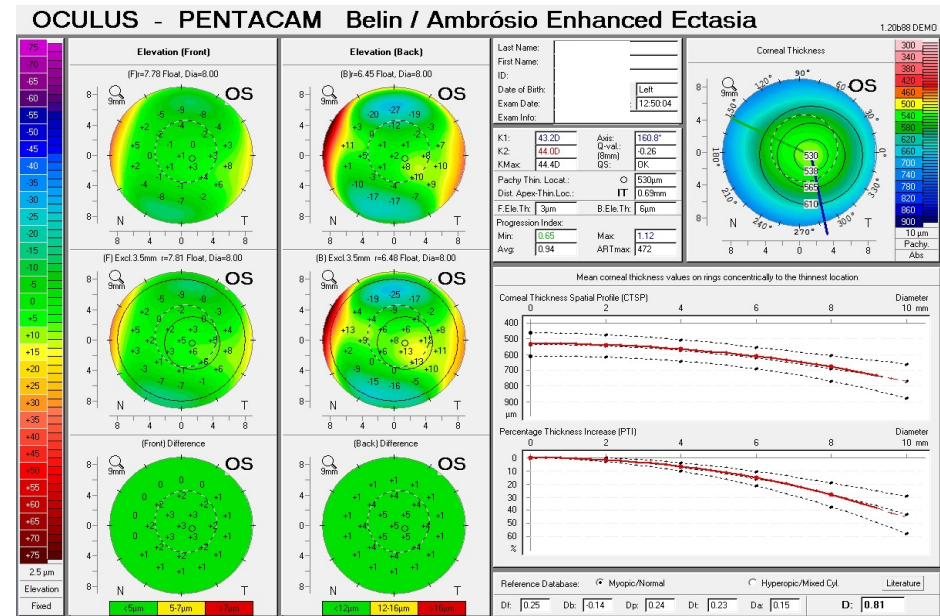
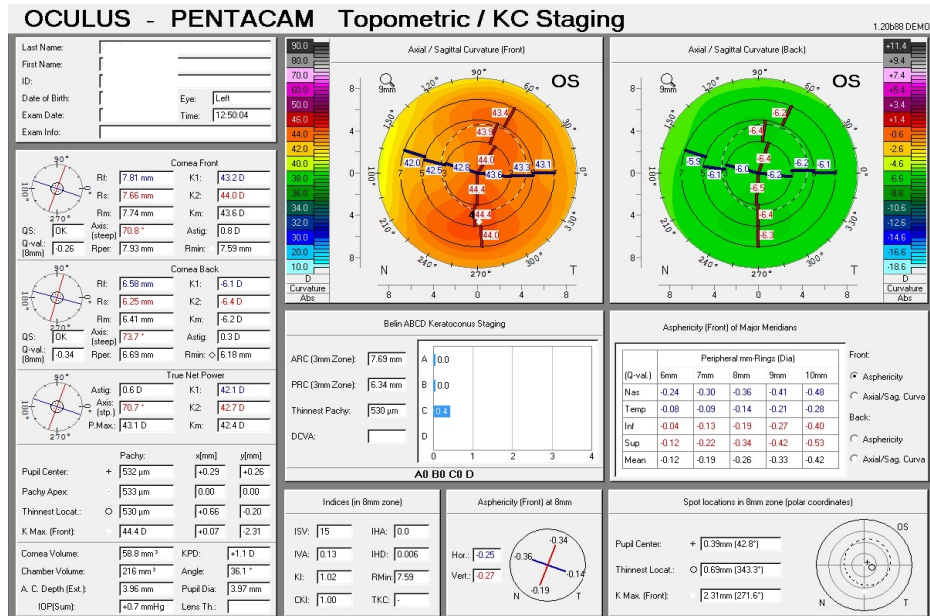
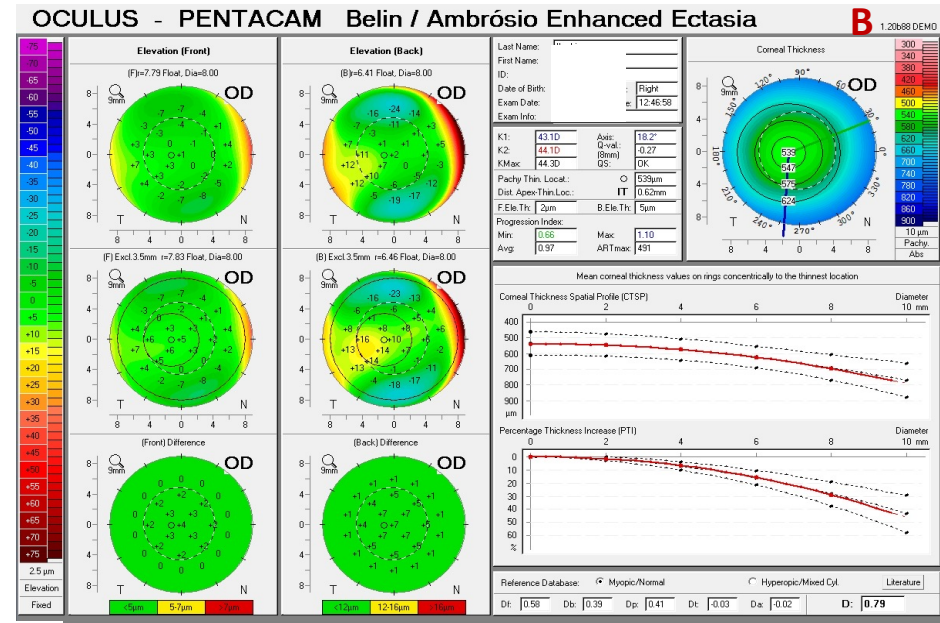
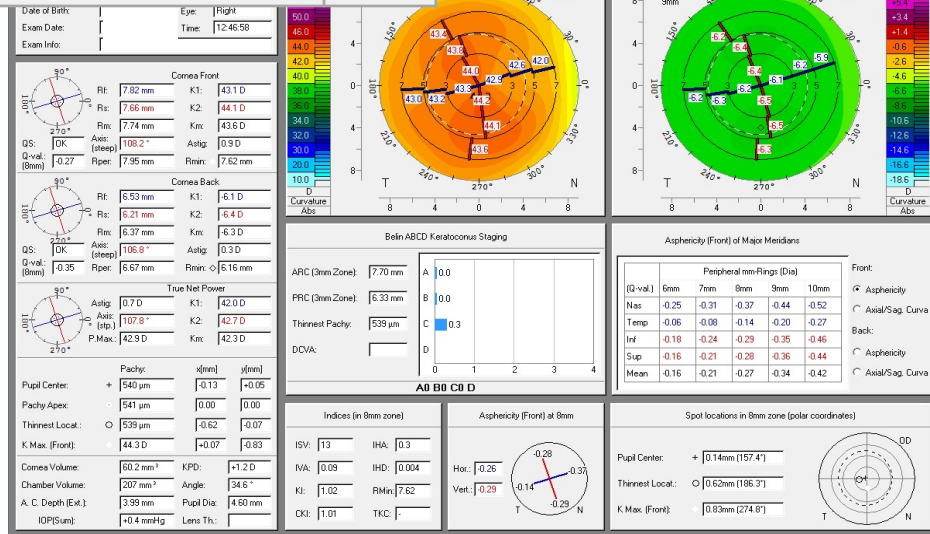


Supplementary Figure 1

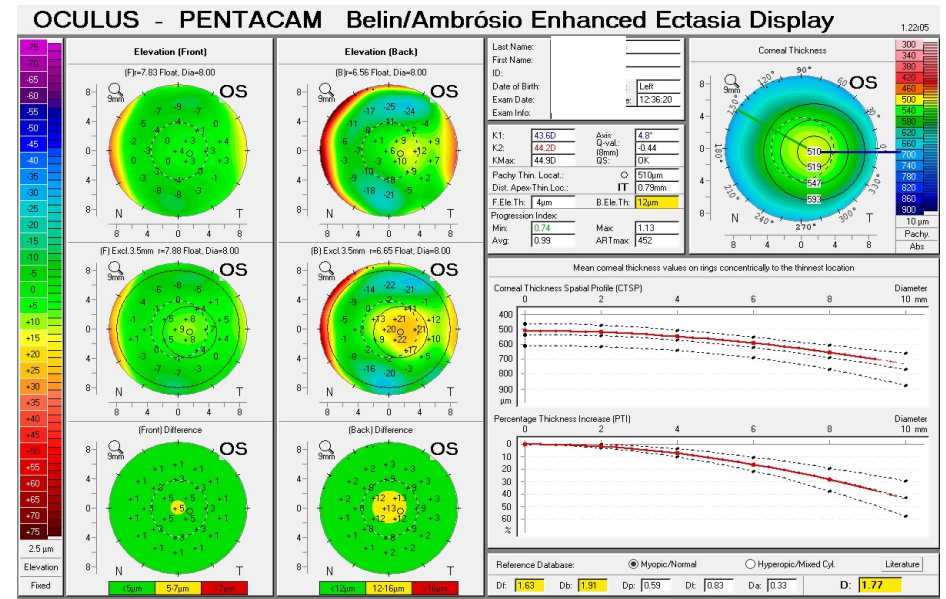
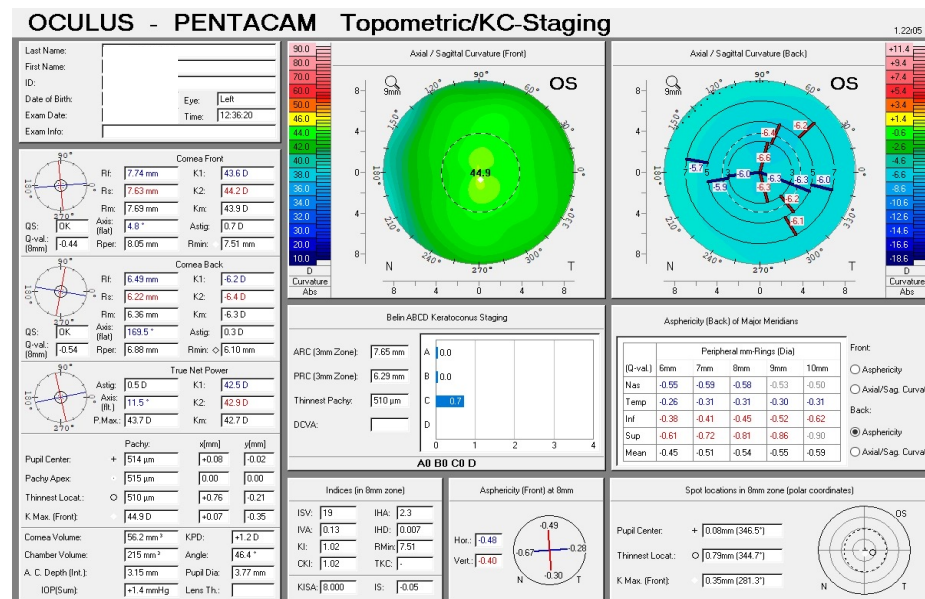
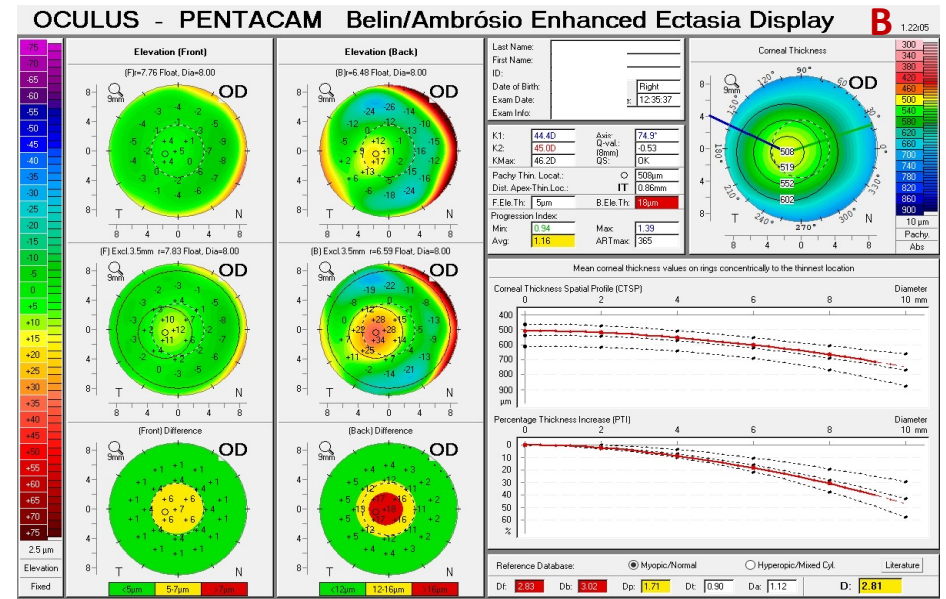
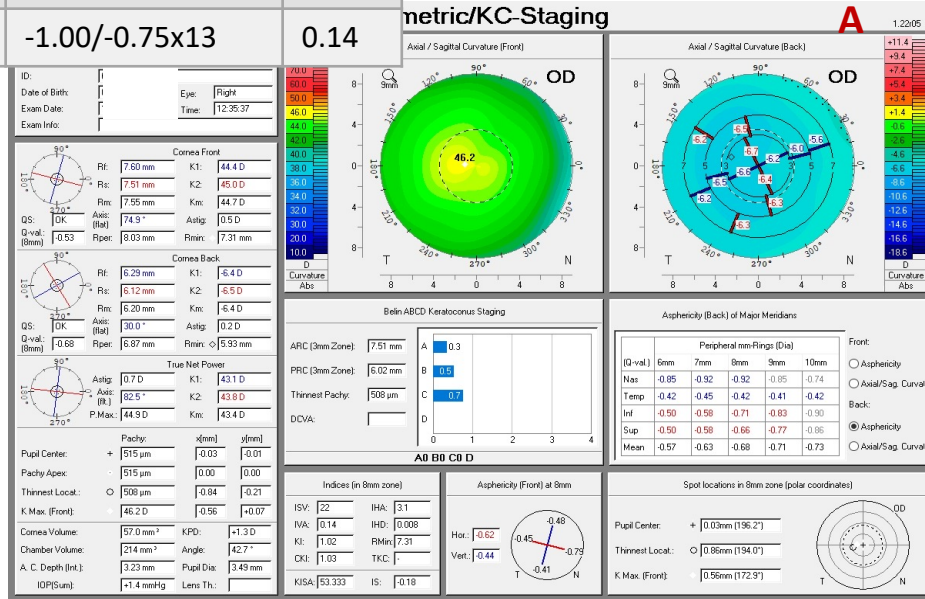
Patient 1	Eye	Preop Rx	PRFI
21 yo	OD*	-5.25/-0.25x180	0.012
	OS	No surgery performed	



