

Patients cancelled

- 2015 Same Day Surgery Patients Cancelled
- 21 total patients

Phone / Referral review Cancelled

- AGE
- RX
- Cataract (psc)
- \$\$\$
- Rheumatoid Arthritis

4380 Bergman Rd., Mayfield Center - Upper Level, Sioux City, IA 51106
(402) 597-0010 • (800) 433-2018 • (402) 597-8439
Dr. Johnson ext. (402) 597-3250 • home: (402) 934-8678 or (712) 234-1411 / Dr. Goetz ext. (402) 657-2080 • home: (402) 333-0610
Nurse on call: (402) 657-6469 • Clinic after-hours (402) 597-2542 or (402) 597-4139

LASIK REFERRAL

Referring Doctor [REDACTED] Location: Omaha / Sioux City
Patient Name [REDACTED] Appointment date 9/10/2017
Pt's age 33 Sex: M ♂
City: [REDACTED] Phone (402) 313-221-6917

This patient is currently interested in a LASIK evaluation and possible surgery.

Examination

Uncorrected visual acuity	OD 20/50	OS 20/50	Dominant eye R	Monovision <input checked="" type="checkbox"/>
Manifest Refraction (12mm vertex)	OD -1.25 -1.25 x 094	OS -1.25 -1.25 x 076	20/25	20/25
Cycloplegic Refraction (12mm vertex)	OD -1.25 -1.00 x 104	OS -1.25 -1.25 x 079	20/	20/
IOP	OD 15 mmHg	OS 15 mmHg		
Topography / Keratometry	OD 47.00 / 47.00 x 127	OS 47.00 / 47.00 x 127		

OD: clear, conjunctiva: injected cells, anterior chamber: clear, deep and clear, cornea: clear, lens: clear, macula: normal, vessels: normal, periphery: normal
OS: clear, conjunctiva: injected cells, anterior chamber: clear, deep and clear, cornea: clear, lens: clear, macula: normal, vessels: normal, periphery: normal

Patient has been prescribed / given: Vigamox/Maxidex Zyman/Pred Forte Tobradex
to begin qid the day before surgery and for use after surgery.

This patient would like to be co-managed with our office following LASIK: Yes No

TABLE 1 Original FDA approval of LASIK

Absolute contraindications	Relative contraindications
Autoimmune disease	Diabetes
Collagen vascular disease	Severe allergies
Immunodeficiency disease	Keloid scars
Pregnancy or nursing	Medications (Imitrex [sumatriptan, GlaxoSmithKline])
Medications (Accutane [isotretinoin, Hoffmann-La Roche], and Cordarone [amiodarone, Pfizer])	

J Refract Surg. 2005 Jan-Feb;21(1):72-6.

Triptans and the incidence of epithelial defects during laser in situ keratomileusis.

Hardten DR¹, Hira NK, Lombardo AJ.

Author information

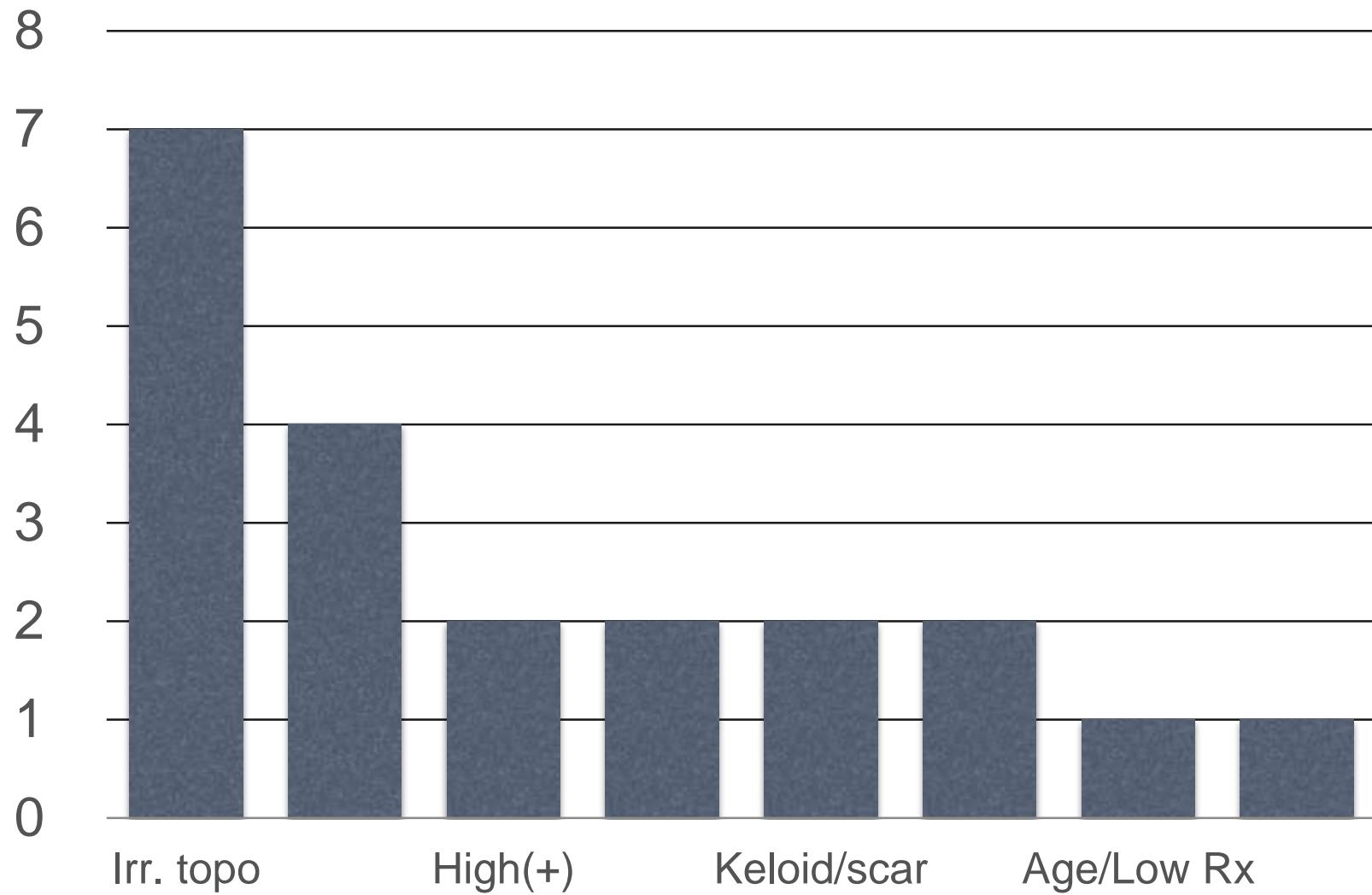
Abstract

PURPOSE: To investigate whether the incidence of epithelial defects during laser in situ keratomileusis (LASIK) was different in patients who were taking sumatriptan (Imitrex, Glaxo Smith Kline, Pittsburgh, Pa) for migraine headaches than in those who were not.

METHODS: A retrospective chart review was performed on 54 eyes of 28 patients who had been identified as taking sumatriptan and had undergone LASIK at Minnesota Eye Consultants between 1999 and 2001. These patients were compared with 54 gender- and age-matched control eyes operated on with the same microkeratome at the same location during the same period of time. The incidence of epithelial defects during LASIK was compared between the two groups.

RESULTS: In the sumatriptan group, 11.1% (6 of 54) of eyes developed epithelial defects as compared to 9.3% (5 of 54) of eyes in the non-triptan group ($P=.75$, chi square). More recent sumatriptan exposure did not increase the incidence of epithelial defect ($P=.47$). In patients in whom sumatriptan was stopped >1 month prior to LASIK, 6.3% (1 of 16 eyes) had epithelial defects; in patients in whom sumatriptan was stopped <1 month prior to LASIK, 14.3% (4 of 28 eyes) developed epithelial defects; and 9.3% (5 of 54 eyes) of patients in whom no triptans had ever been used had epithelial defects ($P=.73$).

CONCLUSIONS: There is no correlation between the use of sumatriptan for relief of migraine headaches and the generation of epithelial defects during LASIK. There appears to be no reason to stop triptans before proceeding with LASIK.



Screening of refractive surgery candidates for LASIK and PRK.

Torricelli AA¹, Bechara SJ, Wilson SE.

