


# Audit of Cataract Surgery Outcomes 2015

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# Cataract Outcomes Audit

- First 55 Cases with refractive outcomes returned
- Compared predicted versus measured spherical equivalent and compared to standard results from large studies
- Measured BCVA (Safety)
- Change in astigmatism with surgery
- Surgery performed by one surgeon GTHS

# Post op Refraction

  
**TASMANIAN EYE CLINICS**  
 EYE DOCTORS SPECIALISING AND CARING FOR YOUR EYES

1 February 2016

Dear Colleague


Our Ref No:  
~~XXXXXXXXXXXX~~  
~~XXXXXXXXXXXX~~  
~~XXXXXXXXXXXX~~

ENTERED

The short term ophthalmological post operative care of our mutual patient is now completed. Please could you refract and prescribe glasses as appropriate.

For the purposes of post surgical audit and future care of this patient, it would help if you could supply the details of your refraction as listed below.

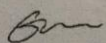
| UNAIDED ACUITY |      | REFRACTION |       |      | BEST CORRECTED ACUITY |      |
|----------------|------|------------|-------|------|-----------------------|------|
| DISTANCE       | NEAR | SPH        | CYL   | AXIS | DISTANCE              | NEAR |
| R              | 6/20 | NS         | -0.50 |      | 6/16                  | NS   |
| L              | 6/16 | NS         | -0.50 | 85   | 6/16                  | NS   |

Name/Signature of Optometrist: 

Please fax these details to: 6230 7438

or mail to: Tasmanian Eye Clinics  
3/370 Main Road  
Glenorchy 7010

Thank you for your help in the care of this patient.

With kind regards  
 Yours sincerely  


Dr George Smith  
 MBChB, DO, FRCS(Ed), FRCOphth, FRANZCO, Dip. Ref. Surgery (Syd)  
 Anterior Segment Specialist and General Ophthalmologist  
 Certified LenSx® Femtosecond Cataract Specialist

Ground Floor  
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Suite 3  
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 Facsimile 03 6230 7436

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 www.taseye.com.au

MBBS, O.D.(Ed), FRCS (Ed), FRACS,  
 FRANZCO.

MBChB, DO, FRCS(Ed), FRCOphth,  
 FRANZCO, Dip Ref Surgery (Syd)