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 2

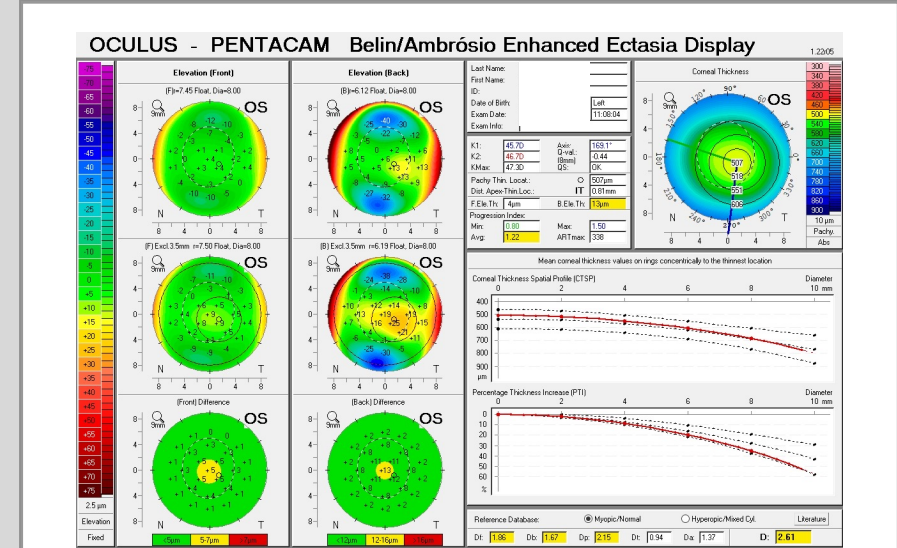
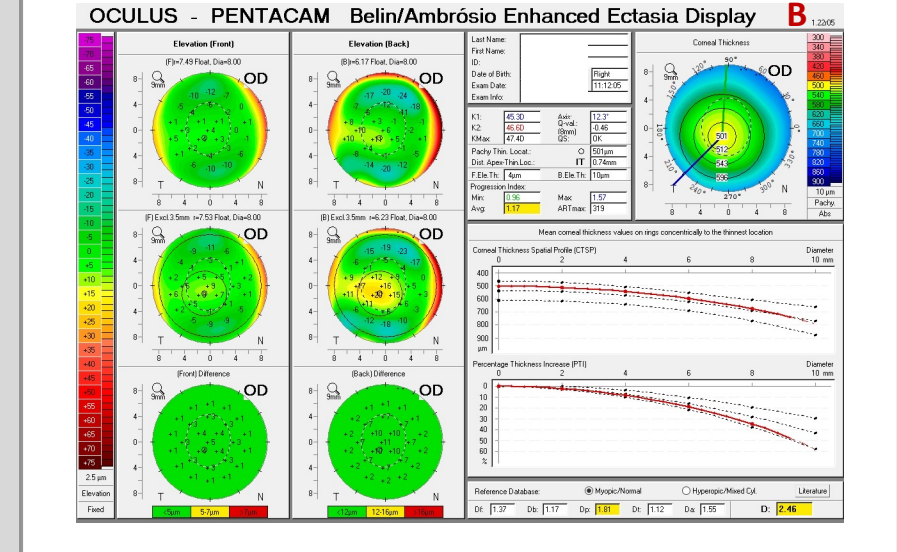
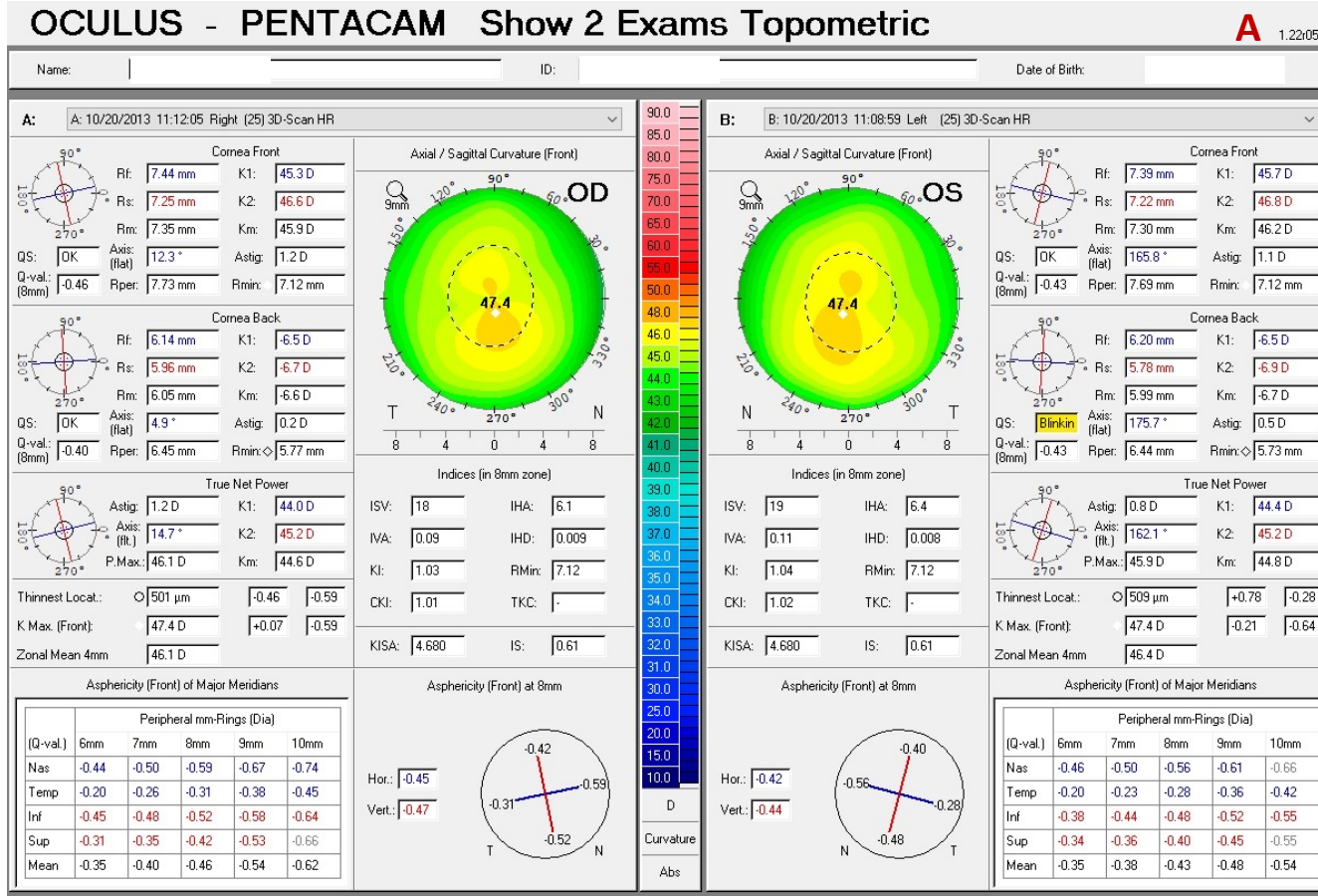
Patient 2	Eye	Preop Rx	PRFI
40 yo	OD*	-3.75/-1.00x75	0.54
	OS	-1.00/-0.75x13	0.14



