Mark Packer, MD

Financial Disclosure

Travel & Honoraria

- Endo Optiks, Inc.

Consultant

- Advanced Medical Optics, Inc.
- Advanced Vision Science, Inc.
- Bausch & Lomb, Inc.
- Candeo Clinical/Science Communications, LLC
- Carl Zeiss Meditec, Inc.
- Carl Zeiss Surgical GmbH
- Celgene Corporation
- General Electric Company
- Gerson Lehman Group, Inc.
- Ista Pharmaceuticals, Inc.
- i-Therapeutix, Inc.
- Johnson & Johnson Vision Care, Inc.
- Leerink Swann & Company
- LifeGuard Health, LLC
- Sirion Therapeutics, Inc.
- Transcend Medical, Inc.
- TrueVision Systems, Inc.
- Visiogen, Inc.
- VisionCare, Inc.
- ***WaveTec Vision Systems***

September 1, 2008

Evaluation of Outcomes of Limbal Relaxing Incisions (LRIs) Based on Intra-operative Wavefront Aberrometry

Mark Packer, MD, FACS

Investigators

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Eric Donnenfeld, MD, Ophthalmic Consultants of Long Island, Rockville Center, NY

James McDonald, II, MD, McDonald Eye Center, Fayetteville, AK

Robert Weinstock, MD, Eye Institute of West Florida, Largo, FL

Kerry Assil, MD, Assil Eye Institute, Beverly Hills, CA

William Trattler, MD, Center for Excellence in Eyecare, Miami, FL

ORange™ IntraOperative Wavefront Aberrometer

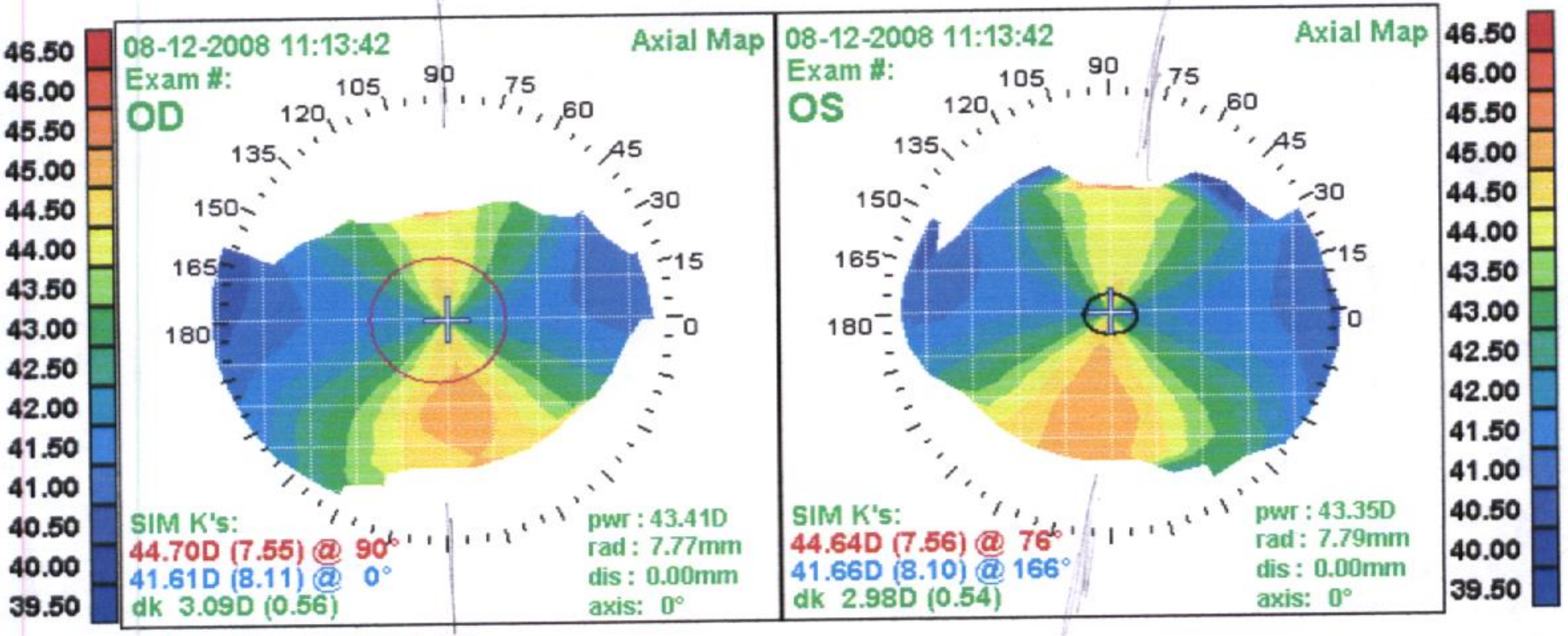
Clinical Example

PE IOL c LRI OS

- Astigmatism by Topography: +2.98 x 076
- Pachymetry: 645

655

