.

3           A.    Yes.  I attended the University of Rochester  
4 and earned a BA degree in 1965 in general science with a  
5 focus in chemistry and biology.  Subsequent to that, I  
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.

9           After which, I attended the Oregon State  
10 University and earned a Ph.D. degree in pharmaceutical  
11 science in 1974.

12           Some years prior to that, after obtaining my  
13 bachelor of science degree in pharmacy, I took the  
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  
17 from the University of California-Irvine in 1988.

18           Q.    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

1 Pharmacy at the University of Illinois in 1973 and  
2 remained there until 1980, during which time I developed  
3 educational materials for pharmacy education as well as  
4 teaching in basic pharmaceuticals, various aspects of  
5 pharmaceutical -- pharmaceutical technology, and  
6 pharmacokinetics.

7           In 1988 -- excuse me -- 1980, I joined the  
8 faculty of the School of Pharmacy at Creighton  
9 University and taught substantially the same course  
10 materials until 1982.

11           Q.    And then after that?

12           A.    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,  
18 which they market as Betagan, as well as the combination  
19 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  
22 combination of two antimicrobial agents, a cephalosporin  
23 that was combined with a Polymixin B Sulphate, which had  
24 some significant formulation challenges inasmuch as the  
25 two active ingredients were incompatible.

1           We managed to formulate that into a successful  
2 product that required lyophilization and reconstitution  
3 prior to use.

4           In 1986, I transferred into the product  
5 development area of Allergan's Dermatological Division  
6 and spent the rest of my career at Allergan in the  
7 Dermatology Division.

8           Q.    Just so I'm clear, when you say Allergan, are  
9 you referring to the Plaintiffs in this case?

10          A.    That is correct.

11          Q.    Thank you.

12                Please continue.

13          A.    In 1988, in the fall of 1988, I joined a  
14 startup company called Procyte in the Seattle  
15 metropolitan area who had a new chemical entity with a  
16 dermatology focus.

17                In the middle of 1989, I actually rejoined  
18 Allergan in the dermatology area with the same position,  
19 manager of product development, that I left some 10  
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



1 Pharmaceutical Sciences, and they had two new chemical  
2 entities. One an oral product and the other intended  
3 for injection as a sterile product, and developed  
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  
8 Director of Pharmaceutical Development, and was with  
9 Santen for about nine years beginning as Director and  
10 then promoted to Vice President of Pharmaceutical  
11 Development, and was involved in their ophthalmic  
12 portfolio that included three successful NDAs during  
13 that period of time, as well as a number of INDs.

14 One of the projects I worked on was a  
15 beta-blocker that Santen was interested in that was  
16 ultimately not pursued for the U.S. market, but is, I  
17 believe, currently marketed in Japan and some other  
18 markets.

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  
23 Timolol. They preferred not to use the reconstitutable  
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  
3 that is a combination of a corticosteroid and an  
4 antimicrobial, which entered clinical investigation by  
5 way of IND in the United States and, I believe, also  
6 in -- outside the United States. It is -- I don't know  
7 what its current development status is. It was still in  
8 development at the point I left Santen.

9 Q. Okay.

10 A. Also was involved in Santen's Prostonoid and  
11 its formulation and early development. That formulation  
12 was not pursued for clinical development in the United  
13 States due to the crowded marketplace that's been  
14 alluded to previously, but is approved and marketed in  
15 Europe, Japan, and other markets outside the United  
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  
25 well as nasal products.

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

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

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

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

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

1 used in the amelioration of dry eye, and revisited the  
2 combination of Dorzolamide and Timolol again on behalf  
3 of a client as -- which is, as I mentioned, the generic  
4 version of Cosopt.

5 Q. So if my math is correct, you've been  
6 formulating drugs for just over 30 years or thereabouts?

7 A. I don't like to think about the age, but it's  
8 probably pretty close to that.

9 Q. Okay. Let's just focus on the products that  
10 you've been involved with as a drug formulator.

11 You mentioned sterile products --

12 A. Yes.

13 Q. -- a moment ago. How many sterile products  
14 have you developed?

15 A. In excess of 30.

16 Q. Okay. And is your experience in sterile  
17 products relevant to the development of ophthalmic  
18 products?

19 A. 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  
24 requirements and special considerations.

25 Q. With regards to ophthalmic drugs, how many of

1 those have you developed?

2 A. Approximately 20.

3 Q. And how many combination products have you  
4 developed?

5 A. I've -- I've been involved in the development  
6 of -- excuse me -- seven sterile combinations and a few  
7 non-sterile combination.

8 Q. And I believe you touched on a few of those  
9 while you were explaining your practical experience as a  
10 formulator.

11 A. I was -- I did. Excuse me.

12 Q. Dr. Laskar, I noticed that you published about  
13 eight times; is that right?

14 A. Yes.

15 Q. And do people who work in the industry tend to  
16 publish as much as academics?

17 A. Not in literature that's publicly available.

18 Q. Does that diminish at all your ability to  
19 formulate a drug?

20 A. I do not believe so.

21 MR. RUZICH: Defendants offer Dr. Paul  
22 Laskar as an expert in the fields of pharmacy,  
23 pharmaceutical drug formulation, and ophthalmic drug  
24 formulation, Your Honor.

25 THE COURT: Permit him to testify within



1 the confines of his opinions as revealed in his expert  
2 report.

3 MR. RUZICH: Yes, sir. May I proceed?

4 THE COURT: Please do.

5 MR. RUZICH: Thank you.

6 Q. (By Mr. Ruzich) Dr. Laskar, did you offer any  
7 reports in this matter?

8 A. Yes, I did.

9 Q. And how many?

10 A. The initial report and reply report.

11 Q. And did you have your deposition taken in  
12 this matter?

13 A. I did indeed.

14 Q. Okay. Now, let's take a look at your binder,  
15 and let's turn to JTX003.

16 Do you recognize this document?

17 A. I do.

18 Q. And what is it?

19 A. It is U.S. Patent 7,323,463 issued on the 29th  
20 of January, 2008, titled Combination Brimonidine and  
21 Timolol for Topical Ophthalmic Use.

22 Q. So for ease of reference, I'm going to refer  
23 to this patent as the '463 patent.

24 Does that sound fair?

25 A. Sounds fair.

1 Q. And have you reviewed the '463 patent in it's  
2 entirety?

3 A. 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  
8 generally what the claims of the '463 cover?

9 A. In a general overview sense, the claims of the  
10 '463 patent encompass a composition containing -- or  
11 comprising .5% Timolol, .2% Brimonidine in a single  
12 composition with using Benzalkonium Chloride as a  
13 preservative in an article of manufacture for topical  
14 treatment of glaucoma or ocular hypertension.

15 Q. Okay. Were you here during the testimony of  
16 Dr. Tanna?

17 A. Yes, I was.

18 Q. And do you recall him relating his  
19 understanding of the legal standard for anticipation?

20 A. Yes.

21 Q. And do you adopt that standard here for your  
22 testimony today?

23 A. Yes, I do.

24 Q. And you also heard Dr. Tanna's understanding  
25 of the legal standard for obviousness, correct?

1 A. I do.

2 Q. And do you adopt that standard for your  
3 testimony here today?

4 A. I do.

5 Q. Dr. Laskar, in connection with your testimony  
6 here today, have you reached any opinions about the  
7 claims of the '463 patent?

8 A. I believe that the claims of the '463 patent  
9 are invalid on the basis of anticipation and/or  
10 obviousness.

11 Q. Can you please turn to JTX004?

12 A. I have it.

13 Q. Okay. Do you recognize this document?

14 A. I do.

15 Q. And what is this document?

16 A. 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 Q. And just for ease of reference again, I'm  
20 going to refer to this patent as the '258 patent.

21 A. Understood.

22 Q. Great. And have you reviewed this document in  
23 its entirety?

24 A. Yes, I have.

25 Q. And have you reviewed all of the claims of the

1 '258 patent?

2 A. Yes, I have.

3 Q. And, again, if you could explain to the Court  
4 just generally what the claims cover of the '258 patent.

5 A. In a general sense, they cover the same ground  
6 as the '463 patent with some additional specificity of  
7 Brimonidine being referred -- being referred to as  
8 Brimonidine Tartrate and Timolol as being referred to as  
9 Timolol Tartrate (sic).

10 Q. And do the claims cover a fixed composition of  
11 those two ingredients?

12 A. In the same fashion as it does for the '463.

13 Q. And does the '258 patent also cover an article  
14 of manufacture?

15 A. Yes, it does. And together with the use of  
16 Benzalkonium Chloride as a preservative.

17 Q. Let's back up for a moment here, just so I'm  
18 clear. With regards to Timolol that's claimed in the  
19 '258 patent, is that Timolol Maleate or Timolol  
20 Tartrate?

21 A. In the -- in -- I'm sorry. In the --

22 Q. In the '258 patent, yes, sir.

23 A. 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  
2 also cover a method of treatment both of glaucoma and  
3 IOP?

4           A.    Yes.  And as I mentioned early on, it is --  
5 is -- is substantially the same as the claims for the  
6 '463 with the additional specific -- specificity  
7 concerning the -- the salts of Brimonidine and Timolol.

8           Q.    Dr. Laskar, in connection with your testimony  
9 here today, have you reached an opinion about the claims  
10 of the '258 patent?

11          A.    Yes, I have.

12          Q.    And what is your opinion?

13          A.    My opinion is that the claims of the '258  
14 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  
18 I'm going to make every attempt to streamline things  
19 here for Your Honor, okay?

20          Q.    (By Mr. Ruzich) Have you reviewed the  
21 specifications of both the '463 and the '258 patents?

22          A.    I have.

23          Q.    And how do they compare?

24          A.    They appear to be substantially the same.  The  
25 '4 -- the specifications of the '463 and the '25 -- '258

1 patent appear to be substantially the same. The '258  
2 patent adds two additional examples, Example 2 and  
3 Example 3, that are not present in the '463 patent.

4 Q. Okay. And, Dr. Laskar, you're here today to  
5 provide testimony only as to the '463 patent and the  
6 '258 patent, correct?

7 A. That is correct.

8 Q. Okay. But have you reviewed the '149 and the  
9 '976 patents?

10 A. Yes, I have.

11 Q. And why have you done that?

12 A. I've reviewed those inasmuch as it's my  
13 understanding that the '463 patent and the '258 patent  
14 derive in some fashion from the '149 patent.

15 Q. Isn't it a fair characterization that the '258  
16 and '463 claims are similar to the '149 and '967 (sic)  
17 patent claims?

18 A. The '976. I think you --

19 Q. I'm sorry. The '976.

20 A. They are. The principal difference is that  
21 the '149 patent and the '976 patent referred to a method  
22 of treatment, whereas the '463 and the '258 patents  
23 refer to compositions.

24 Q. Okay. And just quickly, we've -- you've heard  
25 of the DeSantis patent?

1 A. I certainly have.

2 Q. Okay. And with regards to the DeSantis  
3 patent, was that disclosed -- is your understanding  
4 whether it was disclosed during the prosecution of the  
5 '149 patent?

6 A. I do not believe it was.

7 Q. And as to the '976 patent, was DeSantis  
8 disclosed during its prosecution?

9 A. I do not believe so.

10 Q. Okay. And finally, as to the '463 patent, was  
11 DeSantis disclosed to the Patent Office during this  
12 prosecution?

13 A. No.

14 Q. Okay. And we all know it was disclosed during  
15 the '258 prosecution; is that correct?

16 A. Yes, we do.

17 Q. Okay. We've been bandying about this phrase  
18 critical date. And just for the -- just to clarify,  
19 what is your understanding of a critical date?

20 A. My understanding of the critical date is that  
21 it is the date of filing of the patent application for  
22 the '149 patent, which is the 19th of April, 2002.

23 Q. Okay. And you just testified a moment ago  
24 that you were here when Dr. Tanna testified, correct?

25 A. That is correct.

1 Q. And in his testimony -- or is his testimony  
2 consistent with your understanding of what was known to  
3 a person of ordinary skill in the art with regard to  
4 Brimonidine, Timolol, and the treatment of glaucoma in  
5 April of 2000?

6 A. Yes.

7 Q. And you also heard --

8 A. 2002.

9 Q. 2002. Okay. I was just go about to get to  
10 that.

11 All right. And did you hear Dr. Tanna's  
12 opinion as to what a person of ordinary skill in the art  
13 is?

14 A. Yes.

15 Q. And is this consistent with your  
16 understanding?

17 A. Yes.

18 Q. 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  
23 testimony referred to them as the Alphagan labels and  
24 the Timoptic labels. Are you familiar with both of  
25 those --



1 A. Yes.

2 Q. -- labels?

3 A. Yes, I am.

4 Q. Okay. And do you recall Dr. Tanna's testimony  
5 regarding what was known by one of ordinary skill in the  
6 art regarding the Alphagan product prior to 2002?

7 A. Yes.

8 Q. And just in general terms, what was known?

9 A. Well, the information that was known on or  
10 before April 2002 was that Alphagan is a -- is a brand  
11 name by Allergan of Brimonidine Tartrate at a  
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 Q. And is there any publication that exemplifies  
17 the understanding of one of ordinary skill in the art as  
18 it relates to the Alphagan label in 2002?

19 A. 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,  
2 PDR. And this one happens to be the edition from 1998.  
3 And as Dr. Tanna mentioned, it is published on an annual  
4 basis.

5 Q. (By Mr. Ruzich) Okay. And was this a document  
6 that was available to a person of ordinary skill in the  
7 art at that time?

8 A. Absolutely.

9 Q. And do you recall Dr. Tanna's testimony  
10 regarding what was known by one of ordinary skill in the  
11 art regarding Timoptic prior to 2002?

12 A. Yes.

13 Q. And what was known to one of ordinary skill in  
14 the art about that product?

15 A. To one of ordinary skill on or before April of  
16 2002 concerning Timoptic, one would know that it is  
17 Merck's brand of Timolol Maleate solution and that that  
18 solution was available to the market in two  
19 concentrations, 0.25 and 0.5% solution, intended for  
20 multiple use, and that multiple-use product was  
21 preserved with 0.01% Benzalkonium Chloride.

22 I would also just note that Timoptic was also  
23 available in a format called Ocudose, in which it was  
24 available without any Benzalkonium Chloride.

25 Q. And is there a publication that exemplifies

1 the understanding of one skilled in the art as to the  
2 Timoptic label in 2002?

