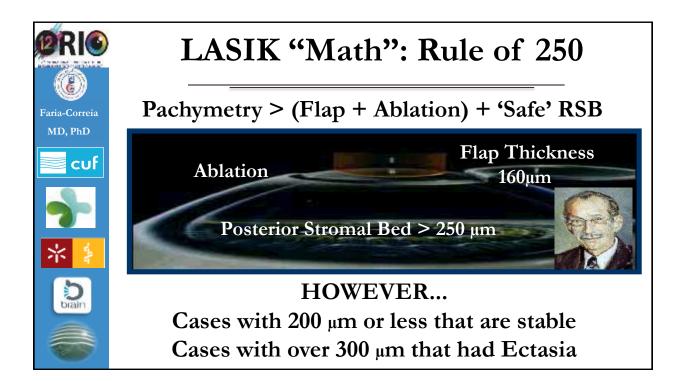




## Known Risk Factors for Ectasia

- Pre-operative ectatic corneal disease
- Young Age
- Excessive laser ablation (high corrections)
- Thick LASIK Flap
- Low Preoperative Pachymetry





## Risk Assessment for Ectasia After Corneal Refractive Surgery

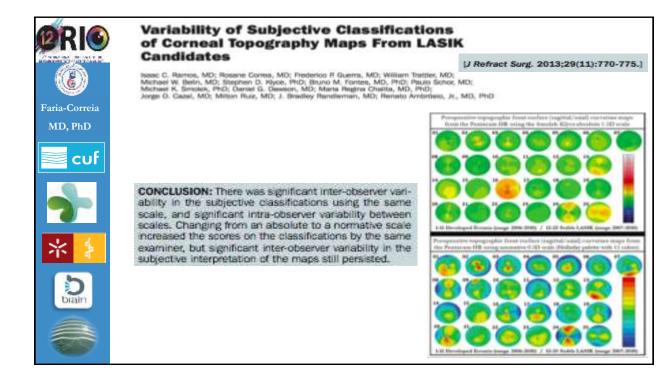
Randleman JB, Woodward M, Lynn MJ, Stulting RD.

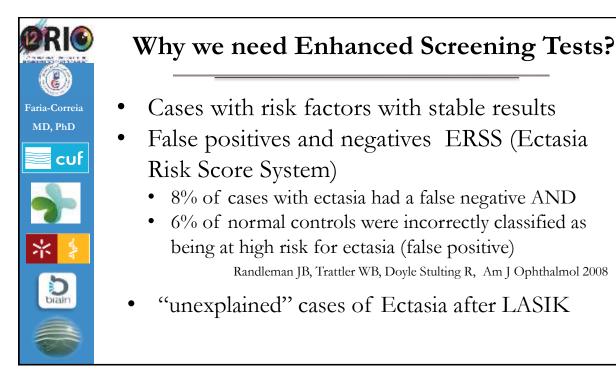
Ophthalmology 2008; 115: 37-50

Comprehensive, weighted, risk factor scale significantly improves the identification of high

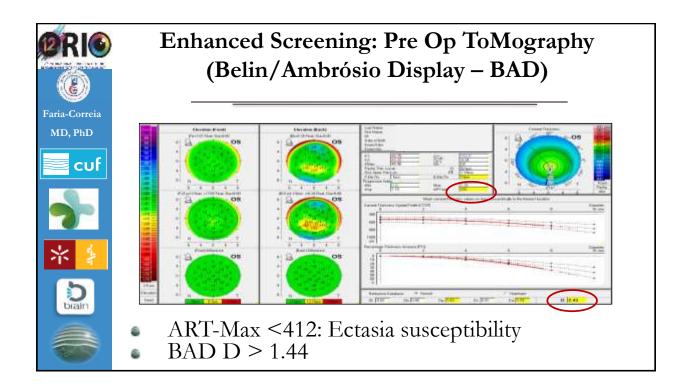
risk eyes

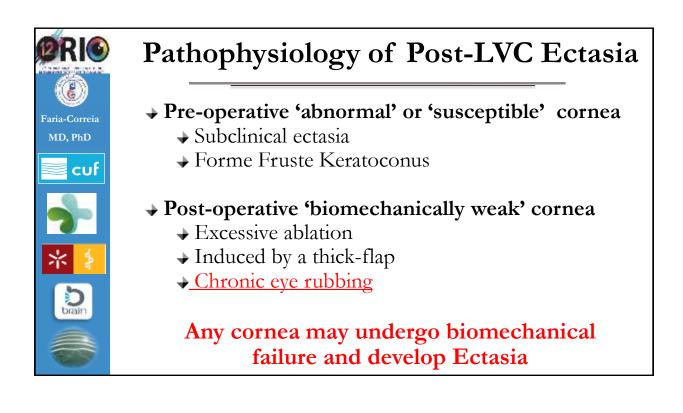
Parameter	Point Value			e	1 M
	4	3	2	1	0
Topography Pattern	Abnormal	Inf. Steep Skewed Radial Axis		Asymmetric Bowtie	Normal Symmetrical Bowtie
Residual Stromal Bed	<240µ	240 to 259µ	260 to 279µ	280 to 299µ	300µ
Age		18 to 21y	22 to 25y	26 to 29y	30y
Preoperative Pachymetry	<450µ	451 to 480µ	481 to 510µ		510µ
MR (SE)	>-14D	>-12 to -14D	>-10 to -12D	>-8 to -10D	-8D or less





## We need Enhanced Screening! unexplained" cases of Ectasia after LASIK Faria-Correia MD, PhD Age Eye Sph Cyl Axis cuf 31.9 -5.75 -0.50 95 L LASIK with Femtosecond (July/2008) Flap Thickness: 110µm (RSB=336; PTA=0.36)







'Forme Fruste Keratoconus is defined as a very susceptible cornea for ectasia progression and may present with `normal` topography."

Renato Ambrósio Jr, MD, PhD (2009)