645



PRE PE/IOL POSSIBLE LRI

650

#12= 0.295

676

12= 0.28

© 1990-1999 EyeSys Premier Version 4.2

+2.98 x 076

- LRI Plan: 2 x 60* @ 076, set blade to 570 µ
- ***Intraop*** measurements were

3.38 x 74 pre LRI

2.83 x 86 post LRI

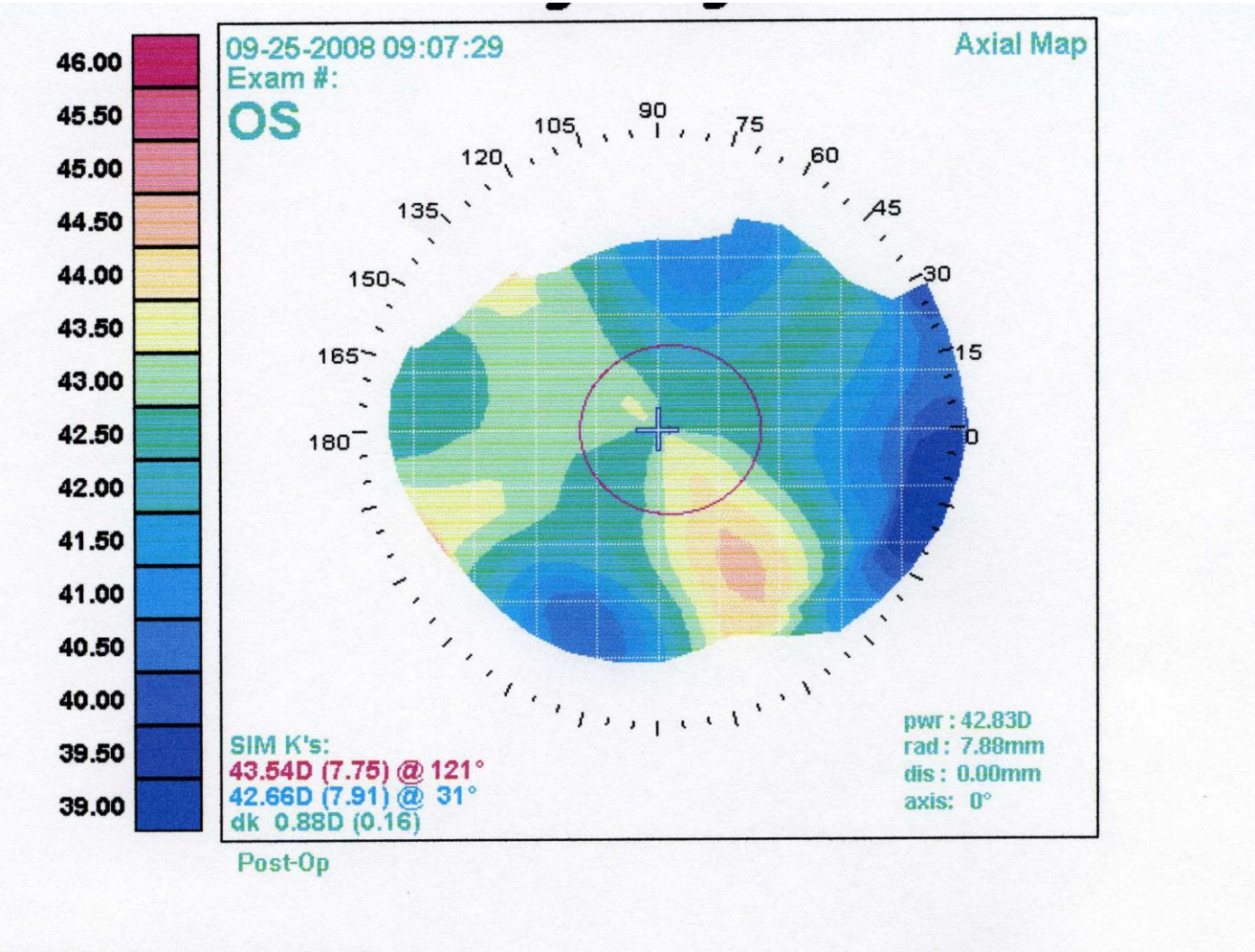
2.82 x 82 pre enhancement of LRI

1.74 x 77 post enhancement of LRI

Day 1 Post Op

- **SC Distance:** 20/30-2

Day 1 Post Op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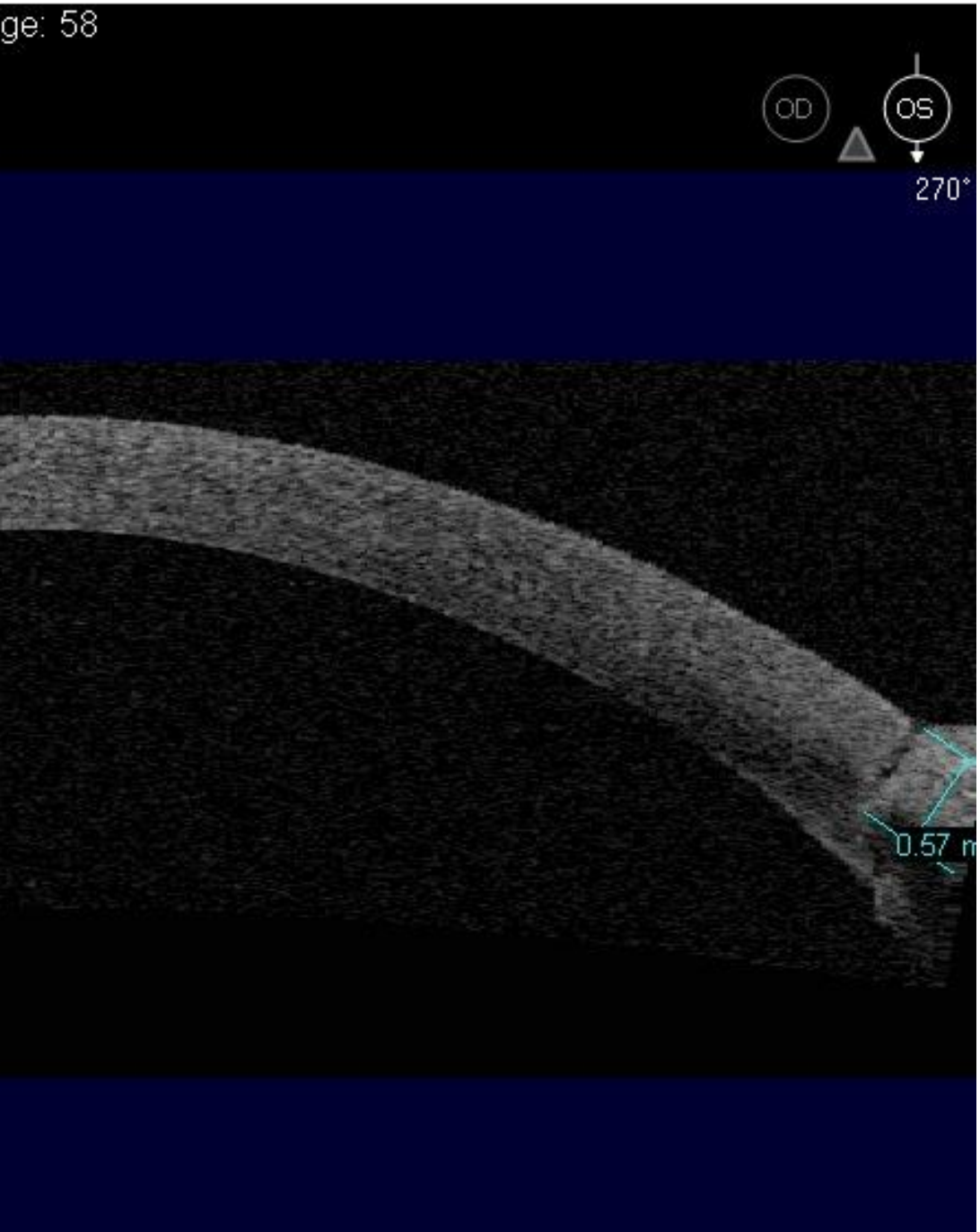
Exam #:
OS
Axial Map
90
75
60
45
30
15
0
105
120
135
150
165
180
SIM K's:
43.54D (7.75) @ 121°
42.66D (7.91) @ 31°
dk 0.88D (0.16)
pwr : 42.83D
rad : 7.88mm
dis : 0.00mm
axis: 0°
Post-Op



