

Nevyas, M.D.

1 have to deal with a hard cataract. You deal
2 with a very soft lens, which can essentially
3 usually just be aspirated without having to
4 break it up by ultrasound, and I've done a
5 great many cataracts over the years. I guess
6 maybe 30,000 or so, probably more than anybody
7 else in the Delaware Valley. I've lectured on
8 cataract. I've devised instrumentation for
9 lens surgery, cataract surgery -- they're the
10 same thing -- and I have been very active in
11 it. That's what most of my work has been over
12 the years.

BY MR. KAFRISSEN:

13 Q. Okay. Can you describe for me your training in
14 performing the Lasik procedure.

15 A. The training for the Lasik procedure, I guess,
16 would have to start with training in automated lamellar
17 keratoplasty, or ALK. Since that operation which we
18 began doing -- I'm not sure of the date, I think in the
19 early '90s, '91 or so or '92, perhaps, is the same as
20 Lasik except that a mechanical device is used for
21 removing the portion of the cornea that gives the power
22 change in the cornea rather than a laser, and I took a
23 mini fellowship with Doctor Steven Slade, S-L-A-D-E. I
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1 attended lectures by Doctor Louis Ruiz, R-U-I-Z, and he
2 is essentially the inventor of the procedure, and I
3 attended many medical meetings involving ALK. I trained
4 in Lasik by attending many fellowships with several
5 different doctors. I spent time with Doctor Delaney in
6 Phoenix and with Doctor Hollace in Columbia -- Columbus,
7 Georgia, Columbus, Georgia. And I've attended many
8 meetings and worked with my colleagues on it, and I've
9 done a lot of reading and work in the field.

10 The Lasik procedure and the ALK
11 procedure are the same except for the use of the laser to
12 remove the tissue that makes the power difference.

13 Actually, Lasik is a much easier operation than ALK.

14 Q. When did you begin doing ALK on your own?

15 A. I would guess around '91 or '92, but I'm not
16 sure.

17 Q. Do you have any subspecialty within
18 ophthalmology?

19 A. I would consider my subspecialty cataract and
20 refractive.

21 Q. Okay. So from the early '90s through -- was
22 there -- when did you start to perform Lasik?

23 MS. POST: When did he start the
24 training or when did he start to do it on his
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1 own?
2 MR. KAFRISSEN: No. When did he start
3 to perform it himself?

4 THE WITNESS: I believe it was in 1996,
5 but I may have that note in my bag, if you
6 want me to review it. I wrote down a few
7 dates to remind myself of dates. If you want,
8 I'll check it.

9 MR. KAFRISSEN: Okay.

10 MS. POST: Why don't you do that.

11 THE WITNESS: December of '95 I started
12 using the laser.

BY MR. KAFRISSEN:

13 Q. Now, of the Lasik procedures, from my review of
14 the records, it looked like you had assisted in some of
15 the Lasik procedures and the enhancement procedures that
16 were done on Cheryl Fiorelli but had not been the primary
17 surgeon; is that right?

18 A. Yes.

19 Q. And is that correct for all -- were there any
20 Lasik procedures where you were the primary surgeon with
21 regard to Cheryl Fiorelli?

22 A. No.

23 Q. Okay. With regard to the ALK procedure that
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1 you describe, which is kind of a precursor, it sounded
2 like, to Lasik, was corneal thickness ever a concern in
3 performing an ALK procedure?

4 A. Sure. Concern, yes.

5 Q. Can you describe for me what significance, if
6 any, corneal thickness had to the ALK procedure.

7 A. If the cornea were extremely thin, one might
8 get progressive change and progressive hyperopia after
9 surgery. There were two ALK procedures: one for myopia,
10 which is the same as Lasik, essentially, except that the
11 second cut is made with the microkeratome to remove
12 tissue; and the other procedure was a microkeratome
13 procedure for hyperopia where you make a very deep cut;
14 and the thickness of the cornea is important there
15 because you can only take a certain percentage of the
16 cornea for the deep cut without getting progressive
17 hyperopia. This really doesn't apply to the Lasik
18 procedure, but we have to be careful of that because the
19 principle of the hyperopic ALK procedure is that of a
20 controlled ectasia of the cornea, and to control it you
21 have to have the right depth.

22 Q. Now, did ALK continue in use after Lasik came
23 to be?

24 A. By some people, until they got lasers. I don't
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1 know of anyone who would have continued using ALK if he
2 had the ability to use the laser. It's more accurate.

3 Q. Now, during the Lasik training, can you tell me
4 what, if anything, you learned about the importance of
5 corneal thickness in the Lasik procedure.

6 A. Nothing different from ALK. The corneal
7 thickness, again, is measured so that one doesn't remove
8 so much cornea that one could get progressive hyperopia
9 or ectasia.

10 Q. Okay. When you perform ALK, would you measure
11 corneal thickness prior to performing the procedure?

12 A. I believe so. I don't remember exactly whether
13 we were measuring it -- or how we were measuring it. We
14 were estimating it, certainly, at the slitlamp. I do not
15 remember when we started using ultrasonic measurements of
16 corneal thickness. We've always had optical measurements
17 of corneal thickness.

18 Q. When you began performing the Lasik procedure
19 in December of 1995, were you making either ultrasonic or
20 optical measurements of corneal thickness prior to
21 performing a Lasik procedure?

22 A. I do not recall whether that was being done or
23 whether it was being estimated on a slitlamp examination.

24 I'm not sure. I'd have to check the records. I don't
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1 know.

2 Q. Okay. The considerations regarding corneal
3 thickness with ALK, would those have been considerations
4 that you were aware of between, say, '92 and '95?

5 A. I'm sorry. What was that question?

6 Q. You had mentioned that corneal thickness would
7 be a consideration in performing ALK; correct?

8 A. Yes.

9 Q. And what I'm asking you is was the
10 consideration of corneal thickness something that you
11 were aware of between 1992 and 1995 when you were
12 performing those ALK procedures?

13 A. It's something we became aware of when we
14 learned that corneal thickness was important. When we
15 started doing the procedure, I don't think we were as
16 aware of it, but as cases were reported in some patients
17 who had very thin corneas developing ectasia, we became
18 more aware of it. I really don't remember when
19 ultrasonic pictometry became available, and as soon as it
20 did, we got the instrument and started using it.

21 Q. Do you know if that was available prior to
22 March of 1997?

23 MS. NEWMAN: In his office or anyplace?

24 MR. KAFRISSEN: At all.
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