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 3

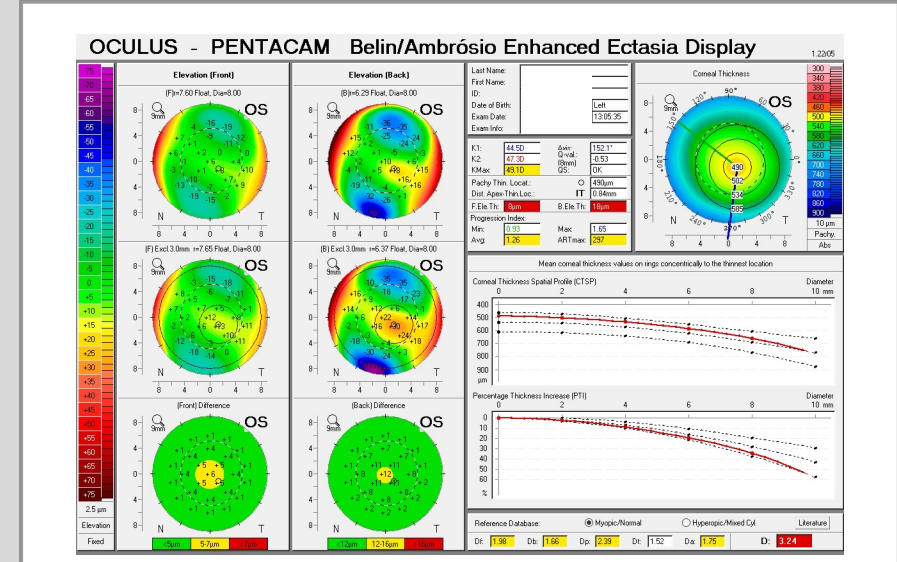
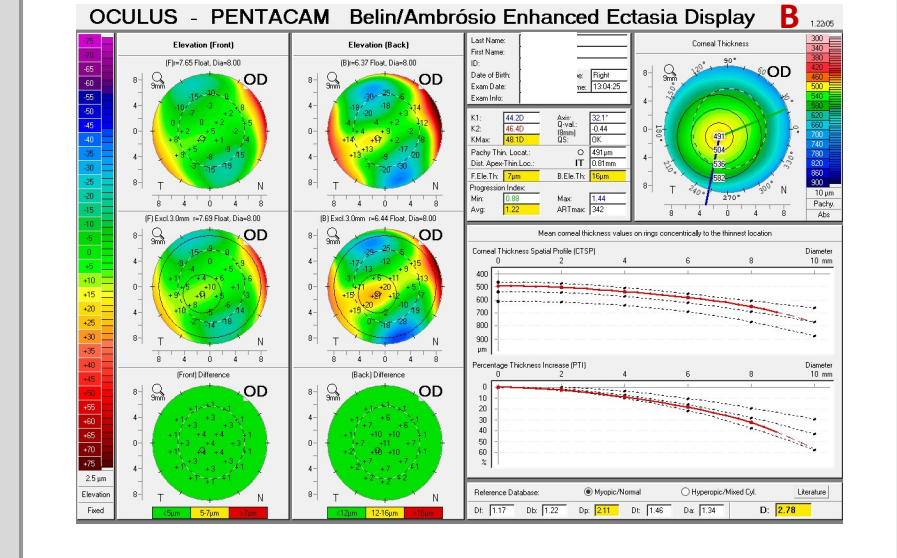
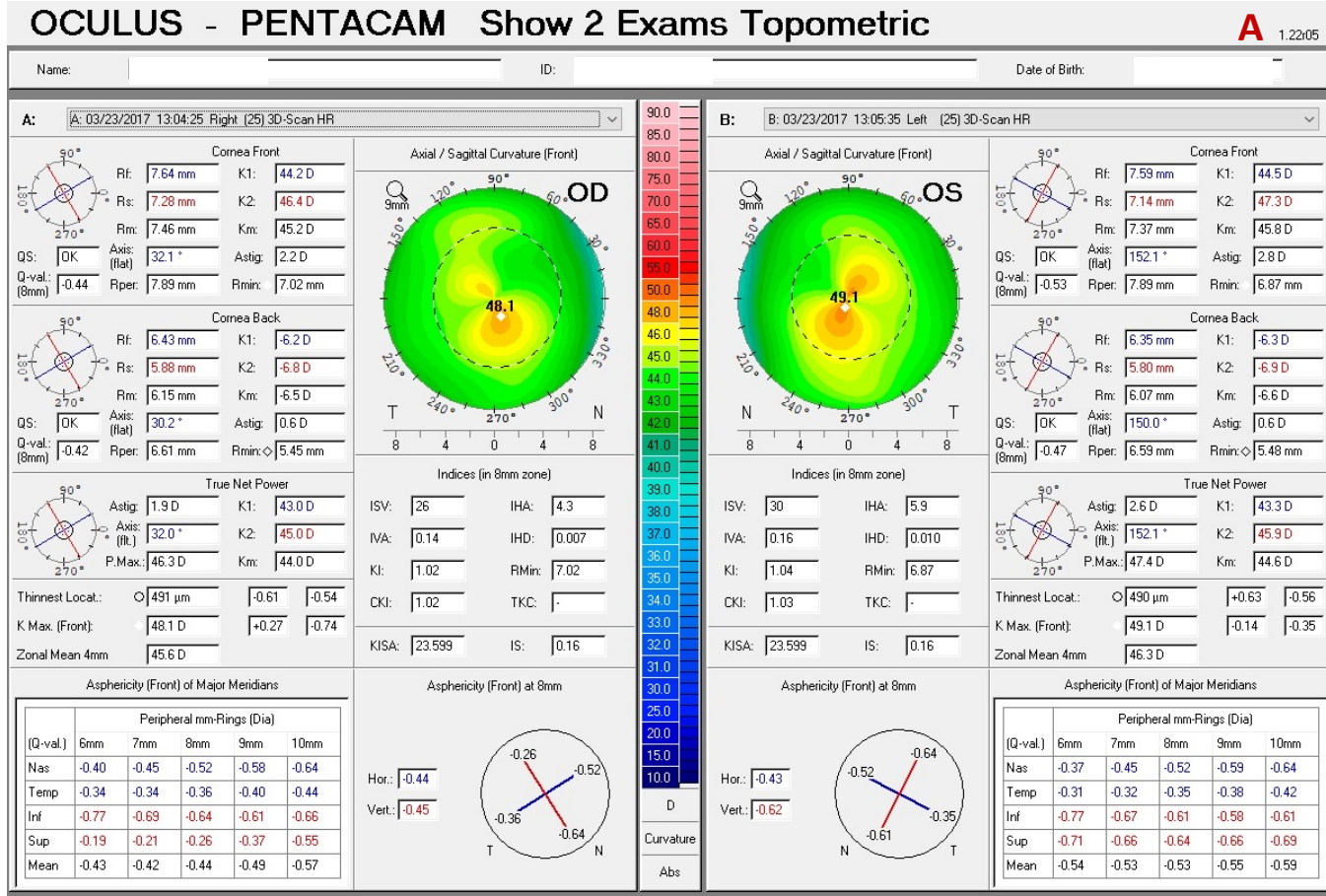
Patient 3	Eye	Preop Rx	PRFI
21 yo	OD*	-3.00/-0.50x5	0.48
	OS*	-3.25/-0.25x150	0.3



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 4

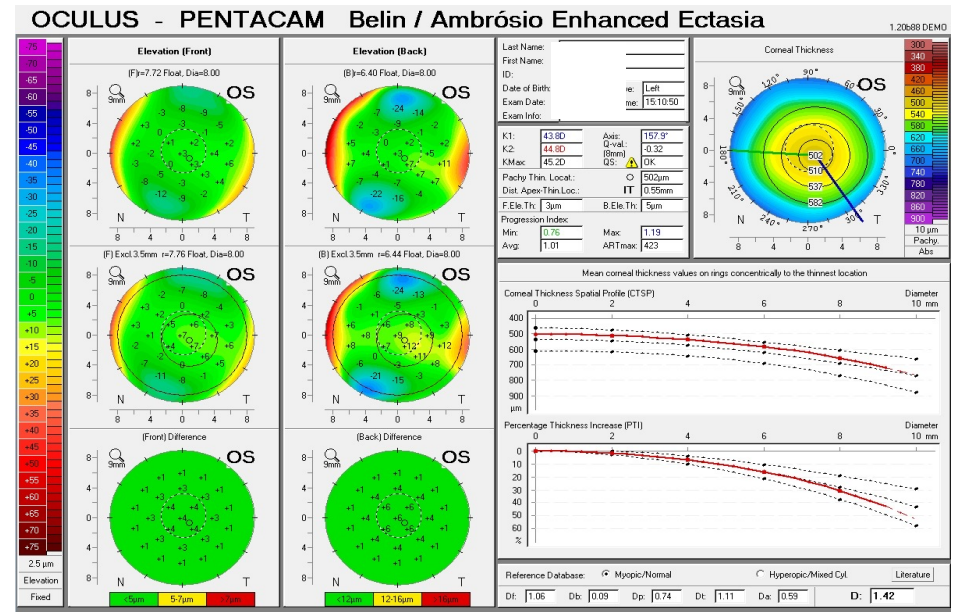
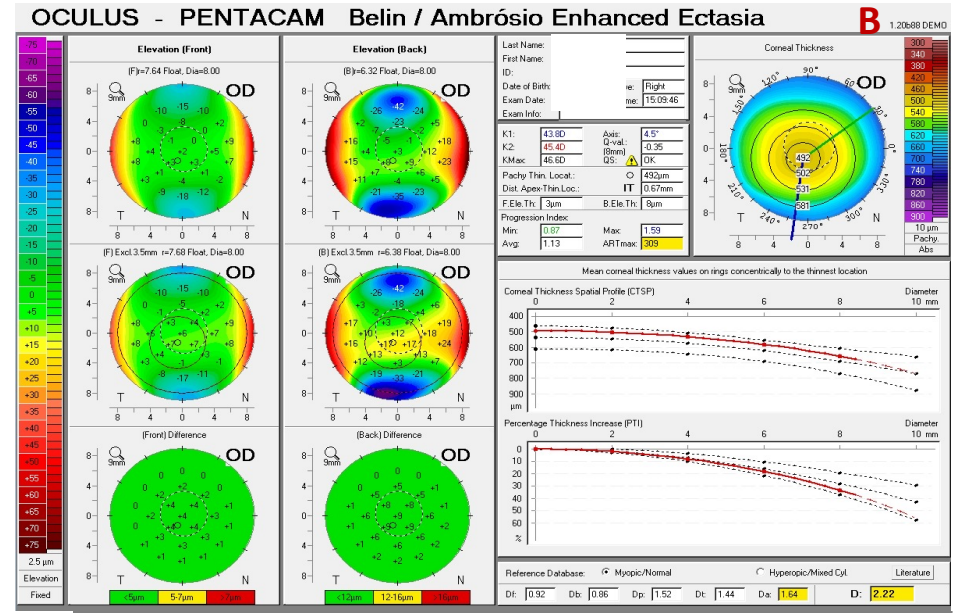
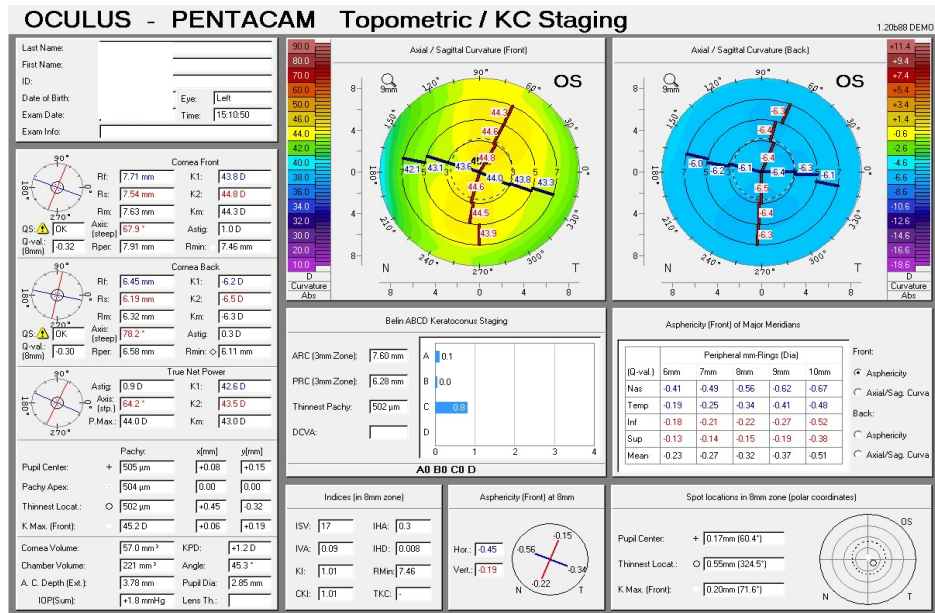
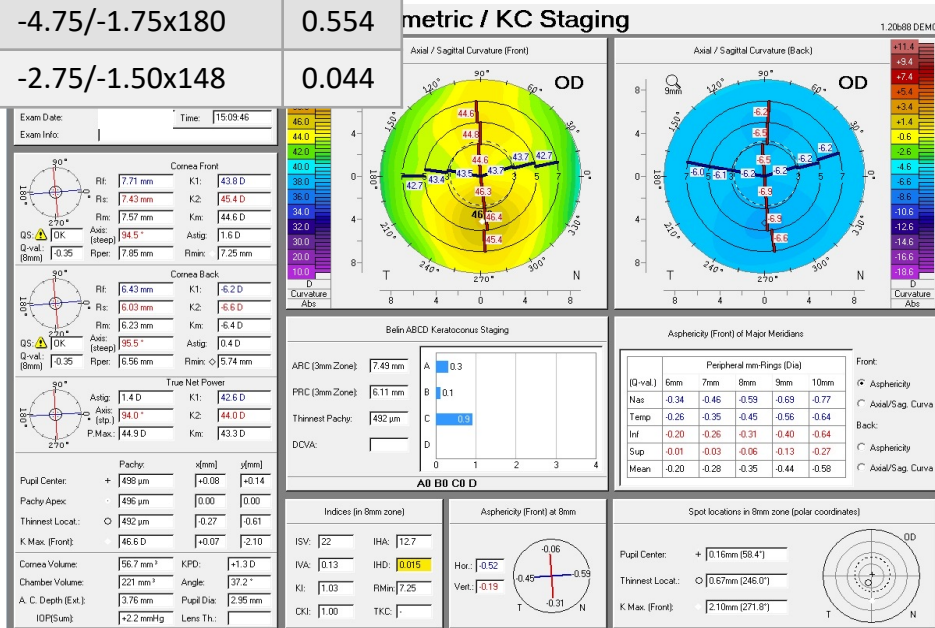
Patient 4	Eye	Preop Rx	PRFI
24 yo	OD*	-4.25/-2.00x30	0.578
	OS*	-4.25/-2.25x155	0.762



