ALL-LASER LASIK RESULTS WITH THE ILASIK PROCEDURE

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Financial Interest

- Consultant AMO
- Consultant Alcon
- Consultant LenSx Lasers
iLASIK

„individualized“ LASIK (brand name !)

1. customized femtosecond flaps

2. customized wavefront-guided ablation

iLASIK Suite
iFS, Visx, iDesign
IntraLase 5th Generation iFS

iFS Flap Customization

- Oval flaps
  - to accommodate ablation zone
  - to allow temporal hinge to reduce dry eye

- Inverted side-cuts (up to 150°)
  - less biomechanical effect
  - better flap fit
  - stronger flap adhesion
Visx STAR S4 IR CustomVue

Why Wavefront – Guided?

... better Visi...
"Iris Registration"

- Aligns WaveScan image and ablation
  - Compensates for cyclotorsion
  - Compensates for pupil centroid shift

Patients

- 364 eyes (210 Patients) (consecutive)
- Jan to Jun 2009

- Preop refraction:
  - Sphere -2.98 +/- 2.79 D
  - Cylinder -0.91 +/- 0.82 D
Surgery

- Wavefront-guided iLASIK in all eyes

- Flap 100-120 μm, superior hinge
  - Myopes: 8.5 mm flap
  - Hyperopes: 9.0 mm flap

Results: Refraction

- Two months postop
  - Sphere -0.01 +/- 0.32 D
  - Cylinder -0.08 +/- 0.25 D
Results: Visual Acuity

- 20/16+ (20% of 60): 40
- 20/20+ (20% of 20): 60
- 20/25+ (20% of 10): 80
- 100 (100% of 0): 100

Results: Patient Satisfaction

- 99.2% satisfied with vision
- 99% spectacle independent for distance
- 100% would choose iLASIK again
Conclusion

- Combining *customized* femtosecond laser flaps and *customized* wavefront-guided ablations provides excellent vision and high patient satisfaction.

THANK YOU!