3 A. Yes.

4 MR. RUZICH: And can we pull up DTX134,  
5 please.

6 A. And this is, again, the -- a reproduction of  
7 the cover page of the Physicians Desk Reference. This  
8 one is from 2001. And there's a monograph for Timoptic  
9 present within this volume.

10 Q. (By Mr. Ruzich) Okay. That's fine.

11 Now, let's jump to discussing some background  
12 in formulating a combination product. And, again, let's  
13 take a broader view for the Court.

14 We're heard from Dr. Tanna, and now we're  
15 going to hear from an expert formulator. What would a  
16 person of ordinary skill in the art do to develop a  
17 fixed combination product?

18 A. To develop a fixed combination product -- and  
19 I think, at this point, I would make the assumption that  
20 both the monotherapy products are available, and that  
21 would -- and that certainly within the glaucoma field,  
22 I'm not aware of any de novo combinations used in  
23 glaucoma, wherein neither of the monotherapies are not  
24 already available.

25 So taking that as a base, I would consider the

1 information about those monotherapies that were intended  
2 to be formulated as a fixed combination and use that  
3 information as a tool from which to build my fixed  
4 combination.

5 Q. Okay. Is it fair to say that you try to keep  
6 it as simple as possible?

7 A. Absolutely.

8 Q. Okay. To a person of ordinary skill in the  
9 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 A. As few as would be required to accomplish the  
13 goal that you have.

14 Q. Dr. Laskar, if you could flip to DTX98 in your  
15 binder, and I want to draw your attention to Page 10  
16 that's numbered in the report.

17 MR. RUZICH: And, Your Honor, do you have  
18 a copy of that?

19 THE COURT: Yes.

20 A. I have that page.

21 Q. (By Mr. Ruzich) Fantastic. Dr. Laskar, do you  
22 recognize this document?

23 A. Yes, I do.

24 Q. And what is it?

25 A. It is my initial expert report that's dated



1 the 27th of May of this year.

2 Q. And I asked you to direct your attention to  
3 Page 10 that's numbered in your report.

4 MR. RUZICH: And, Ms. Sarwan, if you can,  
5 can you highlight the first two columns.

6 Q. (By Mr. Ruzich) And, Dr. Laskar, once that's  
7 highlighted, can you please describe what is shown.

8 A. Yes. Those two columns are -- the left-hand  
9 column is a general descriptor of the components of an  
10 ophthalmic formulation, that is to say the active  
11 ingredient, which is, in row one, buffer, preservative,  
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,  
17 that's water.

18 Q. Okay. And --

19 A. And in the column -- excuse me.

20 Q. No. That's fine. Go ahead.

21 A. The column on the right-hand side provides the  
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  
4 composition that's isosmotic with tear fluid.

5           And if a viscosity agent is added, it's  
6 generally designed to increase the viscosity to thicken  
7 the eyedrop, to extend the residence time on the ocular  
8 surface.

9           And then the pH fine tuning, adjusting agent,  
10 is to fine tune the pH after putting these -- the above  
11 components together to attain more sharply the desired  
12 pH for the particular formulation.

13           Q.    Let's talk about that for a moment. As to pH  
14 adjusting agents, is that a specific concern with regard  
15 to ophthalmic products or drugs?

16           A.    Absolutely.

17           Q.    And what does that concern?

18           A.    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  
21 ophthalmic product, the pH can impact the -- the  
22 stability of the product as it would any -- essentially  
23 any liquid product.

24           It can -- in the case of an ophthalmic, more  
25 specifically can impact the comfort of the ophthalmic,

1 inasmuch as the eye has a surface pH of approximately  
2 7.4. And although it's quite tolerant of -- of  
3 variations around that, if one moves to extremes, then  
4 discomfort sets in.

5           And in addition, pH can have a significant  
6 impact on the ocular bioavailability of the drugs in --  
7 residing in the ocular formulation.

8           Q.    Okay. Is there a single pH value that you  
9 must formulate with in connection with an ophthalmic  
10 product?

11          A.    That you must formulate with, no. It is --  
12 you -- you -- the pH that you formulate in is designed  
13 to optimize those attributes that I just discussed.

14          Q.    Okay. And you also mentioned preservatives,  
15 and it's also up here on your chart. So let's talk  
16 about those generally.

17                For ophthalmic formulations, are preservatives  
18 required?

19          A.    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          Q.    And are there different categories of  
24 preservatives?

25          A.    Yes, there are.

1 Q. And what's the most common?

2 A. The most common is the category of quaternary  
3 ammonium compounds of which Benzalkonium Chloride is the  
4 predominant example.

5 Q. Okay. We're going to refer to that as BAK for  
6 the rest of your testimony. Is that fair?

7 A. I tend to use the word BAK.

8 Q. Fantastic.

9 A. It comes from my history.

10 Q. So let's go back to DTX98. You have that  
11 open, and that's your opening report. Could you go to  
12 Page 13 as numbered in the report itself?

13 A. I have it.

14 Q. And can you describe for me what this is.

15 A. Yes. This is a table that I prepared to -- as  
16 an illustration, and it depicts the glaucoma products  
17 that were available on the U.S. market on or before  
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  
22 Benzalkonium Chloride, BAK, is the preservative  
23 exclusively used in all of these glaucoma therapeutic  
24 agents.

25 Q. And a moment ago, we were talking about the



1 Alphagan label, as well as the Timoptic label. Do they  
2 appear on this table?

3 A. Yes, they do. And you can see on the top line  
4 and then the fourth from the bottom line, those two  
5 products are identified.

6 Q. Okay. Is it fair to say that half of these  
7 concentrations are less than 0.01% of BAK?

8 A. I believe you're correct in that. I think  
9 there are only two examples that are greater than .01%.

10 Q. Okay. So let's go back to Page 10, to that  
11 chart in your expert report.

12 So let's look at two specific examples that  
13 you've provided in this chart, again, Timoptic and  
14 Alphagan.

15 MR. RUZICH: And if you could highlight  
16 those. Okay.

17 Q. (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  
23 Timoptic vehicle inasmuch as it has the fewest  
24 excipients present and would be the most straightforward  
25 point from which to begin my formulation of a fixed

1 combination.

2 Q. Okay. And as to the number of excipients, any  
3 opinion as to how a person of ordinary skill in the art  
4 would take those into account in formulating a fixed  
5 combination?

6 A. As I mentioned, the fewest in number. And as  
7 you can see, in this particular instance, there are the  
8 two components of the buffer, mono and dibasic sodium  
9 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  
12 two actives.

13 Q. Let's go back to the ingredients of Timoptic.  
14 What's the active ingredient in Timoptic?

15 A. Timolol Maleate.

16 Q. And do you have an understanding of what that  
17 drug was initially used before it was used in the eye?

18 A. Yes, I do.

19 Q. And what is your understanding?

20 A. It was used in the treatment of -- as a  
21 cardiovascular in the management of blood pressure.

22 Q. And when did Timolol come out?

23 A. For ophthalmic use, it was in 1978. It was  
24 available or used in -- in cardiovascular treatment as a  
25 systemic drug prior to this.

1 Q. So just so I'm clear, before 1978, it was used  
2 as a cardiovascular drug?

3 A. By a systemic administration as a tablet, if I  
4 recall correctly.

5 Q. Okay. And as to the Alphagan agent active  
6 ingredient, Brimonidine --

7 A. Yes.

8 Q. -- was that also used as a cardiovascular  
9 drug?

10 A. That I'm not aware of.

11 Q. Okay. And you're not a physician, correct?

12 A. I certainly am not.

13 Q. Okay. As to the pH of these two products,  
14 would there be any particular importance as to the pH  
15 level of these two products?

16 A. Yes. As I mentioned before, the three  
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,  
24 such -- such that the expiry date would be commercially  
25 viable and desirable by the marketing group of the

1 pharmaceutical company.

2 Q. So if a person of ordinary skill in the art  
3 chose the Timoptic vehicle as its base, what would the  
4 next steps be in formulating a fixed combination?

5 A. As I mentioned some time ago, I would, first  
6 of all, look at the information that I could garner  
7 concerning both Timoptic and Alphagan concerning the pHs  
8 of the individual products, information that I would  
9 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  
13 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  
16 would identify a pH to attain the -- the desirable  
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 Q. Okay. As to pH, would a person of ordinary  
21 skill in the art know the pH of Brimonidine?

22 A. Yes.

23 Q. And I believe you referenced a moment ago the  
24 PDR, the Physicians Desk Reference, correct?

25 A. Yes.



1 Q. For the Alphagan label?

2 A. Yes.

3 Q. Would a person of ordinary skill in the art  
4 understand the pH of Timolol?

5 A. Yes.

6 Q. And the Timoptic product?

7 A. From a -- from a similar reference.

8 Q. And that similar reference was the PDR?

9 A. That is correct.

10 Q. Okay. With those steps in mind in formulating  
11 a fixed combination product, would a person of ordinary  
12 skill in the art have a reasonable expectation of  
13 success if they followed those steps?

14 A. I would believe so --

15 Q. And --

16 A. -- from the standpoint achieving a stable  
17 formulation.

18 Q. 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 A. It appears from the verbiage in the  
22 specifications of the '463 and the '258 patents.

23 Q. And is it your opinion whether there was any  
24 part of the development of the formula mentioned in the  
25 patents that was not routine development by one of

1 ordinary skill in the art?

2 A. For a person of ordinary skill in the art, I  
3 believe that the processes that were necessary and that  
4 were pursued appear to be those that are routine to a  
5 person of skill in formulation in April of 2002.

6 Q. Okay.

7 MR. RUZICH: If we could pull up JTX004,  
8 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  
13 when you have that example in front of you.

14 A. I have it.

15 Q. Okay. What formulation has been used as a  
16 starting point to create the patented combination here?

17 A. From reading the text of the patent beginning  
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  
23 million.

24 Q. And is that in keeping with how a person of  
25 ordinary skill in the art would have formulated the

1 patented combination?

2 A. To obtain a stable product, yes, and then some  
3 additional work to validate, verify, and qualify the  
4 concentration of BAK.

5 Q. So just to clarify, as described in the patent  
6 itself, both the '463 and the '258, in your opinion, was  
7 that process -- the formulation process routine?

8 A. Absolutely, yes.

9 Q. And were you here for the testimony of  
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  
15 the '463?

16 A. I do not recall Mr. Beck referring to any  
17 problems concerning the formulation of the composition  
18 in this table.

19 Q. Okay. You mentioned earlier and there's been  
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  
23 amount of preservative to be used?

24 A. A person of ordinary skill in the art  
25 understands that a preservative -- and has been

1 testified to, I believe, by multiple individuals -- a  
2 preservative, such as Benzalkonium Chloride, has some  
3 downsides relative to cytotoxicity and ocular  
4 irritation, and as such -- and, in fact, it would be  
5 true for other excipients as well, is that the desired  
6 goal is to minimize the amount of any excipient  
7 required.

8           So as a part of routine testing, one would use  
9 what's called a PET test that -- or preservative  
10 effectiveness test that has also been mentioned by  
11 others as a methodology to identify an appropriate level  
12 of the preservative Benzalkonium Chloride to be used.  
13 It's a routine test that is -- that's currently employed  
14 and was employed in -- in late '90s and -- and before  
15 2002.

16           Q.    So let's focus on before 2002. What were the  
17 respective amounts of BAK in Brimonidine and Timolol  
18 products prior to 2002?

19           A.    Prior to 2002, for the Brimonidine products,  
20 which would be exclusively Allergan's brand of -- brand  
21 known as Alphagan, it was .005%.

22                    In the case of the Timoptic products, it was  
23 either 0 in their OcuDose product or .01% in their  
24 multidose product.

25           Q.    And there's been a lot of testimony that BAK



1 has some toxic issues, correct?

2 A. That is correct.

3 Q. Dr. Laskar, do the patents disclose the  
4 toxicity issue --

5 A. Yes, they do.

6 Q. -- or any toxicity issue?

7 And how do they disclose it or discuss it?

8 A. They discuss it in -- in -- as others have  
9 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  
13 ocular surface to Benzalkonium Chloride.

14 Q. Is it fair to say that the possibility of a  
15 toxic event or the toxicity of BAK was known -- well  
16 known before 2002?

17 A. Oh, yes. It's well recorded in textbooks and  
18 literature back -- back several decades.

19 Q. So with that in mind, would a person of  
20 ordinary skill in the art still use BAK as of April 2002  
21 despite these known side effects?

22 A. Yes.

23 Q. And why is that?

24 A. Yes, they would. And I think, as has been  
25 testified to by many person -- many of the witnesses,

1 that Benzalkonium Chloride, in 2001, was the prevalent  
2 preservative, it was before that, and to this day, it is  
3 the prevalent preservative.

4 Q. From the perspective of a formulator, is it  
5 the go-to preservative in ophthalmic products?

6 A. At the present time, yes, it is. It's the  
7 go-to. It's the preferred preservative. Because to --  
8 to a formulator, a formulator understands its  
9 attributes, both positive and negative.

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,  
16 and therefore perhaps with skepticism, and the safety  
17 and effectiveness and efficiency and compatibility must  
18 be established of that candidate, new preservative, with  
19 what other formulation is being worked on.

20 Q. Okay. So do the patents discuss any problems  
21 whatsoever with the development of the claimed  
22 formulations?

23 A. Not that I've been able to find in the text of  
24 the '463 or the '258 patents.

25 Q. Do the patents discuss any concerns regarding

1 degradation products?

2 A. No. They mention -- there's no mention of  
3 degradation products.

4 Q. And do the patents mention anything about FDA  
5 compliance?

6 A. I was unable to find any text having to do  
7 with any regulatory review or FDA-approval issues.

8 Q. Do the claims of the patents discuss anything  
9 or mention anything about FDA approval?

10 A. None whatsoever.

11 Q. I'm going to switch gears now, and we're going  
12 to talk about DeSantis, and I think that we can move  
13 quite quickly on DeSantis, given the length of treatment  
14 that it's already been given so far in this trial.

15 We know that DeSantis was available to one of  
16 skill in the art before April 2002.

17 MR. RUZICH: If we could pull up DTX123,  
18 please.

19 Q. (By Mr. Ruzich) And do you recognize this  
20 document?

21 A. I do.

22 Q. And did you hear Dr. Tanna discuss DeSantis?

23 A. I did.

24 Q. And do you agree with his discussion of  
25 DTX123?

1 A. Yes.

2 Q. And in your opinion, was a fixed combination  
3 of Brimonidine and Timolol formulated with BAK disclosed  
4 prior to 2001?