Author information

Abstract

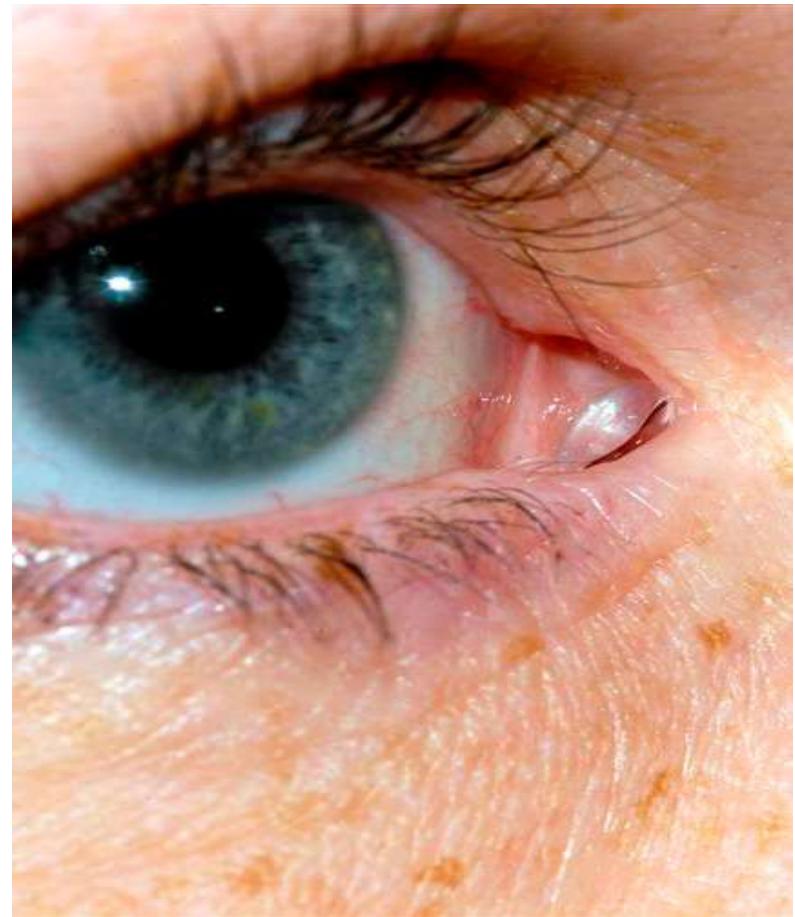
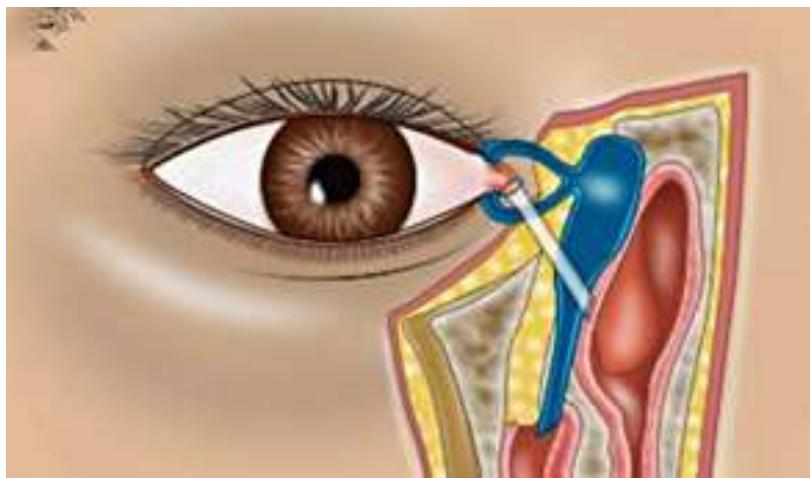
PURPOSE: The aim of this study was to evaluate exclusion criteria in screening patients for refractive surgery.

METHODS: Patients screened for initial refractive surgery by a single surgeon at the Cole Eye Institute (Cleveland Clinic) between 2007 and 2012 were reviewed. Exclusion criteria for patients who were not offered refractive surgery based on history and/or examination parameters were analyzed.

RESULTS: A total of 1067 refractive candidates were enrolled in the study. Five hundred nineteen (48.6%) were male and 548 (51.4%) were female with a mean age of 39 ± 12 (range, 17-78) years. Refractive surgery was performed in 657 (61.6%) patients, and photorefractive keratectomy was considered the best option for 106 (9.9%) patients. Four hundred ten (38.4%) of all screened patients did not have refractive surgery, and 134 of these patients (12.6%) were considered to have contraindications for laser in situ keratomileusis and photorefractive keratectomy. Among the excluded patients, 69 (51.5%) were male and 65 (48.5%) were female with a mean age of 40 ± 14 (range, 18-78) years. Abnormal corneal topography (34.3%) and low or insufficient corneal thickness (23.1%) were the most common reasons for exclusion. High myopia (10.5%) and (insipient or definite) cataract (9.7%) were also common reasons for exclusion. Other common factors for exclusion were high hyperopia (3.7%), need to wear reading glasses after surgery (3.7%), and severe dry eye unresponsive to treatment (3.7%).

CONCLUSIONS: Abnormal corneal topography and low, or insufficient, corneal thickness remain the most common exclusion factors for corneal refractive surgery. Factors such as cataract, too high of correction, and severe dry eye are also common reasons for exclusion of patients.

jones tube



Keloids



[Abstract](#)[Send to:](#)

J Refract Surg. 2006 May;22(5):505-8.

LASIK in myopic patients with dermatological keloids.

Artola A¹, Gala A, Belda JI, Pérez-Santonja JJ, Rodriguez-Prats JL, Ruiz-Moreno JM, Alió JL.

Author information

Abstract

PURPOSE: To evaluate the visual and refractive outcome of LASIK in myopic patients with a known history of dermatological keloid scar.

METHODS: This retrospective case series included 10 eyes of 5 white patients with a known history of dermatological keloids. All patients had low to moderate myopia with no corneal or limbal keloid. All underwent uneventful bilateral LASIK. Postoperatively, visual outcomes, refractive outcomes, and complications were evaluated. Minimum 1-year follow-up was indicated for all patients in this study.

RESULTS: Mean preoperative uncorrected visual acuity (UCVA) was 20/320 and 1 year postoperative 20/20. Mean preoperative best spectacle-corrected visual acuity (BSCVA) was 20/25 and 1 year postoperative was 20/20. The mean preoperative spherical equivalent refraction was -5.00 +/- 2.6 diopters (D) and +0.1 +/- 0.2 D 1 year postoperative. The safety index was 1.02 and the efficacy index was 1.02. None of the included in this study underwent retreatment for correction of residual error or regression up to 1 year postoperatively. No sight-threatening complications were reported. No patient reported postoperative haze, severe dry eye syndrome, or flap-related problems.

CONCLUSIONS: LASIK is a safe, effective, and predictable technique for correcting low and moderate myopia in patients with dermatological keloids.

PMID: 16722491 [PubMed - indexed for MEDLINE]



Correspondence

Eye (2007) 21, 96–97. doi:10.1038/sj.eye.6702180; published online 2 December 2005

Bilateral corneal scarring after LASIK and PRK in a patient with propensity to keloid scar formation

No competing interests

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Sir,

Clinically significant corneal haze is an infrequent complication of refractive laser surgery with an incidence of 1.44% reported in both PRK and LASIK.¹ We report a case of a patient who developed bilateral clinically significant corneal haze due to subepithelial scarring after both PRK and LASIK for the correction of myopia. This patient also had a propensity to keloid scar formation.

Case report

▲ Top

A 33-year-old Caucasian man was referred by his GP with blurred vision and photophobia in both eyes 6 months after having PRK in the right eye and 5 months after having LASIK in the left eye performed by different surgeons. Both operations were performed 1 month apart and both were uneventful, no epithelial problems were reported. Bilateral ocular trauma has been ruled out from the history.

On examination best-corrected visual acuity was 6/9 in both eyes and refraction was OD -2.00/+0.50 × 90 OS -1.00/+2.00 × 135 (preoperatively OD -4.00 D OS -3.50 D). Anterior segment examination revealed bilateral blepharitis and anterior stromal corneal scarring in both eyes (Figure 1). Intraocular pressures and fundal examination were unremarkable. He was noted to be susceptible to keloid scarring, as demonstrated by a scar on his shoulder (Figure 2).

37 yo “routine Lasik”

Location: A Ontario / C Sioux City

Surgery date 5/14/15

Age 37 Sex: M F
Phone [REDACTED]

This patient is currently interested in a LASIK evaluation and possible surgery.

