

**FLAUM EYE INSTITUTE**  
The Institute of Optics  
**BME**

## Evaluation for Optical Performance of Extended Depth of Focus Lens using Optical Bench System

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## No Commercial Interest/ Relationship!!!

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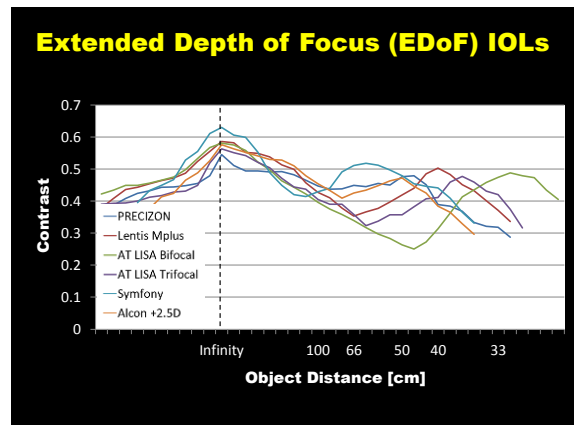
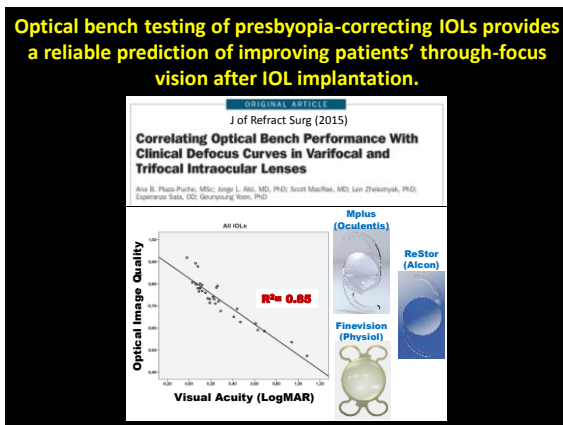
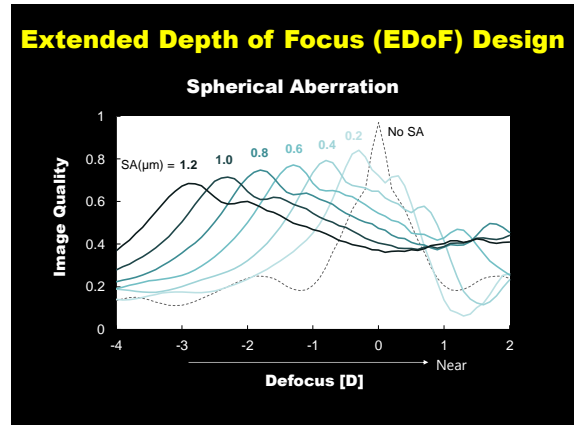
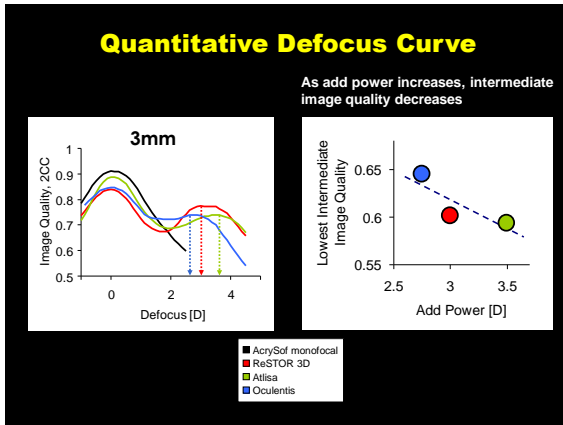
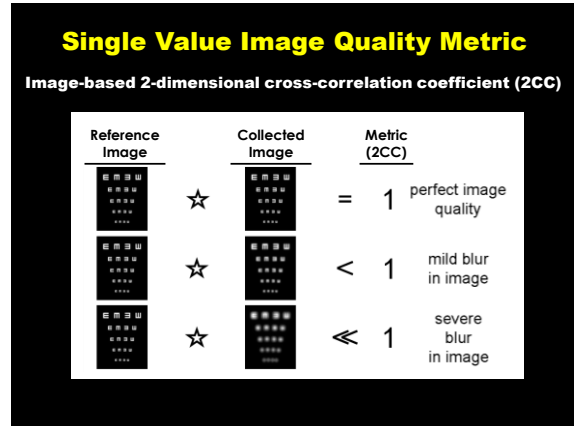
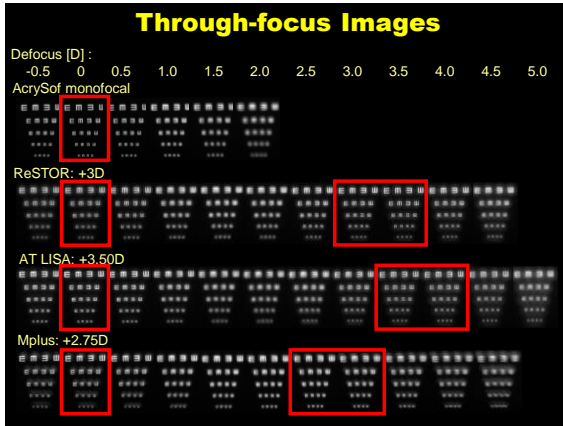
## Presbyopia Correcting IOLs