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 5

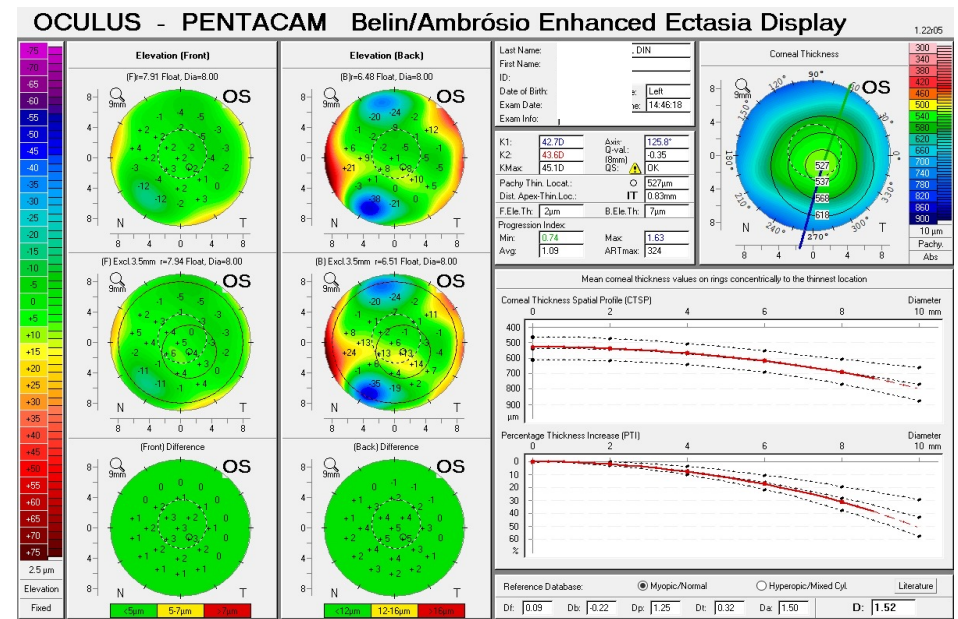
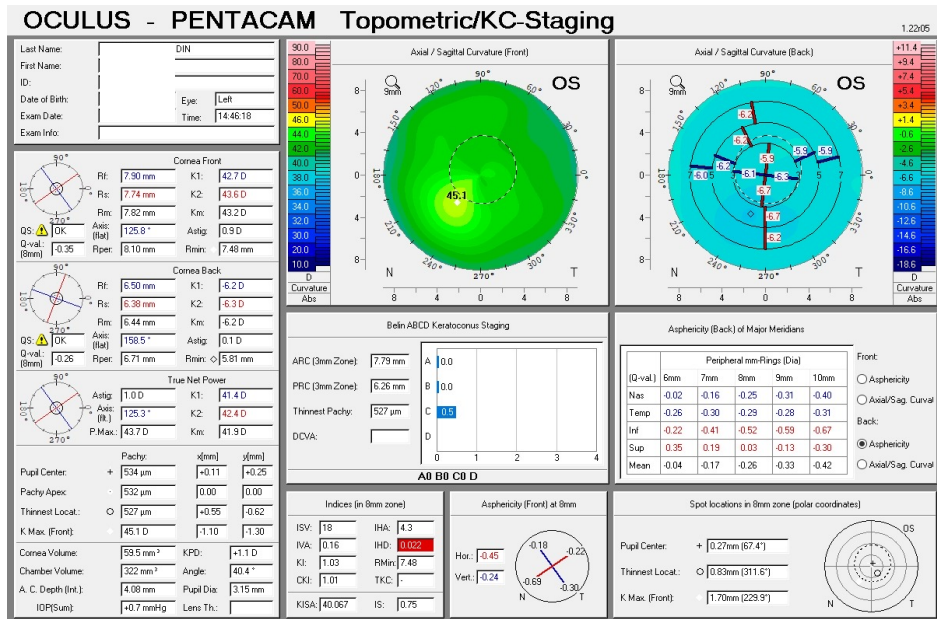
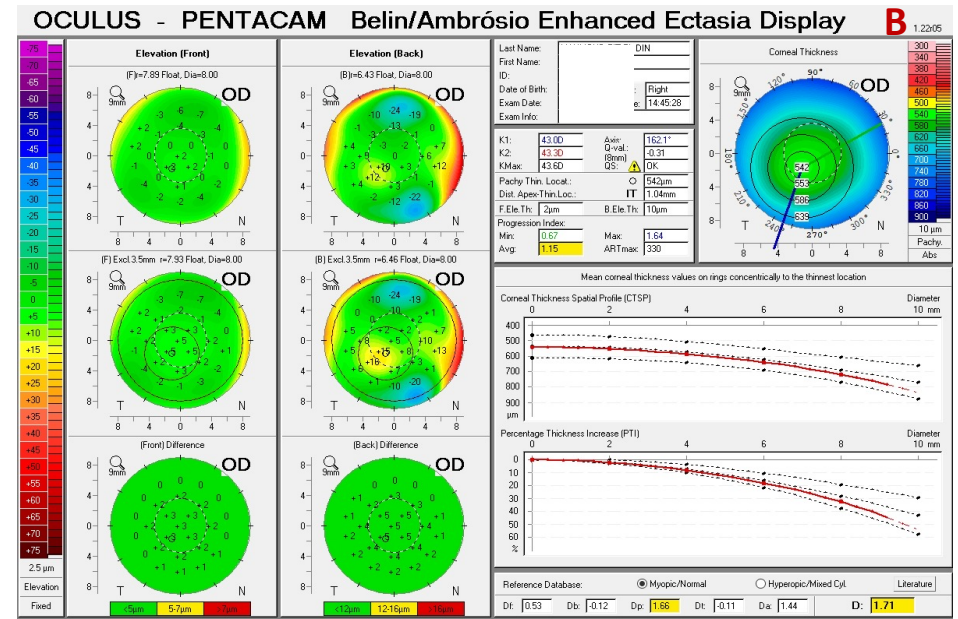
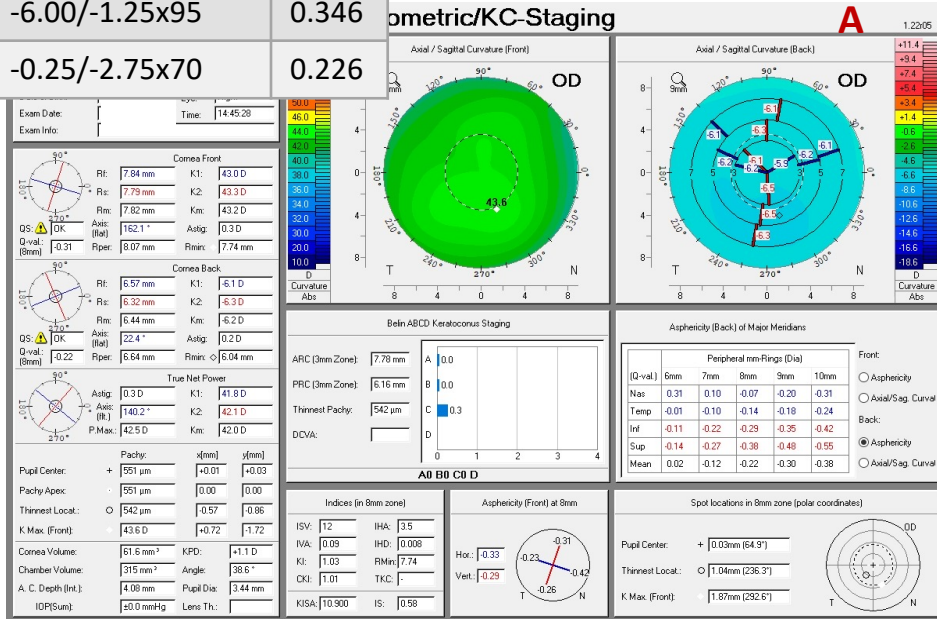
Patient 5	Eye	Preop Rx	PRFI
34 yo	OD*	-4.75/-1.75x180	0.554
	OS	-2.75/-1.50x148	0.044



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Patient 6	Eye	Preop Rx	PRFI
35 yo	OD	-6.00/-1.25x95	0.346
	OS*	-0.25/-2.75x70	0.226

