

Long-Term Results of Multifocal IOL Implantation

The authors have no financial interest in the subject matter of this poster

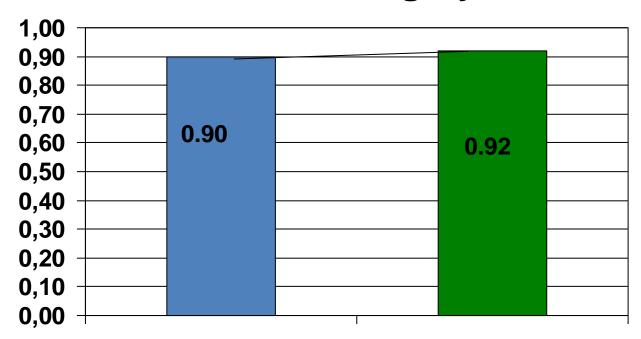
Purpose And Method

- The aim of the study was to evaluate the quantitative and qualitative vision of the patients 8 years after the multifocal lenses –ReStor+4.0D, Alcon- implantation.
- 2. The preventive control of out patients.
- Evaluated data:
- 1. BCVA before the surgery, UCVA 8 years after the surgery.
- 2. Objective refraction before and 8 years after the surgery.
- 3. Intraocular pressure before and 8 year after the surgery.
- 4. The posterior capsule opacification and the YAG capsulotomy percentage.
- 5. OCT 8 years after the surgery.
- 6. Subjective satisfaction of our patients.

Patients

- 60 eyes of 30 patients, 15 women, 15 men
- 8 years post bilateral multifocal intraocular lenses ReStor natural[®] (Alcon) implantation
- Average age of our patients was 56 years
- Average sphere before the surgery was +2.0 sf D [-7.25;
 +6.5 D].
- There was no other eye pathology except cataract.
- OCT and endothelial microscopy wasn't commonly evaluated in these days (today it's a standard)
- There were 23 % bioptics with excimer laser propter astigmatism.

Results: BCVA before the surgery, UCVA 8 years after the surgery



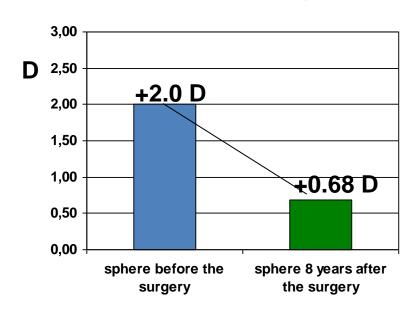
BCVA before the surgery

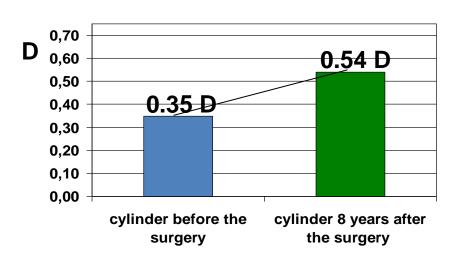
0.90+/- 0.18 [0.25; 1.0]

UCVA 8 years after the surgery

0.92+/- 0.14 [0.4; 1.1]

Results: Objective sphere and cylider before the surgery and 8 years after the surgery

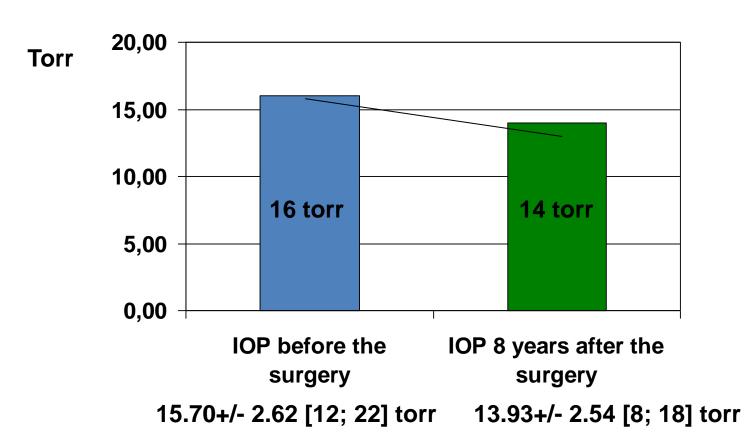




+2.0+/- 2.71 [0.4; 1.1] D +0.68 +/- 0.55 [-1.0; +2.0] D

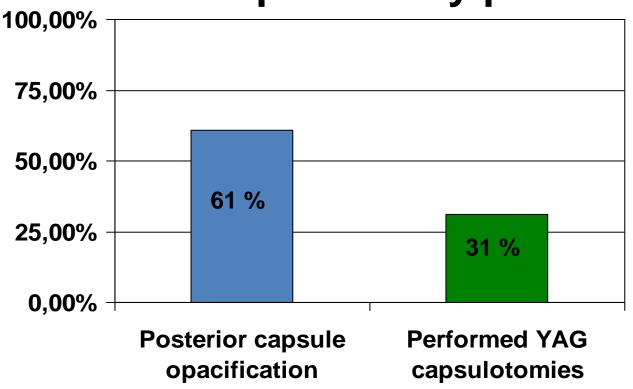
-0.35+/- 0.59 [-2.25; -0.25] D -0.54+/- 0.29 [0; -1.5] D