5 A. Yes. I believe it's disclosed in this  
6 DeSantis patent '052.

7 Q. Are there more than one kind of Alpha-2  
8 agonists?

9 A. Yes.

10 Q. And in your opinion, does the DeSantis  
11 reference -- reference disclose Brimonidine as an  
12 Alpha-2 agonist?

13 A. It does by incorporation.

14 Q. Okay. And where and how is it disclosed in  
15 DeSantis?

16 A. Brimonidine is disclosed by -- in DeSantis by  
17 incorporation of the article by Timmermans.

18 Q. And what's your understanding of incorporating  
19 a document into a patent?

20 A. My understanding of incorporation of a  
21 document -- or incorporation by reference to a document  
22 is that it is tantamount to reproducing the entire text  
23 of whatever is being referred to within the body --  
24 within the specifications of the patent.

25 Q. Okay. We'll get to Brimonidine and Timmermans



1 in a moment, but in general, what information was  
2 provided to a person of ordinary skill in the art by the  
3 Timmermans reference.

4 MR. RUZICH: And if we could pull up  
5 DTX124, please, Page 217. Let's go to DTX124.

6 Q. (By Mr. Ruzich) Doctor, do you recognize this  
7 document?

8 A. Yes, I do.

9 MR. RUZICH: And let's turn to Page 217.

10 Q. (By Mr. Ruzich) You mentioned a moment ago  
11 that Brimonidine is disclosed in the DeSantis patent by  
12 way of incorporation by reference, right?

13 A. Yes.

14 Q. And that incorporation by reference was the  
15 Timmermans document?

16 A. Yes, it is.

17 Q. And where in the Timmermans document does --  
18 is Brimonidine disclosed?

19 A. I have it in front of me, but not on the  
20 screen, it's got Page 230.

21 Q. Okay.

22 A. Do you want me to wait until it's shown on the  
23 screen?

24 Q. Sure.

25 A. Okay. There we go.

1 Q. Great. Thank you.

2 A. 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  
6 the substructure identified with an R, then one has the  
7 Brimonidine molecule.

8 Q. Is it fair to say that this is chemistry  
9 shorthand?

10 A. Yes.

11 Q. Okay. You mentioned the designator  
12 UK-14,304-18.

13 A. Yes.

14 Q. Why not just say Brimonidine?

15 A. At the -- at the time that Timmermans wrote  
16 this chapter, this compound did not have a trivial name  
17 such as Brimonidine. It was known only by its compound  
18 name that Pfizer assigned to it as UK -- as this  
19 UK-14,304-18.

20 And, in fact, I might just mention that when  
21 Allergan brought this molecule to Irvine, they, I  
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  
3 just want to highlight the second column here, let's  
4 just go down to the second full paragraph. I'm sorry.  
5 The first column. And let's go down a little bit  
6 further. Okay.

7 Q. (By Mr. Ruzich) Dr. Laskar, is Brimonidine  
8 discussed in this column?

9 A. Yes, it is.

10 Q. Where?

11 A. Beginning with -- and at the top of this  
12 called-out section: The quinoxaline system found in the  
13 experimental compound UK-14,304-18 (Pfizer) refers to  
14 Brimonidine.

15 Q. Okay.

16 A. And then it discusses that this substance is  
17 somewhat less active than Clonidine, and it seems likely  
18 that the mechanism which underlies the hypotensive  
19 effect is identical to that of Clonidine, and then it  
20 refers to how that -- how Timmermans came to know that.

21 Q. And I think right below it, there's also  
22 another mention of Brimonidine, too?

23 A. Yes. There's mentioned elsewhere in the text  
24 that, in fact, the tartrate salt of that particular  
25 compound was used in this particular experimental

1 protocol.

2 Q. Would it surprise you as an expert formulator,  
3 over your 30 years' experience, that a formulator  
4 looking for a formulation for the eye would turn to an  
5 antihypotensive drug?

6 A. From my understanding as a person of art and  
7 as -- as a trained pharmacist, no.

8 Q. And let's be clear. Before the critical date  
9 of April 19th of 2002.

10 A. Yes. I'm sorry. I did not qualify.

11 Q. And I believe you mentioned before that  
12 Timolol was an antihypotensive drug as well?

13 A. That's correct.

14 Q. 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?

18 A. None whatsoever.

19 Q. You're certain?

20 A. 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]

2 THE WITNESS: Well, you might have been  
3 in high school.

4 THE COURT: I was in organic chemistry  
5 before you were, but go ahead. But I had the good sense  
6 to get out.

7 Q. (By Mr. Ruzich) Let's get back to your  
8 testimony here.

9 Would a person of ordinary skill in the art  
10 understand which Alpha-2 agonists were considered  
11 pharmaceutically acceptable for the treatment of  
12 glaucoma to one skilled in the art as of 2002?

13 A. Yes. To a person of skill in the art on or  
14 before April of 2002, they would have understood that  
15 there were an extremely small number of possible Alpha-2  
16 agonist compounds with which one might formulate a fixed  
17 combination.

18 Q. Okay. And in your opinion as an expert drug  
19 formulator, how many Alpha-2 agonists were available to  
20 a person of ordinary skill in the art to create a fixed  
21 combination drug before April 2002?

22 A. To a person skilled in the art on or before  
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 Q. Is it fair to say there are a lot of Alpha-2  
2 agonists that are disclosed in Timmermans?

3 A. Absolutely.

4 Q. But from the perspective of a drug formulator,  
5 from the perspective of a person having ordinary skill  
6 in the art as a drug formulator, which Alpha-2 agonist  
7 would a person of skill in the art choose from  
8 Timmermans as of 2002?

9 A. In 2002, a person of skill in the art would  
10 have chosen Brimonidine.

11 Q. Okay. And what would -- let's just bring this  
12 full circle now.

13 What would DeSantis have taught a person of  
14 ordinary skill in the art with respect to formulating  
15 that fixed combination product with that Alpha-2  
16 agonist?

17 A. DeSantis would have taught that one would take  
18 that particular -- that Alpha-2 agonist, Brimonidine,  
19 and formulate it with the beta-blocker, Timolol, which  
20 is the beta-blocker identified in the title of the -- of  
21 the DeSantis patent.

22 Q. Does DeSantis disclose any beta-blockers?

23 A. In the specifications of the '052, there are a  
24 significant number of beta-blockers identified.

25 MR. RUZICH: And if you can pull up

1 DeSantis for a minute. I think that was -- you got it.

2 THE WITNESS: That's Timmermans.

3 MR. RUZICH: Right. Get to the DeSantis  
4 in a moment.

5 THE WITNESS: There we go.

6 Q. (By Mr. Ruzich) And just out of clarity, you  
7 mentioned that it's disclosed here in DeSantis, correct?

8 A. Yes.

9 Q. Okay. And to a person of ordinary skill in  
10 the art, does Timmermans and DeSantis disclose thousands  
11 of potential combinations for a fixed product, for a  
12 fixed combination glaucoma drug?

13 A. I suppose if one does the hypothetical  
14 mathematics of taking the number of beta-blockers that  
15 are listed in the specification to DeSantis and takes,  
16 again, the list of Alpha-2 agonists that are listed both  
17 in Timmermans and in DeSantis and do the math and  
18 overload the calculator, yes, one would have a humongous  
19 number.

20 Q. And we're not talking about math here today.

21 A. No.

22 Q. And you're not a -- you're not testifying as  
23 an expert on odds, in other words, mathematical odds,  
24 correct? Or mathematics combinations, are you?

25 A. No, I'm not.

1 Q. So you're here to testify about the  
2 perspective of a person of ordinary skill in the art in  
3 formulating a drug.

4 A. That is correct.

5 Q. As to the number of combinations that are  
6 potentially disclosed in DeSantis and Timmermans, what  
7 can you say about that?

8 A. I can say that DeSantis would identify one  
9 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 Q. And you were here during the testimony of Mr.  
13 Beck, correct?

14 A. I was.

15 Q. And were you here when he testified that there  
16 was only one Alpha-2 agonist of choice in 2002?

17 A. I heard that.

18 Q. And do you agree with Mr. Beck?

19 A. Yes, I agree with Mr. Beck.

20 Q. And are you familiar with the testimony of Ms.  
21 Batoosingh?

22 A. I -- although I did not hear her testimony,  
23 I'm familiar with it.

24 Q. Okay. And would you agree that -- with her  
25 assessment that Timolol was the beta-blocker of choice



1 as of 2002?

2 A. Yes, I would agree with her assessment of  
3 that.

4 Q. Okay. We've been talking about your  
5 background. We've been talking about your experience as  
6 a formulator. We've been talking about the -- what a  
7 formulator would do in formulating a fixed combination  
8 glaucoma product.

9 So let's now discuss in-depth both of the  
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  
13 use in conjunction with your testimony here today?

14 A. Yes, I did.

15 Q. And would those demonstratives assist you in  
16 explaining your testimony to the Court?

17 A. 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  
21 the next slide, the '463 here.

22 Q. (By Mr. Ruzich) Can you explain to the Court  
23 real quickly what this is?

24 A. Yes. This is just to illustrate a way of  
25 summarizing some information. In the left-hand column

1 is the '463 patent, and on this screen, Claims 1 through  
2 3 of that patent.

3           The next column over is -- indicates a box  
4 which -- with an indicator of whether it is -- whether  
5 that claim is anticipated by DeSantis.

6           And the right-hand column, in an analogous  
7 fashion, indicates whether that claim is obvious when  
8 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,  
11 as well as the '976. Dr. Laskar is here to testify, as  
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           Q. (By Mr. Ruzich) What does DeSantis disclose  
17 about Claim 1 of the '463 patent?

18           A. Claim 1 of the '463 patent has -- teaches --  
19 states: A composition comprising about .2% Brimonidine  
20 by weight and about 0.5% Timolol by weight as the sole  
21 active agents in a single composition.

22           Q. Okay. And let's focus on this phrase, quote,  
23 about 0.2% Brimonidine. I think we've established that  
24 Brimonidine is disclosed in DeSantis, correct?

25           A. Yes.

1 Q. And I think we've already went over that, how  
2 it is disclosed in DeSantis, correct?

3 A. Yes.

4 Q. Okay.

5 MR. RUZICH: So let's go to the next  
6 slide, Slide 6.

7 Q. (By Mr. Ruzich) So let's go back to the claim  
8 again and look at the phrase 0.2% Brimonidine. Do you  
9 have that in front of you?

10 A. I do.

11 Q. And is there a disclosure in DeSantis as to  
12 the range of the Alpha-2 agonists?

13 A. Yes.

14 Q. And can you also provide the column number and  
15 line number?

16 A. I apologize.

17 Q. That's fine.

18 A. I didn't have my --

19 Q. I overlooked that, and we can recapture that  
20 in a moment. Go ahead.

21 A. 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  
2 to the Court just the line -- the column and line number  
3 as to where that appears in DeSantis?

4 A. If I can have that slide again, please.

5 MR. RUZICH: Sure. If you could punch  
6 back to that. Thank you.

7 A. For Brimonidine, it is noted in Column 4,  
8 Line -- beginning Line 42 of the patent and then on  
9 Page 20 -- 28, which is part -- which is Table 31 of the  
10 Timmermans article.

11 Q. (By Mr. Ruzich) Okay. So let's focus in on  
12 the actual percentage of Brimonidine, 0.2%. What would  
13 a person of ordinary skill in the art have known about  
14 that specific percentage?

15 THE WITNESS: And if we can skip forward  
16 to that. There we go.

17 MR. RUZICH: Great.

18 A. 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 A. -- and had been for a number of years.

25 Q. Is it fair to say that a person having skilled



1 in the art would have envisioned that 0.2%?

2 A. Absolutely.

3 Q. Okay.

4 MR. RUZICH: Let's go to the next slide,  
5 please.

6 Q. (By Mr. Ruzich) And for the sake of our  
7 discussion here today, is there any publication that  
8 exemplifies your understanding?

9 A. Yes. As we noted just a little while ago, the  
10 PDR and the Alphagan monograph within the PDR would have  
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 A. I do.

17 Q. Does DeSantis disclose Timolol?

18 A. 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  
24 that Timolol is explicitly identified in the title of  
25 the patent.

1           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  
4 patent.

5           Q.     And does DeSantis disclose that the  
6 beta-blocker can be used in any amount or any specific  
7 amount?

8           A.     Yes, it does. It -- DeSantis identifies that  
9 the Timolol can be used at 0.01 to 3%. And one skilled  
10 in the art would immediately envision, based on their  
11 knowledge, that the concentration to be used would be  
12 .5%.

13          Q.     So let's focus in on the actual percentage of  
14 Timolol at 0.5%.

15          Okay. What would a person of ordinary skill  
16 in the art have known about that specific percentage?

17          A.     A person of skill in the art, April 2002,  
18 would have known that .5% was the -- was one of the two  
19 concentrations of Timolol that was marketed as Timoptic  
20 and that the .5%, as we've heard from multiple  
21 individuals, was the most predominant concentration of  
22 Timolol used in the clinical treatment of glaucoma and  
23 ocular hypertension.

24          Q.     Okay. And for the sake of our discussion here  
25 today, is there a publication that exemplifies that

1 understanding?

2 A. Yes, there is. And as we mentioned  
3 previously, it is the PDR and the Timoptic monograph  
4 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?

9 A. I believe so.

10 Q. All right. So let's take --

11 MR. RUZICH: We're moving along, Your  
12 Honor.

13 Q. (By Mr. Ruzich) Let's take a look at the term  
14 sole active ingredients in a single composition.

15 Do you see that?

16 A. I do.

17 Q. And what does sole active agents refer to?

18 A. 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 A. Yes, it is. It's disclosed in two places.  
23 One in Column 1, beginning Line 19, and second --  
24 second -- secondly, Column 3, beginning at Line 3.  
25 And in Column 1, it states: A pharmaceutical

1 composition which includes as principal active  
2 ingredients combinations of one or more Alpha-2 agonists  
3 and one or more beta-blockers.