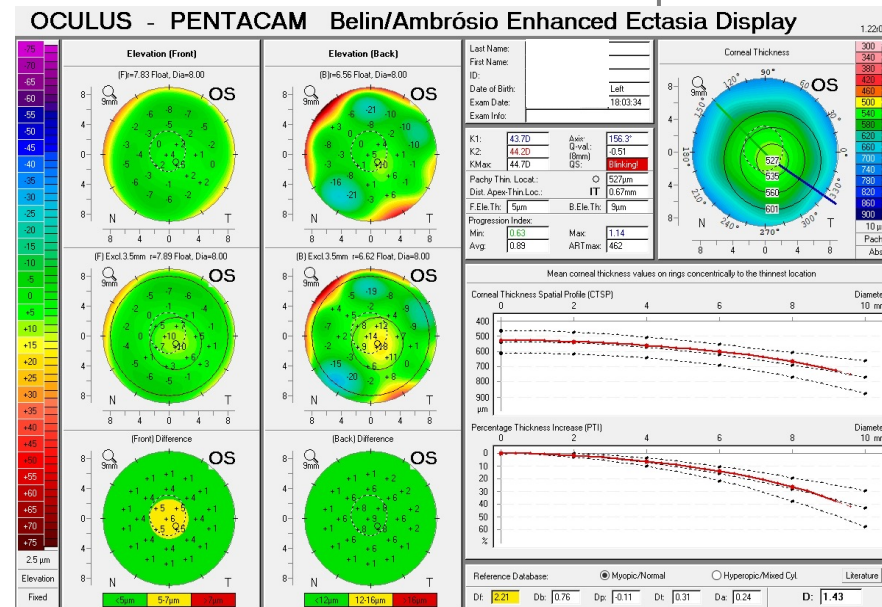
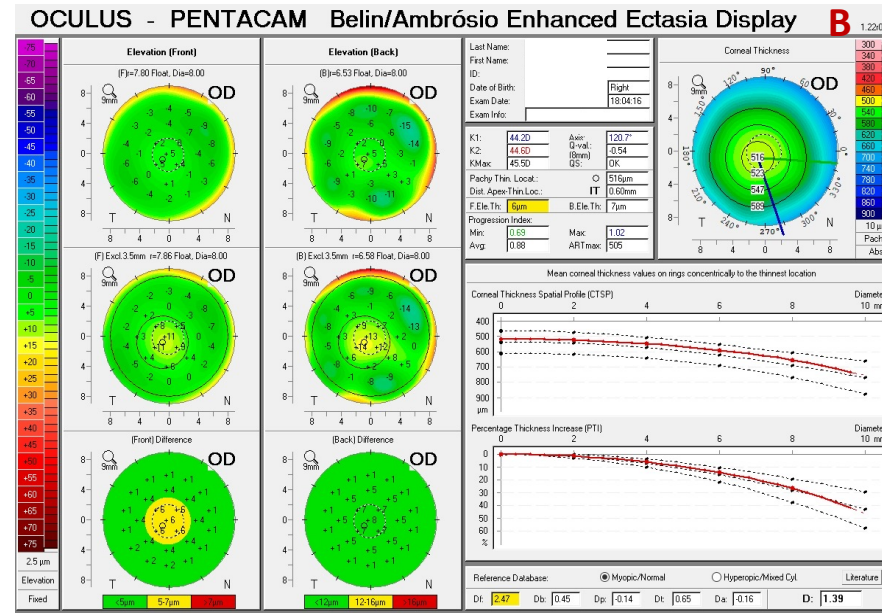
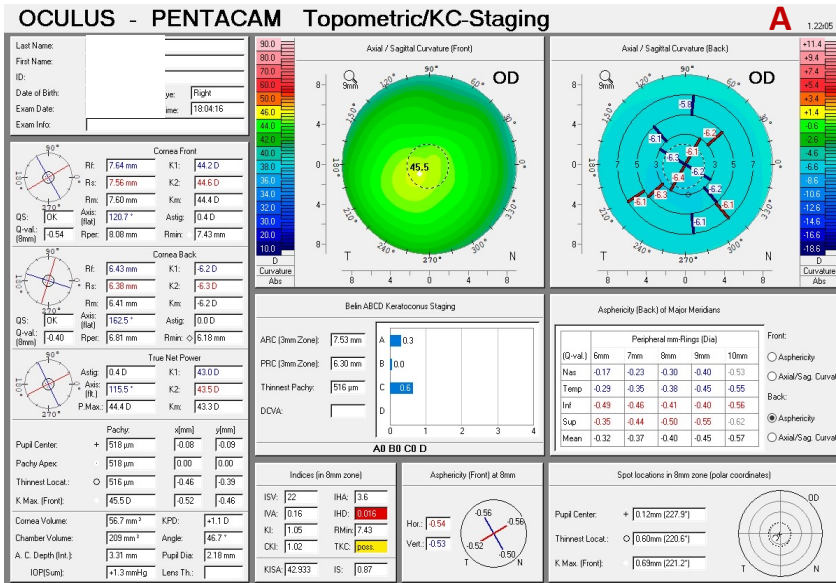
Supplementary Figure 6



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 7

Patient 7	Eye	Preop Rx	PRFI
24 yo	OD*	-4.00/-0.50x115	0.236
	OS*	-4.00/-0.50x175	0.198



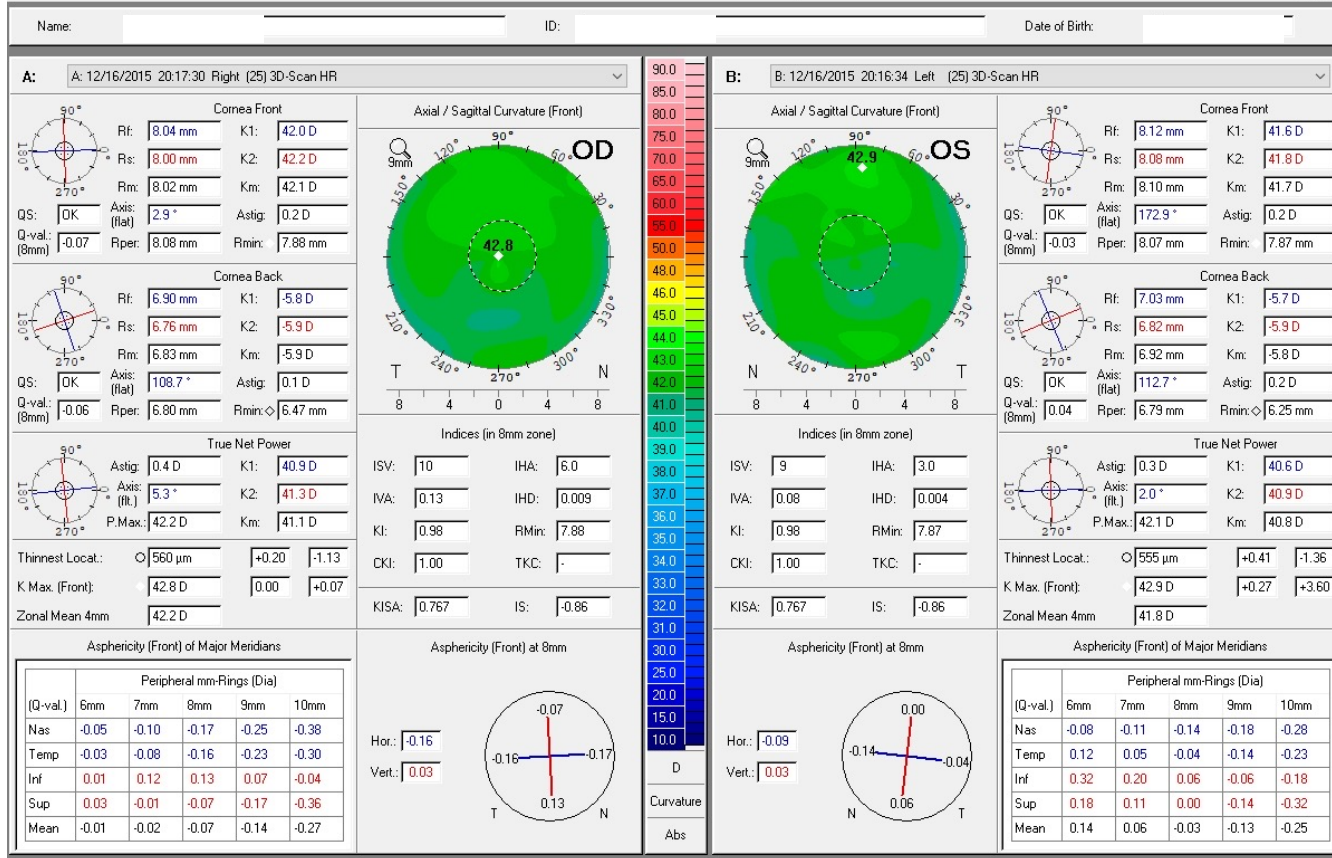
Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of Right eye (OD). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 8

