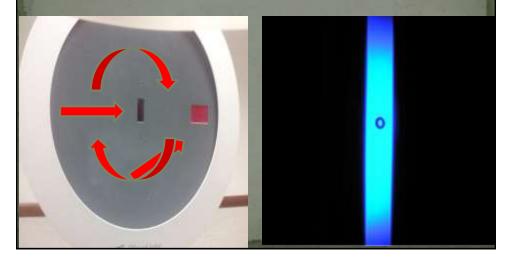
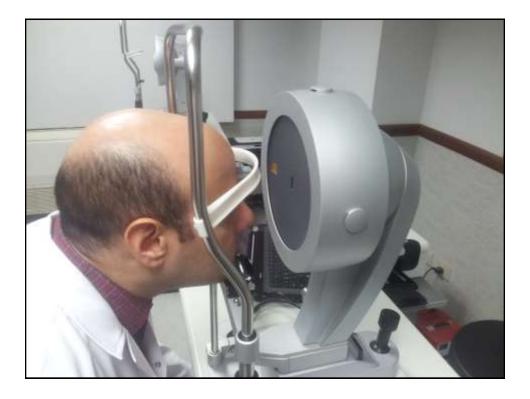


• The device have two cameras, one in the center for controlling fixation, and a rotating camera to capture the slit images.

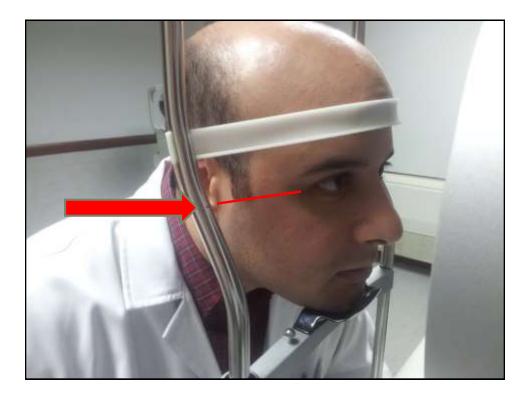


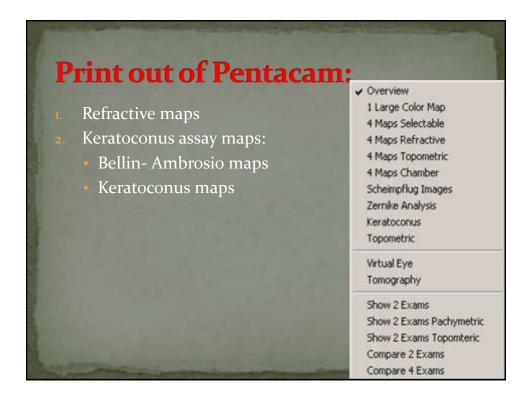
	Regular Pentacam	HR Pentacam
Light source	blue LED	s (475 nm UV-free)
Speed	50 images in 2 seconds, 500 measuring points per image	50 images in 2 seconds, 2760 measuring points per Scheimpflug image
Number of measured points	max. 25.000	max. 138.000