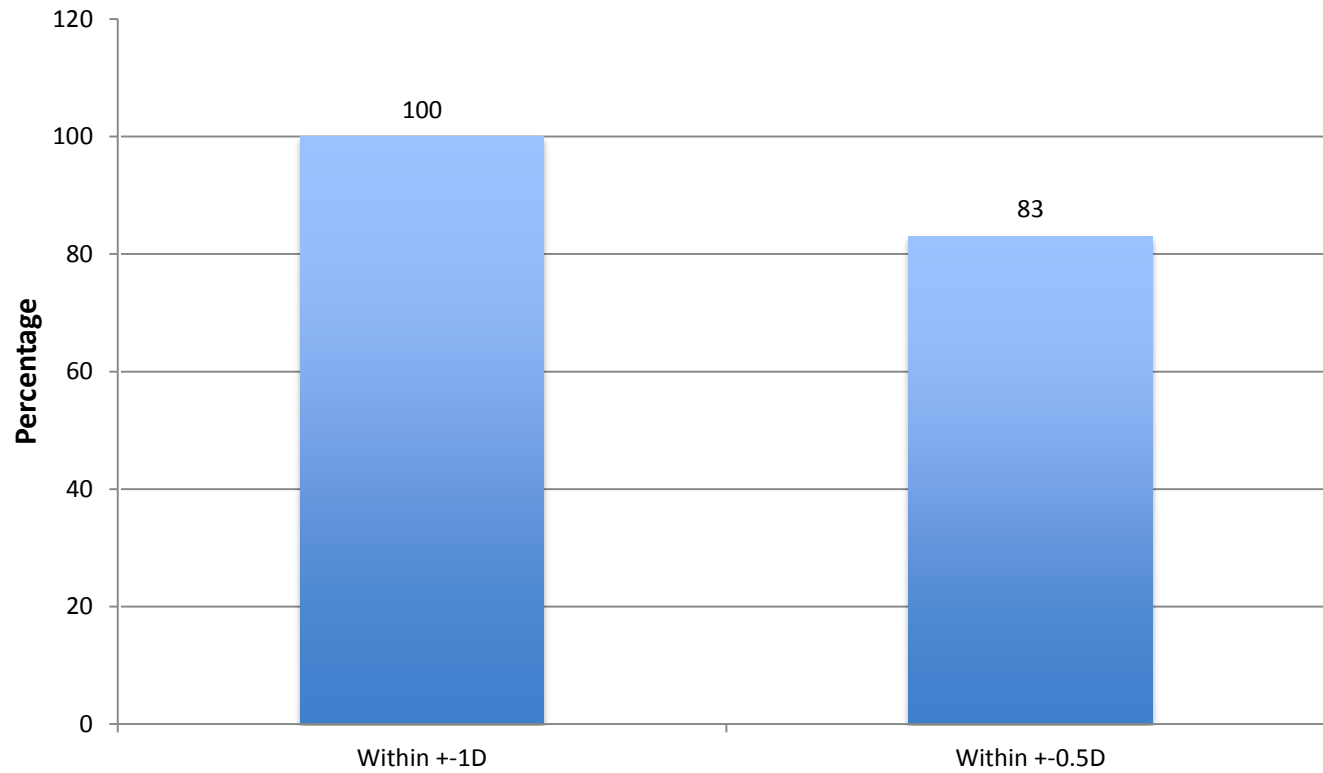
MBBS (Hons), FRANZCO, FRACLS