4           And then later: A combination of a  
5 therapeutically effective amount of one or more -- one  
6 or more Alpha-2 agonists and a therapeutically effective  
7 amount of one or more beta-blockers.

8           Q. As to Timolol, does Column 5 and Line 33 of  
9 the '463 patent shed any light as to that disclosure?

10          A. I'm sorry. Column 3?

11          Q. Column 5, Line 33, the Lines 33.

12          A. I don't have that immediately in front of me.

13 Hang on.

14          Q. Sure. You have the full --

15          A. Yeah. Column 5, Line --

16          Q. And I believe that's JTX4 -- that's JTX3.

17                 We'll just take it from Lines 31 through 35 on  
18 Column 5.

19                 MR. RUZICH: Not of DeSantis, of the --

20 I'm sorry. Of DeSantis, correct.

21          A. Would you repeat the question, please?

22          Q. (By Mr. Ruzich) Sure. Does Column 5,  
23 Line 33 -- or Lines 30 to 35, shed any light as to the  
24 disclosure of Timolol in DeSantis?

25          A. Yes. It discloses Timolol in Line -- it



1 appears to be 33 explicitly, and then further, in the  
2 following paragraph, it discloses the amount of the  
3 beta-blocker.

4 Q. Okay.

5 MR. RUZICH: Let's go to Slide 11,  
6 please.

7 Q. (By Mr. Ruzich) And just to wrap this up, Dr.  
8 Laskar, is it your opinion that DeSantis discloses all  
9 the elements of Claim 1, either explicitly or  
10 inherently, of the '463 patent?

11 A. Yes.

12 Q. And is it your opinion that DeSantis  
13 anticipates Claim 1 of the '463 patent?

14 A. Yes.

15 Q. Now, let's turn now to obviousness.

16 You see on this chart here, we have an  
17 Anticipation column, as well as an Obvious Over column.

18 A. Yes, I do.

19 Q. Okay. Do you have an opinion as to whether  
20 Claim 1 is rendered obvious?

21 A. Yes, I do.

22 Q. And what is your opinion as to whether Claim 1  
23 is rendered obvious?

24 A. My opinion is that Claim -- that DeSantis and  
25 the information available to one skilled in the art

1 would immediately envision that the Claim 1 of the '463  
2 patent is obvious.

3 Q. And why is that?

4 A. Because the information in DeSantis describes  
5 the Brimonidine. It leads one to the -- by virtue of  
6 information to the .2% of Brimonidine. It identifies  
7 Timolol explicitly. And one with knowledge would  
8 immediately identify 0.5% and that those would be in a  
9 single composition.

10 Q. Okay.

11 MR. RUZICH: Let's go to Slide 12,  
12 please.

13 Q. (By Mr. Ruzich) Let's focus now on Claim 2 of  
14 the '463 patent. What does Claim 2 recite?

15 A. Claim 2 of the '463 patent says: The  
16 composition of Claim 1 further comprising from 0.001 to  
17 0.01% Benzalkonium Chloride.

18 Q. Do you understand that Claim 2 depends from  
19 Claim 1?

20 A. Yes, I do.

21 Q. And what's your understanding of dependent  
22 claims?

23 A. My understanding of dependent claims is that  
24 the text of the claim referred to in the dependent claim  
25 is essentially copied into that dependent claim.

1 Q. So do you understand that all the limitations  
2 of Claim 1 are now in Claim 2, correct?

3 A. Yes, I do understand that.

4 Q. And does your analysis of Claim 1 still apply  
5 to those same limitations that are now incorporated into  
6 Claim 2?

7 A. Yes.

8 Q. Okay. And we've talked a lot about  
9 preservatives. Specifically what is disclosed in  
10 DeSantis with regards to preservatives?

11 A. DeSantis discloses in Column 5, Line 41 to  
12 46 -- it discloses a list of antimicrobial preservatives  
13 of which Benzalkonium Chloride is the first listed and  
14 then further identifies a concentration in which it  
15 might be used that ranges from .001 to 1%.

16 Q. 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 A. I do.

20 Q. Is there a range of BAK disclosed in DeSantis?

21 A. Yes. It is .001 to 1%.

22 Q. As to the upper range, you noticed that that's  
23 different.

24 A. Yes.

25 Q. So what would a person of ordinary skill in

1 the art do to limit that range in DeSantis any further?

2 A. A person of skill in the art would immediately  
3 envision that the concentration -- the upper  
4 concentration that -- that might reasonably be used  
5 would be .01%.

6 Q. And so just so we're -- just so we're clear,  
7 based on this disclosure, is it your opinion that this  
8 is how a person of ordinary skill in the art would be  
9 expected to practice the claims of the DeSantis patents?

10 A. Yes, I believe so.

11 MR. RUZICH: Okay. Let's go to Slide 13.

12 Q. (By Mr. Ruzich) Does the Timoptic PDR we  
13 looked at earlier support your opinion that a person of  
14 ordinary skill in the art would have known Timolol was  
15 formulated at 0.01%?

16 A. Yes, they would. It is explicitly explained  
17 in the Timoptic monograph in the PDR wherein the  
18 concentration of Benzalkonium Chloride is identified as  
19 .01%.

20 MR. RUZICH: Next slide, please.

21 Q. (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  
24 of the '463 patent?

25 A. Yes.



1 Q. Does DeSantis, in your opinion, anticipate  
2 Claim 2 of the '463 patent?

3 A. Yes.

4 Q. Turning now to Obvious in the second half of  
5 this chart here, do you have an opinion as to  
6 obviousness with regards to Claim 2 of the '463 patent?

7 A. Yes.

8 Q. What is your opinion?

9 A. I believe that DeSantis, together with the  
10 information available to one skilled in the art, would  
11 render Claim 2 of the '463 patent obvious.

12 Q. Let's move on now to Claim 3.

13 MR. RUZICH: It's Slide 15.

14 Q. (By Mr. Ruzich) What does Claim 3 recite?

15 A. Claim 3 states: The composition of Claim 2  
16 comprising about 0.005% Benzalkonium Chloride.

17 Q. And you'll notice that Claim 3 depends on  
18 Claim 2, and Claim 2 depends on Claim 1.

19 Do you see that?

20 A. I do.

21 Q. Okay. And you now understand -- you  
22 understand that all the limitations of Claim 1 and  
23 Claim 2 can now be found in Claim 3, correct?

24 A. That is correct.

25 Q. And does your analysis of Claim 1 and Claim 2

1 that we just went over still apply to those same  
2 limitations that are now incorporated into Claim 3?

3 A. Yes.

4 MR. RUZICH: So let's go to the next  
5 slide. Let's turn now to Claim 3.

6 Q. (By Mr. Ruzich) Does DeSantis disclose the  
7 contents of this claim?

8 A. Yes, it does.

9 Q. Okay. And what about the specific  
10 concentration of BAK? Would a person of ordinary skill  
11 in the art have knowledge of that percentage, precisely  
12 0.005%?

13 A. Yes, they would.

14 Q. And how's that?

15 A. A person of skill in the art, in April of  
16 2002, would have understood the .005% Benzalkonium  
17 Chloride explicitly and immediately envisioned that by  
18 their knowledge of the information contained in the  
19 Alphagan monograph of the PDR.

20 Q. And the Alphagan monograph is the one we  
21 had -- that's been found in the PDR, correct?

22 A. Yes.

23 Q. Okay.

24 A. And that we've shown and discussed on several  
25 occasions.

1 Q. Great.

2 MR. RUZICH: Let's go to Slide 16. Okay.  
3 I see that one there.

4 Q. (By Mr. Ruzich) Okay. Just to wrap this up,  
5 Dr. Laskar, is it your opinion that DeSantis discloses  
6 all the claims -- or all the elements of Claim 3 either  
7 explicitly or inherently of the '463 patent?

8 A. Yes.

9 Q. In your opinion, does DeSantis anticipate  
10 Claim 3 of the '463 patent?

11 A. Yes.

12 Q. Okay. Let's turn now to the obviousness  
13 analysis. Do you have an opinion as to whether Claim 3  
14 is rendered obvious?

15 A. Yes.

16 Q. And what is your opinion?

17 A. My opinion is that a person -- that DeSantis,  
18 together with information available to one skilled in  
19 the art, would render obvious the -- Claim 3 of the '463  
20 patent.

21 Q. Let's move on to Claim 4 of the '463 patent.

22 MR. RUZICH: The next slide, Slide 17.

23 Q. (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  
2 manufacture that contains the combination -- a fixed  
3 combination and also describes the uses of that fixed  
4 combination.

5           Q.    Okay.  And let's look at that term article of  
6 manufacture.

7                        What would a person of ordinary skill in the  
8 art, as of April of 2002, have known regarding this  
9 phrase?

10          A.    A person of ordinary skill, in April of 2002,  
11 would have known that an article of manufacture refers  
12 to the plastic ophthalmic dropper bottle and the  
13 solution that it contains.

14          Q.    And is this understanding supported by the  
15 PDRs that we just went over?

16          A.    Absolutely.

17          Q.    And where?

18          A.    In both of the Alphagan monograph and the  
19 Timoptic monograph, there is an -- information which  
20 describes how Alphagan is packaged; that is to say, as  
21 you can see in the highlighted section, white opaque  
22 plastic dropper bottles, and in the Timoptic monograph  
23 described as a white translucent dispenser.

24                       MR. RUZICH:  Let's go to Slide 19.

25          Q.    (By Mr. Ruzich) Now, let's carefully look at



1 this next limitation of Claim 4, which recites, quote:  
2 Wherein said composition comprises about 0.2%  
3 Brimonidine by weight and about 0.5% Timolol by weight  
4 in a single composition.

5 Do you see this?

6 A. I do.

7 Q. And is this similar to Claim 1 of the '463  
8 patent?

9 A. Yes.

10 Q. And would you apply the same analysis as you  
11 applied to Claim 1 to this claim?

12 A. Yes, I would.

13 Q. Does DeSantis disclose this limitation?

14 A. Yes. Just as I mentioned in my analysis of  
15 Claim 1.

16 MR. RUZICH: Let's go to Slide 20,  
17 please.

18 Q. (By Mr. Ruzich) And let's tackle the last  
19 limitation of this claim. Can you please read to the  
20 Court this last limitation?

21 A. The last limitation is: And wherein said  
22 packaging indicates that the composition is useful for  
23 treating glaucoma or ocular hypertension by twice-a-day  
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?

4 A. Yes, it is.

5 Q. Where?

6 A. In the DeSantis patent, Column 1, beginning in  
7 Line 13, it refers to -- that the invention relates to  
8 the treatment of glaucoma and associated elevations of  
9 intraocular pressure and to the treatment of ocular  
10 hypertension.

11 MR. RUZICH: Let's go to the next slide,  
12 Slide 21.

13 Q. (By Mr. Ruzich) Is, quote, twice-a-day topical  
14 administration, end quote, disclosed by DeSantis?

15 A. 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  
18 drops to the affected eye one to two times per day.

19 MR. RUZICH: Let's go to the next slide,  
20 Slide 22, please.

21 Q. (By Mr. Ruzich) Is, quote/unquote, topical  
22 administration of the composition to a person's eye  
23 disclosed by DeSantis?

24 A. Yes, it is.

25 Q. And where?

1           A.    It's disclosed at Column 11, beginning Line  
2 42, which is the claim of the DeSantis patent where the  
3 text reads in part:  Comprises applying topically to the  
4 affected eye a therapeutically effective amount of a  
5 compensation, et cetera.

6           Q.    So with your Claim 1 analysis in mind and now  
7 your analysis you just went through a moment ago, is it  
8 your opinion that DeSantis discloses all the elements of  
9 Claim 4, either explicitly or inherently, of the '463  
10 patent?

11          A.    Yes.

12          Q.    Is it your opinion that DeSantis anticipates  
13 Claim 4 of the '463 patent?

14          A.    Yes.

15          Q.    Okay.  Now let's turn to obviousness here.  
16                Do you have an opinion as to whether Claim 4  
17 is rendered obvious?

18          A.    Yes.

19          Q.    And what is that opinion?

20          A.    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          Q.    And the information that was available to a  
24 person of ordinary skill in the art as of April 2002 --

25          A.    Oh, yes.

1 Q. -- would be --

2 A. Yes.

3 Q. If you can elaborate a little more,  
4 Dr. Laskar.

5 A. I'm sorry. I didn't qualify that. I  
6 apologize.

7 Q. And, again, if you could elaborate a little  
8 bit more.

9 A. And that would be for the -- the first element  
10 of Claim 4. A similar analysis for the second and third  
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  
15 which they would have access would render the other  
16 elements of Claim 4 obvious.

17 Q. Okay. And before we move on to Claim 5 --

18 MR. RUZICH: I'm sorry. Okay. All set?  
19 Okay.

20 Q. (By Mr. Ruzich) Let's now move on to Claim 5  
21 of the '463 patent. It specifically cites --

22 MR. RUZICH: 24.

23 Q. (By Mr. Ruzich) What does Claim 5 recite of  
24 the '463 patent?

25 A. Claim 5 of the '463 patent says: The article



1 of manufacture of Claim 4 wherein the composition is  
2 further -- further comprises from 0.001 to 0.01  
3 Benzalkonium Chloride.

4 Q. And, again, you'll see that Claim 5 depends  
5 from Claim 4?

6 A. I do.

7 Q. And you understand that all limitations of  
8 Claim 4 can now be found in Claim 5?

9 A. Yes, I understand.

10 Q. So does your analysis of Claim 4 still apply  
11 to those same limitations that are incorporated into the  
12 Claim 5?

13 A. Yes.

14 Q. Okay. Is this the same amount of BAK that was  
15 recited in Claim 2 of the '463 patent?

16 A. Yes, it is.

17 Q. And so your analysis of Claim 2 of the '463  
18 patent would be applicable to Claim 5?

19 A. It would be the same.

20 Q. And does DeSantis disclose this range?

21 A. Yes, it does.

22 Q. Where?

23 A. Column 5, beginning at Line 40, and in  
24 which -- there are the -- a number of antimicrobial  
25 preservatives are identified of which Benzalkonium

1 Chloride is the first noted, and then secondarily, with  
2 respect to concentration, DeSantis notes the  
3 concentration to range from .001 to 1%.

4 Q. Does the Timoptic PDR that we looked at  
5 earlier support your opinion that a person of ordinary  
6 skill in the art would have known that the Timolol was  
7 formulated at 0.01%?

