

Topography guided Ablation in Virgin Eyes

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Special Thanks for corporation and help.

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The indications for Topography -Guided Ablation

1-Irregular Astigmatism

2- Cornea Scar Tissue (Trauma/Keratitis/PKK)

3-Post Laser Enhancement

- Decentered Ablation
- Small optical zone
- Flap complications
- Bioptics
- Combined with X-linking

Design: Retrospective

Consecutive

None Randomized

- No. of operated eyes > **200**
- No. of reviewed eyes **38**
- No. of myopic eyes **38**
- No. of surgeons : **One**
- No. of virgin eyes **100%**
- Follow up time > **14 months**

Peer review



The Topography Guided
Ablations are:

Useful

Beneficial

Superior

Second choice

Virgin Eyes

- No previous eye surgeries
- No previous eye infections
- No previous eye inflammation
- No previous eye trauma
- No hereditary eye diseases
- No system metabolic diseases

**Anatomically and Functionally healthy Eye
with Optical Errors**

Patients

- Age: 22 up to 38 YO
- Gender: Women 15 Men 4
- 38 Eyes : Surface Ablation /LASEK
- Pupil size: 4 mm up to 7 mm
- Corneal Thickness: 480-590 my
- Target Refraction : Emmetropia
- Optical Zone : 6,5 mm
- Ablation Zone 9 mm
- Transition Zone 1.25 mm

Subjective Refraction

- Sphere : -0,5 -5.5
- Cylinder: 0.0 -1.75
- BSCV 1.0 or better
- No known complains of visual aberrations
- Stable refraction the last 6 months

Clinical evaluation

- Manifest and cycloplegic refraction
- Measurement of intraocular pressure
- Slit-lamp biomicroscopy
- Tear film evaluation
- Corneal topography performed **by OcuLyzer**
- Evaluation of preoperative corneal thickness
- Dilated fundoscopic examination
- **Measurement of scotopic pupil size**
- IOL master investigation

Laser Platform

- All Topography measurements **Oculyzer**
- **Allegretto Eye Q 400**
- **Nomogram S 101**

Surgical Approach

- All eyes operated with **surface ablation**
- Meticulous Information to patients
- Alcohol application 20-30 sec
- Epithelial Removal (Epitheliorhexis 9 mm)
- Drying the stromal surface
- **Laser Ablation**

Surgical approach

- Stromal Cooling with Cold BSS
- MMC 0.02% a 20 sec.
- Flushing with BSS
- Bandage CL
- Antibiotic Drops

I never put the epithelium back

Post operative care

- Bandage CL -3 days
- Antibiotic drops 1 week
- Steroid Drops 4-6 weeks
- Pain killers
- Artificial Tears !!!!