O.D.(Ed)

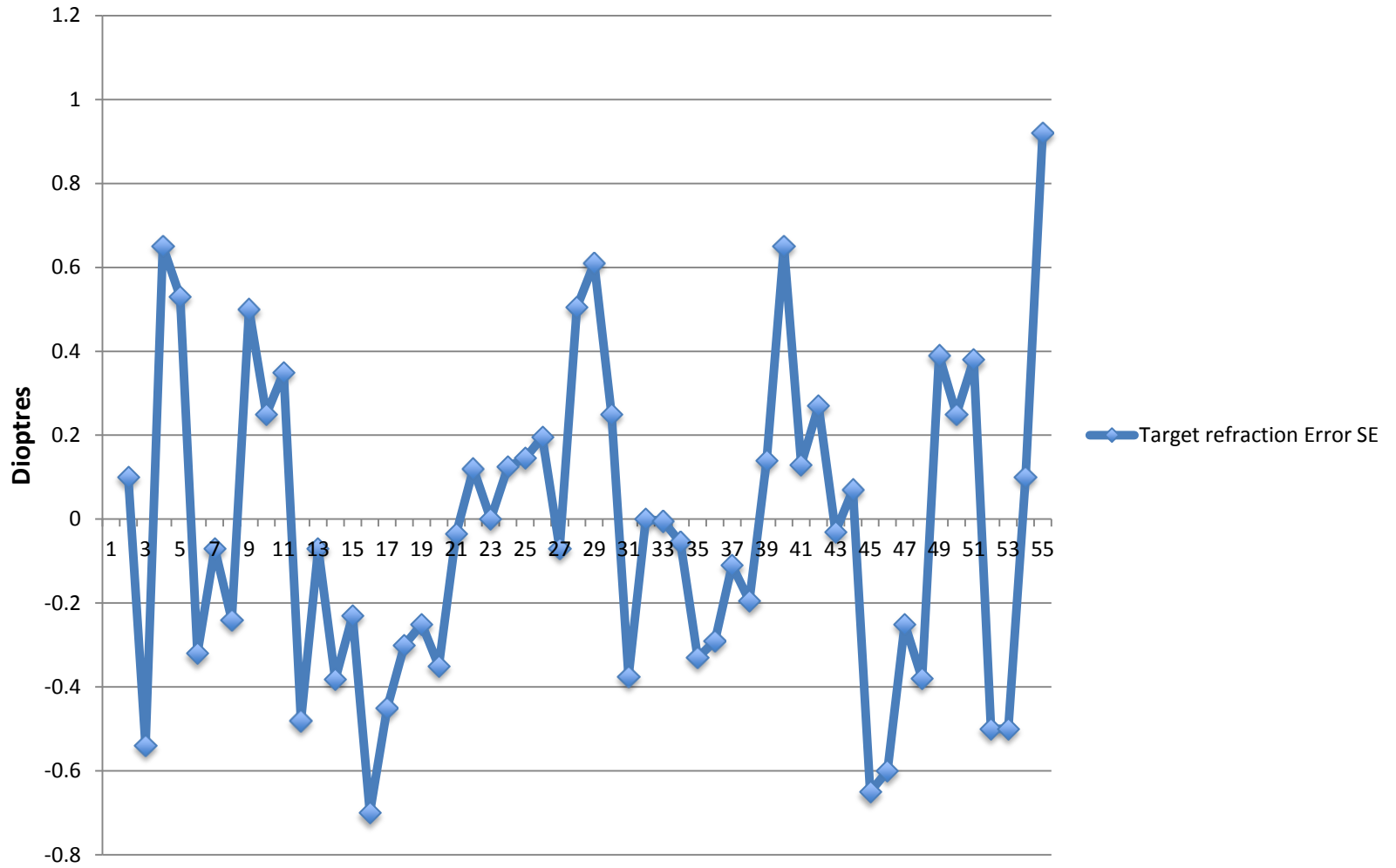
BSc Optometry (Hons)