8 A. Absolutely. As soon as -- as soon as one  
9 reads DeSantis, they would immediately envision that the  
10 concentration that would be employed would be .01%.

11 MR. RUZICH: Let's go to Slide 26, and  
12 let's wrap this up.

13 Q. (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 Q. In your opinion, does DeSantis anticipate  
18 Claim 5 of the '463 patent?

19 A. Yes, I do.

20 Q. Turning now to the obviousness review, do you  
21 have an opinion as to whether Claim 5 of the '463 patent  
22 is obvious?

23 A. Yes.

24 Q. And what is that opinion?

25 A. My opinion is that DeSantis, together with the

1 person of ordinary skill in April of 2002 and the  
2 information available at that time, would have rendered  
3 Claim 5 obvious.

4 Q. Now let's turn to Claim 6, and we can go to  
5 Slide 27. Can you please read Claim 6 to the Court?

6 A. Claim 6 of the '463 patent states: The  
7 article of manufacture of Claim 5 wherein the  
8 composition further comprises about 0.005% Benzalkonium  
9 Chloride.

10 Q. And as you know, Claim 6 depends from Claim 5,  
11 which in turn depends from Claim 4.

12 Do you see that?

13 A. I do understand that.

14 Q. Okay. And so all the limitations of Claim 4  
15 and 5 can now be found in Claim 6, correct?

16 A. Yes.

17 Q. And does your analysis of Claims 4 and 5 still  
18 apply to those same limitations that are incorporated  
19 now into Claim 6?

20 A. Yes.

21 Q. Okay. Is this the same amount of BAK that was  
22 recited in Claim 3 of the '463 patent?

23 A. Yes.

24 Q. And does DeSantis disclose this amount of BAK?

25 A. Yes, it does.

1 Q. Does the same analysis that we went through  
2 from Claim 3 apply to your analysis of Claim 6?

3 A. My analysis would be identical.

4 Q. Okay. So let's just focus in for a moment  
5 here, because I think it's important that we do, that  
6 with regards to the Alphagan PDR that we looked at  
7 earlier, is it your opinion that a person of ordinary  
8 skill in the art would have known that Brimonidine was  
9 formulated at 0.005% BAK?

10 A. Absolutely, yes.

11 MR. RUZICH: Let's go to the next slide.

12 Q. (By Mr. Ruzich) Dr. Laskar, is it your opinion  
13 that DeSantis discloses all the elements of Claim 6,  
14 either explicitly or inherently, of the '463 patent?

15 A. Yes.

16 Q. And does DeSantis anticipate Claim 6 of the  
17 '463 patent?

18 A. Yes.

19 Q. Turning now to obviousness, do you have an  
20 opinion as to whether Claim 6 is obvious?

21 A. Yes, I do.

22 Q. And what is that opinion?

23 A. 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



1 rendered Claim 6 of the '463 patent obvious.

2 Q. Okay. Just to nail down one fine point here,  
3 I wanted to turn your attention to the PDR label, the  
4 Alphagan label found in the PDR.

5 And as we know, it discloses 0.05 percentage  
6 of BAK, correct?

7 A. 0.005.

8 Q. Correct.

9 How does that disclosure compare to the 0.05%  
10 weight by volume limitations of the claims?

11 A. The -- in Alphagan, the expression is .05  
12 milligrams, which is equivalent to .00 -- and that's  
13 milligrams per ml, which is equivalent to .0005%.

14 Q. Okay. I just want to nail down. We're  
15 dealing with different percentages and --

16 A. 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,  
21 Your Honor, the '258 patent.

22 Q. (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.

1 Q. (By Mr. Ruzich) As I mentioned before, there  
2 was some --

3 MR. RUZICH: If we can go -- hit it  
4 again.

5 A. And I would just mention that this -- this is  
6 formatted in the exact analogous fashion as the summary  
7 chart of the '463 patent.

8 Q. (By Mr. Ruzich) Okay.

9 MR. RUZICH: And can we go to the next  
10 slide?

11 Q. (By Mr. Ruzich) Would you please read Claim 1  
12 of the '258 patent.

13 THE COURT: Well, I'll tell you, I'm  
14 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.

16 COURT SECURITY OFFICER: All rise.

17 (Recess.)

18 COURT SECURITY OFFICER: All rise.

19 THE COURT: Please be seated.

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           Q.     (By Mr. Ruzich) All right. Dr. Laskar, you  
3 earlier testified as to the meaning of article  
4 manufacture in Claim 4, correct?

5           A.     Yes.

6           Q.     And you'll notice in the claim, it also  
7 requires packaging material.

8           A.     Yes.

9           Q.     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  
12 the art would understand an article of manufacture to  
13 mean in 2002?

14           A.     An article of manufacture, when comprising a  
15 packaging material, which is the ophthalmic dropper  
16 bottle, in the vast majority of cases, together with the  
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 --  
21 unit of the product.

22           Q.     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  
25 Timoptic label, correct?

1           A.    The information contained in those monographs  
2 is the information that is contained within that  
3 prescribing information.

4           Q.    Okay.

5           A.    That text.

6           Q.    Okay.

7                       MR. RUZICH:  Let's go to Slide 23,  
8 please.

9                       Your Honor, we had a technical glitch.  I  
10 just want to make certain that these boxes were checked.

11                      THE COURT:  Okay.

12                      MR. RUZICH:  Okay.  Just to make certain,  
13 Your Honor.

14                      THE COURT:  Mr. Davis, I want you to give  
15 me a case, if I fail to check the box.

16                      Go ahead.

17                      MR. RUZICH:  Okay.  I just wanted to -- I  
18 wanted to clarify that.

19                      One more point of clarification, Your  
20 Honor, just so if you're reading the '463 patent, you  
21 should know that there's a certificate of correction  
22 that's attached, and the certificate of correction is  
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,  
2 goodness, the ranges are different from Timolol and  
3 Brimonidine than what we told you here today. So I just  
4 wanted to draw that to the Court's attention.

5           Q.     (By Mr. Ruzich) All right. So let's now jump  
6 to the '258 patent.

7                   MR. RUZICH: And if I could have  
8 Slide 30, please.

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,  
14 right. Thank you. Thanks, Bo.

15           Q.     (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: A  
23 composition comprising 0.2% Brimonidine, paren,  
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  
2 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  
4 question.

5 And for the Court's reference, you'll notice  
6 that we have the '258 patent on the left-hand side of  
7 this demonstrative, and the '463 to the right, and we're  
8 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 A. They are essentially the same, although there  
12 are some slight differences, and those are highlighted  
13 in the right-hand column in which Claim 1 of the '463  
14 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 A. That's correct.

22 Q. Great.

23 Would one skilled in the art interpret these  
24 claims differently?

25 A. No.

1 Q. So does DeSantis in your opinion disclose all  
2 the limitations of Claim 1 either expressly -- or  
3 explicitly or inherently of the '258 patent?

4 A. Yes, it does, for the same reasons that I  
5 indicated for Claim 1 of the '463 patent.

6 MR. RUZICH: Let's go to Slide 32.

7 Q. (By Mr. Ruzich) Dr. Laskar, is it your opinion  
8 that the DeSantis discloses all elements of Claim 1  
9 either inherently or explicitly of the '258 patent?

10 A. Yes.

11 Q. Is it your opinion that DeSantis anticipates  
12 Claim 1 of the '258 patent?

13 A. Yes.

14 Q. Okay. Let's turn now to the obviousness  
15 portion of your opinion.

16 Do you have an opinion as to whether Claim 1  
17 of the '258 patent is rendered obvious?

18 A. Yes, I do.

19 Q. And what is that opinion?

20 A. It is that using DeSantis as well as  
21 information available to a person skilled in the art in  
22 April of 2002, the information that they would have  
23 available would render Claim 1 of the '258 patent  
24 obvious.

25 Q. Okay. And just so I'm clear, your analysis of

1 Claim 1 of the '463 patent is readily applicable to your  
2 analysis for anticipation and obviousness of Claim 1 of  
3 the '258 patent?

4 A. That is correct.

5 Q. Okay. Let's move on now to Claim 2 of the  
6 '258 patent.

7 MR. RUZICH: Next slide, 33, please.

8 Q. (By Mr. Ruzich) Can you please read that claim  
9 to the Court, Claim 2?

10 A. Claim 2 of the '258 patent reads: The  
11 composition of Claim 1 further comprising from 0.001 to  
12 0.01 of Benzalkonium Chloride.

13 Q. And you understand that Claim 2 depends from  
14 Claim 1?

15 A. Yes, I do.

16 Q. And from your earlier understanding, you now  
17 know that all limitations of Claim 1 now appear in  
18 Claim 2?

19 A. Yes.

20 Q. Does your analysis of Claim 1 apply to those  
21 same limitations that are now incorporated into Claim 2?

22 A. Yes.

23 Q. How does Claim 2 of the '258 patent differ  
24 from Claim 2 of the '463 patent?

25 A. I see no difference in the text.



1 Q. Okay. Would one of ordinary skill in the art  
2 interpret these claims differently?

3 A. No.

4 Q. Does DeSantis disclose all limitations of  
5 Claim 2 of the '258 patent?

6 A. Yes.

7 Q. And how did you reach this conclusion?

8 A. By means of the same analysis that I applied  
9 to Claim 2 of the '463 patent.

10 Q. 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?

14 A. Yes.

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 Q. (By Mr. Ruzich) With regards to Dr.  
20 Laskar's -- Dr. Laskar, with regards to your opinion as  
21 to obviousness, with regards to Claim 2 of the '258  
22 patent, do you have an opinion?

23 A. Yes.

24 Q. And what is that opinion?

25 A. That DeSantis as well as information available

1 to a person skilled in the art in April of 2002 would  
2 render Claim 2 of the '258 patent obvious.

3 Q. And is it fair to say, then, that your  
4 analysis of Claim 2 of the '463 patent is also readily  
5 applicable to Claim 2 of the '258 patent?

6 A. Yes.

7 Q. Okay.

8 MR. RUZICH: And if we could check  
9 Claim 2, both those boxes, please.

10 We have a technical glitch, Your Honor,  
11 again, but -- there we go. Fantastic.

12 So let's now move to Slide 35, please.

13 Q. (By Mr. Ruzich) Can you read for the Court  
14 Claim 3, please?

15 A. Yes. Claim 3 of the '258 patent reads: The  
16 composition of Claim 2 comprising about 0.005%  
17 Benzalkonium Chloride.

18 Q. And now do you understand that Claim 3 depends  
19 from Claim 2, which in turn depends from Claim 1?

20 A. Yes, I do.

21 Q. 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?

24 A. Yes, I do understand that.

25 Q. And does your analysis -- based on that

1 understanding, does your analysis of Claim 1 and Claim 2  
2 still apply to those same limitations that are now  
3 incorporated into Claim 3?

4 A. Yes.

5 Q. How does Claim 3 of the '258 patent differ  
6 from Claim 3 of the '463 patent?

7 A. There appears to be no difference.

8 Q. Would one of ordinary skill in the art  
9 interpret these claims differently?

10 A. No, they would not.

11 Q. Does DeSantis disclose all the limitations of  
12 Claim 3 of the '258 patent?

13 A. Yes.

14 Q. And how did you reach that conclusion, sir?

15 A. Using the same analysis that I applied in  
16 analyzing Claim 3 of the '463 patent.

17 Q. Dr. Laskar, is it your opinion that DeSantis  
18 discloses all the elements of Claim 3, either explicitly  
19 or inherently, of the '258 patent?

20 A. Yes.

21 Q. In your opinion, does DeSantis anticipate  
22 Claim 3 of the '258 patent?

23 A. Yes.

24 Q. Turning now to obviousness, do you have an  
25 opinion as to obviousness with regards to Claim 3?

1 A. I do.

2 Q. And what is that opinion?

3 A. My opinion is that DeSantis and information  
4 available to one skilled in the art in April of 2002  
5 would render Claim 3 obvious.

6 Q. And is that conclusion with regards to  
7 anticipation of Claim 3 of the '258 patent -- I'm  
8 sorry -- the '463 patent and your obviousness analysis  
9 of Claim 3 of the '463 patent readily applicable to  
10 Claim 3 of the '258 patent?

11 A. Yes.

12 Q. I hope I said that right.

13 A. I had to parse that kind of carefully.

14 Q. I appreciate it. Okay.

15 MR. RUZICH: Let's move on now to Claim 4  
16 of the '258 patent, Slide 37, please.

17 Q. (By Mr. Ruzich) Okay. Can you read Claim 4 to  
18 the Court, please?

19 A. Yes. Claim 4 of the '258 patent reads: The  
20 composition of Claim 1 wherein Brimonidine is  
21 Brimonidine Tartrate and Timolol is Timolol Maleate.

22 Q. And, again, Claim 4 depends from Claim 1.

23 Do you see that?

24 A. Yes.

25 Q. And do you understand now that all limitations



1 of Claim 1 are now in Claim 4?

2 A. I do.

3 Q. Does your analysis of Claim 1 apply to those  
4 same limitations that are now incorporated into Claim 4?

5 A. Yes, it does.

6 Q. How is this claim different than the other  
7 composition claims that we've been through, such as  
8 Claim 1?

9 A. Claim 4 of the '258 patent makes the  
10 distinction between Brimonidine in general and -- and  
11 defines Brimonidine as being Brimonidine Tartrate, and  
12 in an analogous fashion, defines Timolol as Timolol  
13 Maleate.

14 Q. Okay. What exactly is Tartrate and what  
15 exactly is Maleate?

16 A. Tartrate and Maleate are the counter-ions used  
17 in the formation of a salt of Brimonidine and a salt of  
18 Timolol, respectively.

19 Q. And does DeSantis disclose all limitations of  
20 Claim 4?

21 A. Yes, it does.

22 Q. 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  
2 Brimonidine is referred to, that, in fact, Brimonidine  
3 Tartrate is referred to -- is meant, and that when  
4 Timolol is referred to, that Timolol Maleate is the  
5 object of that referral.

6 Q. Is that knowledge set forth in the  
7 publications we discussed earlier, specifically the PDRs  
8 for the Alphagan and Timoptic labels?

9 A. Yes. Both those pieces of information are  
10 present in the monograph for Alphagan and the monograph  
11 for Timoptic that appear in the PDR.