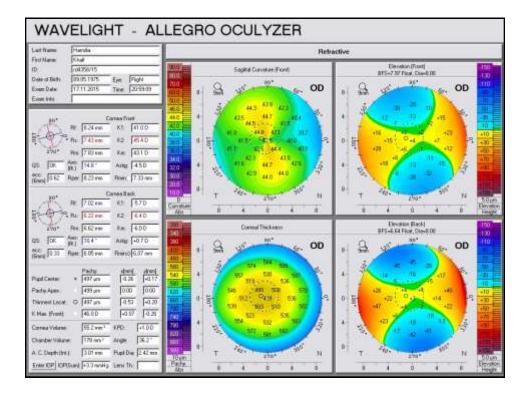


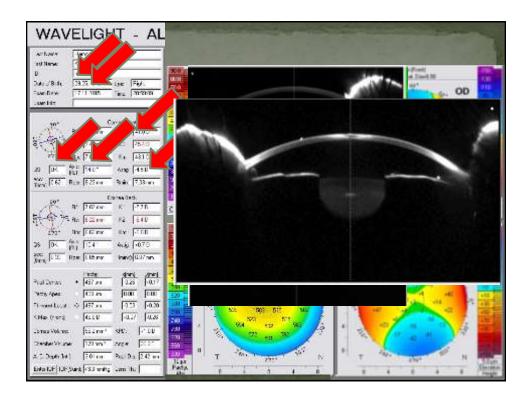


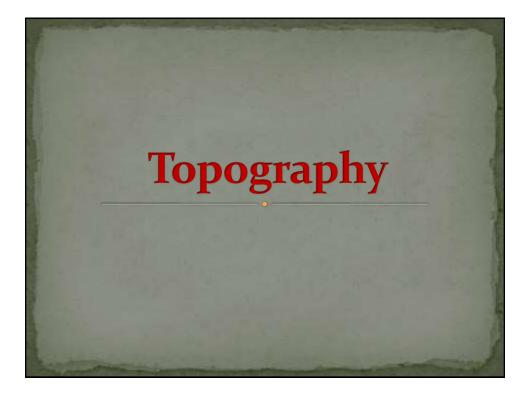


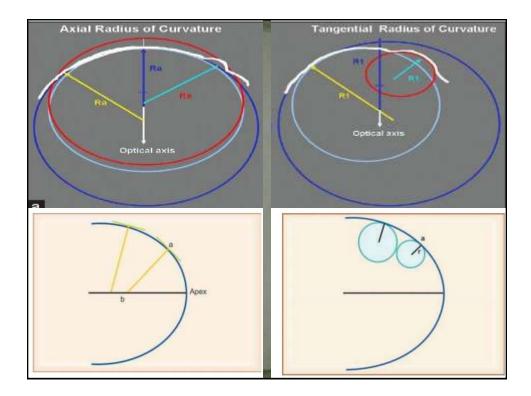


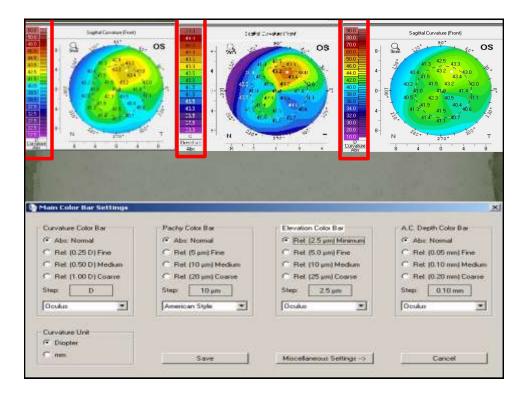


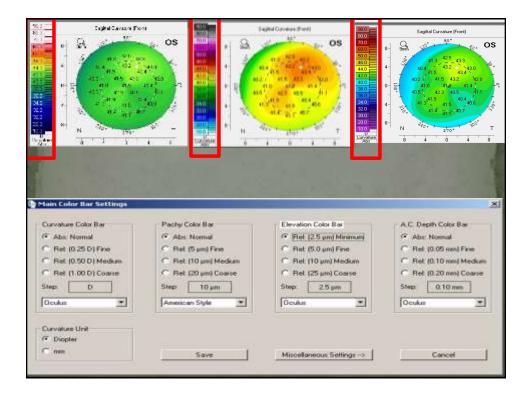


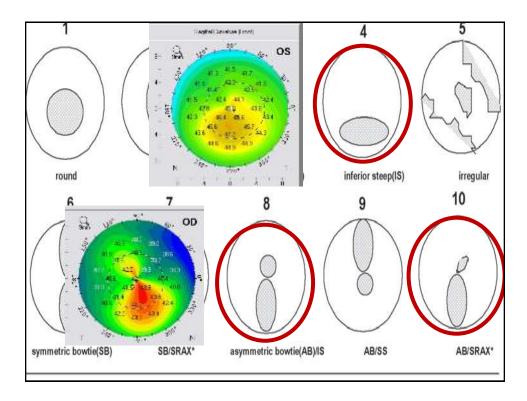






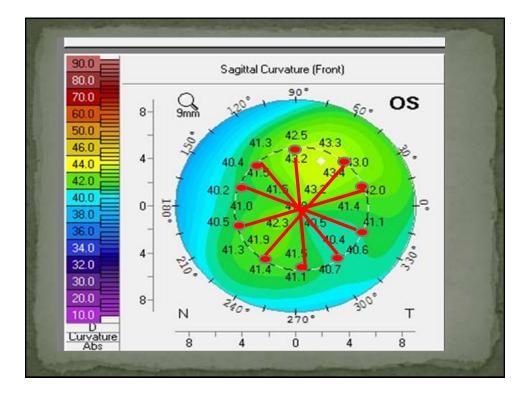


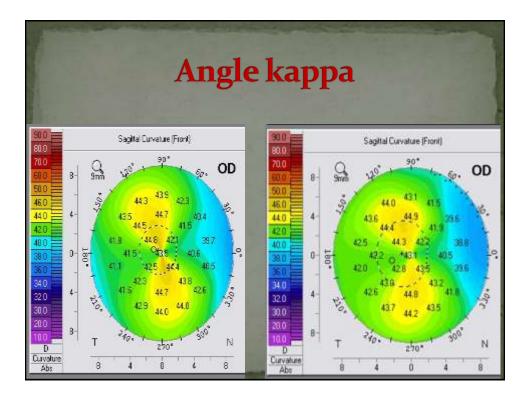




Abnormal topographic findings:

- K readings more than 49 D