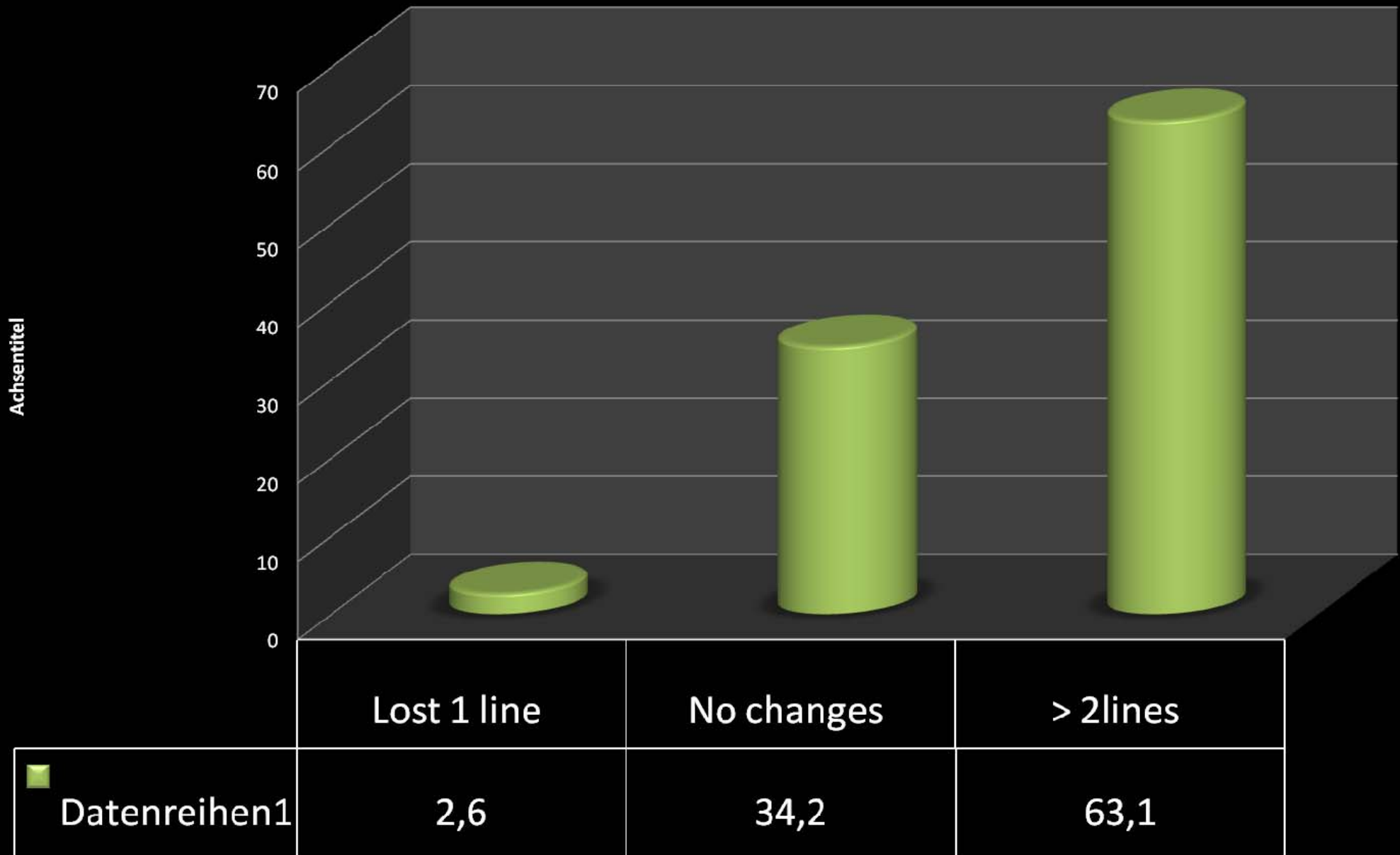
Follow-ups

First Day, 6 weeks, 3 month, 6 months, 12 months

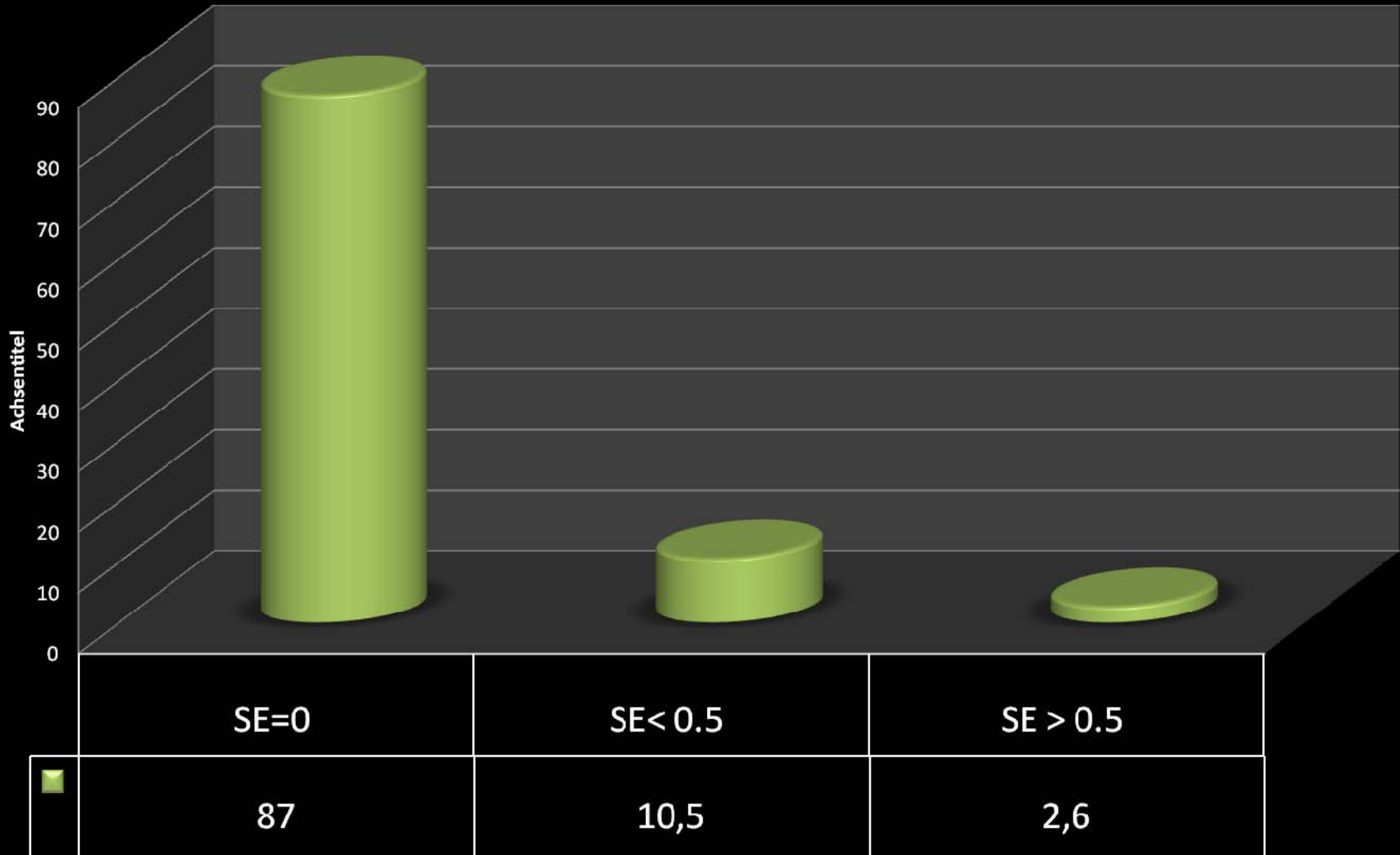
Post Operative Status

- Intraoperative complications 0 Eyes
- Retreatment rate 0 Eyes
- High accuracy
- High safety
- High predictability