12 Q. 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 A. Yes.

17 Q. 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 Q. And does DeSantis, in your opinion, anticipate  
24 Claim 4 of the '258 patent?

25 A. Yes.

1 Q. Let's now turn to your obviousness review.

2 Do you have an opinion as to whether Claim 4  
3 is rendered obvious?

4 A. Yes.

5 Q. And what is that opinion?

6 A. That DeSantis, together with information  
7 available to one skilled in the art in April of 2002,  
8 would render Claim 4 of the '258 patent obvious.

9 Q. Okay. And as to your analysis with regard to  
10 anticipation and obviousness of Claim 1 of the '258  
11 patent, would that analysis also be applicable to your  
12 analysis of Claim 4 here?

13 A. Yes.

14 Q. So address Claim 5 of the '258 patent,  
15 Dr. Laskar. What does Claim 5 recite?

16 A. Claim 5 of the '258 patent states: The  
17 composition of Claim 1, which is useful for treating  
18 ocular hypertension.

19 Q. And you notice that Claim 5 depends from Claim  
20 1?

21 A. I do.

22 Q. 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 Q. And does your analysis, Dr. Laskar, of Claim 1  
2 apply to those same limitations that are now  
3 incorporated into Claim 5?

4 A. Yes.

5 Q. Dr. Laskar, in your opinion, does DeSantis  
6 disclose Claim 5?

7 A. Yes, it does. In Column 1, beginning Line 13  
8 where the highlighted -- as indicated in the highlighted  
9 section, treatment of ocular hypertension.

10 Q. And that's Column 1, 13 through 24?

11 A. Yes.

12 MR. RUZICH: Next slide, please.

13 Q. (By Mr. Ruzich) Dr. Laskar, is it your opinion  
14 that DeSantis discloses all the elements of Claim 5,  
15 either inherently or explicitly, of the '258 patent?

16 A. Yes.

17 Q. Does DeSantis anticipate Claim 5, in your  
18 opinion, of the '258 patent?

19 A. Yes.

20 Q. Let's now focus on your obviousness review of  
21 Claim 5.

22 Do you have an opinion as to whether Claim 5  
23 has been rendered obviousness?

24 A. Yes.

25 Q. And what is your opinion?



1           A.     That DeSantis and information available to one  
2 skilled in the art in April 2002 would render Claim 5 of  
3 the '258 patent obvious.

4           Q.     And the knowledge of a person having ordinary  
5 skill in the art at that time was what? Are there any  
6 publications that you can point to that would show what  
7 the knowledge of one of ordinary skill in the art had at  
8 that time?

9           A.     In this case, yes. The information concerning  
10 ocular hypertension is contained within the monographs  
11 for Alphagan and Timoptic, such as those that which --  
12 those that appear in the PDR.

13          Q.     So now let's focus on the Claim 6 of the '258  
14 patent.

15                   Can you please recite the claim for the Court?

16          A.     Claim 6 of the '258 patent reads: The  
17 composition of Claim 1, which is useful for treating  
18 glaucoma.

19          Q.     Okay. And, again, Claim 6 depends from Claim  
20 1, correct?

21          A.     Yes.

22          Q.     And do you understand now that all limitations  
23 of Claim 1 can now be found in Claim 6 of the '258  
24 patent?

25          A.     Yes.

1 Q. And does your analysis of Claim 1 apply to  
2 those same limitations that are incorporated into the  
3 Claim 6?

4 A. Yes.

5 Q. Dr. Laskar, does DeSantis disclose Claim 6?

6 A. Yes, it does. It does so in Column 1,  
7 beginning in Line 13, in which it notes that the  
8 invention relates to the treatment of glaucoma.

9 Q. Okay. And just for the Court's sake, it's  
10 Column 1, Lines 13 through 24?

11 A. Yes.

12 Q. Okay. Thank you.

13 MR. RUZICH: Let's go to the next slide.

14 Q. (By Mr. Ruzich) Dr. Laskar, is it your opinion  
15 that DeSantis discloses all the elements of Claim 6,  
16 either explicitly or inherently, of the '258 patent?

17 A. Yes.

18 Q. Does the DeSantis anticipate Claim 6 of the  
19 '258 patent?

20 A. Yes, it does.

21 Q. And now let's turn to --

22 MR. RUZICH: Put a check in that box.

23 Q. (By Mr. Ruzich) Now let's turn to your  
24 obviousness opinion.

25 Do you have an opinion as to whether Claim 6

1 has been rendered obvious?

2 A. Yes, I do.

3 Q. And what is that opinion?

4 A. My opinion is that DeSantis and information  
5 available to a person skilled in the art in April of  
6 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  
9 more claims to go of the '258 patent.

10 MR. RUZICH: Slide 45, please.

11 Q. (By Mr. Ruzich) And you'll notice, Dr. Laskar,  
12 that Claim 7 is an independent claim.

13 A. Yes, I noticed that. Thank you.

14 Q. Would you please read Claim 7 of the '258  
15 patent for the Court?

16 A. Would you like it in its entirety or  
17 section-by-section?

18 Q. Section-by-section. I think the Court would  
19 appreciate that.

20 A. 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  
23 packaging material.

24 Q. Okay. And we're going to make a comparison to  
25 the Claim 4 of the '463 patent, Dr. Laskar.

1           How does Claim 7 of the '258 patent differ  
2 from Claim 4 of the '463 patent?

3           A.    The first element of Claim 7 of the '258  
4 patent and the first element of Claim 4 of the '463  
5 patent are identical in wording.

6           Q.    And the differences are pointed out by the  
7 bolded language on the right-hand side?

8           A.    Except there is no bolded language in that  
9 particular element.

10          Q.    Okay. Fair -- okay. Fair enough. We'll get  
11 to that in a moment.

12          Q.    Would one of skill in the art interpret these  
13 claims differently?

14          A.    No.

15          Q.    And why not?

16          A.    Because the words are identical in -- in  
17 exactly identical order.

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          A.    It certainly discloses element 1 insofar as  
22 we've analyzed that claim thus far of the '258 patent.

23          Q.    Okay. And what about the other elements?

24          A.    I have -- the second element of Claim 7 has  
25 the -- the difference between that and Claim 4 of the



1 '463 patent are the modifiers about preceding .2% of  
2 Brimonidine, .5% Timolol.

3 And Claim 3 of the -- of Claim -- excuse me --  
4 element 3 of Claim 7 of the '258 patent is identical in  
5 wording to the third element of Claim 4 of the '463  
6 patent.

7 And therefore, my analysis of Claim 4 in its  
8 entirety, as well as of the elements of the '463 patent,  
9 is identical to what I would -- I would apply to Claim 7  
10 in its entirety of the '258 patent.

11 Q. Thank you.

12 MR. RUZICH: Okay. Next slide, please.  
13 Slide 47.

14 Great.

15 Q. (By Mr. Ruzich) Dr. Laskar, is it your opinion  
16 that DeSantis discloses all the elements of Claim 7,  
17 either inherently or explicitly, of the '258 patent?

18 A. 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 A. Yes, I do.

2 Q. And what is that opinion?

3 A. My opinion is that DeSantis and information  
4 available to one skilled in the art in April of 2002  
5 would render all elements of Claim 7 of the '258 patent  
6 obvious.

7 Q. We understand that your analysis that you  
8 applied to Claim 4 of the '463 patent would be readily  
9 applicable to Claim 7 of the '258 patent when discussing  
10 and opining on anticipation, correct?

11 A. 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 Q. (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.

23 Q. (By Mr. Ruzich) Can you read Claim 8 to the  
24 Court, please?

25 A. Yes. Claim 8 of the '258 patent reads: The

1 article of manufacture of Claim 7, wherein the  
2 composition further comprises from 0.001% to 0.01%  
3 Benzalkonium Chloride.

4 Q. Okay. And you notice that Claim 7 depends --  
5 I'm sorry -- Claim 8 depends from Claim 7?

6 A. I do.

7 Q. And do you understand that all the limitations  
8 of Claim 7 are now in Claim 8?

9 A. I do.

10 Q. And does your analysis of Claim 7 (sic) still  
11 apply to the same limitations that are now incorporated  
12 into Claim 8?

13 A. I think you meant to say Claim 8. And my  
14 analysis of Claim 8 of the '258 patent is the same.

15 Q. Thank you.

16 MR. RUZICH: Let's go to the next slide.  
17 Let's go back. I'm sorry. Let's go back to 49.

18 Q. (By Mr. Ruzich) Let's take a look at Claims 8  
19 and 9 of the '258 patent as to the claims of 5 and 6 of  
20 the '463 patent.

21 Would one of ordinary skill in the art  
22 interpret these claims differently?

23 A. Not at all.

24 Q. And does DeSantis disclose all limitations of  
25 Claim 8 of the '258 patent?

1 A. Yes, it does.

2 Q. And how did you reach that conclusions?

3 A. Using the same analysis that I performed on  
4 Claim 5 of the '463 patent, that analysis I applied to  
5 Claim 8 of the '258 patent.

6 Q. Okay. And, Dr. Laskar, is it your opinion  
7 that the DeSantis discloses all the elements of Claim 8?

8 MR. RUZICH: If we could have the next  
9 slide, please.

10 A. Yes.

11 Q. (By Mr. Ruzich) Is it your opinion that  
12 DeSantis anticipates Claim 8 of the '258 patent?

13 A. Yes.

14 Q. Now, let's turn to your obviousness opinion.  
15 Do you have an opinion as to whether Claim 8  
16 has been rendered obvious?

17 A. Yes, I do.

18 Q. And what is your opinion?

19 A. 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 Q. And that information that was available to a  
23 person of ordinary skill in the art as of April of 2002  
24 included the PDRs that we discussed?

25 A. Yes. That would be one of the references they



1 could use.

2 Q. Okay. And to be specific, the PDR of the  
3 Alphagan label?

4 A. It would be the Alphagan monograph and the  
5 Timolol monograph in that volume.

6 Q. And by the Timolol monograph, you're referring  
7 to the Timoptic?

8 A. Yes, Timoptic.

9 Q. I know it's getting late in the day.

10 Claim 9, let's address that next. Can you  
11 please read that for the Court?

12 A. Yes. Claim 9 of the '258 patent reads: The  
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  
18 Claim 7?

19 A. Yes, I do understand that.

20 Q. And does your analysis of Claim 7 still apply  
21 to those same limitations that are incorporated in Claim  
22 9?

23 A. Yes.

24 Q. And let's take a look at Claim 9 of the '258  
25 with Claim 6 of the '463 patent.

1 Do you have that?

2 A. Yes. It's a typo --

3 Q. Yeah.

4 A. -- in that box.

5 Q. Okay. How does Claim 9 compare to Claim 6 of  
6 the '463 patent?

7 A. The wording is identical, except for the  
8 number 7 in Claim 9 of the '258 patent, and 5 in Claim 6  
9 of the '463 patent. But those claim referentials refer  
10 to identical text in their respective documents.

11 Q. Would one of skill in the art interpret these  
12 claims differently?

13 A. No.

14 Q. Does DeSantis disclose all limitations of  
15 Claim 9 in the '258 patent?

16 A. Yes.

17 Q. How did you reach that conclusion?

18 A. 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 Q. (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 A. Yes.

1 Q. And in your opinion, Dr. Laskar, does DeSantis  
2 anticipate Claim 9 of the '258 patent?

3 A. Yes.

4 Q. As to obviousness, have you rendered an  
5 opinion as to Claim 9 of the '258 patent is obvious?

6 A. Yes.

7 Q. And what is that opinion?

8 A. My opinion is that DeSantis and one skilled in  
9 the art, having information available such as that from  
10 the respective monographs of Alphagan and Timoptic,  
11 would render Claim 9 of the '258 patent obvious.

12 Q. Okay. Dr. Laskar, with respect to the '258  
13 patent, you know that that was cited to the Patent  
14 Office, correct? I'm sorry?

15 A. That DeSantis -- the '052 was cited within the  
16 body --

17 Q. Let me rephrase. You know that DeSantis was  
18 cited to the Patent Office during the prosecution of the  
19 '258 patent, correct?

20 A. Yes, I do.

21 Q. 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 A. I am aware of that.

25 Q. As to the '258 patent, as to the fact that

1 DeSantis was provided to the Patent Office, does it  
2 impact your opinion as you testified in Court today?

3 A. Not at all.

4 Q. Okay.

5 MR. RUZICH: I just have a couple of  
6 wrap-up questions, Your Honor.

7 Q. (By Mr. Ruzich) Dr. Laskar, have you read  
8 Dr. Noecker's reports?

9 A. I have.

10 Q. And have you read what Dr. Noecker -- have you  
11 read what Noecker defines as a person of ordinary skill  
12 in the art?

13 A. I have.

14 Q. And do you agree with his statements regarding  
15 the level of knowledge of one skilled in the art?

16 A. I do not.

17 Q. And why is that?

18 A. I believe that Dr. Noecker does not give  
19 sufficient credit to a person skilled in the art at the  
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,  
24 cross-examination?

25 MS. BROOKS: Thank you, Your Honor.



CROSS-EXAMINATION

1  
2 BY MS. BROOKS:

3 Q. Good afternoon, Dr. Laskar.

4 A. Good afternoon, Ms. Brooks.

5 Q. Am I correct, if I did my math right, that you  
6 have not worked for Allergan for approximately 18 years?  
7 Is that right?

8 A. That sounds about right, yes.

9 Q. And since that time, you've worked for various  
10 startup companies at various points in your career?

11 A. I hardly describe Santen or Dey as startup  
12 companies. They're very well-established. Santen, I  
13 think, began business early in the 20th century. Dey  
14 began business in the late 1980s.

15 Q. I'm sorry. Perhaps you misunderstood my  
16 question.

17 Dr. Laskar, have you worked for various  
18 startup companies during the course of your career?

19 A. Yes.

20 Q. Okay. And I think you told us about some of  
21 them on direct examination; is that right?

22 A. Yes.

23 Q. 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 Q. Laskar Associates. And are you also on the  
3 management board for a company called Amalyte  
4 Pharmaceuticals?

5 A. I am.

6 Q. And is that also a startup company?

7 A. Yes, it is.

8 Q. Are you also on the management board of a  
9 company called G2B Pharmaceuticals?

10 A. Yes, I am.

11 Q. And is that also a startup company?

12 A. Yes, it is.

13 Q. Now, both of those companies have scientific  
14 advisory boards, but you are not on their scientific  
15 advisory boards, correct?