Examination

Uncorrected visual acuity OD 20/200
OS 20/200

Dominant eye R / L
Monovision Y / N

Manifest Refraction OD -250
(12mm vertex) OS -250 -25 x125 20/20
20/20

Cycloplegic Refraction OD -275
(12mm vertex) OS -300 -25 125 20/x
20/20

IOP OD 9 mmHg
OS 9 mmHg

Topography / Keratometry OD 43.25 46.25 18
OS 44.50 49.50 16.7

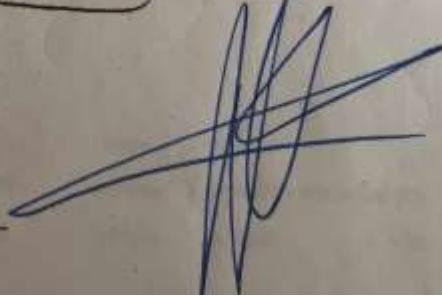
more corneal ast than refractive

OD
clear
clear
deep and clear
blepharitis
injected
cells

(Circle appropriate condition)
Lids / Lashes
Conjunctiva
Anterior Chamber
Cornea

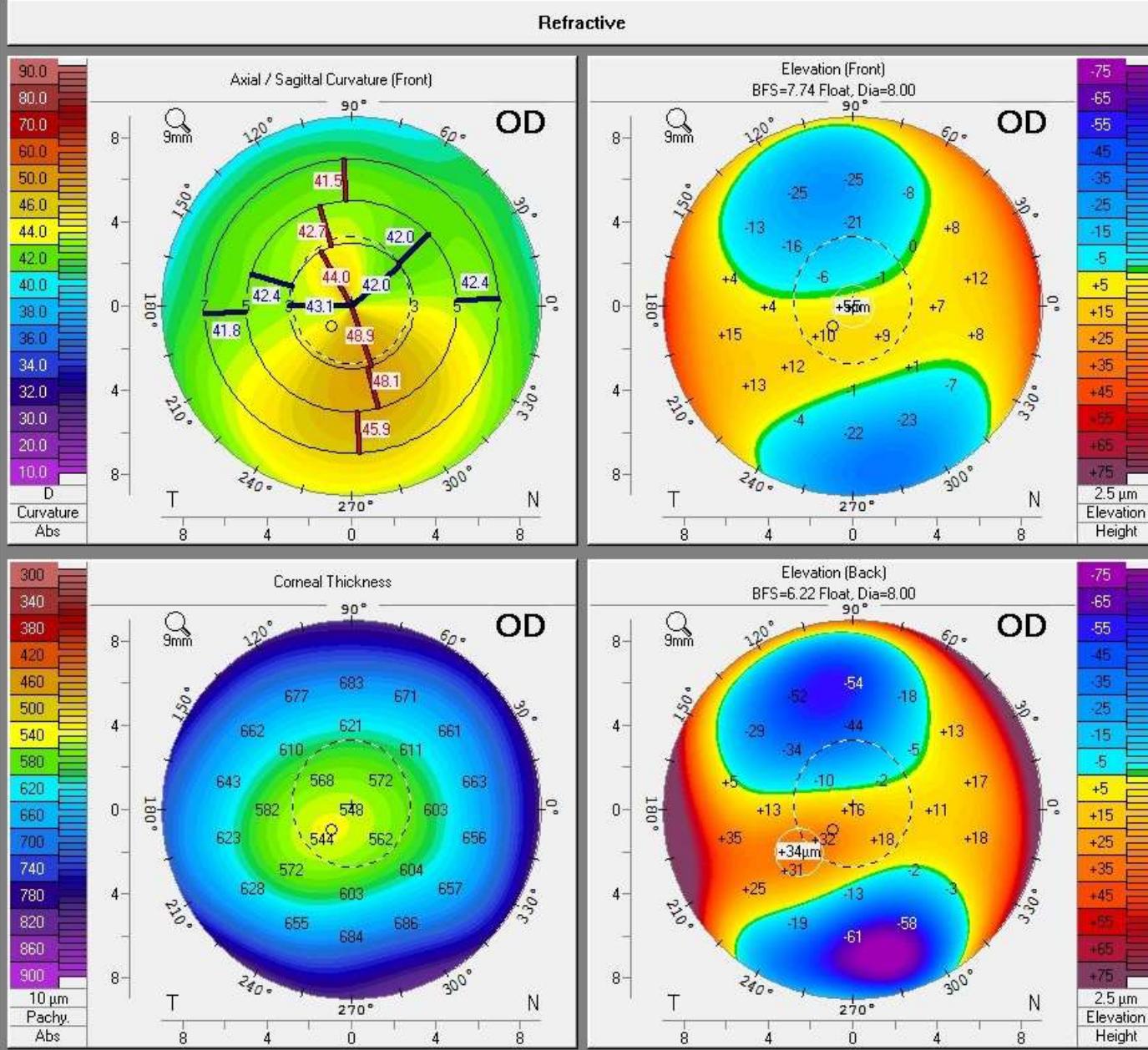
OS
clear
clear
deep and clear
blepharitis
injected
cells

clear
0.4
normal
normal
Lens
Disk
Macula
Vessels
0.4
normal
normal



OCULUS - PENTACAM 4 Maps Refractive

Last Name:	██████████
First Name:	██████████
ID:	33427
Date of Birth:	03/07/1978
Exam Date:	08/14/2015
Eye:	Right
Time:	08:21:20
Exam Info:	██████████
Cornea Front	
Rf:	7.83 mm
Rs:	7.28 mm
Rm:	7.56 mm
QS:	Seg.(BI) Axis: (steep) 109.4 °
Q-val: (8mm)	-0.55 Rper: 8.03 mm Rmin: 6.90 mm
Cornea Back	
Rf:	6.30 mm
Rs:	5.51 mm
Rm:	5.90 mm
QS:	Seg.(BI) Axis: (steep) 110.1 °
Q-val: (8mm)	-0.65 Rper: 6.62 mm Rmin: 4.93 mm
Pupil Center:	+ 550 µm x[mm] -0.01 y[mm] +0.14
Pachy Apex:	- 548 µm x[mm] 0.00 y[mm] 0.00
Thinnest Locat:	○ 542 µm x[mm] -0.47 y[mm] -0.47
K Max. (Front):	• 48.9 D x[mm] +0.40 y[mm] -1.61
Cornea Volume:	64.0 mm ³
KPD:	+1.8 D
Chamber Volume:	182 mm ³
Angle:	41.3 °
A. C. Depth (Ext.):	3.76 mm
Pupil Dia:	2.90 mm
Enter IOP IOP(Sum):	+0.1 mmHg
Lens Th.:	██████████



OCULUS - PENTACAM 4 Maps Refractive

Last Name:	██████████
First Name:	██████████
ID:	33427
Date of Birth:	03/07/1978
Exam Date:	08/14/2015
Eye:	Left
Time:	08:22:14

Cornea Front

Rf:	7.59 mm	K1:	44.5 D
Rs:	6.86 mm	K2:	49.2 D
Rm:	7.22 mm	Km:	46.7 D
QS:	OK	Axis:	(steep) 77.9°
Q-val:	-0.78	Astig:	4.8 D
(8mm)		Rper:	7.95 mm
		Rmin:	6.35 mm

Cornea Back

Rf:	6.04 mm	K1:	-6.6 D
Rs:	5.07 mm	K2:	-7.9 D
Rm:	5.55 mm	Km:	-7.2 D
QS:	OK	Axis:	(steep) 74.0°
Q-val:	-0.84	Astig:	1.3 D
(8mm)		Rper:	6.50 mm
		Rmin:	4.29 mm