- Abnormal topography as inferior steepening
- Skewing more than 22 degrees
- Astigmatism more than 5-6 D
- I-S difference of more than 1.5 D at the 4 mm circle





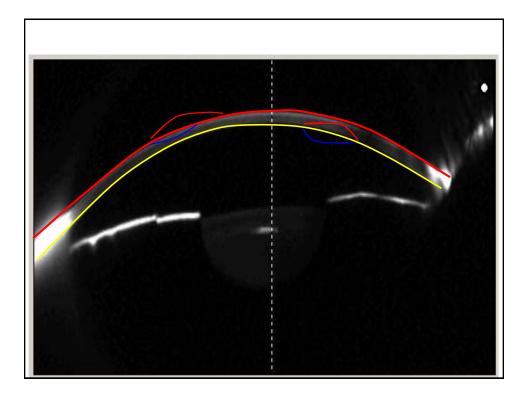
Elevation maps (Floats)

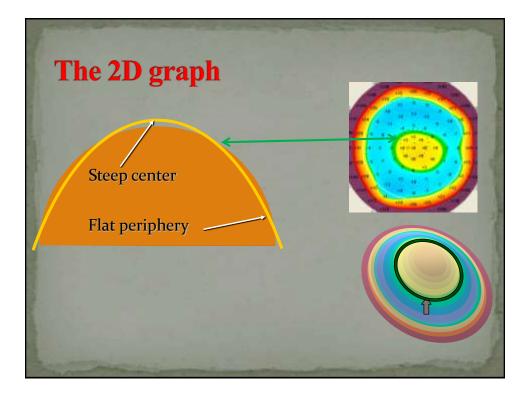
 No normal reference to compare normal from abnormal corneas.

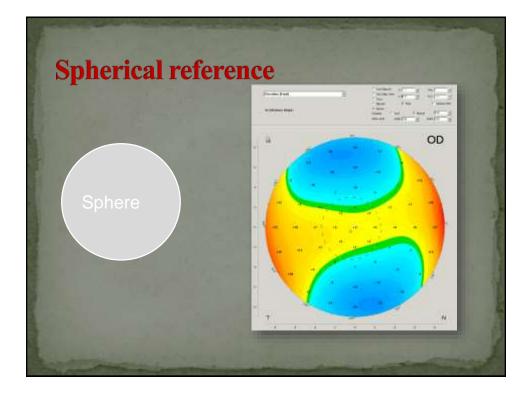
Comparing the acquired data to some standard reference surface (shape).