Patient 8	Eye	Preop Rx	PRFI
24 yo	OD	-4.25	0.19
	OS*	-2.25/-2.50x80	0.098

OCULUS - PENTACAM Show 2 Exams Topometric

A 1.22.05

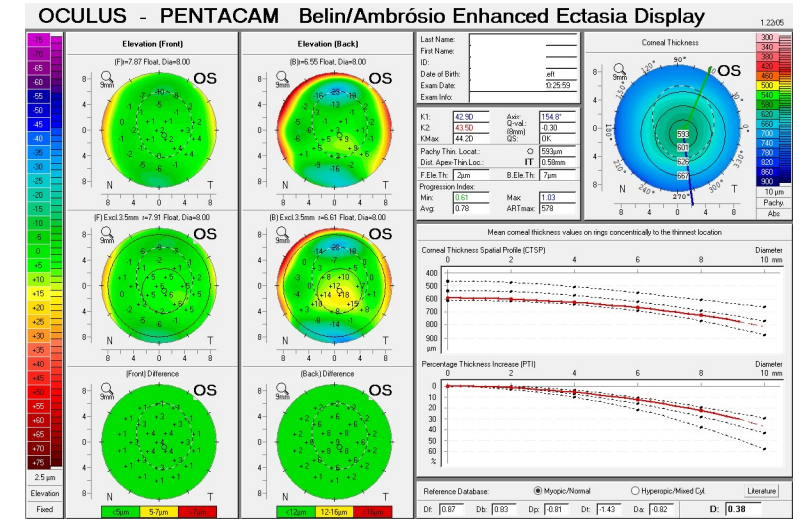
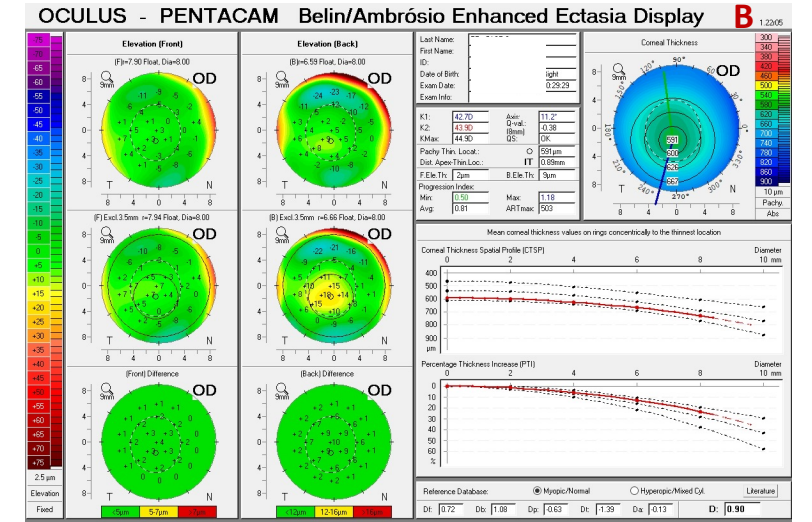
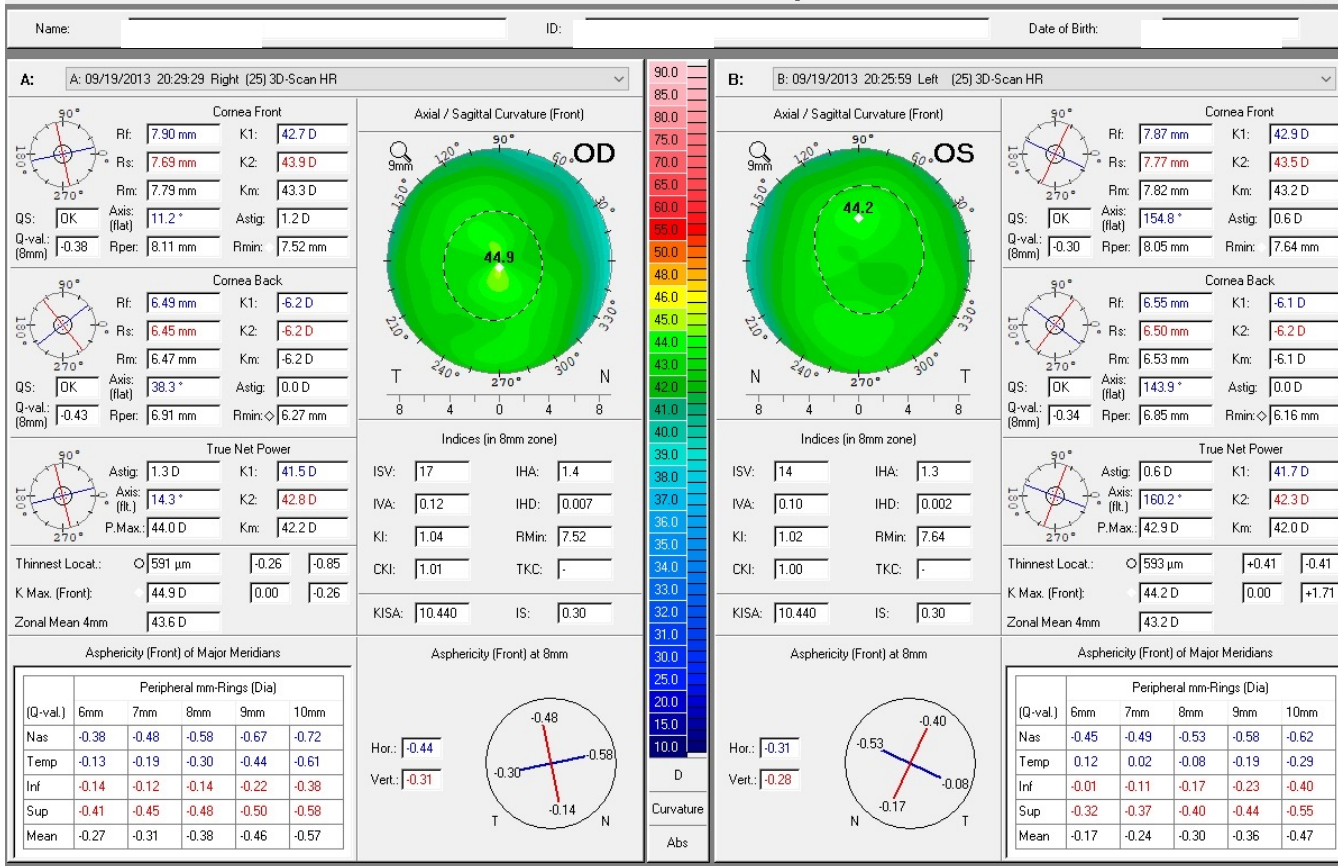


Supplementary Figure 9

Patient 9	Eye	Preop Rx	PRFI
25 yo	OD*	-3.50/-0.75x30	0.034
	OS	No surgery performed	

OCULUS - PENTACAM Show 2 Exams Topometric

A 1.2205



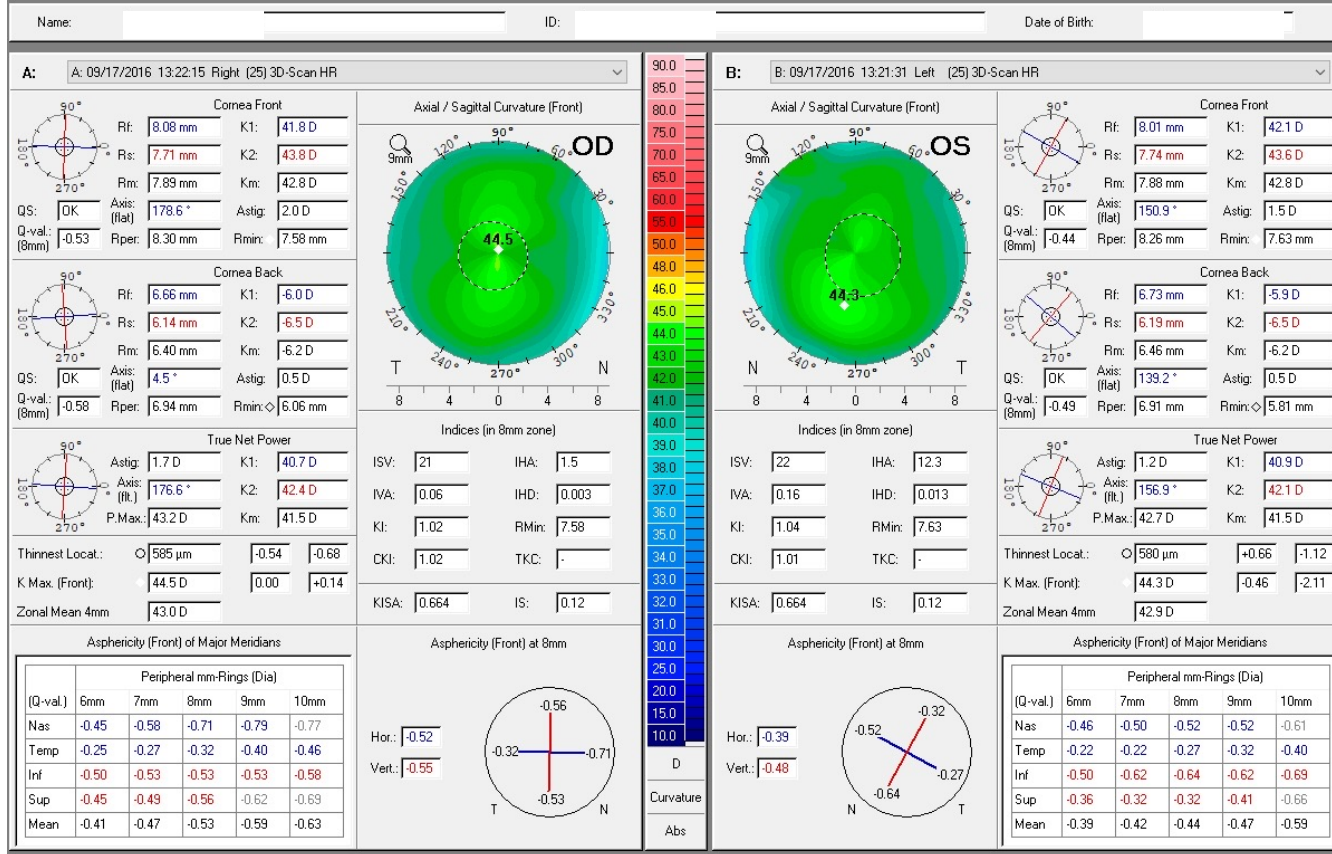
Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 10

Patient 10	Eye	Preop Rx	PRFI
21 yo	OD*	-1.00/-1.00x150	0.13
	OS*	-1.50/-1.00x160	0.72