B Optom  
 Grad Cert (Opt)

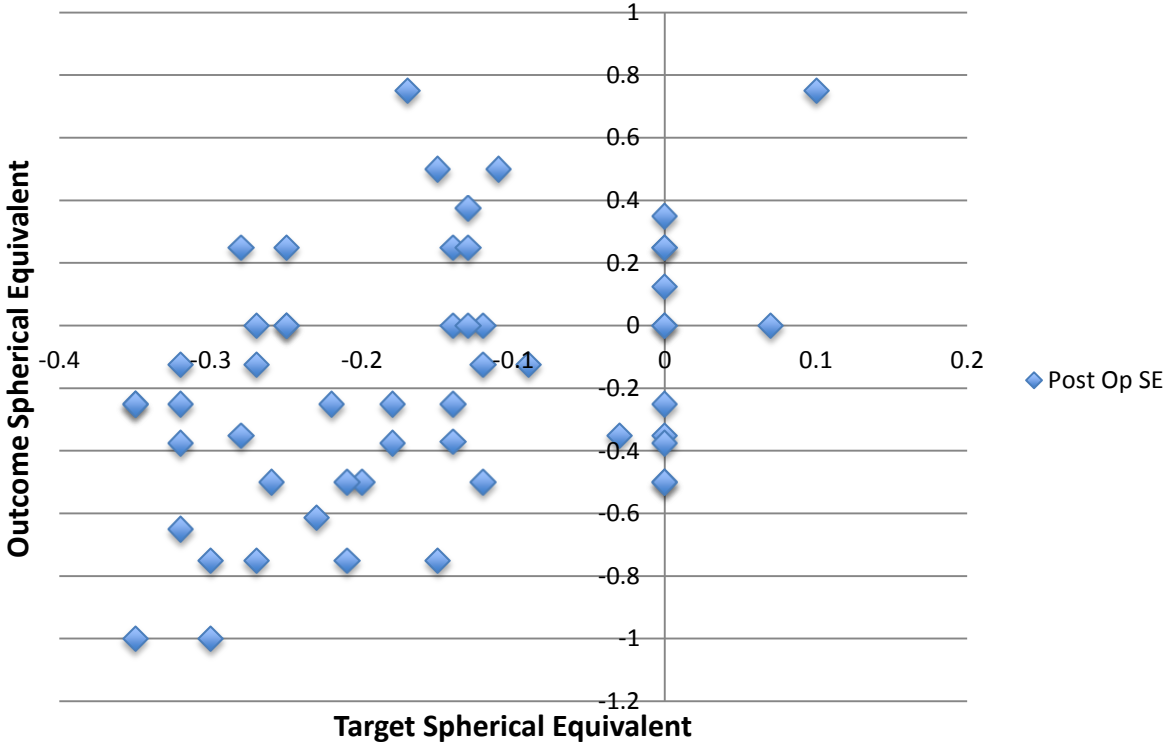
## Percentage within predicted outcome



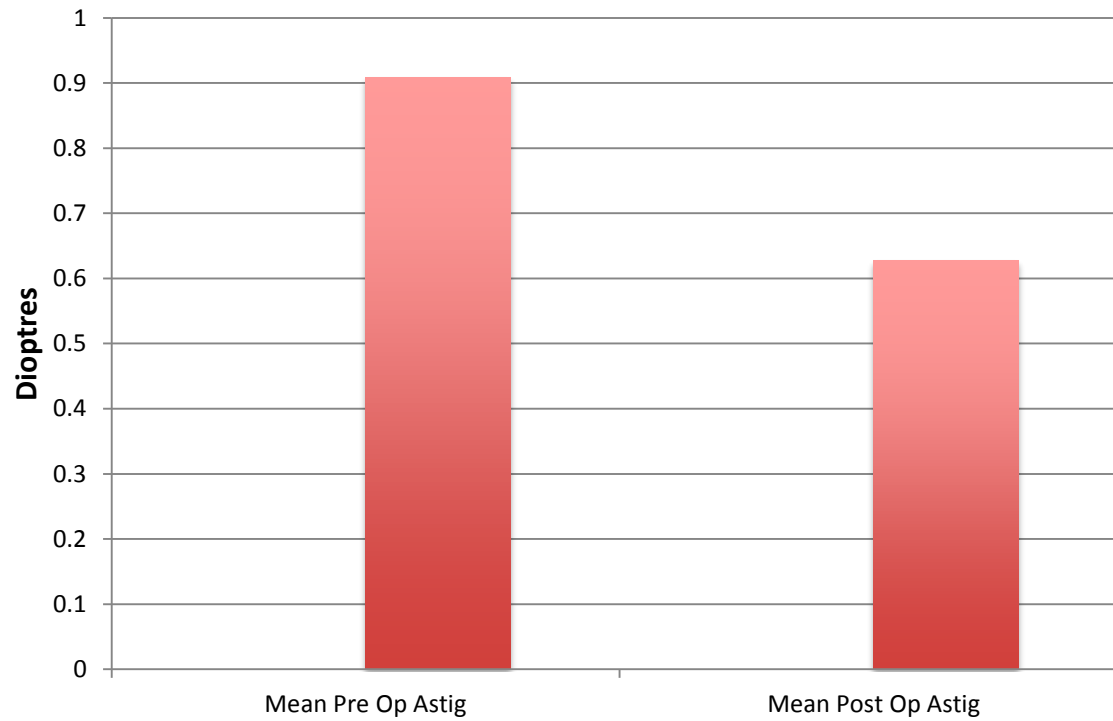
# Target refraction Error SE



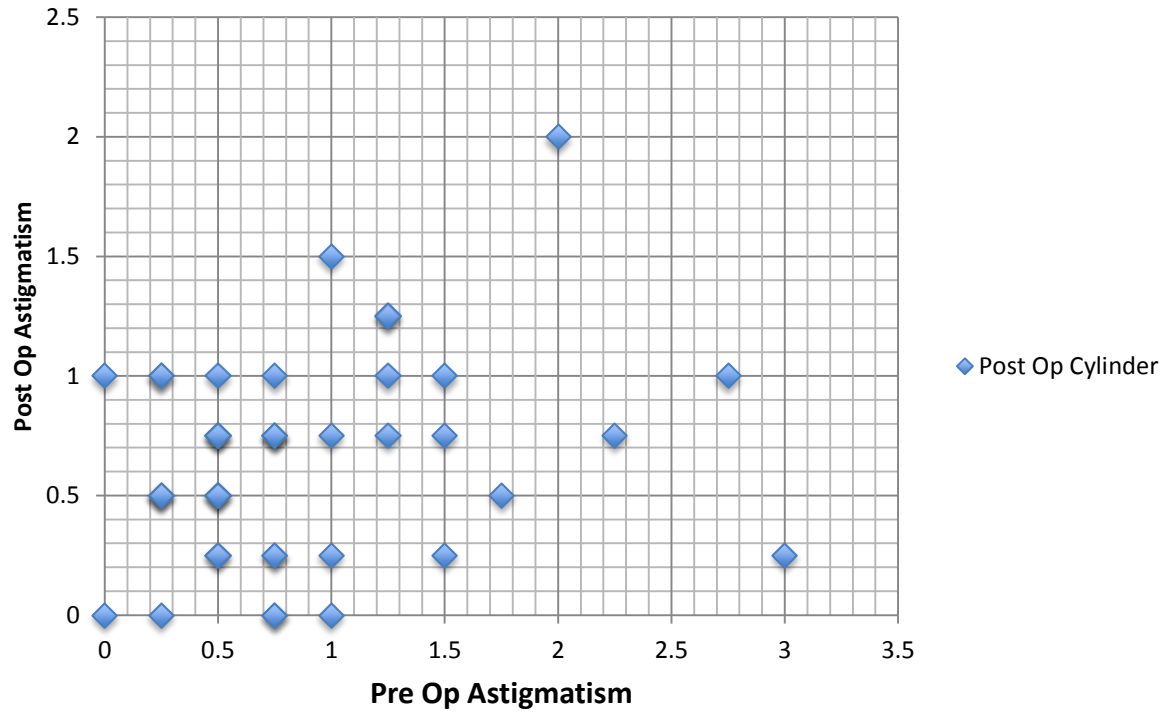
# Post Op SE



## Mean Pre Op v Mean Post Op Cyl

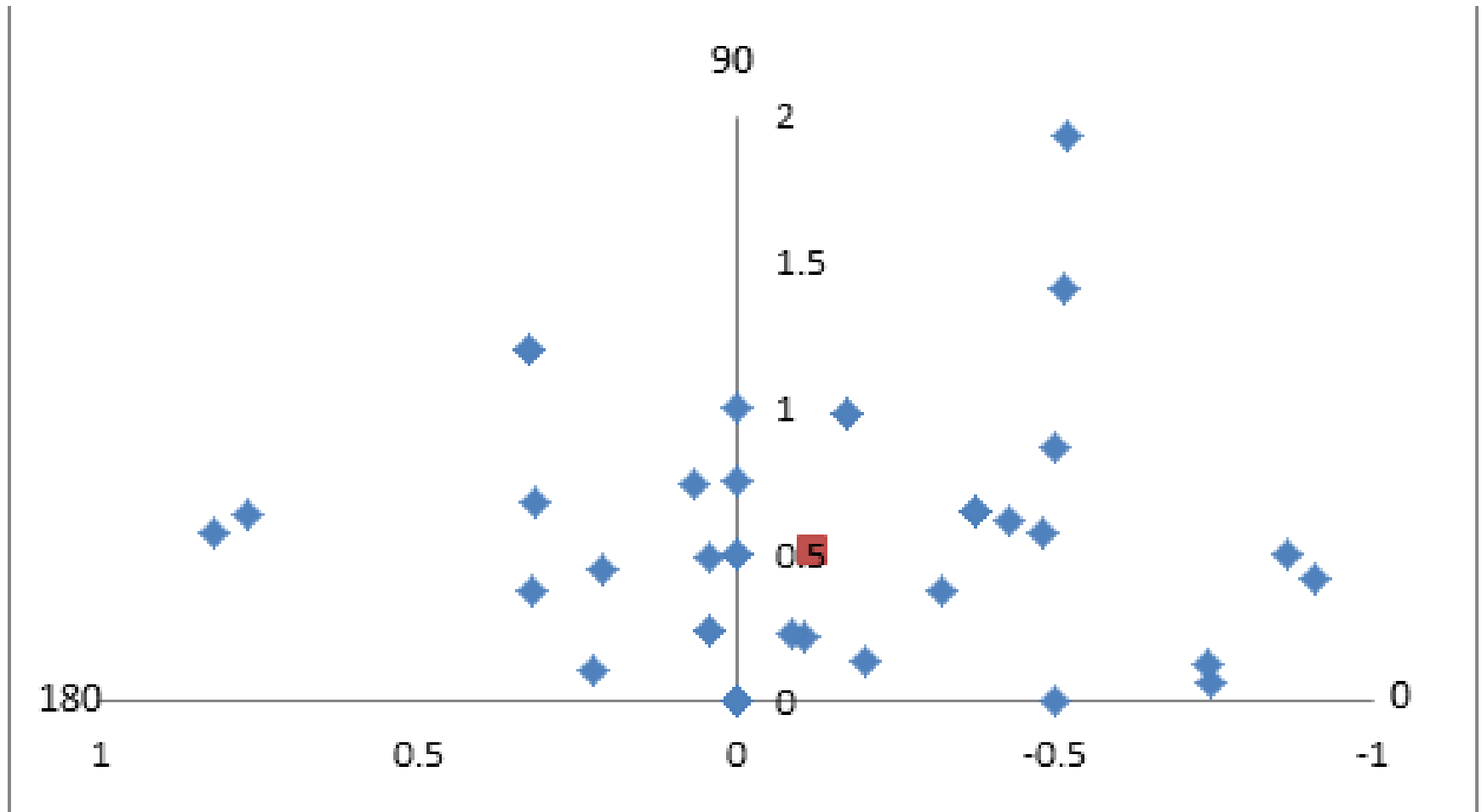


# Post Op Cylinder

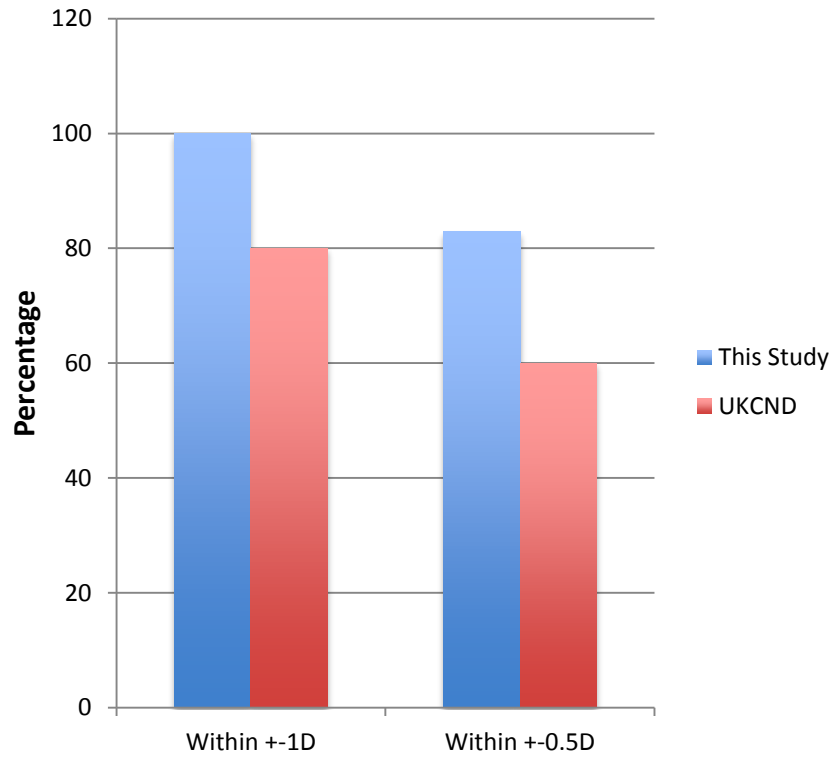




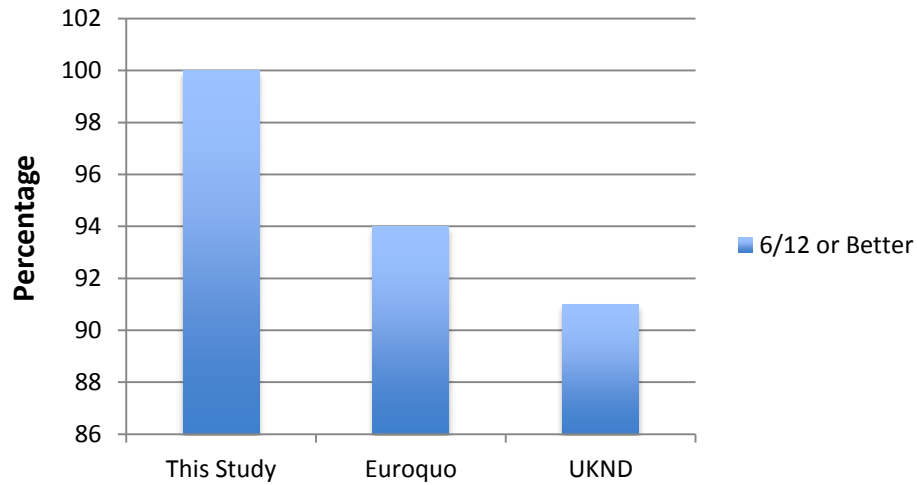