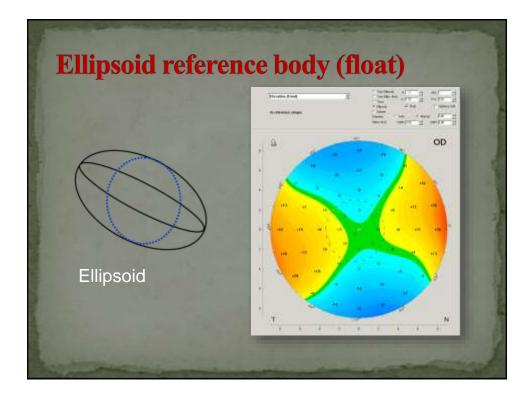
• Subtracting this known shape from the acquired data highlights the differences .(Elevation maps)

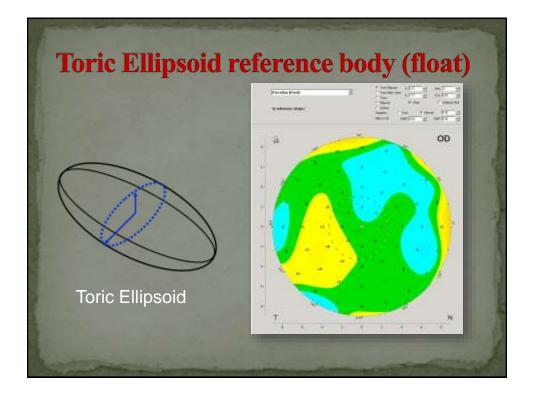
The reference body	I STATE AND
Data surface (cornea) Best fit (sphere)	all a way of the second
Calculation diameter = fitting zone Calculation Diameter Automatic Manual 8.00 mm	and the second s