16 A. That is correct.

17 Q. 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 A. I have assisted one company.

22 Q. And, in fact, is it fair to say, Dr. Laskar,  
23 that the only combination ophthalmic glaucoma treatment  
24 that you have worked on was a generic version of Cosopt?

25 A. No, that's not correct.

1 Q. So at your deposition, when you were asked  
2 this question -- it's at Page 17, Line 18:

3 So then, Dr. Laskar, is it correct that the  
4 only combination ophthalmic glaucoma treatment that you  
5 worked on was the generic version of Cosopt?

6 And your answer was: Yes.

7 Was that inaccurate?

8 A. Yes, that was.

9 Q. So you want to change that answer to no?

10 A. Yes.

11 Q. All right. Have you worked on other generic  
12 versions of other combination ophthalmic products?

13 A. No.

14 Q. 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 A. No.

18 Q. Okay. What other combination ophthalmic  
19 glaucoma treatments have you worked on?

20 A. 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.

24 Q. Did that ever make it to market?

25 A. No, it did not.

1 Q. Now, when you're assisting a generic in the  
2 case of the generic who was copying Cosopt, you would  
3 agree that the formulation, then, had already been  
4 achieved by the branded company, correct?

5 A. The formulation had been achieved by the  
6 branded company, that's correct.

7 Q. And you would agree that the branded or the  
8 innovator company had already gone through its  
9 preformulation efforts, correct?

10 A. Yes.

11 Q. And the innovator company would have already  
12 gone through its formulation efforts, correct?

13 A. That is correct.

14 Q. And it would have already gone through its  
15 Investigational New Drug Application, correct?

16 A. Yes.

17 Q. It would have already gone through its Phase 1  
18 clinical trials, correct?

19 A. Yes.

20 Q. It would have gone through its Phase 2  
21 clinical trials, correct?

22 A. That's correct.

23 Q. It would have gone through its Phase 3  
24 clinical trials, correct?

25 A. That is correct.



1 Q. It would have already submitted its New Drug  
2 Application to the Food and Drug Administration,  
3 correct?

4 A. Of course.

5 Q. And it would have already received approval  
6 for that drug, correct?

7 A. Yes.

8 Q. And so would you agree with me, Dr. Laskar,  
9 that when working for a generic who is copying an  
10 innovator's formulation, that hindsight is 20/20?

11 A. It is -- no, I would not agree with that.

12 Q. Would you agree that it's a lot easier to be  
13 able to just copy an innovator's formulation than to  
14 have to start from scratch?

15 A. Yes, I would agree with that.

16 Q. Now, let's turn to your analysis in this case  
17 of the Timolol and Brimonidine combination that is  
18 Combigan. You started your testimony by showing us a  
19 page from your expert report, DTX98, and specifically  
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  
24 chart that you showed us.

25 Q. (By Ms. Brooks) Now, on this chart, this is

1 showing Timoptic in one column and Alphagan in another  
2 column; is that correct?

3 A. Yes.

4 Q. And it appears that the buffer in Timoptic is  
5 something called a monobasic and dibasic sodium  
6 phosphate; is that right?

7 A. Those are the components of that buffer  
8 system.

9 Q. The buffer system for Alphagan was a citric  
10 acid and sodium citrate, correct?

11 A. Yes, it is.

12 Q. And as a formulator, you would agree that  
13 those are two different buffer systems, are they not?

14 A. Yes, they are.

15 Q. 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 A. It depends on the ratio of those two phosphate  
19 salts, sodium phosphate --

20 Q. 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 Q. And you would agree as a formulator that the  
25 Alphagan formulators must have chosen the citric acid

1 and sodium citrate buffer for a reason?

2 A. Yes.

3 Q. Now, we move down to the BAK. In Timoptic,  
4 the amount of BAK was .01%, correct?

5 A. That is correct.

6 Q. And in Alphagan, the amount of BAK was .005%,  
7 correct?

8 A. That is correct.

9 Q. 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  
14 is cytotoxicity to BAK; is that right?

15 A. Yes.

16 Q. And so, one, as a formulator, you would want  
17 to try to use the lowest amount of BAK possible.

18 Would that be a fair statement?

19 A. That's what I've said before, yes.

20 Q. And so we can assume that the formulators of  
21 Timoptic used the .01% BAK, because they believe that  
22 that was necessary for that formulation.

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

1 can't get inside the Merck formulator's head.

2 Q. Now, if it we come down to the tonicity agent,  
3 for Timoptic, there is no tonicity agent; is that right?

4 A. There is no tonicity agent.

5 Q. But for Alphagan, there is a tonicity agent  
6 called sodium chloride; is that correct?

7 A. Correct.

8 Q. And, again, as a formulator, I think you  
9 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 A. That is correct.

13 Q. So the fact that there is this tonicity agent  
14 in Alphagan would lead you as a formulator to believe  
15 that it is there for a reason; is that right?

16 A. Yes, it would have to be there for a reason.  
17 Otherwise, it would not be there.

18 Q. And there is under viscosity agent in the  
19 Timoptic formulation, there's nothing listed under  
20 viscosity agent; is that right?

21 A. Not in Timoptic. That's correct.

22 Q. But in Alphagan, there's polyvinyl alcohol  
23 listed; is that correct?

24 A. Yes, there is.

25 Q. And, again, as a formulator wanting to use the



1 least amount of excipients possible, you would agree  
2 that the formulators of Alphagan must have been using  
3 polyvinyl alcohol for a reason?

4 A. Yes, absolutely.

5 Q. And then we come down to the pH adjusting  
6 agent, and both Timoptic and Alphagan have pH adjusting  
7 agents of sodium hydrochloride, or in the case of  
8 Alphagan, also hydrochloric acid?

9 A. I think you misstated. Within Timoptic it's  
10 sodium hydroxide, not hydrochloride.

11 Q. My apologies. You're right. It is late in  
12 the day for everybody.

13 Timoptic has sodium hydroxide as a pH  
14 adjusting agent; is that right?

15 A. Yes.

16 Q. And Alphagan also has sodium hydroxide as a pH  
17 adjusting agent, correct?

18 A. It has sodium hydroxide as one of the pH  
19 adjusting agents, yes.

20 Q. Correct. And it says: Or hydrochloric acid;  
21 is that right?

22 A. Yes. And actually, I think there may be a  
23 typo there, because I believe the labeling may say  
24 and/or.

25 Q. So it could be both. In fact, the

1 hydrochloric acid and the sodium hydroxide might be  
2 present in the Alphagan formulation?

3 A. In one batch and it may be one or the other in  
4 another batch. I can't postulate what happens in the  
5 manufacturing for Allergan.

6 Q. 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  
9 began their formulation efforts?

10 A. I would hope so.

11 Q. And you would agree that the formulators of  
12 Combigan would have been aware of the excipients  
13 contained in Timoptic when they began their formulation  
14 efforts?

15 A. They would have known at least the qualitative  
16 version, and perhaps more, given the generic version of  
17 Timolol, that Allergan, through their specific pharma  
18 markets are marketed.

19 Q. Now, let's talk for a minute about pH. You  
20 don't have this in your report, but the pH of Timoptic,  
21 the target pH, is approximately 7; is that right?

22 A. That's correct.

23 Q. And that is right at neutral on the pH scale;  
24 is that correct?

25 A. As you instructed us yesterday.

1 Q. And did I get it right?

2 A. As you instructed, so, yes, you were right.

3 Q. Thank you. I just like people to say that.

4 Alphagan, the pH of Alphagan is 6.3; is that right? The  
5 target pH?

6 A. No. It appears -- as I read the label, that  
7 the lower limit of the target is 6.3, and the upper is  
8 6.5 or 6.6. I don't recall exactly.

9 Q. All right. So there is a range of pH for  
10 Alphagan; is that right?

11 A. That's what I recall from the labeling.

12 Q. And it's a range of probably 6.3 to 6.5. Does  
13 that sound about right?

14 A. You probably have better access to that  
15 information immediately than I do, so I'll accept that.

16 Q. And you would agree that those are two  
17 different pHs, 7.0 versus 6.5 or 6.3?

18 A. Absolutely.

19 Q. And was I -- was I right that the pH scale is  
20 a log scale?

21 A. 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 Q. Okay. What would be the difference between

1 6.3 and 7?

2 A. About fivefold.

3 Q. A fivefold difference?

4 A. Yes.

5 Q. What would be the difference between 6.5 and  
6 7?

7 A. About three or fourfold.

8 Q. So we have anywhere from a three to fourfold  
9 to a fivefold difference between the two pHs in this  
10 case; is that right?

11 A. Yes. That's what I said.

12 Q. And, again, the formulators would be aware of  
13 that, also?

14 A. 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  
18 of the eye as possible?

19 A. Other things being equal, yes.

20 Q. 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 A. I don't know that with certainty, given the  
25 information that in 2001 or 2002 would have been



1 available, I believe, publicly and certainly within the  
2 frame -- the laboratories of Allergan.

3 Q. Well, at the time that Alphagan was  
4 formulated, the conventional thinking was that  
5 Brimonidine would fall out of solution at higher pHs;  
6 isn't that right?

7 A. I don't know that that's common knowledge.

8 Q. Do you know that?

9 A. Do I know that?

10 Q. Yes.

11 A. 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 Q. Well, we're talking now about -- we're going  
15 to get to Alphagan-P in a minute. We're talking  
16 about --

17 A. No, I'm talking about Alphagan.

18 Q. Pardon me?

19 A. I am talking about Alphagan.

20 Q. Would you agree that Alphagan was indeed,  
21 though, formulated at a pH of approximately 6.3 to 6.5?

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?

1 A. Somewhat.

2 Q. And Alphagan-P does not use BAK as a  
3 preservative; is that correct?

4 A. Yes, that is correct.

5 Q. It uses Purite as a preservative, correct?

6 A. Yes, it does.

7 Q. But the active ingredient in Alphagan-P is  
8 Brimonidine; is that right?

9 A. Brimonidine Tartrate, yes.

10 Q. And it is the same active ingredient that is  
11 in Combigan, correct?

12 A. Yes, it is.

13 Q. And were you here when Mr. Beck testified that  
14 the formulators of Combigan attempted to use Purite as  
15 the preservative in Combigan?

16 A. Yes.

17 Q. And were you here when Mr. Beck testified that  
18 those formulation efforts failed?

19 A. Yes.

20 Q. 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 A. Yes.

24 Q. And as a formulator, you are familiar with  
25 that type of phenomenon occurring, are you not?

1 A. I am.

2 Q. Where you might put two ingredients together  
3 and together something happens that wouldn't -- wouldn't  
4 occur if you kept them apart?

5 A. I think in the -- in this particular case that  
6 given the information that would be publicly available,  
7 that that reaction would have been one that one would be  
8 suspicious about; that is, that there would be the  
9 suspicion that that could happen.

10 Q. So the formulators at Allergan were just  
11 wasting their time when they tried to formulate Timolol  
12 and Purite?

13 A. No, I did not say that.

14 Q. Well, you seem to have quite a working  
15 knowledge of Brimonidine, where it does or doesn't fall  
16 out of solution.

17 But isn't it true, sir, you don't have any  
18 experience working with Brimonidine?

19 A. Not in a hands-on fashion. That is absolutely  
20 correct.

21 Q. And, in fact, you don't have any experience  
22 working with Alpha-2 adrenergic agonists; is that  
23 correct?

24 A. Given that Brimonidine is -- is -- occupies  
25 90-plus percent of the market, then you are absolutely

1 correct.

2 Q. Well, you don't have any hands-on experience  
3 working with Apraclonidine, do you?

4 A. No. You're correct. I was being a little bit  
5 facetious.

6 Q. Now, you said on direct examination that in  
7 looking at the patents, the formulators appear to have  
8 no problems in formulating, and then you said this  
9 formulation, and you were pointing to the formulation in  
10 the patent; is that right?

11 A. Yes.

12 Q. Now, when you say, in looking at the patent,  
13 you're talking about then starting with the patent and  
14 confining your observations to the patent to determine  
15 whether or not there appear to be formulation problems;  
16 is that right?

17 A. 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  
21 efforts on Combigan, did you?

22 A. I would have no way of having access to that  
23 information.

24 Q. Well, actually, aren't you, Dr. Laskar,  
25 approved under the protective order in this case?



1           A.    I -- I -- when I speak of that, I speak of  
2 that as a formulator outside the realm of this  
3 particular -- and I did not -- I did not have -- I was  
4 not given access to the notebooks.

5           Q.    My question, Dr. Laskar, was -- is it your  
6 understanding you're approved under the protective order  
7 in this case to see Allergan confidential information?

8           A.    Yes.

9           Q.    And --

10          A.    That's my understanding.

11          Q.    I take it you didn't ask to see the lab  
12 notebooks?

13          A.    That would be correct.

14          Q.    Okay. So it's not like you asked and your  
15 counsel refused to let you see them?

16          A.    That's correct.

17          Q.    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          A.    Yes, it is.

21          Q.    Now, if we look at JTX3, which is the '463  
22 patent -- and specifically at the bottom of Column 3 and  
23 over to the top of Column 4, is the formulation that you  
24 referred to.

25                   Do I have that right, Dr. Laskar?

1           A.    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           Q.    Okay.  So it's -- the same table appears in  
5 both patents you're opining on; is that right?

6           A.    That's correct.

7           Q.    And you refer to this as the starting  
8 formulation, if I heard you correctly.

9           A.    I -- I said what -- no, I don't think -- I may  
10 have misstated or perhaps you misheard.

11                    What I said was, as a formulator of a fixed  
12 combination of Brimonidine and of Timolol, I would start  
13 with one of the monotherapies.  And my first preference  
14 would be to start with the monotherapy whose formulation  
15 had the fewest number of excipients, and by virtue of  
16 that assessment, I would have started with the Timolol  
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           Q.    Well, you were here when Mr. Beck testified,  
25 were you not?

1 A. I was.

2 Q. And did you hear Mr. Beck testify about the  
3 formulator's efforts in using Synergel as a vehicle in  
4 Combigan?

5 A. Yes.

6 Q. And you heard how those efforts failed?

7 A. Yes.

8 Q. Did you hear Mr. Beck testify about using  
9 their efforts to use Purite as the preservative in what  
10 would become Combigan and how those efforts failed?