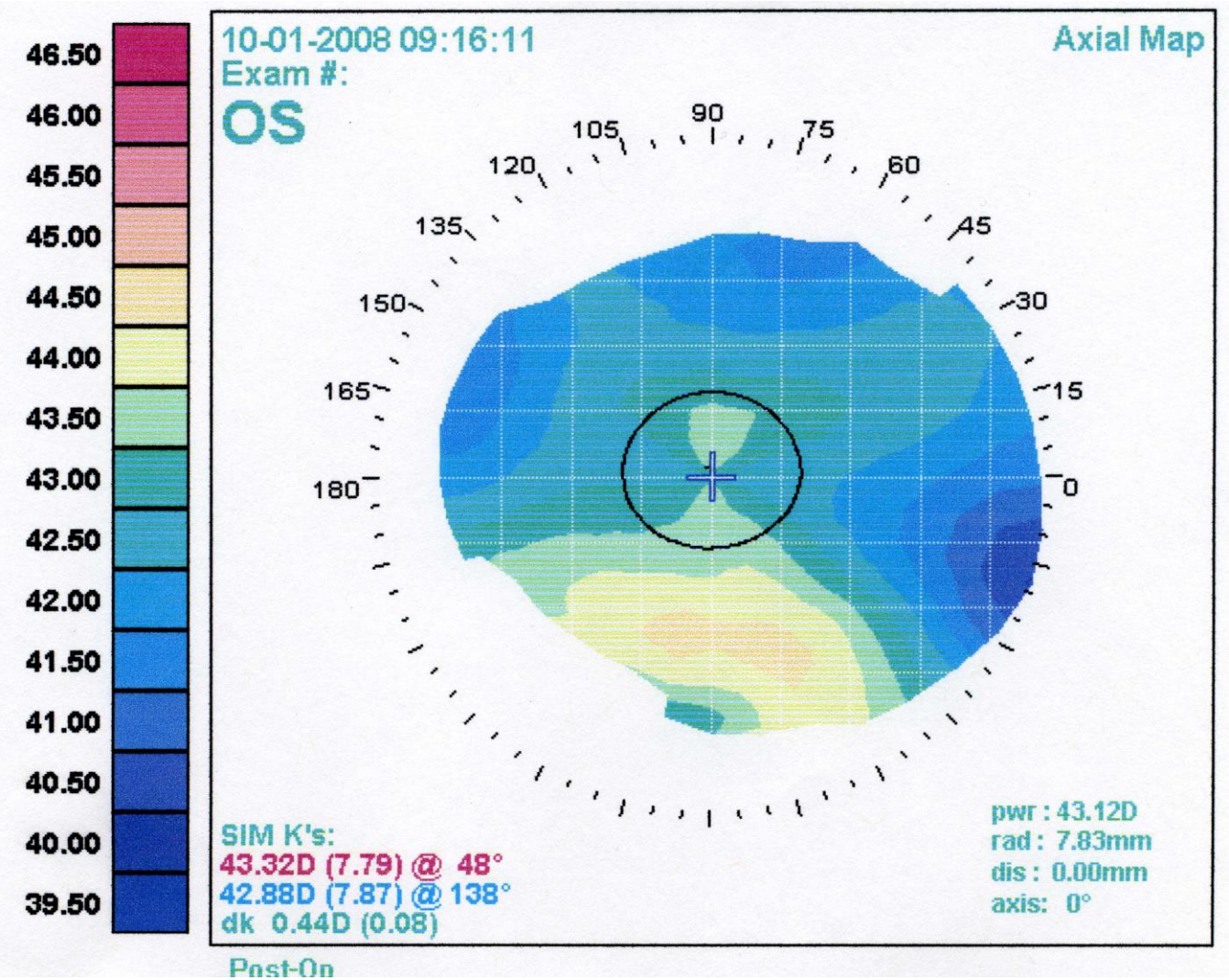
570 µ

Day 7 Post Op

- **Visual Acuity**
- **SC Distance:** 20/25-2

- **Manifest Refraction**
- **OS: + 0.50 + 0.25 X 180 20/25-**

Day 7 Post Op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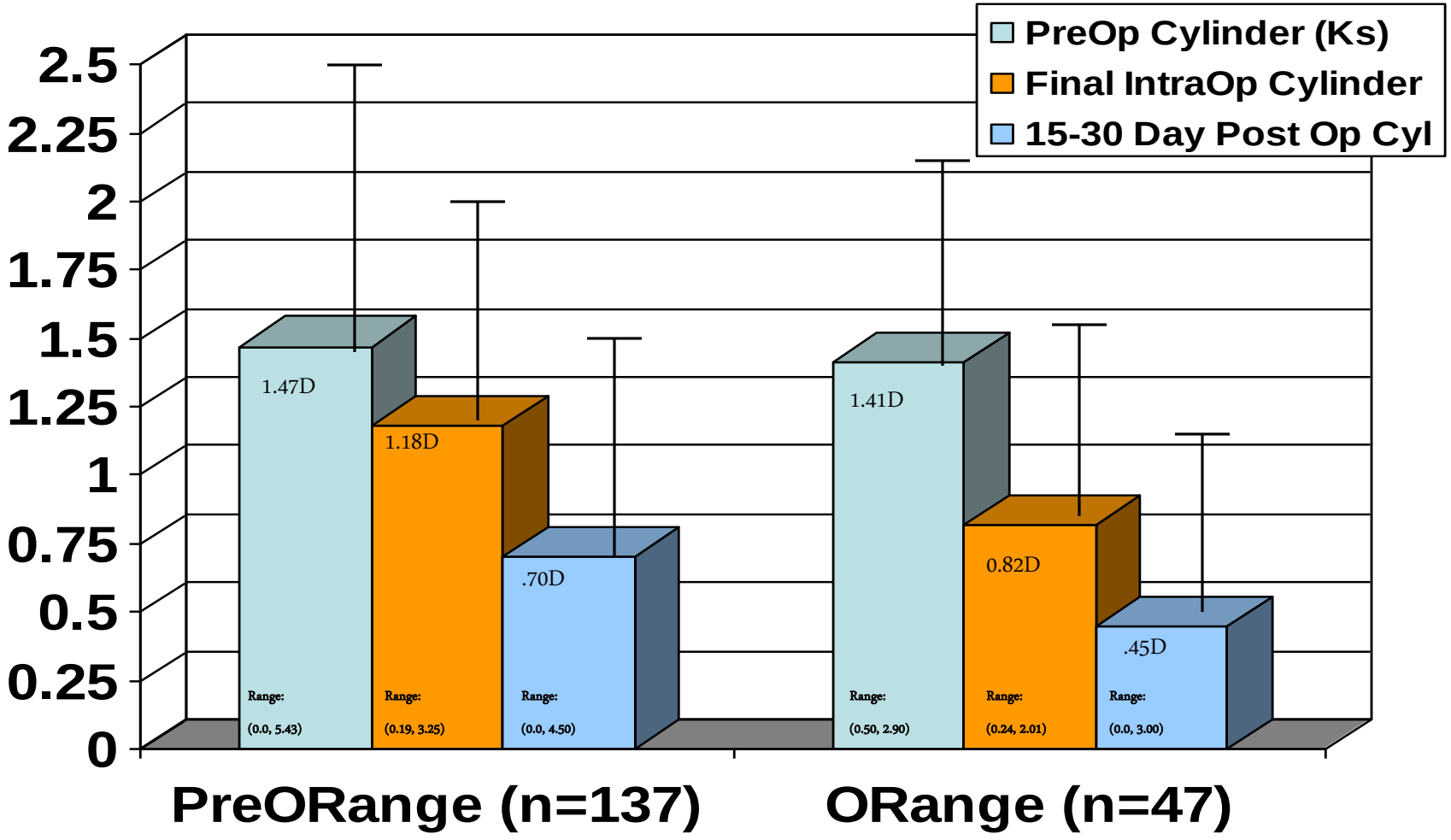
Exam #:
OS
Axial Map
90
75
60
45
30
15
0
105
120
135
150
165
180
SIM K's:
43.32D (7.79) @ 48°
42.88D (7.87) @ 138°
dk 0.44D (0.08)
pwr : 43.12D
rad : 7.83mm
dis : 0.00mm
axis: 0°
Post-Op

1 Month Post Op

- **SC Distance: 20/25**
- **MR:** + 0.50 + 0.50 X 145 20/20

LRI Enhancement Pilot Study

Assil, Packer, Donnenfeld, Lane, Tran, Weinstock, Nichamin	**Eyes Left Alone after Initial LRI**	**Eyes with LRI Enhanced after viewing ORange Intraoperative Values**	**Total**
N (all eyes)	**87**	**29**	**116**
PreOperative			
PreOp Cylinder	**1.36D**	**1.83D**	**1.48D**
Operative			
Residual Cylinder (after initial LRI and IOL Implant)	**0.79D**	**1.54D**	**0.98D**
% Improved	**43%**	**16%**	**34%**
Residual Cylinder (after enhancement decision)	**0.79D (no enhancement)**	**0.97D (enhancement)**	**0.83D**
% Improved due to enhancement	**NA**	**38%**	**17%**
Total % Improved	**43%**	**47%**	**44%**
30 Day Follow Up			
Residual Cylinder	**0.38D (n=33)**	**0.62D (n=14)**	**0.45D (n=47)**
Total % Improved	**72%**	**66%**	**70%**

36% Improvement With ORange vs. Without ORange (All Surgeons)