Safety / Lost lines

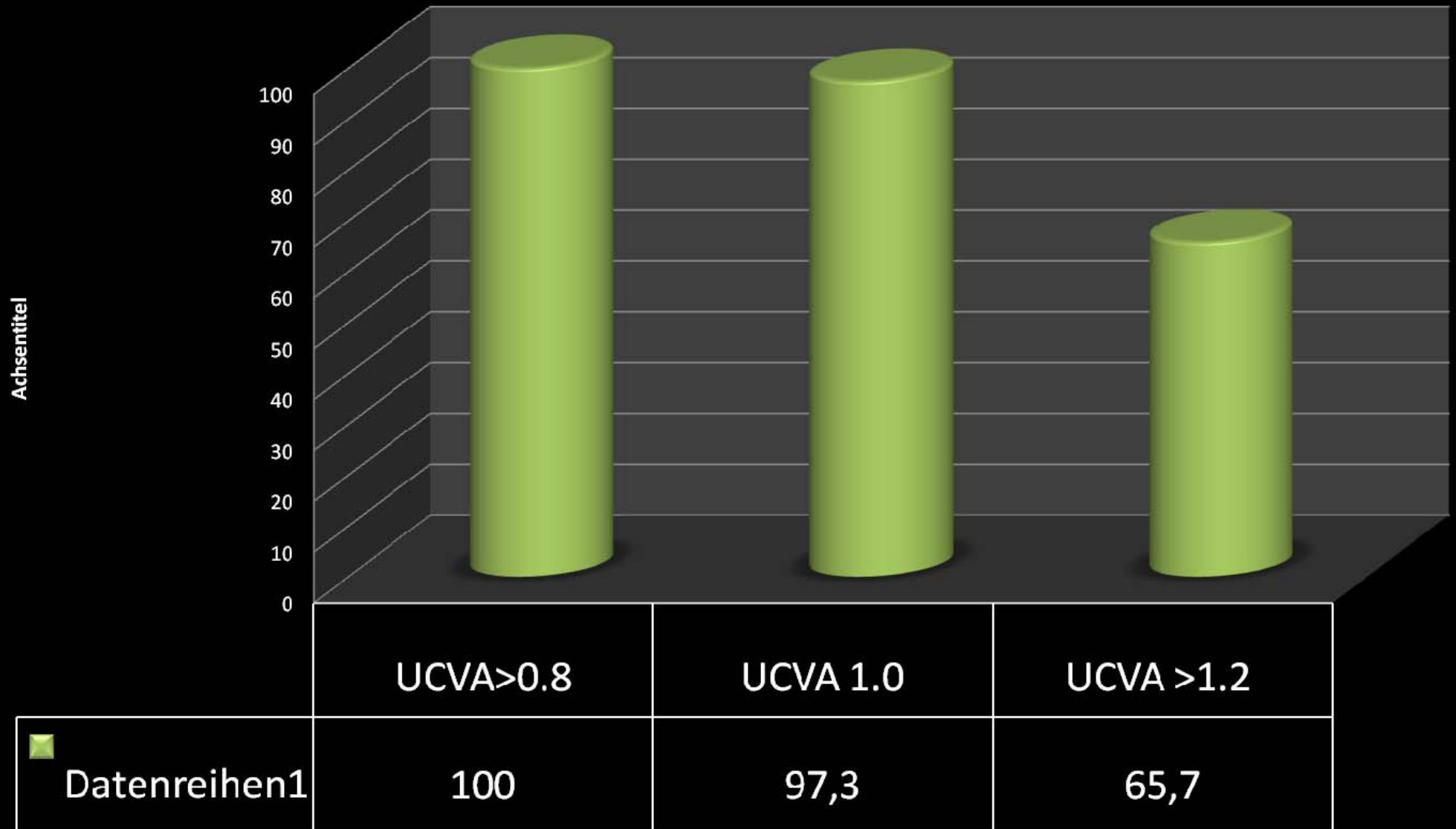


Accuracy / Spherical Equivalent



Efficiency /UCVA /12 months

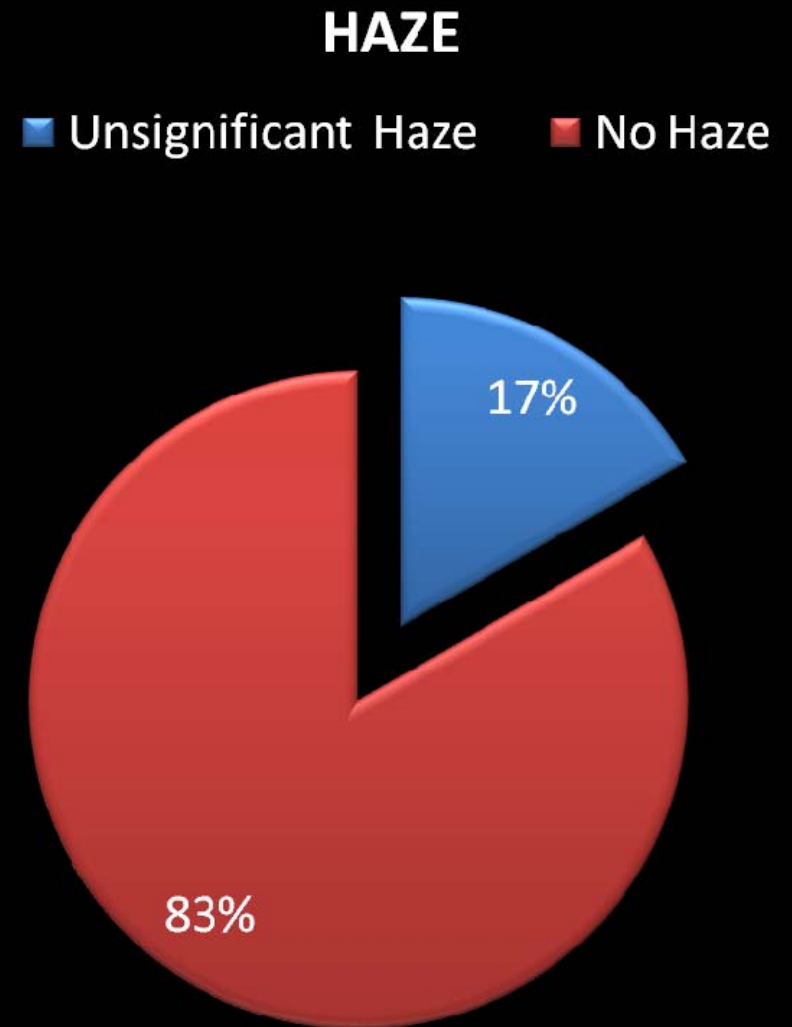
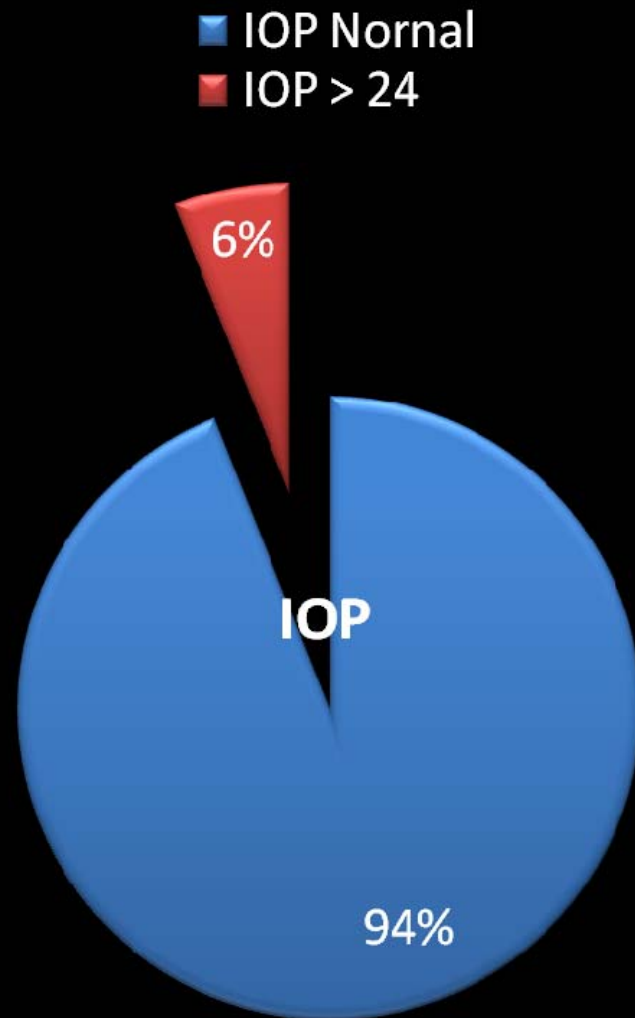
Diagrammtitel



Complications

- Haze (insignificant slight) **4 eyes**
- IOP pikes **2 eyes**
- Healing **0**
- Dry eyes **0**
- MMC side effects **0**
- CL Complications **0**
- Refractive surprise **0**

Complications





Scotopic Vision

- Glare 0
- Blurry vision 0
- Starbursts 0
- Halo Phenomenon 0
- Driving /Reading problems 0

www.lasikdisaster.com

Conclusions

The results speak Conclusions

Happy patient Is my adorable wife

Before

OD : -2.75/ -1.5 cyl 70

OS : -2.25 / -1.75 cyl 85

Free Visus : 0.2

After

OD : -0.25

OS : 0.0

Free Visus : 1.6