# Centroid -0.64 @ 74 degrees



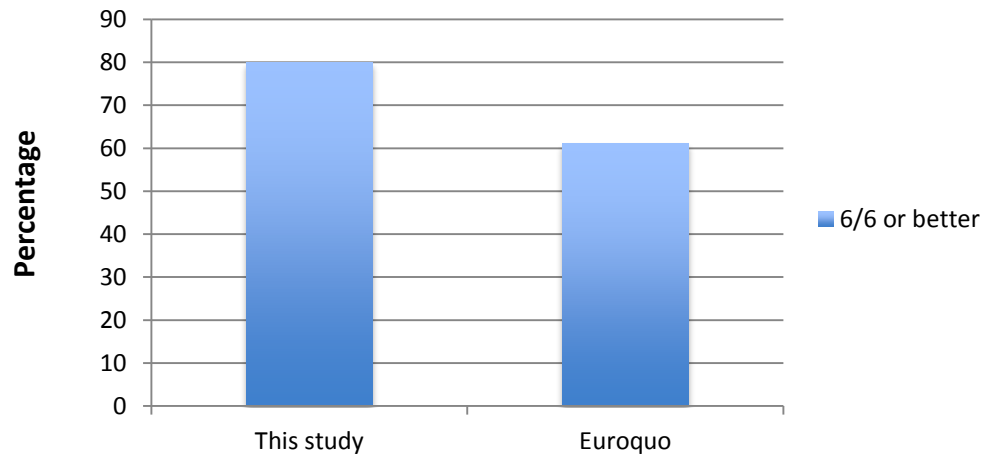
## Percentage within predicted outcome



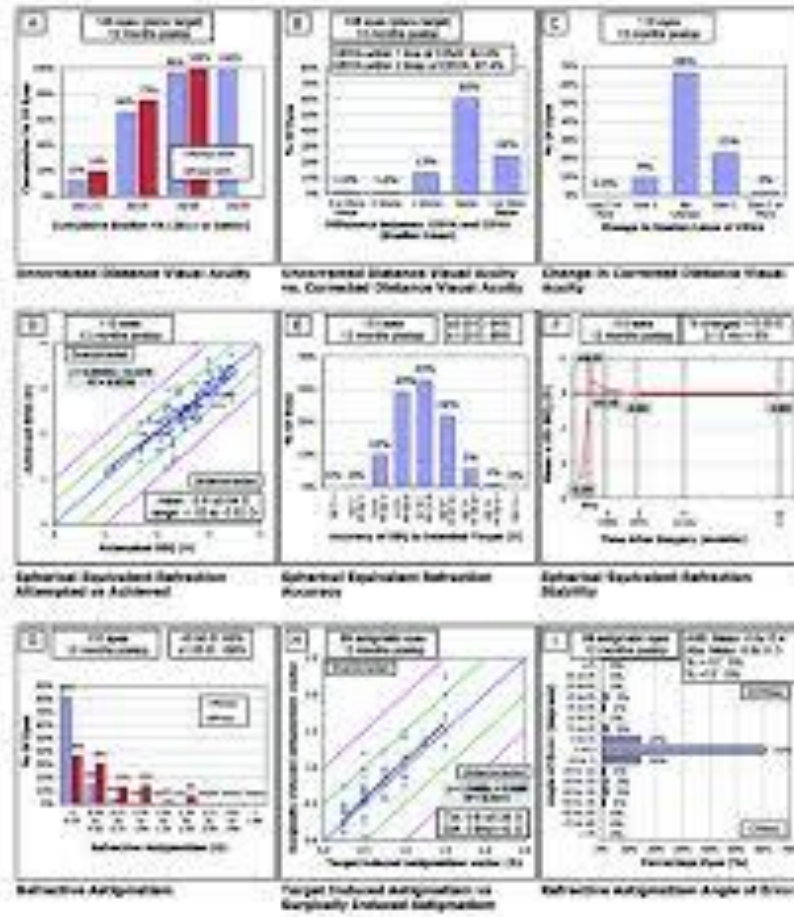
### 6/12 or Better BCVA



### 6/6 or better BCVA



# Standard Outcomes for Refractive Surgery



# Recommendations

- Standard cataract outcome graphs similar to what is available for refractive surgery (College working on this RCAT ?)
- Co ordination with EPR companies eg Houston to facilitate extraction of required data and creation of the graphs