Pupil Center:	+ 537 µm	x[mm]	+0.10	y[mm]	+0.33
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Pachy. Apex:	- 531 µm	x[mm]	0.00	y[mm]	0.00
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Thinnest Locat.:	○ 528 µm	x[mm]	+0.38	y[mm]	-0.31
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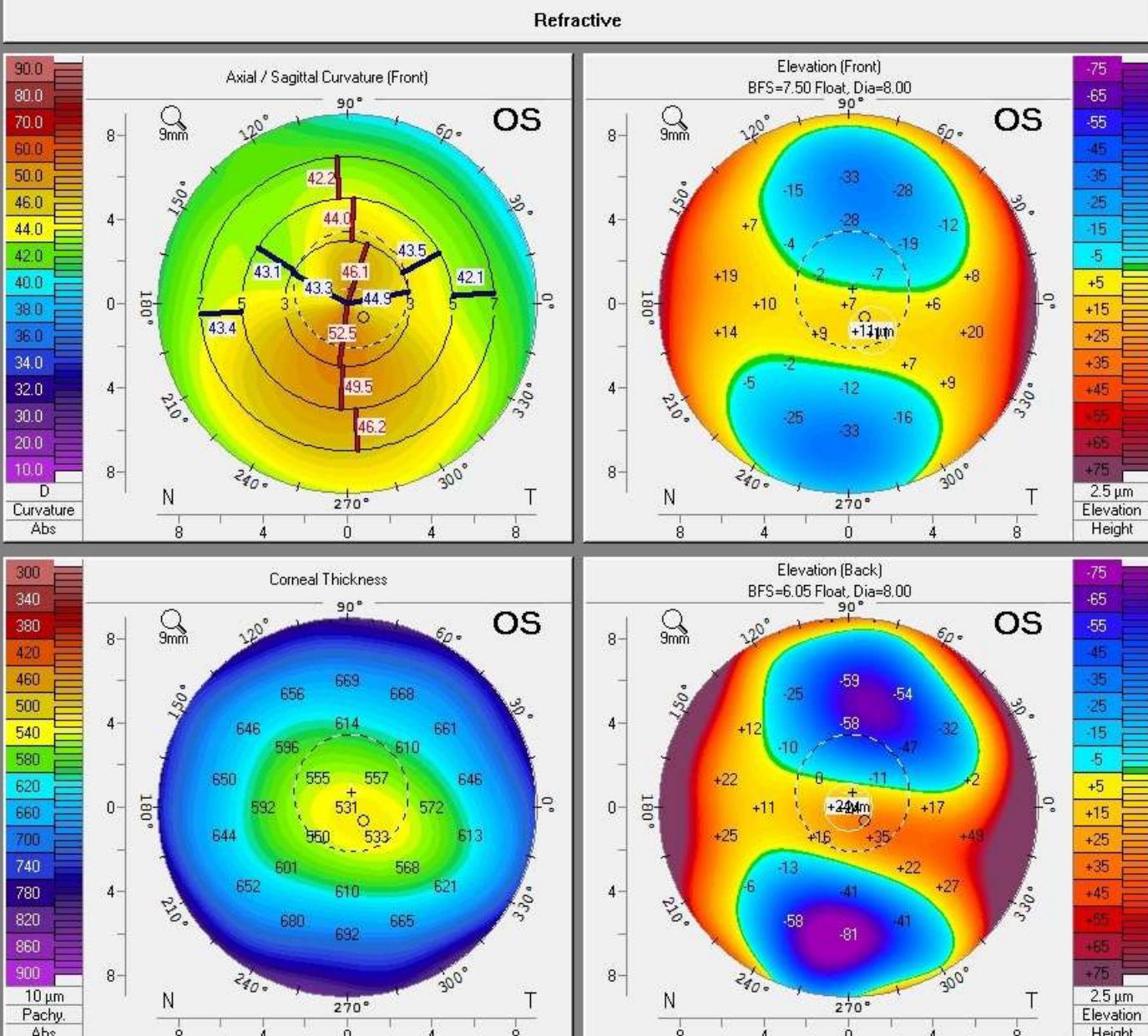
K Max. (Front):	+ 53.2 D	x[mm]	-0.13	y[mm]	-0.94
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Cornea Volume:	64.0 mm³	KPD:	+2.3 D
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Chamber Volume:	176 mm³	Angle:	44.9 °
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A. C. Depth (Ext.):	3.55 mm	Pupil Dia:	2.74 mm
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Enter IOP IOP(Sum):	+0.8 mmHg	Lens Th.:	██████████
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OCULUS - PENTACAM Topometric

Last Name:	_____
First Name:	_____
ID:	33427
Date of Birth:	03/07/1978
Exam Date:	08/14/2015
Eye:	Right
Time:	08:21:20
Exam Info:	_____

Cornea Front

Rf:	7.83 mm	K1:	43.1 D
Rs:	7.28 mm	K2:	46.3 D
Rm:	7.56 mm	Km:	44.7 D
Axis:	109.4 °	Astig:	3.3 D
Q-val:	-0.55	Rper:	8.03 mm
(8mm)		Rmin:	6.90 mm

Cornea Back

Rf:	6.30 mm	K1:	-6.4 D
Rs:	5.51 mm	K2:	-7.3 D
Rm:	5.90 mm	Km:	-6.8 D
Axis:	110.1 °	Astig:	0.9 D
Q-val:	-0.65	Rper:	6.62 mm
(8mm)		Rmin:	4.93 mm

True Net Power

Astig:	2.9 D	K1:	41.6 D
Axis:	108.9 °	K2:	44.4 D
P.Max.:	46.5 D	Km:	43.0 D

Pupil Center: + 550 µm x[-0.01] y[+0.14]

Pachy Apex: - 548 µm x[0.00] y[0.00]

Thinnest Locat: O 542 µm x[-0.47] y[-0.47]

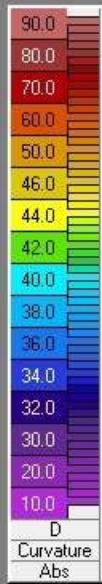
K Max. (Front): • 48.9 D x[+0.40] y[-1.61]

Cornea Volume: 64.0 mm³ KPD: +1.8 D

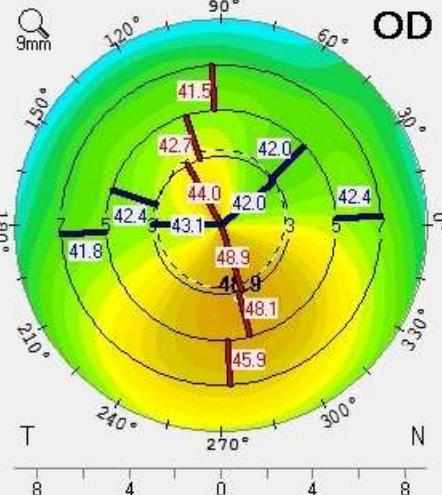
Chamber Volume: 182 mm³ Angle: 41.3 °

A. C. Depth (Ext.): 3.76 mm Pupil Dia: 2.90 mm

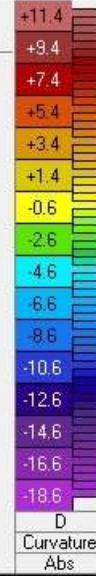
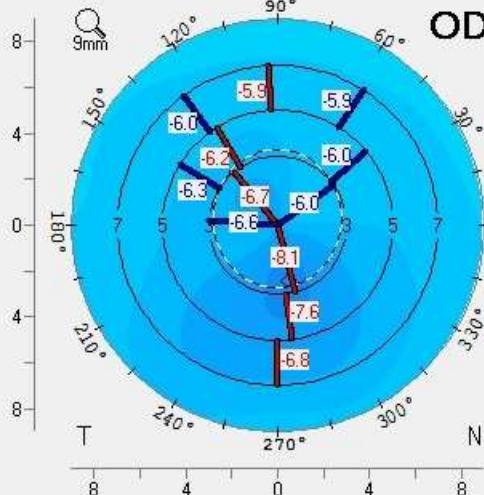
IOP(Sum): +0.1 mmHg Lens Th.: _____



Axial / Sagittal Curvature (Front)



Axial / Sagittal Curvature (Back)



Asphericity (Front) of Major Meridians

	Peripheral mm-Rings (Dia)				
	6mm	7mm	8mm	9mm	10mm
Nas (Q-val.)	-0.17	-0.27	-0.36	-0.46	-0.58
Temp (Q-val.)	-0.26	-0.31	-0.40	-0.48	-0.53
Inf (Q-val.)	-0.62	-0.69	-0.72	-0.77	-0.86
Sup (Q-val.)	-0.76	-0.72	-0.72	-0.72	-0.74
Mean Value (Q-val.)	-0.45	-0.50	-0.55	-0.61	-0.68

Front:

Asphericity

Axial/Sag. Curvature

Back:

Asphericity

Axial/Sag. Curvature

Indices (in 8mm zone)

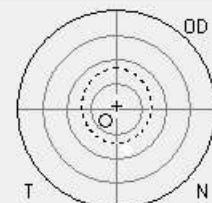
ISV:	44	IHA:	45.1
IVA:	0.50	IHD:	0.054
KI:	1.13	RM:	6.90
CKI:	1.02	TKC:	KC 1

Asphericity (Front) at 8mm

Hor.:	-0.39
Vert.:	-0.72

Spot locations in 8mm zone (polar coordinates)

Pupil Center:	+ 0.14mm (94.2°)
Thinnest Locat:	O 0.67mm (225.0°)
K Max. (Front):	• 1.66mm (284.0°)



OCULUS - PENTACAM Topometric

Last Name: _____
 First Name: _____
 ID: 33427
 Date of Birth: 03/07/1978 Eye: Left
 Exam Date: 08/14/2015 Time: 08:22:14
 Exam Info: _____

Cornea Front
 Rf: 7.59 mm K1: 44.5 D
 Rs: 6.86 mm K2: 49.2 D
 Rm: 7.22 mm Km: 46.7 D
 Axis: (steep) 77.9 ° Astig: 4.8 D
 QS: OK Q-val: -0.78 Rper: 7.95 mm Rmin: 6.35 mm

Cornea Back
 Rf: 6.04 mm K1: -6.6 D
 Rs: 5.07 mm K2: -7.9 D
 Rm: 5.55 mm Km: -7.2 D
 Axis: (steep) 74.0 ° Astig: 1.3 D
 QS: OK Q-val: -0.84 Rper: 6.50 mm Rmin: 4.29 mm