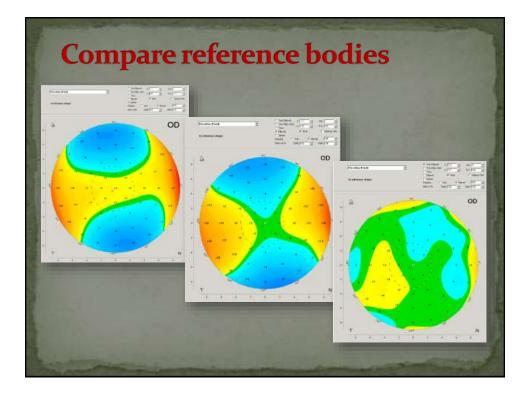


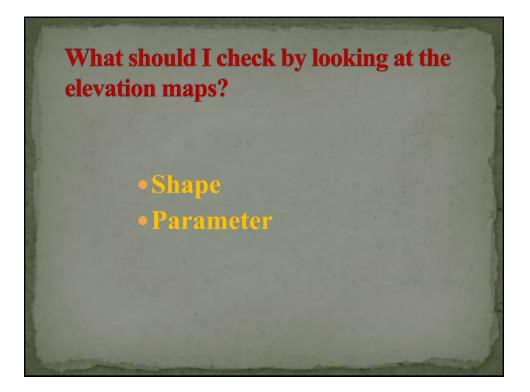


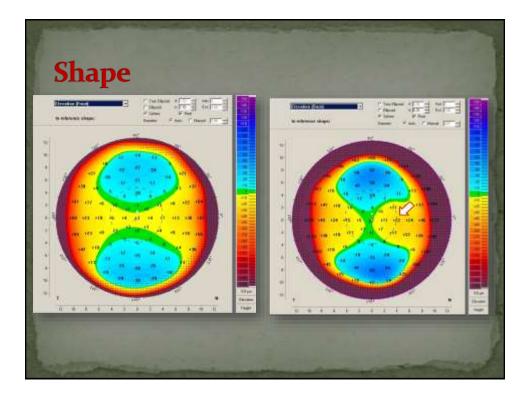


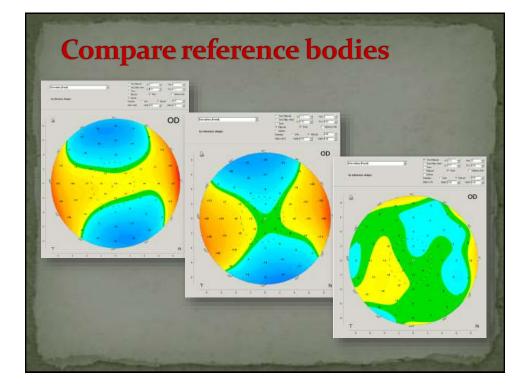


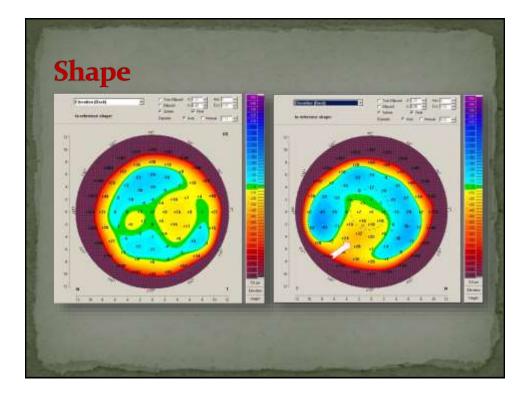


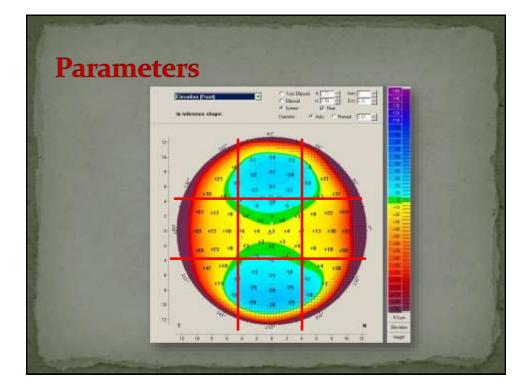


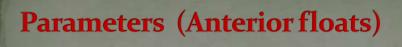






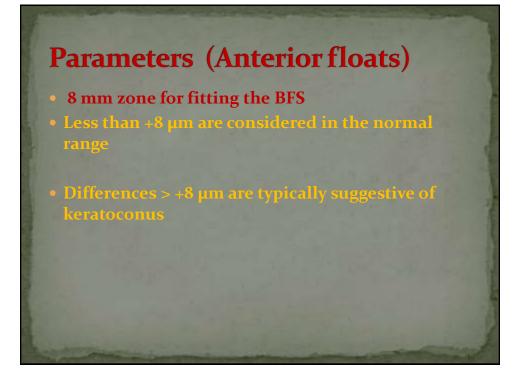


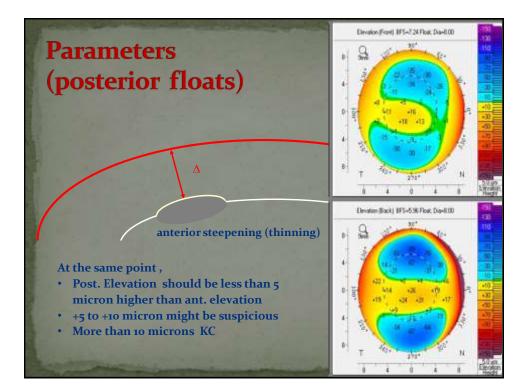


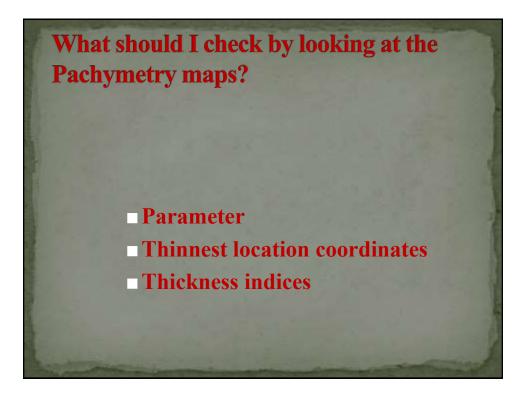


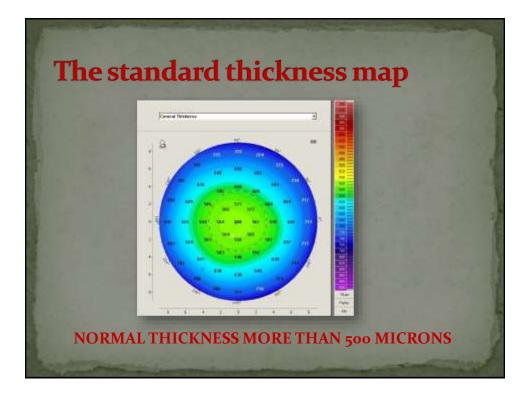
9 mm zone for fitting the BFS:

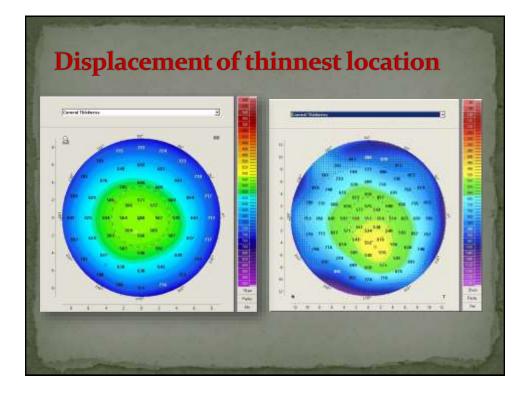
- Less than +12 μm are considered normal
- Between +12 μm and +15 μm are suspicious
- More than +15 μm are typically indicative of keratoconus

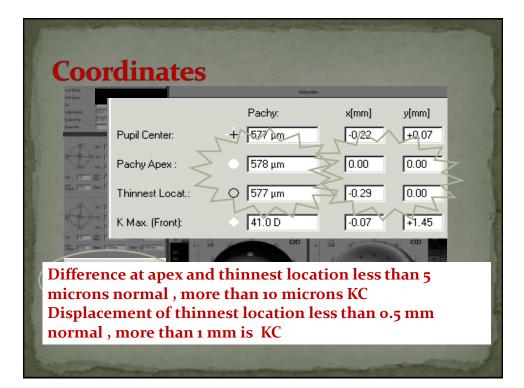


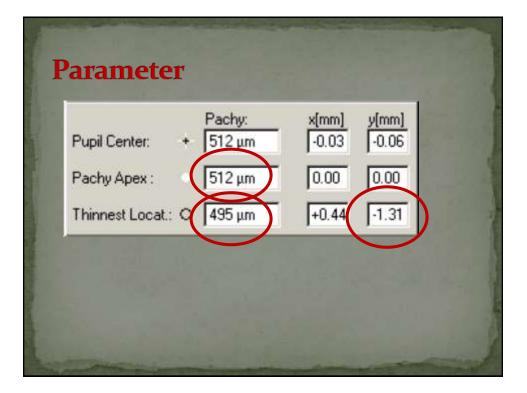


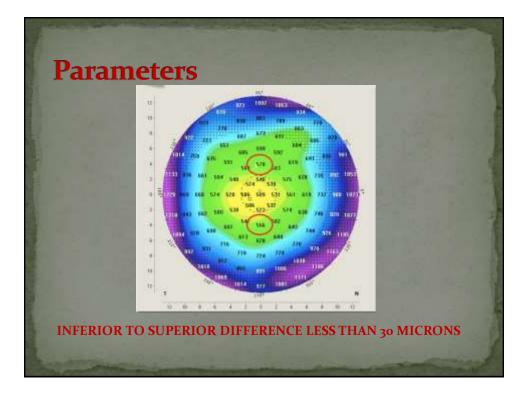


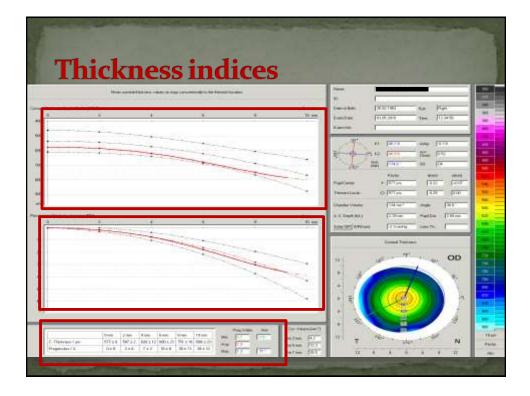


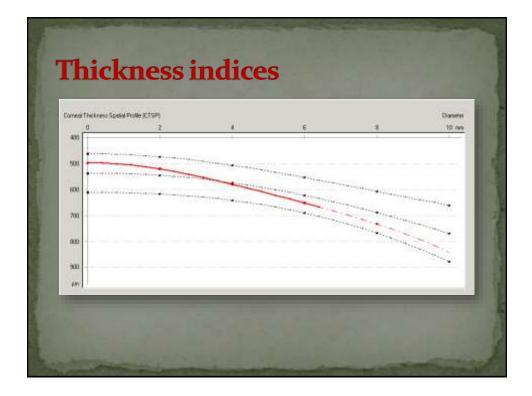


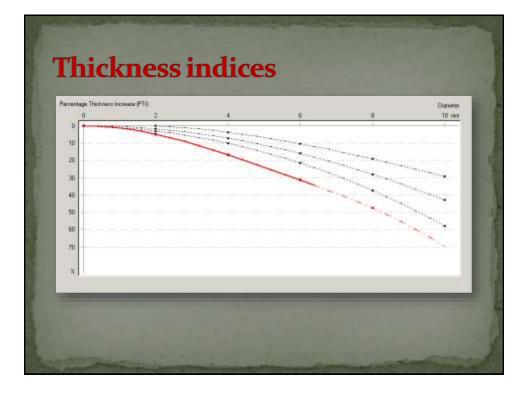


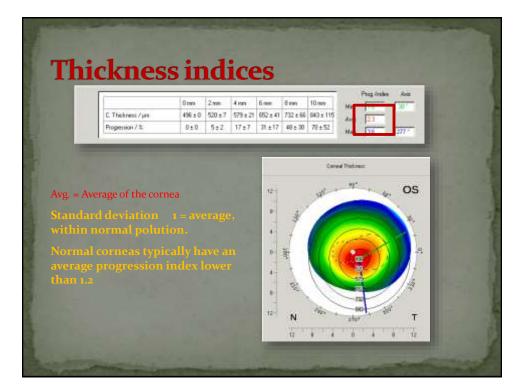


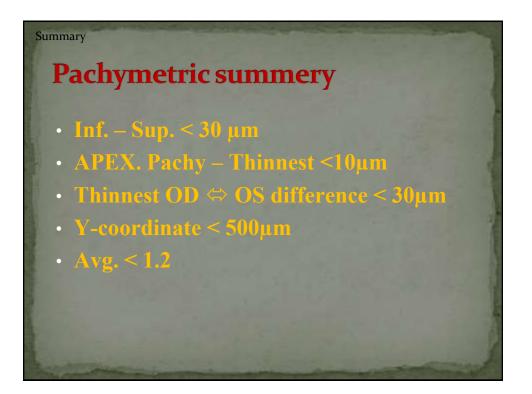








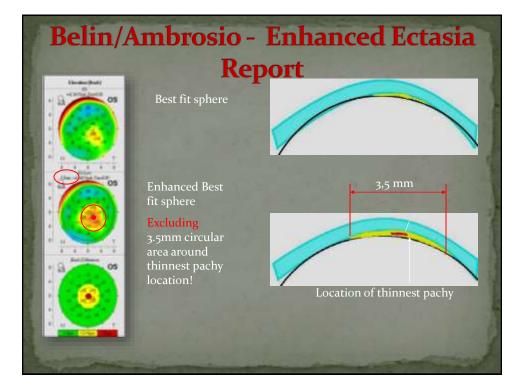


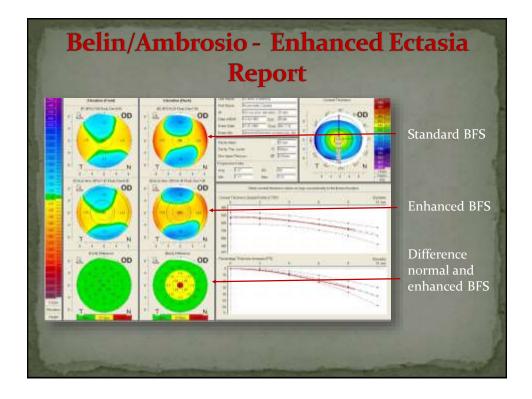


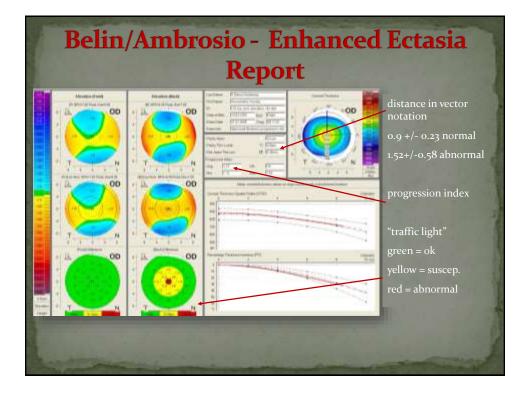


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ISV.	Index of Surface Vasance) Value of a variation from the nexus curvature. Index of Vertical Augementy Value of graneity comparison of the upper and	Outvolum	e Hine	Name (Trans. Angus D (Print Law) Date of the (TLR Visit From Date (TLR Visit) From Date (TLR Visit)	
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IHA:	(Index of Height Asymmetry) Value of I symmetry comparison of the upper and	We want to be a set of the set of	5. 18 m	Namericanar D (194 yrs Charles Walnes (197 yrs	- 140 140 - 140