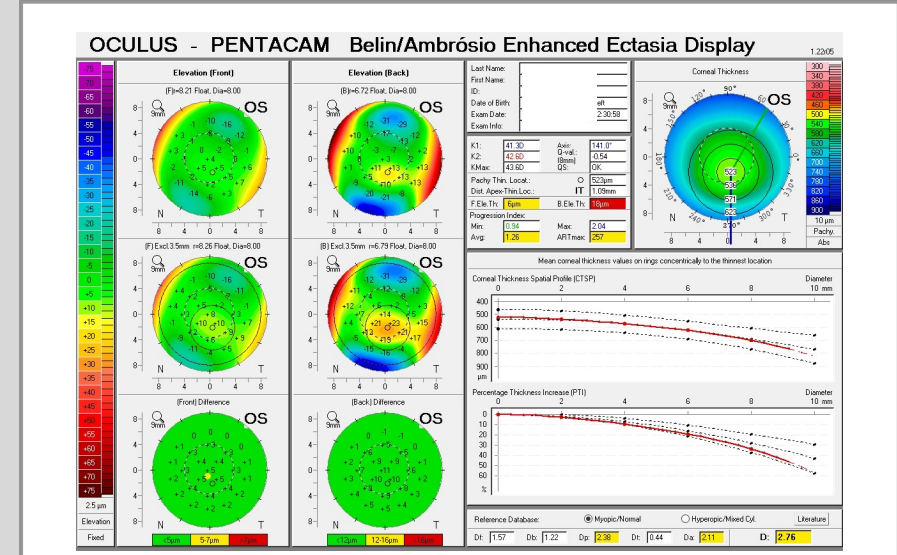
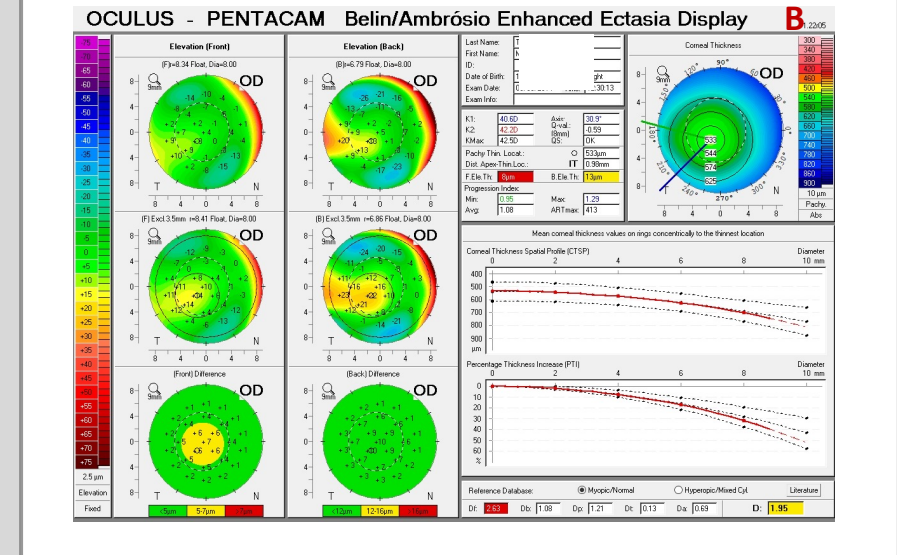
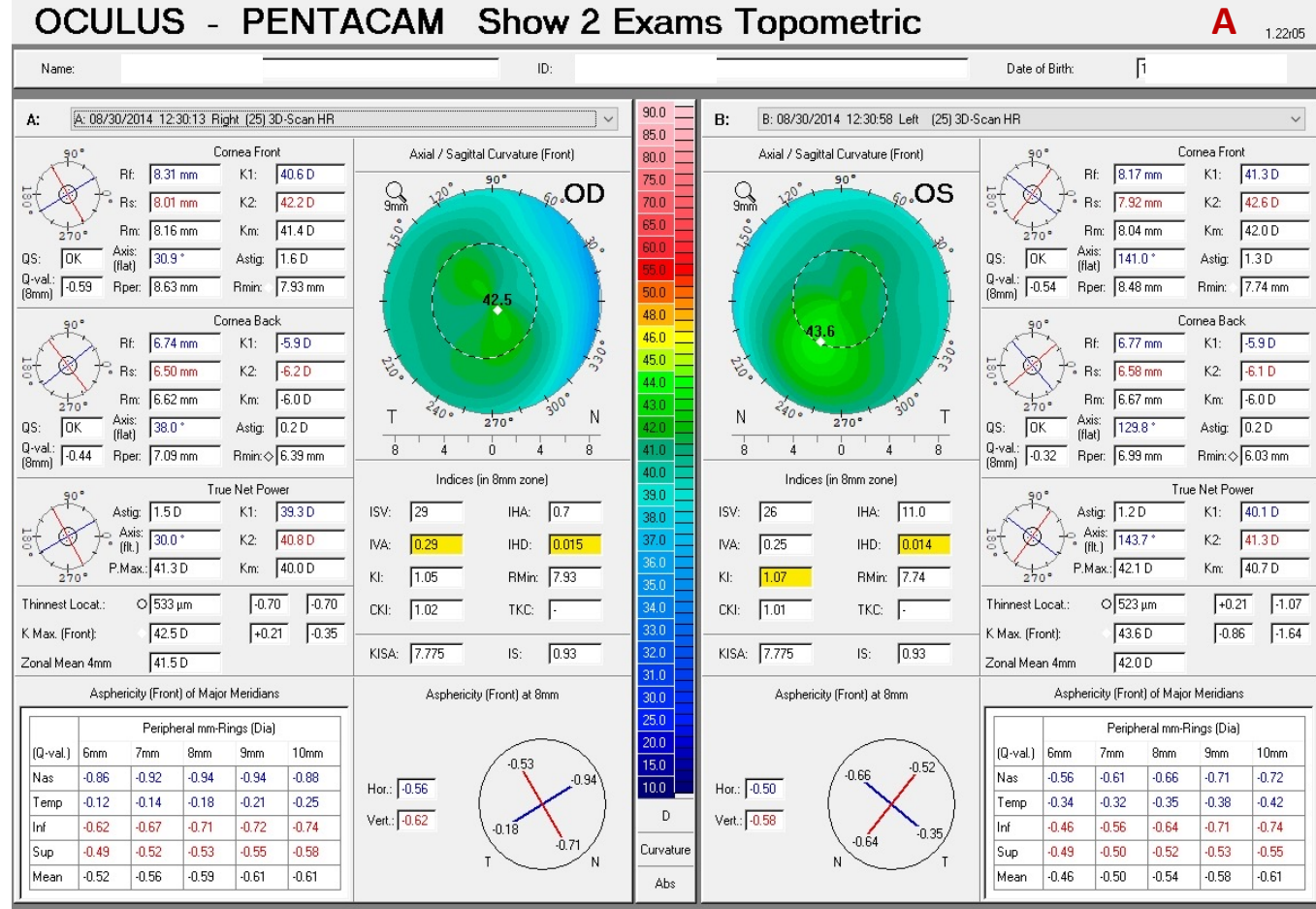
OCULUS - PENTACAM Show 2 Exams Topometric

A 1.22.05



Supplementary Figure 11

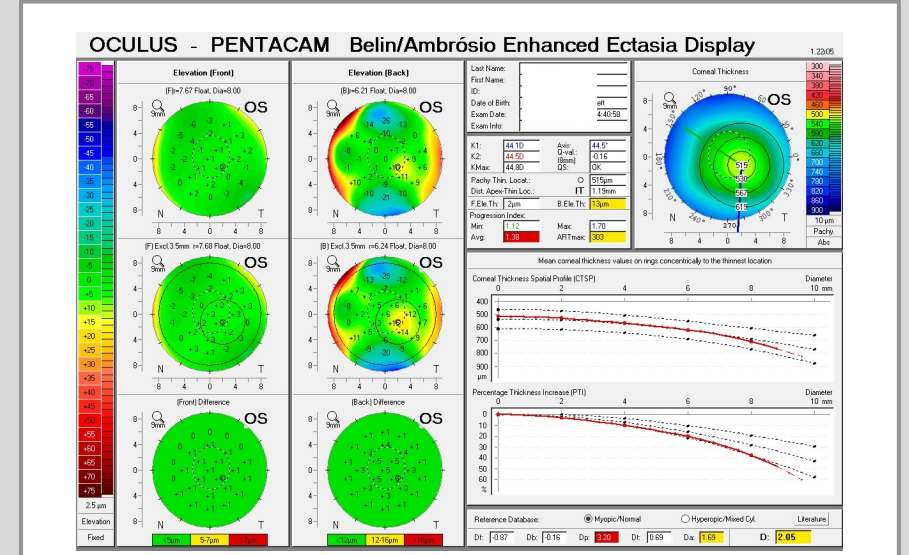
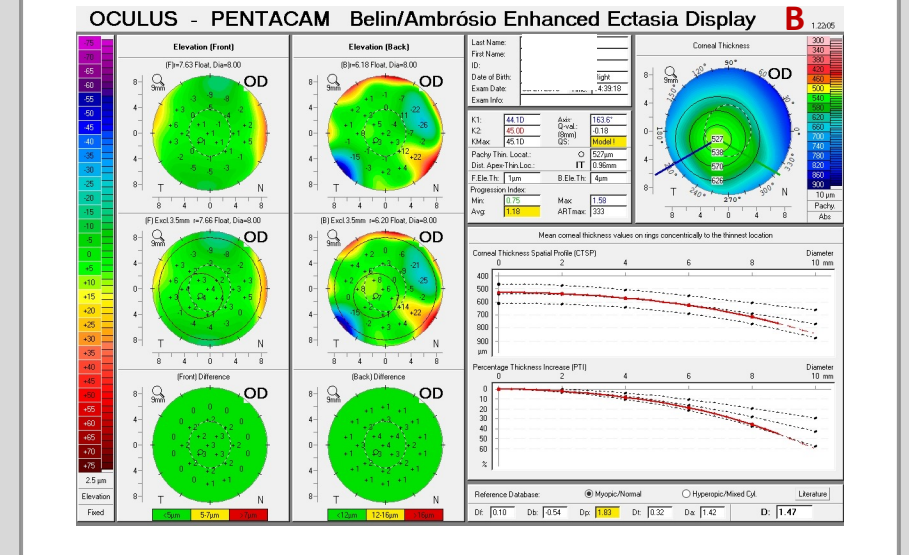
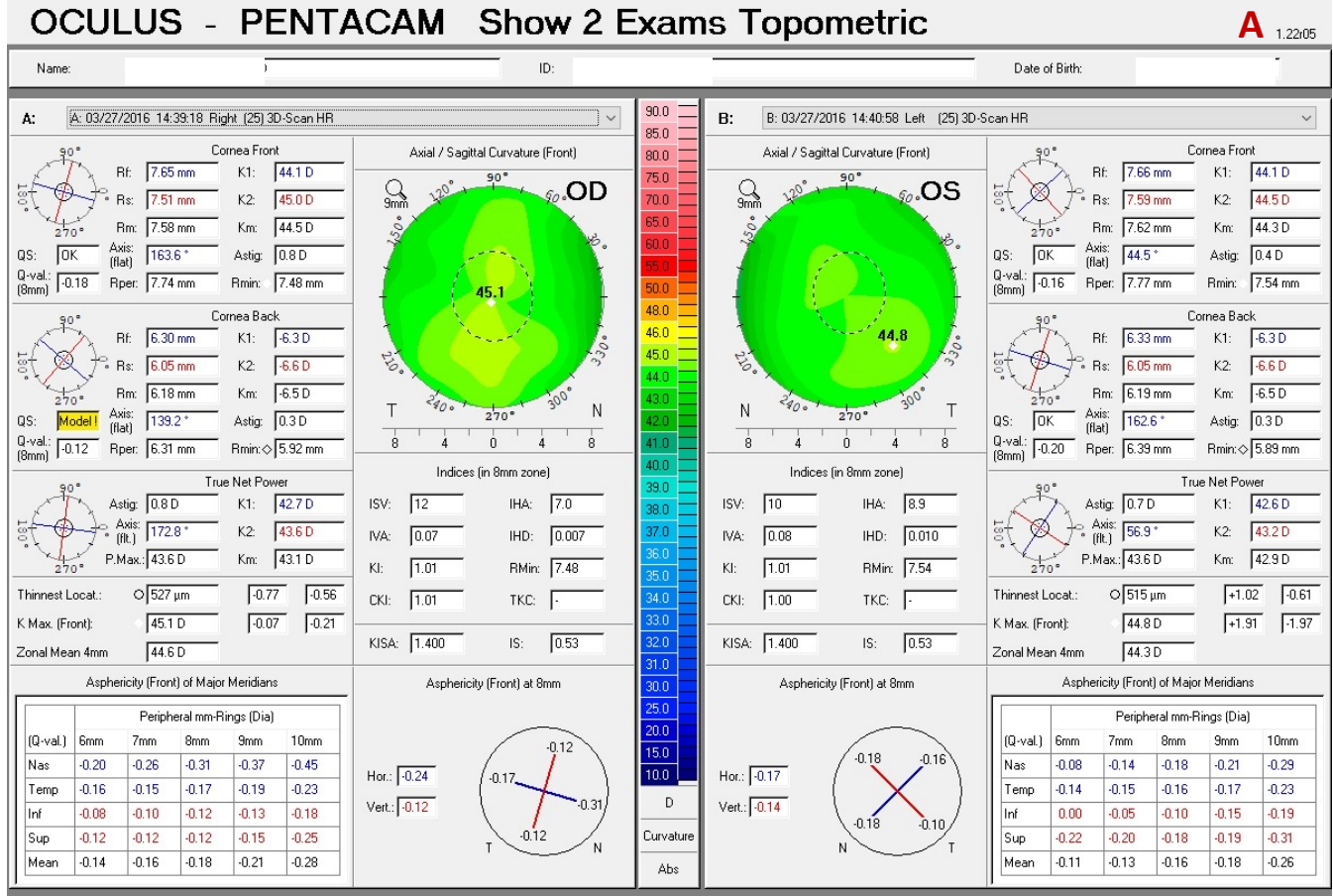
Patient 11	Eye	Preop Rx	PRFI
24 yo	OD*	-1.75/-1.00x35	0.562
	OS*	-3.25/-1.00x30	0.838



Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 12

Patient 12	Eye	Preop Rx	PRFI
28 yo	OD*	-2.50/-1.00x170	0.09
	OS*	-2.50/-1.00x15	0.256