True Net Power
 Astig: 4.2 D K1: 43.0 D
 Axis: (st.) 79.5 ° K2: 47.2 D
 P.Max.: 50.0 D Km: 45.1 D

Pupil Center: + 537 µm x[mm] +0.10 y[mm] +0.33

Pachy Apex: - 531 µm 0.00 0.00

Thinnest Locat: ○ 528 µm +0.38 -0.31

K Max. (Front): ● 53.2 D -0.13 -0.94

Cornea Volume: 64.0 mm³ KPD: +2.3 D

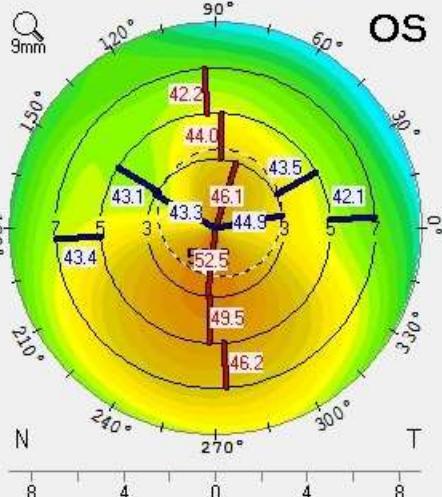
Chamber Volume: 176 mm³ Angle: 44.9 °

A. C. Depth (Ext.): 3.55 mm Pupil Dia: 2.74 mm

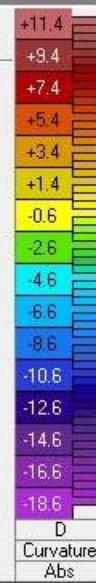
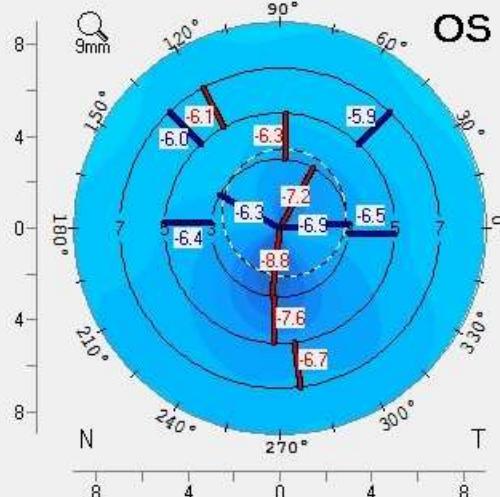
IOP(Sum): +0.8 mmHg Lens Th.: _____



Axial / Sagittal Curvature (Front)



Axial / Sagittal Curvature (Back)



Asphericity (Front) of Major Meridians

	Peripheral mm-Rings (Dia)				
	6mm	7mm	8mm	9mm	10mm
Nas (Q-val.)	-0.22	-0.31	-0.41	-0.52	-0.58
Temp (Q-val.)	-0.61	-0.62	-0.66	-0.71	-0.72
Inf (Q-val.)	-1.17	-1.12	-1.08	-1.06	-1.06
Sup (Q-val.)	-1.10	-1.02	-0.96	-0.83	-0.62
Mean Value (Q-val.)	-0.77	-0.77	-0.78	-0.78	-0.75

Front:

Asphericity

Axial/Sag. Curvature

Back:

Asphericity

Axial/Sag. Curvature

Indices (in 8mm zone)

ISV: 54 IHA: 37.9
 IVA: 0.51 IHD: 0.065
 KI: 1.16 RM: 6.35
 CKI: 1.04 TCK: KC 1-2

Asphericity (Front) at 8mm

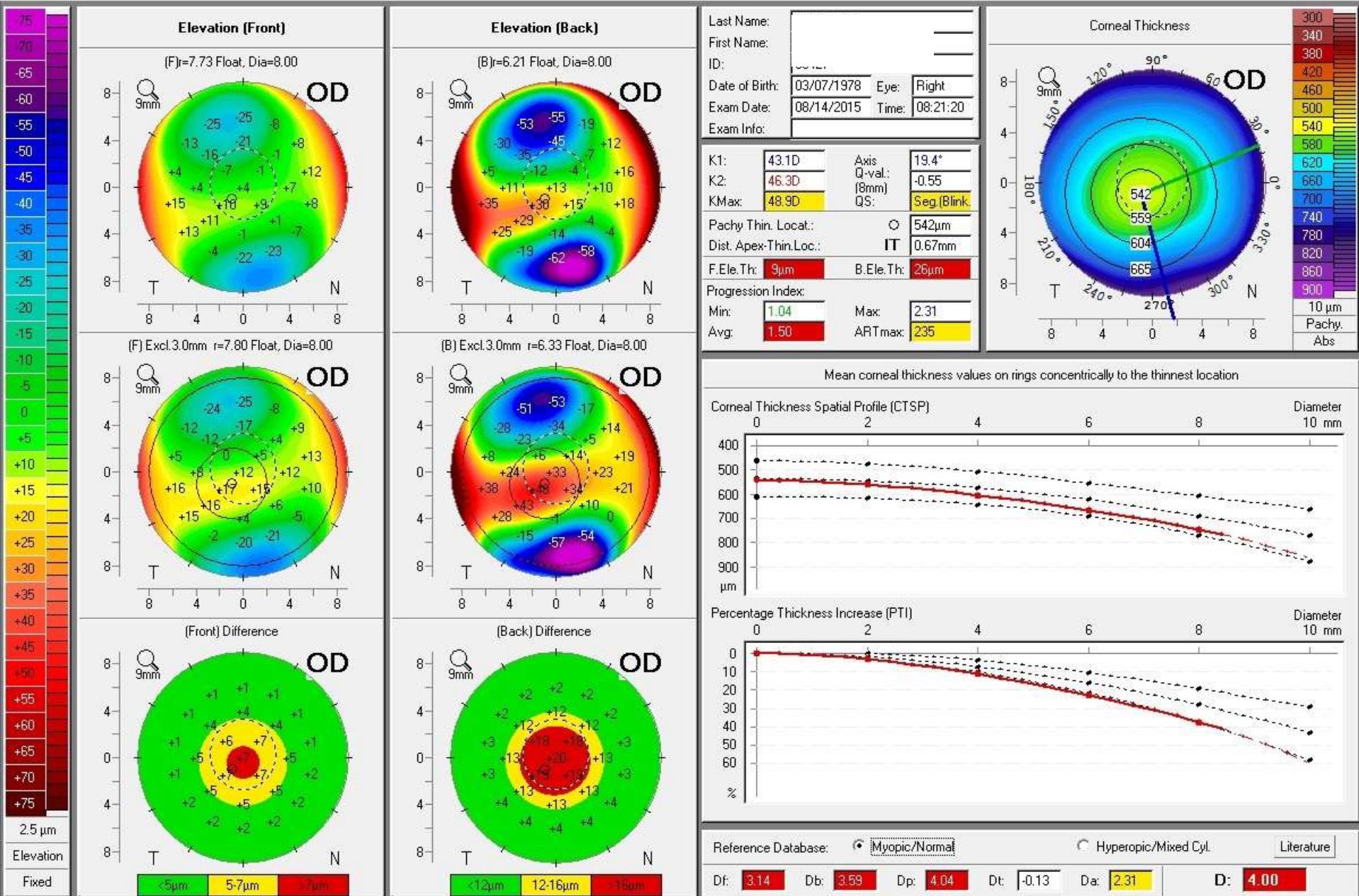
Hor: -0.53 Vert: -1.02
 -0.41 -1.08 -0.66
 0.96

Spot locations in 8mm zone (polar coordinates)