0HD:	(Index of Height Decentration) Value a decentration of Height data in vertical			A C Deck (res) [2 71 mm <u>Low CP</u> (Pfilon) [741 mm	
BMin:	(Minimum Segital Curvalum)	Index	Abnorm	al (yellow)	Pathological (re
	Singlest sepital curvature in the line	ISV	≥ 37		≥41
ABR:	(Abertation coefficient) Value of the o	IVA	≥ 0.28		≥ 0.32
	the comes have adoutated with Zeen	KI	> 1.07		> 1.07
		CKI	≥ 1.03		≥ 1.03
	(Industry) (Instance)	Rmin	< 6.71		< 6.71
NAL D	40 10	IHA	≥ 19		> 21
86 JE	in in Ta	IHD	≥ 0.014		> 0.016
	07 JUL 10	ABR	≥1		≥1

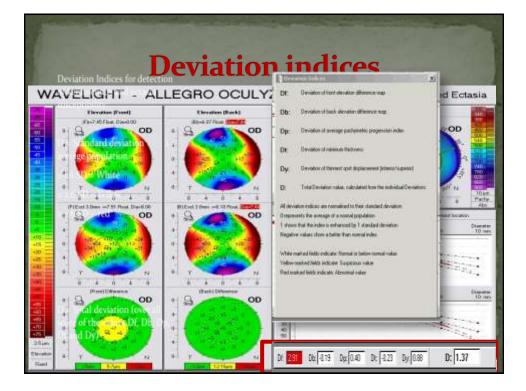
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- The green represents a change in elevation of less than 6 microns on the front surface and 8 microns on the back surface of the cornea (normal eyes).
- The yellow represent a change between 6 and 12 microns for the front surface and 8 to 20 microns for the back surface. (suspect zone).
- The red represents difference between the 2 maps is 12 microns anteriorly or 20 microns posteriorly (Keratoconus).



Summary						
Table 3.1: The norma	il, suspecte orneal top		al findings			
	Normal value(s)	Suspected value(s)	Abnormal Value(s)			
Quality specification (QS)	white	yellow	red			
K-readings:	look at flat K for myopic treatment look at steep K for hyperopic treatment		>48			