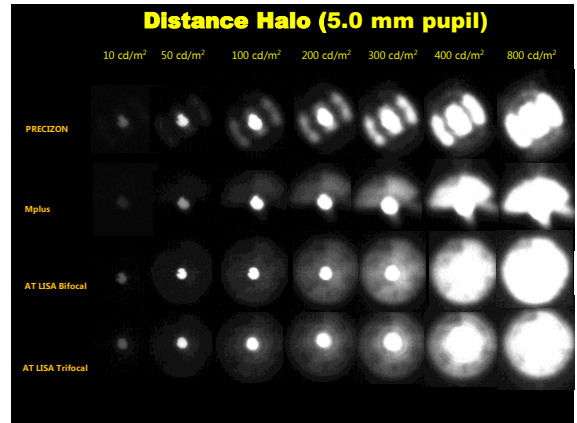
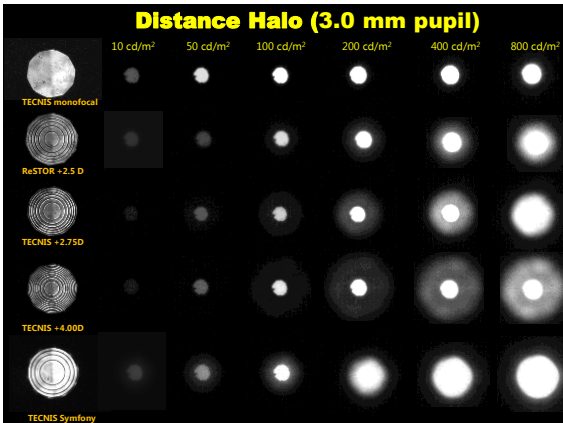
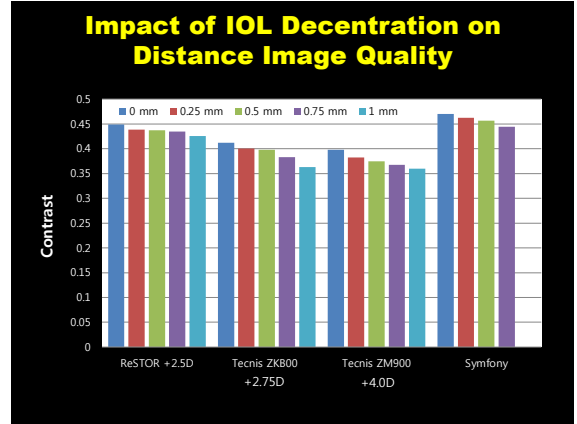
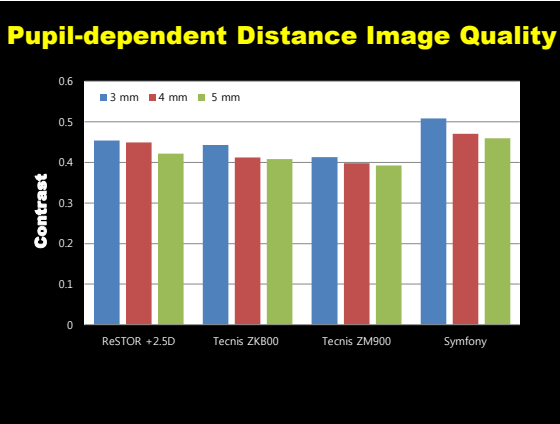
Zonal Refractive	Asymmetric Refractive	Diffractive Bifocal	Diffractive Trifocal
ReZoom, AMO	Mplus, Oculentis	ReSTOR, Alcon	Tecnis, AMO
Far Near	McKendin et al. (2011)		Galimel et al. (2011)

## Presbyopia Correcting IOLs

ReSTOR, Alcon	Tecnis, AMO	Symfony, AMO	Precision, Ophtec
Low add power		EDoF Chromatic aberration control	Asymmetric

## Adaptive Optics Optical Bench Testing





### Take Home Message

**Optical bench testing assisted by image quality metric provides quantitative defocus curves, representing through-focus visual performance.**

**Extended depth of focus designs improve distance and intermediate quality at the cost of near quality.**

### Advanced Physiological Optics Laboratory

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