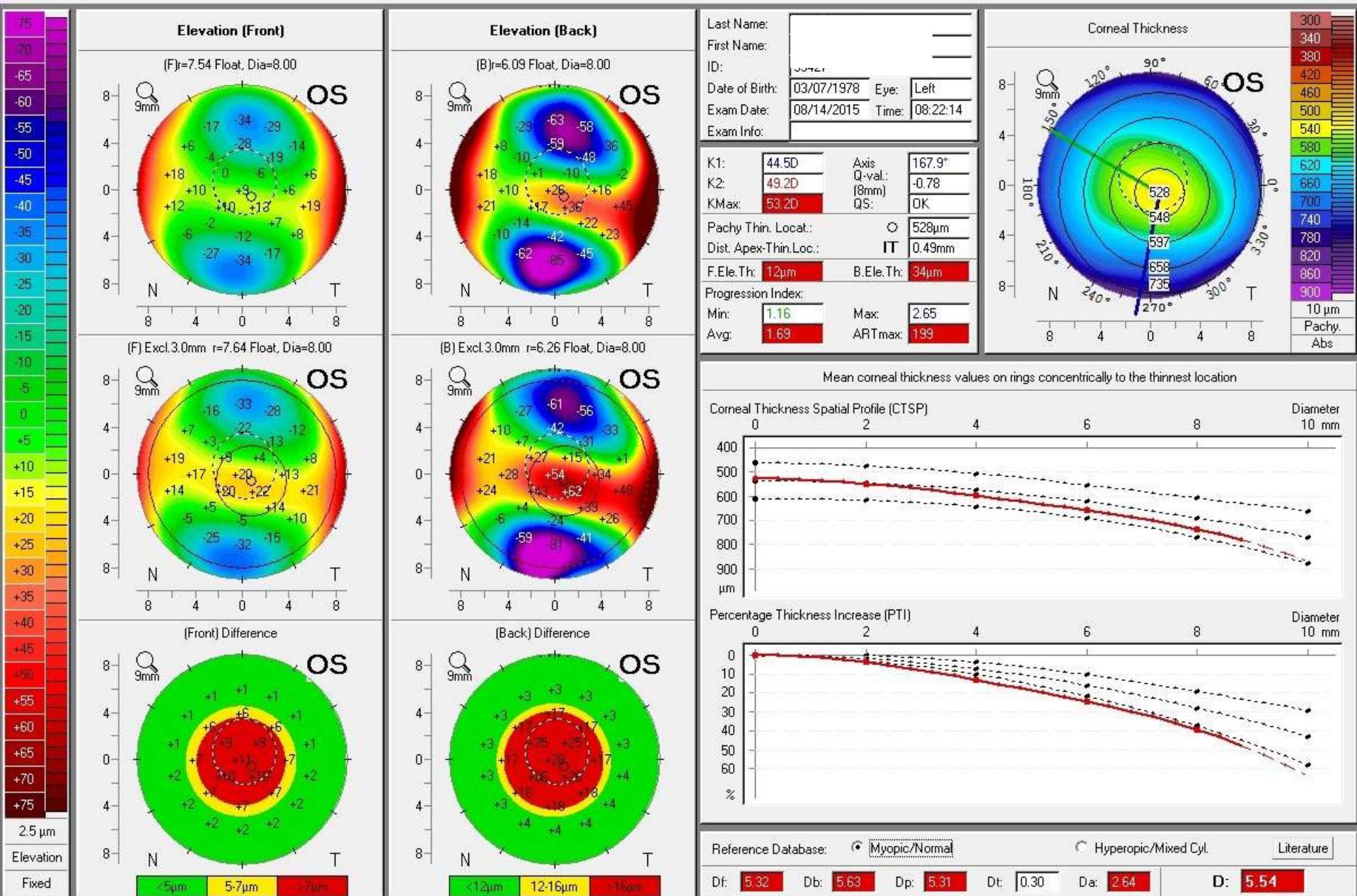
Pupil Center: + 0.35mm (73.6°)
 Thinnest Locat: ○ 0.49mm (320.2°)
 K Max. (Front): ● 0.95mm (262.4°)



OCULUS - PENTACAM Belin / Ambrósio Enhanced Ectasia



OCULUS - PENTACAM Belin / Ambrósio Enhanced Ectasia



23 yo female

ERRAL

Location: Omaha / Sioux City
 Appointment date 12/14/15

Age 7-31-92 Sex: M F
 Phone ()

This patient is currently interested in a LASIK evaluation and possible surgery.

Examination

Uncorrected visual acuity OD 20/ Dominant eye R / L
 OS 20/ Monovision Y / N

Manifest Refraction OD -2.25 -1.00 +5 20/25
 (12mm vertex) OS -2.50 -.75 +7D 20/20

Cycloplegic Refraction OD 20/
 (12mm vertex) OS 20/

IOP OD mmHg
 OS mmHg

Topography / Keratometry OD 4300 4530 9L
 OS 4275 4475 81

OD
 clear
 clear
 deep and clear

blepharitis
 injected
 cells

(Circle appropriate condition)
Lids / Lashes
Conjunctiva
Anterior Chamber
Cornea

OS
 clear
 clear
 deep and clear

blepharitis
 injected
 cells

OCULUS - PENTACAM 4 Maps Refractive

Last Name:	<input type="text"/>
First Name:	<input type="text"/>
ID:	34055
Date of Birth:	07/31/1992
Exam Date:	04/04/2016
Eye:	Right
Time:	10:38:48
Exam Info:	<input type="text"/>

Cornea Front

Rf:	7.83 mm	K1:	43.1 D
Rs:	7.42 mm	K2:	45.5 D
Rm:	7.63 mm	Km:	44.2 D
QS:	OK	Axis:	[steep] 99.3 °
Astig:	2.4 D		
Q-val:	-0.58	Rper:	8.16 mm
(8mm)		Rmin:	7.22 mm

Cornea Back

Rf:	6.56 mm	K1:	-6.1 D
Rs:	5.78 mm	K2:	-6.9 D
Rm:	6.17 mm	Km:	-6.5 D
QS:	OK	Axis:	[steep] 102.4 °
Astig:	0.8 D		
Q-val:	-0.50	Rper:	6.68 mm
(8mm)		Rmin:	5.26 mm

Pupil Center: + 486 µm x[mm] -0.29 y[mm] +0.32

Pachy Apex: - 483 µm x[mm] 0.00 y[mm] 0.00

Thinnest Locat.: O 477 µm x[mm] -0.76 y[mm] -0.42

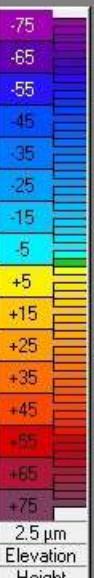
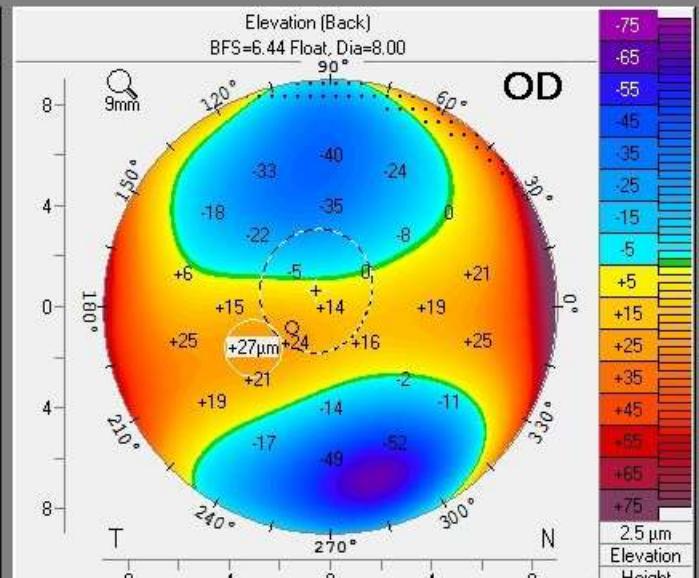
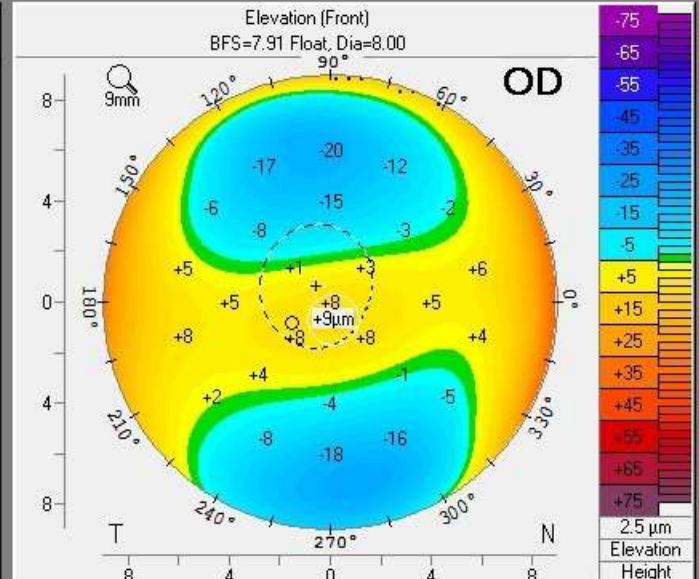
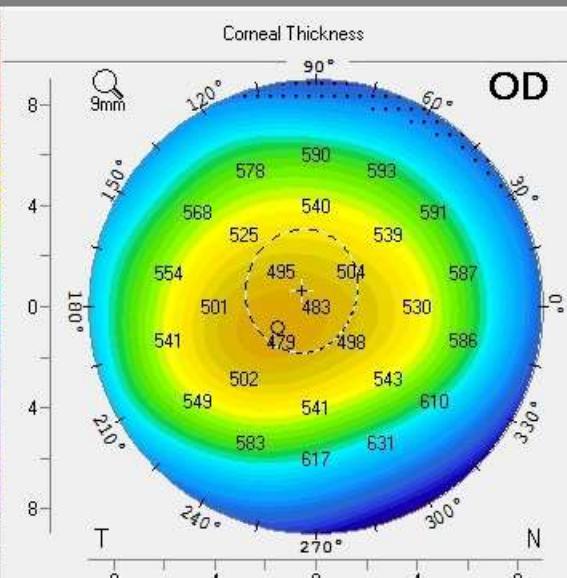
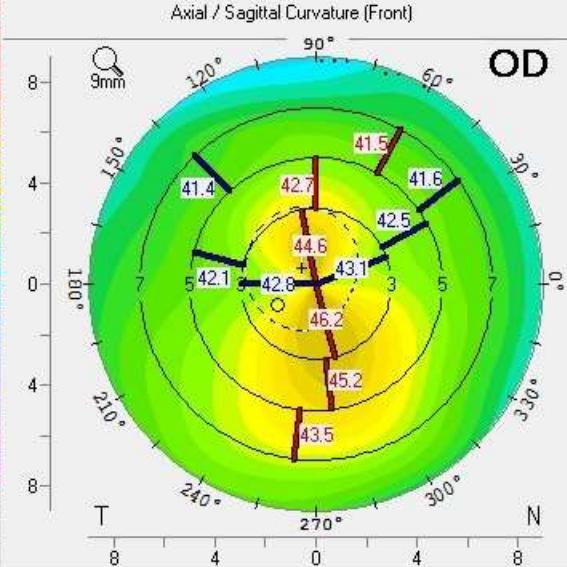
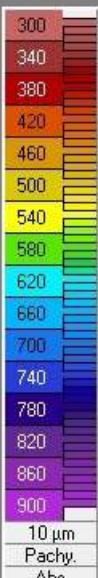
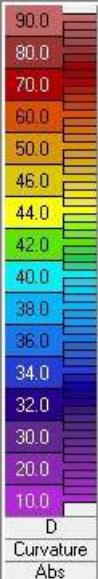
K Max. (Front): + 46.8 D x[mm] +0.07 y[mm] -0.35