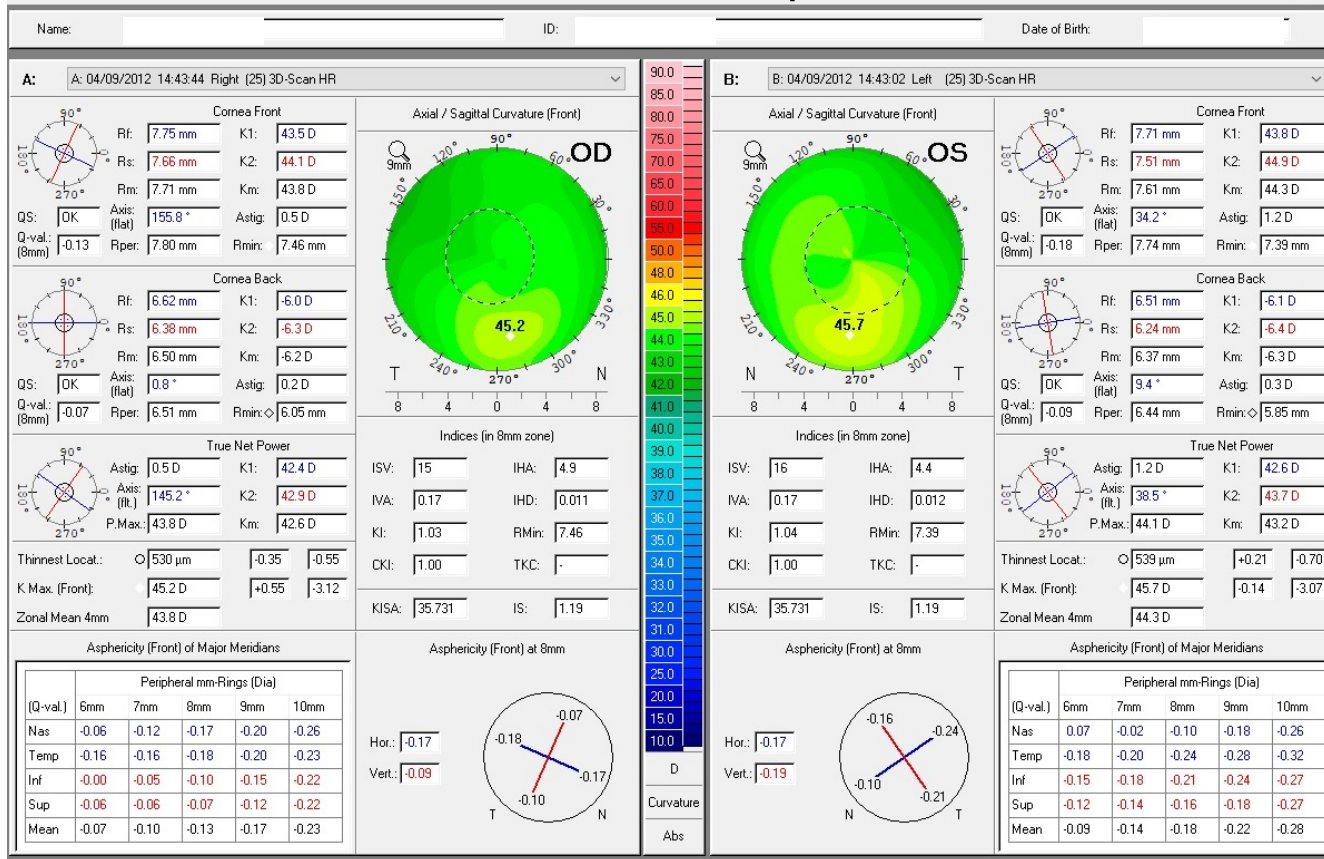
Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 13

Patient 13	Eye	Preop Rx	PRFI
24 yo	OD*	-1.00/-0.75x110	0.924
	OS*	-1.00/-1.50x160	0.966

OCULUS - PENTACAM Show 2 Exams Topometric

A 1.2205



Supplementary Figure 14

Patient 14	Eye	Preop Rx	PRFI
23 yo	OD*	-3.00/-1.50x60	0.366
	OS*	-2.50/-2.00x100	0.262

OCULUS - PENTACAM Show 2 Exams Topometric

A 1.2205

Name: _____ ID: _____ Date of Birth: _____

A: A: 02/27/2013 11:29:54 Right (25) 3D-Scan HR

Cornea Front

Rf: 7.69 mm K1: 43.9 D
 Rs: 7.51 mm K2: 44.9 D
 Rm: 7.60 mm Km: 44.4 D
 Q-val: [OK] Axis: [66.9°] Astig: [1.0 D]
 Q-val: [-0.37] Rper: 7.88 mm Rmin: 7.48 mm

Cornea Back

Rf: 6.53 mm K1: -6.1 D
 Rs: 6.30 mm K2: -6.3 D
 Rm: 6.42 mm Km: -6.2 D
 Q-val: [Data G] Axis: [42.7°] Astig: [0.2 D]
 Q-val: [-0.16] Rper: 6.56 mm Rmin: 5.95 mm

True Net Power

Astig: [1.0 D] K1: [42.7 D]
 Axis: [flt.] K2: [43.6 D]
 P.Max: [43.9 D] Km: [43.1 D]

Thinnest Locat: [538 μm] [-0.60] [-0.60]
 K Max (Front): [45.1 D] [+1.46] [-1.19]
 Zonal Mean 4mm [44.4 D]

Asphericity (Front) of Major Meridians

(Q-val.)	6mm	7mm	8mm	9mm	10mm
Nas	-0.28	-0.41	-0.52	-0.62	-0.74
Temp	-0.38	-0.41	-0.45	-0.49	-0.56
Inf	-0.14	-0.16	-0.20	-0.24	-0.30
Sup	-0.21	-0.25	-0.29	-0.37	-0.52
Mean	-0.25	-0.31	-0.37	-0.43	-0.53

Hor.: [-0.48] Vert.: [-0.25]

Indices (in 8mm zone)

ISV: [14] IHA: [2.2]
 IVA: [0.11] IHD: [0.007]
 KI: [1.03] RMin: [7.48]
 CKI: [1.00] TKC: [-]
 KISA: [3.983] IS: [0.76]

Asphericity (Front) at 8mm

Hor.: [-0.48] Vert.: [-0.25]

B: B: 02/27/2013 11:31:43 Left (25) 3D-Scan HR

Cornea Front

Rf: 7.75 mm K1: 43.6 D
 Rs: 7.46 mm K2: 45.2 D
 Rm: 7.61 mm Km: 44.4 D
 Q-val: [OK] Axis: [104.4°] Astig: [1.7 D]
 Q-val: [-0.38] Rper: 7.90 mm Rmin: 7.41 mm

Cornea Back

Rf: 6.46 mm K1: -6.2 D
 Rs: 6.25 mm K2: -6.4 D
 Rm: 6.36 mm Km: -6.3 D
 Q-val: [Data G] Axis: [118.6°] Astig: [0.2 D]
 Q-val: [-0.28] Rper: 6.61 mm Rmin: 6.01 mm

True Net Power

Astig: [1.7 D] K1: [42.4 D]
 Axis: [flt.] K2: [44.1 D]
 P.Max: [44.3 D] Km: [43.2 D]

Thinnest Locat: [542 μm] [+0.84] [-0.49]
 K Max (Front): [45.6 D] [-0.98] [-0.28]
 Zonal Mean 4mm [44.5 D]

Asphericity (Front) of Major Meridians

(Q-val.)	6mm	7mm	8mm	9mm	10mm
Nas	-0.34	-0.42	-0.50	-0.59	-0.69
Temp	-0.34	-0.36	-0.40	-0.44	-0.49
Inf	-0.04	-0.12	-0.18	-0.23	-0.27
Sup	-0.38	-0.42	-0.45	-0.46	-0.50
Mean	-0.27	-0.33	-0.38	-0.43	-0.49

Hor.: [-0.45] Vert.: [-0.31]

Indices (in 8mm zone)

ISV: [21] IHA: [4.2]
 IVA: [0.17] IHD: [0.011]
 KI: [1.06] RMin: [7.41]
 CKI: [1.00] TKC: [-]
 KISA: [3.983] IS: [0.76]

Asphericity (Front) at 8mm

Hor.: [-0.45] Vert.: [-0.31]

OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

Corneal Thickness

Parameter	Value
K1	43.90
K2	44.50
KMax	45.10
Q1	66.9°
Q2	0.37
Q3	0.37
Q4	0.37
Q5	0.37
Q6	0.37
Q7	0.37
Q8	0.37
Q9	0.37
Q10	0.37
Q11	0.37
Q12	0.37
Q13	0.37
Q14	0.37
Q15	0.37
Q16	0.37
Q17	0.37
Q18	0.37
Q19	0.37
Q20	0.37
Q21	0.37
Q22	0.37
Q23	0.37
Q24	0.37
Q25	0.37
Q26	0.37
Q27	0.37
Q28	0.37
Q29	0.37
Q30	0.37
Q31	0.37
Q32	0.37
Q33	0.37
Q34	0.37
Q35	0.37
Q36	0.37
Q37	0.37
Q38	0.37
Q39	0.37
Q40	0.37
Q41	0.37
Q42	0.37
Q43	0.37
Q44	0.37
Q45	0.37
Q46	0.37
Q47	0.37
Q48	0.37
Q49	0.37
Q50	0.37

Mean Corneal Thickness

Diameter (mm)	Mean Corneal Thickness (μm)
0	~538
2	~538
4	~538
6	~538
8	~538
10	~538

Percentage Thickness Increase (PTI)

Diameter (mm)	Percentage Thickness Increase (%)
0	~0
2	~0
4	~0
6	~0
8	~0
10	~0

OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

Corneal Thickness

Parameter	Value
K1	43.30
K2	45.50
KMax	45.10
Q1	104.4°
Q2	0.38
Q3	0.38
Q4	0.38
Q5	0.38
Q6	0.38
Q7	0.38
Q8	0.38
Q9	0.38
Q10	0.38
Q11	0.38
Q12	0.38
Q13	0.38
Q14	0.38
Q15	0.38
Q16	0.38
Q17	0.38
Q18	0.38
Q19	0.38
Q20	0.38
Q21	0.38
Q22	0.38
Q23	0.38
Q24	0.38
Q25	0.38
Q26	0.38
Q27	0.38
Q28	0.38
Q29	0.38
Q30	0.38
Q31	0.38
Q32	0.38
Q33	0.38
Q34	0.38
Q35	0.38
Q36	0.38
Q37	0.38
Q38	0.38
Q39	0.38
Q40	0.38
Q41	0.38
Q42	0.38
Q43	0.38
Q44	0.38
Q45	0.38
Q46	0.38
Q47	0.38
Q48	0.38
Q49	0.38
Q50	0.38

Mean Corneal Thickness

Diameter (mm)	Mean Corneal Thickness (μm)
0	~542
2	~542
4	~542
6	~542
8	~542
10	~542

Percentage Thickness Increase (PTI)

Diameter (mm)	Percentage Thickness Increase (%)
0	~0
2	~0
4	~0
6	~0
8	~0
10	~0

Patient's age, eye laterality, preoperative refraction, Pentacam Random Forest Index (PRFI) A. Pentacam topometric display of both eyes (OU). B. The Pentacam Belin / Ambrósio Enhanced Ectasia of OU. * Eye that develops ectasia after LASIK.

Supplementary Figure 15

Patient 15	Eye	Preop Rx	PRFI
22 yo	OD*	-2.50/-0.70x115	0.656
	OS*	-5.00/-1.25x160	0.446

OCULUS - PENTACAM Show 2 Exams Topometric A 1.2205