Corneal astigmatism	compare with astigmatism	>6				
Average Q-value Topometric map (vertical and inferior Q-values)	0 t0 -1	-0.5 to -0.55]0,-1[>-0.55			
Thinnest location			\frown			
Thickness	>500	470 - 500	<470			
Difference with pachy apex thickness	<5µ	5 – 10µ				
Co-ordinates	<500µ	500 - 1000µ	>1000µ			

	Sumn	nary		
Pupil center co-ordinates	important for treating hyperopia and >3D astigmatism			
KPD	<+0.75	+0.75 to +1.5	>+1.5	
Anterior curvature map				
Maximal K	important wi	nen treating hyperop	la	
pattern	refer to topo	graphical patterns		
I-S Rabinovich ratio			>+2	
Skewed Steepest Radial Axis Index (SRAX)			\bigcirc	
Superior-inferior difference on the 4mm circle			>1.5D when the interior is steeper >2.5 when the superior is steeper	

	Summary				
	Normal value(s)	Suspected value(s)	Abnormal value(s)		
Anterior-posterior Difference	<5µ	>5µ			
Isolated island (or tongue like extension)	might be an i	indicator for FFKC			
Corneal Thickness map					
Shape		cone like			
Superior-inferior difference	<30µ	>30µ			
Thinnest location difference between both eyes	<30µ	>30µ			
Keratoconus dlagram		\cup			
Shape and location of the curve		-out of normat before the 6m	ive range-deviation		
Average	1	1.1 - 1.2	> 1.2		
Indices of irregularity	white	vellow	red		