Cornea Volume: 56.8 mm³ KPD: +1.5 D

Chamber Volume: 241 mm³ Angle: 47.9 °

A. C. Depth (Ext.): 4.14 mm Pupil Dia: 2.33 mm

Enter IOP | IOP(Sum): +2.7 mmHg Lens Th: []



OCULUS - PENTACAM 4 Maps Refractive

Last Name:	[]
First Name:	[]
ID:	34055
Date of Birth:	07/31/1992
Exam Date:	04/04/2016
Eye:	Left
Time:	10:39:11
Exam Info:	[]

Cornea Front

Rt:	7.86 mm	K1:	42.9 D
Rs:	7.54 mm	K2:	44.7 D
Rm:	7.70 mm	Km:	43.8 D
QS:	OK	Axis:	[steep] 77.1 °
Q-val:	-0.56	Astig:	1.8 D
(8mm)		Rper:	8.20 mm
		Rmin:	7.21 mm

Cornea Back

Rt:	6.61 mm	K1:	-6.1 D
Rs:	5.88 mm	K2:	-6.8 D
Rm:	6.25 mm	Km:	-6.4 D
QS:	OK	Axis:	[steep] 85.5 °
Q-val:	-0.50	Astig:	0.7 D
(8mm)		Rper:	6.74 mm
		Rmin:	5.49 mm

Pupil Center: + [485 µm] x[mm] +0.09 y[mm] +0.48

Pachy Apex: - [477 µm] x[mm] 0.00 y[mm] 0.00

Thinnest Locat: O [472 µm] x[mm] +0.75 y[mm] -0.27

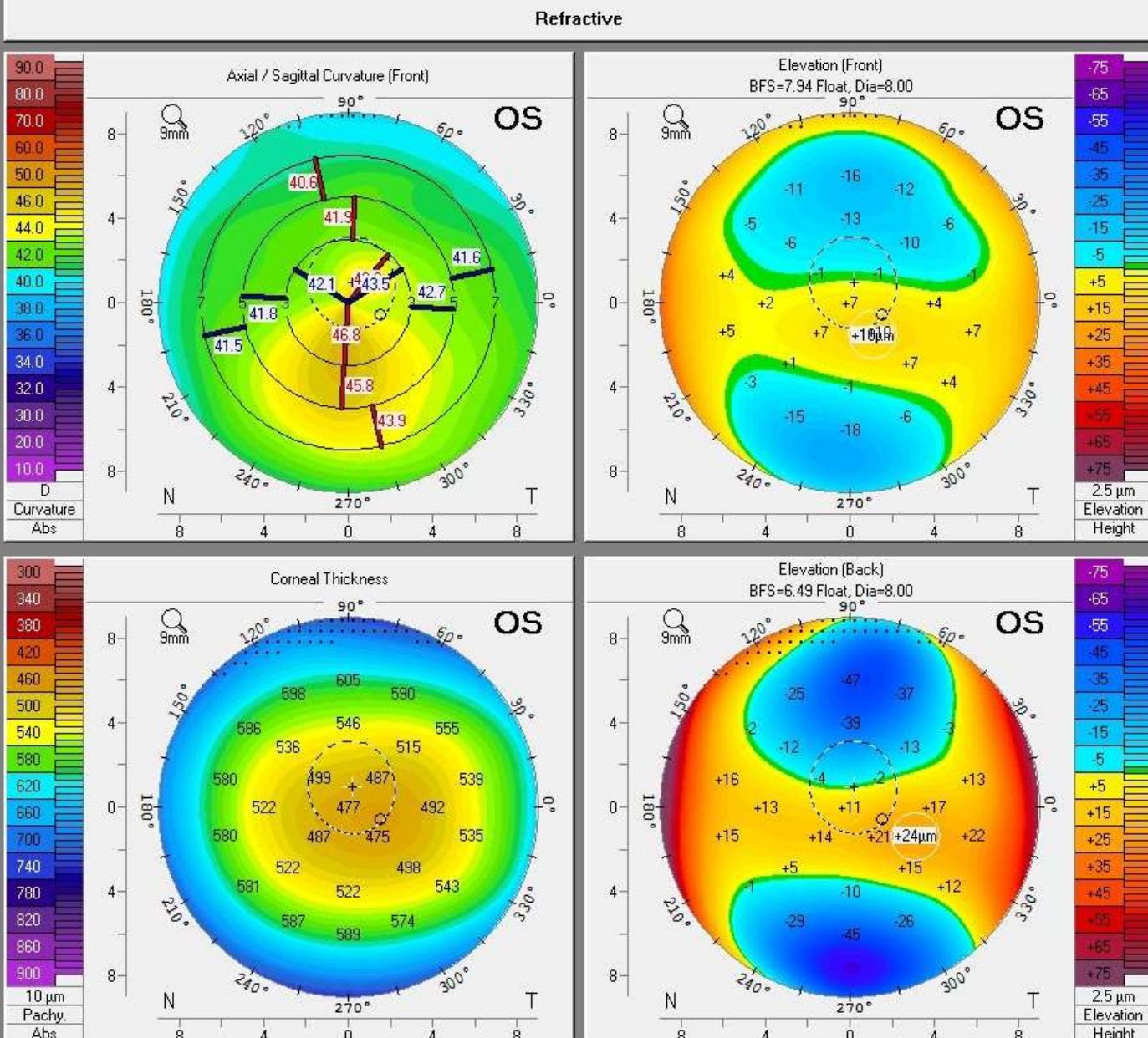
K Max. (Front): - [46.8 D] x[mm] -0.07 y[mm] -1.30

Cornea Volume: [56.0 mm³] KPD: [+1.4 D]

Chamber Volume: [240 mm³] Angle: [46.3 °]

A. C. Depth (Ext.): [4.19 mm] Pupil Dia: [2.13 mm]

Enter IOP IOP(Sum): [+2.9 mmHg] Lens Th.: []



OCULUS - PENTACAM Topometric

Last Name:	<input type="text"/>
First Name:	<input type="text"/>
ID:	34055
Date of Birth:	07/31/1992
Exam Date:	04/04/2016
Eye:	Right
Time:	10:38:48
Exam Info:	<input type="text"/>

Cornea Front	
Rf:	7.83 mm
Rs:	7.42 mm
Rm:	7.63 mm
QS:	OK
Q-val:	-0.58
(8mm)	Rper: 8.16 mm
Rmin:	7.22 mm

Cornea Back	
Rf:	6.56 mm
Rs:	5.78 mm
Rm:	6.17 mm
QS:	OK
Q-val:	-0.50
(8mm)	Axis: (steep) 102.4 °
Rper:	6.68 mm
Rmin:	5.26 mm