11 A. Yes.

12 Q. Did you hear Mr. Beck testify on how the  
13 formulators attempted to use carboxymethylcellulose in  
14 the formulation and how those efforts failed?

15 A. Yes.

16 Q. 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 A. 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 Q. I think you answered my question, actually.

2 A. Okay. Fine. Thank you.

3 Q. So, Dr. Laskar, you did see Mr. Beck put up on  
4 the screen, lab notebooks that showed tests of various  
5 formulations at various pHs, did you not?

6 A. Yes, I did.

7 Q. Okay. And you also saw Mr. Beck put up on the  
8 screen various tests that showed different amounts of  
9 BAK being tested, correct?

10 A. Yes.

11 Q. And you also heard Mr. Beck testify that even  
12 after they went through the Synergel formulation, the  
13 Purite formulation, the CMC formulation, and decided on  
14 the aqueous formulation, they found that unique  
15 degradants were appearing.

16 Q. You heard Mr. Beck testify about that,  
17 correct?

18 A. I did.

19 Q. And that they had to stop moving forward on  
20 the project until they could determine whether or not  
21 those degradants were toxic.

22 A. I heard -- I heard that they needed to do some  
23 work to evaluate the impact of those degradants, yes, I  
24 did.

25 Q. Now, you would have only known about all of



1 that listening to Mr. Beck here in the courtroom,  
2 correct?

3 A. Yes.

4 Q. Because you didn't go through the lab  
5 notebooks prior to rendering your opinion in this case;  
6 is that right?

7 A. That's correct. That's correct. Sorry to  
8 step on your words.

9 Q. Now, you also mentioned, in relation to the  
10 '463 patent, that there was nothing in the claims about  
11 the FDA. Did I hear that correctly?

12 A. Yes.

13 MS. BROOKS: Now, if we could pull up,  
14 please, Claim 4 of the '463 patent, which is going to be  
15 at the top of Column 10.

16 Q. (By Ms. Brooks) Now, this claim doesn't go  
17 specifically to a composition, does it?

18 A. 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 A. It -- as I read it, it refers to both an  
22 article of manufacture and a composition.

23 Q. And a composition within the packaging  
24 material; is that right?

25 A. That is contained within the packaging

1 material.

2 Q. And you've described the packaging material as  
3 being not only the box and the label but what's called  
4 the package insert; is that right?

5 A. Yes.

6 Q. And you are aware, are you not, as a  
7 formulator that eventually, before a package insert can  
8 get to market, that package insert or label, as we call  
9 it, has to be approved by the FDA.

10 MR. RUZICH: Objection, Your Honor. It's  
11 outside the scope of his expert report. He's not an  
12 expert on FDA approval.

13 THE COURT: Overruled. It's  
14 cross-examination. Go ahead.

15 Q. (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  
18 not, in fact, a label has to be approved by the FDA?

19 A. It is my understanding that the text of the  
20 label is a requirement for FDA approval.

21 Q. And then the '258 patent, I think you said the  
22 same thing, that you didn't see anything in the claims  
23 that would involve the FDA. But if we can go to JTX4  
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

1 label, correct?

2 A. Yes.

3 Q. And it is your understanding that at some  
4 point in time, the FDA would need to approve the  
5 contents of that label, correct?

6 A. What I -- what I said was that they need to  
7 approve the text of that label. The fact that a label  
8 and package insert is used is -- is a requirement for  
9 usual pharmaceuticals, whether it be ophthalmic or  
10 otherwise. It is merely the words contained therein  
11 that have FDA review.

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,  
17 under References Cited.

18 Q. (By Ms. Brooks) The fifth reference down is  
19 the DeSantis reference upon which you base your  
20 anticipation opinion, correct?

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.

1 Q. And so we know that the Examiner had DeSantis  
2 before him at the time that he approved Claims 1 through  
3 9 of the '278 patent, correct?

4 A. Yes.

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  
8 that I asked Dr. Tanna, but just very quickly, would you  
9 agree that DeSantis discloses 56 beta-blockers?

10 A. If that's the number that you've counted, I  
11 agree with it.

12 Q. Would you agree that DeSantis discloses 18  
13 alpha-agonists?

14 A. If you counted it to be that, I accept your  
15 counting.

16 Q. And then would you agree that DeSantis  
17 incorporates by reference Timmermans?

18 A. Yes, absolutely.

19 Q. And would you agree that Timmermans discloses  
20 197 alpha-agonists?

21 A. That's what they -- a counting does, yes.

22 Q. And that Timmermans is not discussing the  
23 reduction of intraocular pressure, correct?

24 A. It does not.

25 Q. What it is disclosing is the use of



1 alpha-agonists for cardiovascular use; is that right?

2 A. Let me read the title again.

3 Q. And if you would like to look at DTX124,  
4 that's Timmermans, specifically at Bates Stamp No. 210.

5 A. Right. As I read the title of -- and it's  
6 Bates 210, yes -- Roman IV: Structure-Activity  
7 Relationships in Clonidine-Like Imidazolidines and  
8 Related Compounds.

9 I don't see that the title refers to  
10 cardiovascular effects.

11 MS. BROOKS: Well, if we can blow up, it  
12 will say -- actually, it's up higher. It should say:  
13 The first part of this charter deals with the  
14 structure-activity relationship --

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. Ah,  
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.

22 So what Timmermans was looking at was arterial  
23 pressure; is that correct?

24 A. With Clonidine in that quote -- or in that  
25 piece of text, yes.

1 Q. And also intravenous administration, correct?

2 A. Yes. That's what he was talking about.

3 Q. Would you agree also that DeSantis discloses  
4 nine preservatives?

5 A. Yes, that sounds about right.

6 Q. Now, Counsel, on direct examination, said:  
7 Well, you're not here to do math, Dr. Laskar, and you  
8 admitted that there could be, if you looked at all these  
9 various combinations, literally millions of combinations  
10 that one could take away from DeSantis in light of  
11 Timmermans.

12 A. Depending on how you -- what items you put  
13 together, yes.

14 Q. 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?

18 A. When considered -- when done under the view of  
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 Q. Well, you understand that for an anticipation  
25 reference, all of the elements of the claims must be

1 present in one reference --

2 A. Yes, I do.

3 Q. -- or a reference incorporated by -- by  
4 reference, for example, Timmermans, correct?

5 A. Yes.

6 Q. So for your anticipation analysis, you  
7 understand that one could not look to the Alphagan label  
8 or the Timolol label. You understand that?

9 A. Yes. Perhaps I misunderstood your question,  
10 but I thought I heard the word obviousness within the  
11 text of that question.

12 Q. Okay. What I asked you was: Did I hear you  
13 correctly that DeSantis discloses only one potential  
14 combination, Brimonidine and Timolol?

15 A. It -- it -- it is the combination of an  
16 alpha-agonist and Timolol that it discloses, yes.

17 Q. 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 Q. (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 A. It is.

25 Q. And the --

1 A. And the leading text says: It is typical of  
2 aqueous ophthalmic solutions of the present invention.

3 Q. And the only formulation disclosed in DeSantis  
4 is a formulation combining Apraclonidine and Betaxolol;  
5 is that correct?

6 A. That is the text -- that is the only example  
7 that it gives of -- wherein a quantitative description  
8 is provided.

9 Q. Thank you.

10 Let's turn now to your opinions regarding the  
11 amount of BAK as disclosed in the claims.

12 MS. BROOKS: Mr. Exline, if you could  
13 pull up Slide 12 of Dr. Laskar's.

14 Q. (By Ms. Brooks) Now, you showed this to the  
15 Court, and even though DeSantis discloses a very wide  
16 range of BAK, from .001% to 1.0% by weight, that -- I  
17 think your words were, a person of skill in the art  
18 would go immediately to the .01% in Claim 2 for the BAK  
19 in the formulation; is that right?

20 A. That's what I said.

21 Q. Now, let's go back and look at Slide 10 that  
22 was used in opening statement.

23 MS. BROOKS: And if you could,  
24 Mr. Exline. No. This is -- oh, I'm sorry. In  
25 Defendants' opening statement. Or I can try to go to



1 the ELMO, if we can't find it. There we are.

2 Q. (By Ms. Brooks) Now, this is a chart that you  
3 prepared; is that right?

4 A. Yes, it is.

5 Q. And if I look here, I see that Travatan has a  
6 BAK of .015; is that right?

7 A. Yes.

8 Q. And would you agree with me that that is more  
9 than .01?

10 A. Yes.

11 Q. And do I see that Xalatan has a BAK of .02?

12 A. Yes.

13 Q. And would you agree with me that that is more  
14 than .01?

15 A. Yes.

16 Q. Lastly, Dr. Laskar, I want --

17 MS. BROOKS: Thank you.

18 Q. (By Ms. Brooks) Lastly, I just want to make  
19 sure I understand your obviousness opinion.

20 Is it your opinion that because Brimonidine  
21 was already on the market as Alphagan and Timolol was  
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 A. It would be obvious to be motivated to put

1 those two drugs together in a single formulation.

2 Q. And are you saying that when that is done,  
3 then those claims are not new or novel or inventive?

4 A. That -- that having -- can you rephrase the  
5 question?

6 Q. Sure. Are you saying that just because  
7 Alphagan was already on the market as a monotherapy and  
8 Timolol was already on the market as a monotherapy, the  
9 fact that the formulators were able to put them together  
10 in one bottle and the clinicians were able to get FDA  
11 approval for that, that that was still not new or novel  
12 or nonobvious?

13 A. The -- the fact that you have monotherapy of  
14 Alphagan, monotherapy of Timoptic would motivate one to  
15 put those -- those two together and that having achieved  
16 that is -- is a matter of routine experimentation and  
17 not -- and not a matter of -- of supreme creativity or  
18 extraordinary creativity as a part -- the creativity  
19 required is no more than that which would be required of  
20 a person of ordinary skill in the art --

21 Q. So, Dr. Laskar, I take --

22 A. -- in putting that formulation together, is  
23 my --

24 Q. I take it, sir, that you would not claim that  
25 something was new and novel and non-obvious if you

1 didn't think that it was; would that be fair?

2 A. I think -- I think that's fair, yes.

3 Q. You certainly wouldn't sign a declaration of  
4 inventorship that something was new and novel and  
5 non-obvious if you didn't believe that it was new and  
6 novel and non-obvious; is that fair?

7 A. Yeah, that is fair.

8 Q. So let me ask you this, Dr. Laskar: Have you  
9 ever heard of an acne treatment that is made up of  
10 Benzoyl Peroxide?

11 A. Yes.

12 Q. Have you ever heard of an acne treatment that  
13 is made up of Clindamycin?

14 A. In a combination, yes.

15 Q. Well, I'm not getting to combination yet.

16 A. As individual agents, yes, absolutely. I  
17 thought I heard the word and in there.

18 Q. So you've heard way back when -- let's see --  
19 all the way back in 1992, you're familiar -- you were  
20 familiar with the fact that Benzyl Peroxide was being  
21 used as a monotherapy for the treatment of acne,  
22 correct?

23 A. That is correct.

24 Q. 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 A. That is correct.

3 Q. Yet you and your fellow inventor, Dr.  
4 Nadkarni, filed a patent where you claimed: A method of  
5 treating acne vulgaris in human patients comprising  
6 topically administering to said patients a composition  
7 comprising a therapeutically effective amount of Benzyl  
8 Peroxide and Clindamycin; is that correct?

9 A. Yes, it is.

10 Q. And you believed at the time that your ability  
11 to combine those two monotherapies was new and novel and  
12 patentable, correct?

13 A. Yes, I -- I did and I do, inasmuch as there  
14 were some formulation hurdles in order to stabilize the  
15 Clindamycin in the presence of the Benzyl Peroxide.

16 Q. But you don't discuss those formulation  
17 hurdles in your patent application, do you, sir?

18 A. No, I did not. I guess that's the way  
19 Allergan chooses to write their patents.

20 Q. 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 Q. Dr. Laskar, do ophthalmic drugs in Europe  
2 contain labels?

3 A. Yes. There is -- there is a patient leaflet.  
4 My recollection of the information that's provided in  
5 European products is slightly different than the  
6 information contained in the U.S. one, but it is -- it  
7 contains information about the composition and the  
8 manner of use of the product.

9 Q. Okay. So the labeling requirement, if there  
10 is one, would not be limited to the United States,  
11 correct?

12 A. Absolutely not.

13 Q. Okay. And then based on your experience, is  
14 it at all unusual to try parallel formulations along  
15 with simpler formulations?

16 A. Depends on the intent, but yes. It is  
17 routine, in my opinion, to take several formulations  
18 forward. Hopefully, if you have manpower enough in  
19 parallel in order -- because it is routine and normal  
20 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 Q. 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 A. 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  
7 that Allergan appears to be prosecuting it.

8 Q. 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  
18 in April of 2002, that one of ordinary skill in the art  
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  
22 it's a parallel term or an analogous --

23 THE COURT: I want to know what you meant  
24 when you kept using the term immediately --

25 THE WITNESS: That the information --

1 that the information -- if -- if -- if somebody referred  
2 Alphagan to me, it would, to me, cause me to think  
3 Brimonidine .2%, that's a citrate buffer, the polyvinyl  
4 alcohol for corneal residence and Benzalkonium Chloride  
5 as a preservative. That's what -- those are pieces that  
6 would come popping up immediately.

7 THE COURT: Okay. Thank you.

8 THE WITNESS: You're welcome.

9 THE COURT: You may step down.

10 MR. RUZICH: Your Honor, just to clarify,  
11 we're holding Dr. Laskar for potential rebuttal.

12 THE COURT: Okay. Who's your next  
13 witness?

14 MR. DAVIS: Your Honor, at this time, the  
15 Defense rests.

16 THE COURT: Okay. How much more you got,  
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

1 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  
4 into our rebuttal case, and we have two witnesses we  
5 will be calling, I believe.

6                   And so I would think we would be about --  
7 I don't want to underestimate -- a couple of hours, Your  
8 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.)

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CERTIFICATION

I HEREBY CERTIFY that the foregoing is a true and correct transcript from the stenographic notes of the proceedings in the above-entitled matter to the best of my ability.

/s/\_\_\_\_\_  
SUSAN SIMMONS, CSR  
Official Court Reporter  
State of Texas No.: 267  
Expiration Date: 12/31/12

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Date

/s/\_\_\_\_\_  
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