Results: Intraocular pressure (IOP)



Results:

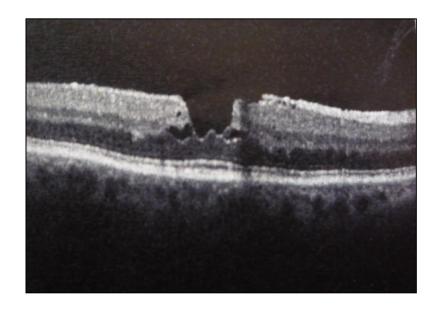
Posterior capsule opacification and the YAG capsulotomy percentage

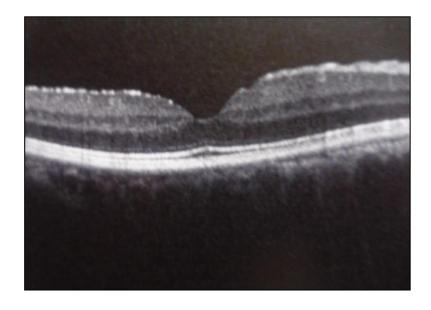


YAG capsulotomy performed average 3 years after the surgery

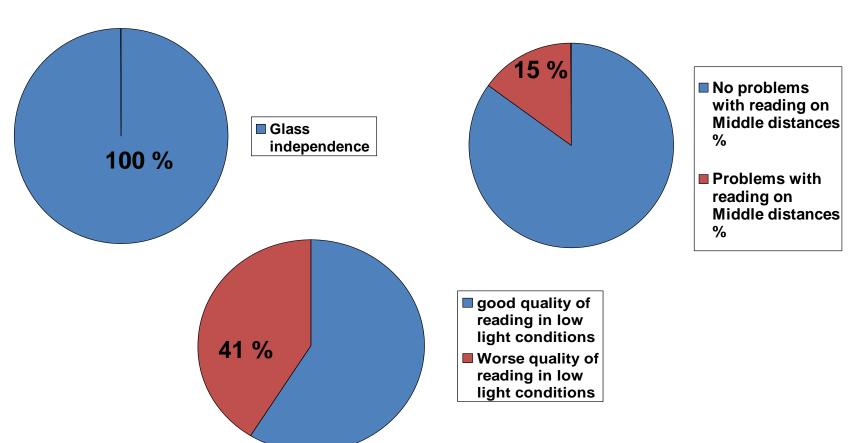
OCT fovea centralis

- 11 %,i.e. 6 eyes new ERM (Ø age 66 years)
- 2 eyes new maculopathy (age of patient 60 years)

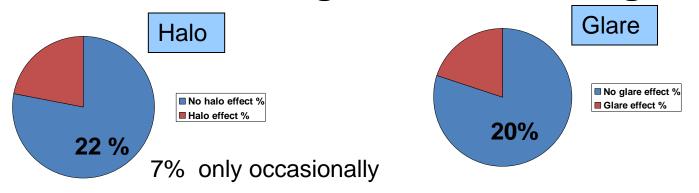




Results: Glass independence

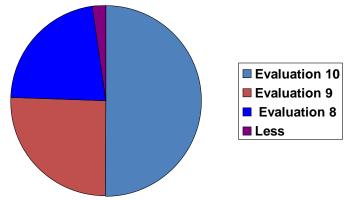


Results: Night vision - halo, glare



Results:

Subjective satisfaction—scale 1 - 10



Results: Subjective satisfaction

- •15% patients suffered with dry eye
- •1 patient start squint
- •1 patient doesn't see well golf balls for 20 m distances
- •2 patients with light amblyopia can read 2 more lines than before surgery
- In high percentage was written:
- "It wanted to be trained." and "Best resolution in my live."

Conclusions

- Even 8 years after the surgery we find the Implantation of multifocal lenses ReStor, Alcon the safe procedure.
- The most patients evaluates the results as the maximum minus (average mark is 9). The only comments have patients to night vision quality and worse reading in low light condition.
- Side optical phenomena in low light conditions are presented in 20 % and in 7 % only occasionally.
- Near every patient has spectacular independence even 8 years after she surgery (old type ReStor with addition +4 D). The problems with middle distances are presented in 15 % and the patients usually adapts with the position of their head.
- Almost all patients confirm the influence of the neuroadaptation and total adaptation on his quality of vision.