- Up to date biometry machines
- Barrett toric calculator and Baylor nomogram
- Intra operative aberrometry
- Co-operation with companies eg Alcon

# References

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2. Jaycock P, Johnston RL, Taylor H, *et al*. The Cataract National Dataset electronic multi-centre audit of 55,567 operations: updating benchmark standards of care in the United Kingdom and internationally. *Eye* 2009; **23**: 38-49
3. European Registry of Quality Outcomes for Cataract and Refractive Surgery - <http://www.eurequo.org/>
4. Royal College of Ophthalmologists Cataract Surgery Guidelines 2010 - [http://www.rcophth.ac.uk/docs/publications/published-guidelines/FINAL\\_Cataract\\_Surgery\\_Guidelines\\_2010\\_-\\_SEPTEMBER\\_2010.pdf](http://www.rcophth.ac.uk/docs/publications/published-guidelines/FINAL_Cataract_Surgery_Guidelines_2010_-_SEPTEMBER_2010.pdf)
5. Murphy C, Tuft SJ, Minassian DC. Refractive error and visual outcome after cataract extraction. *J Cataract Refract Surg* 2002; **28**: 62-66
6. Lundstrom M, Stenevi U, Thorburn W. The Swedish National Cataract Register: A 9-year review. *Acta Ophthalmol Scand* 2002; **80**: 248-257
7. R P Gale, M Saldana, R L Johnston, B Zuberbuhler and M McKibbin  
Benchmark standards for refractive outcomes after NHS cataract surgery  
*Eye* (2009) **23**, 149–152

Thank You