True Net Power	
Astig:	1.9 D
Axis:	97.9 °
P.Max.:	44.8 D
Km:	42.9 D

Pupil Center: + 486 µm Pachy: x[mm] -0.29 y[mm] +0.32

Pachy Apex: - 483 µm x[mm] 0.00 y[mm] 0.00

Thinnest Locat.: O 477 µm x[mm] -0.76 y[mm] -0.42

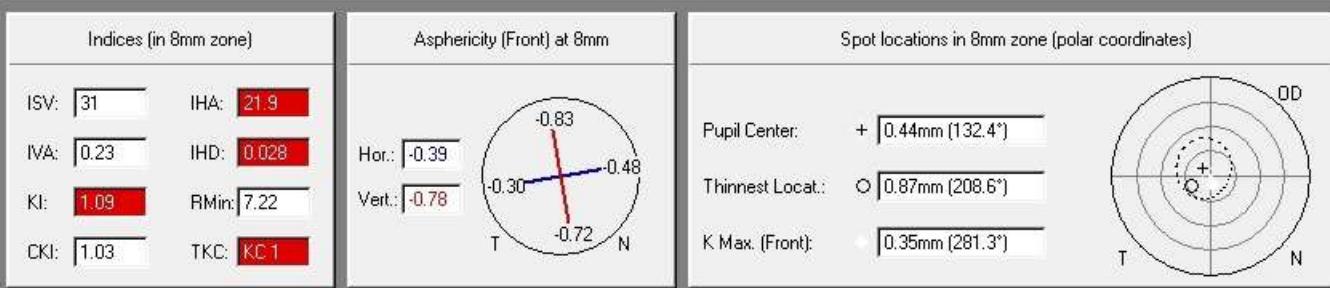
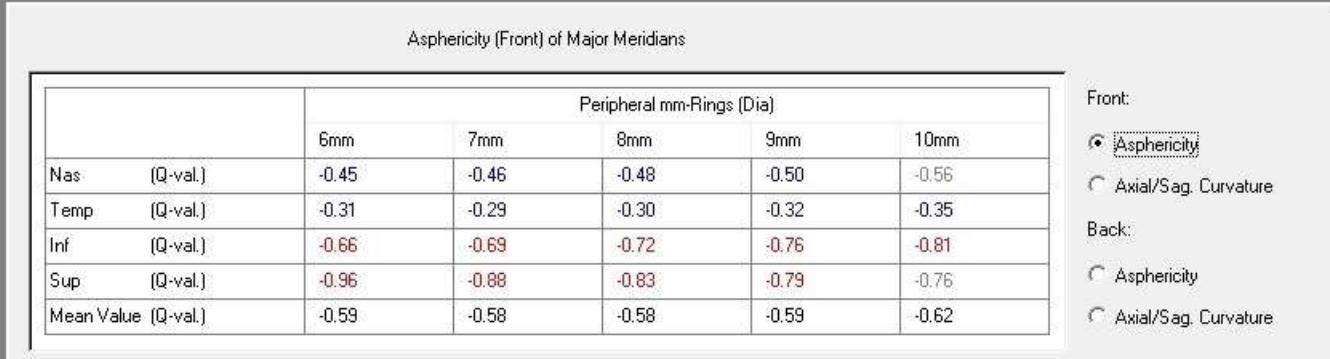
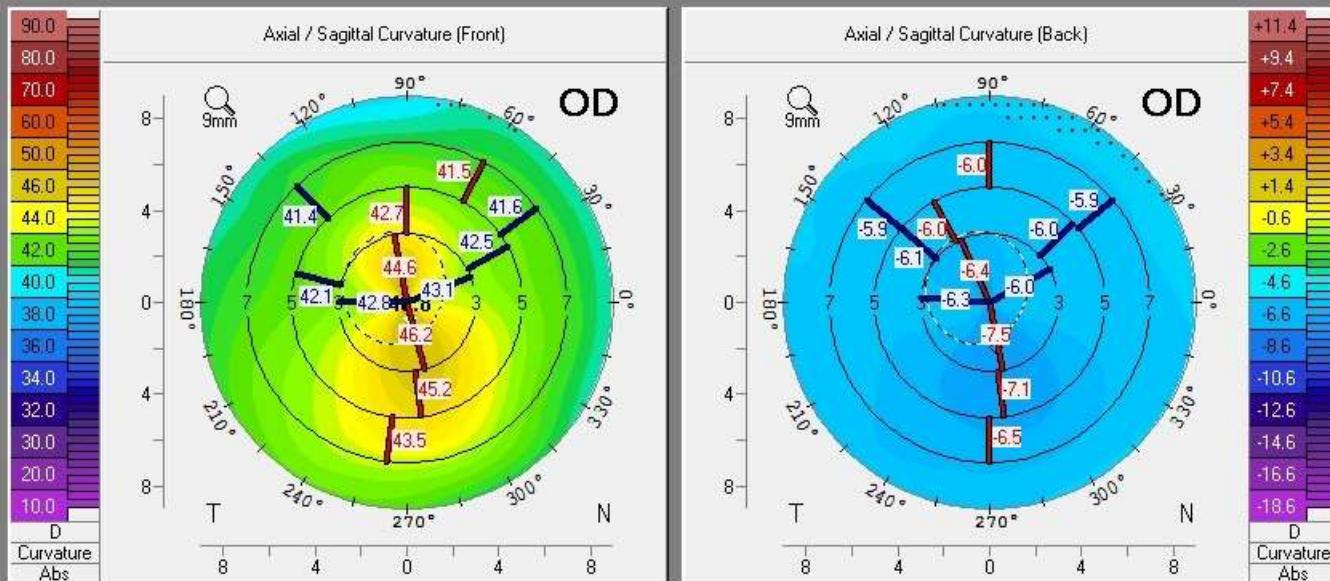
K Max. (Front): + 46.8 D x[mm] +0.07 y[mm] -0.35

Cornea Volume: 56.8 mm³ KPD: +1.5 D

Chamber Volume: 241 mm³ Angle: 47.9 °

A. C. Depth (Ext.): 4.14 mm Pupil Dia: 2.33 mm

IOP(Sum): +2.7 mmHg Lens Th.:



OCULUS - PENTACAM Topometric

Last Name:	[]
First Name:	[]
ID:	34055
Date of Birth:	07/31/1992
Exam Date:	04/04/2016
Eye:	Left
Time:	10:39:11
Exam Info:	[]

Cornea Front

90°	Rf: 7.86 mm	K1: 42.9 D
0°	Rs: 7.54 mm	K2: 44.7 D
270°	Rm: 7.70 mm	Km: 43.8 D
Qs: OK	Axis: (steep) 77.1 °	Astig: 1.8 D
Q-val: (8mm) -0.56	Rper: 8.20 mm	Rmin: 7.21 mm

Cornea Back

90°	Rf: 6.61 mm	K1: -6.1 D
0°	Rs: 5.88 mm	K2: -6.8 D
270°	Rm: 6.25 mm	Km: -6.4 D
Qs: OK	Axis: (steep) 85.5 °	Astig: 0.7 D
Q-val: (8mm) -0.50	Rper: 6.74 mm	Rmin: 5.49 mm

True Net Power

90°	Astig: 1.3 D	K1: 41.8 D
0°	Axis: (stp.) 73.5 °	K2: 43.2 D
270°	P.Max: 44.9 D	Km: 42.5 D

Pupil Center: + 485 µm Pachy: x[mm] +0.09 y[mm] +0.48

Pachy Apex: - 477 µm x[mm] 0.00 y[mm] 0.00

Thinnest Locat: O 472 µm x[mm] +0.75 y[mm] -0.27

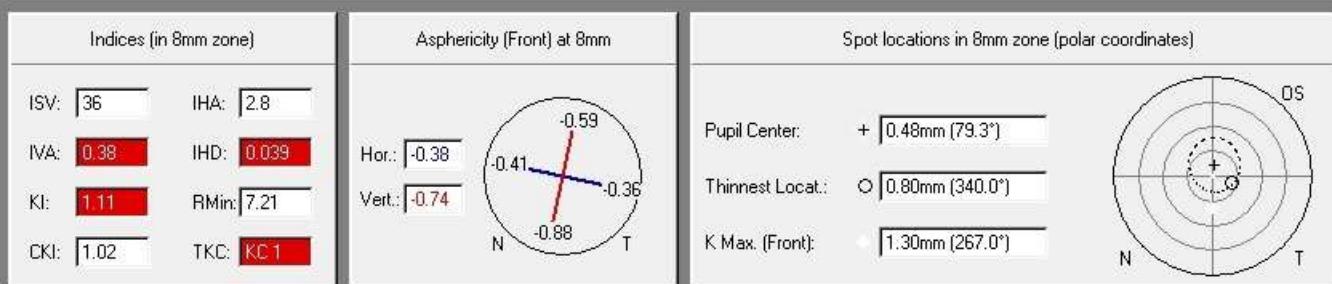
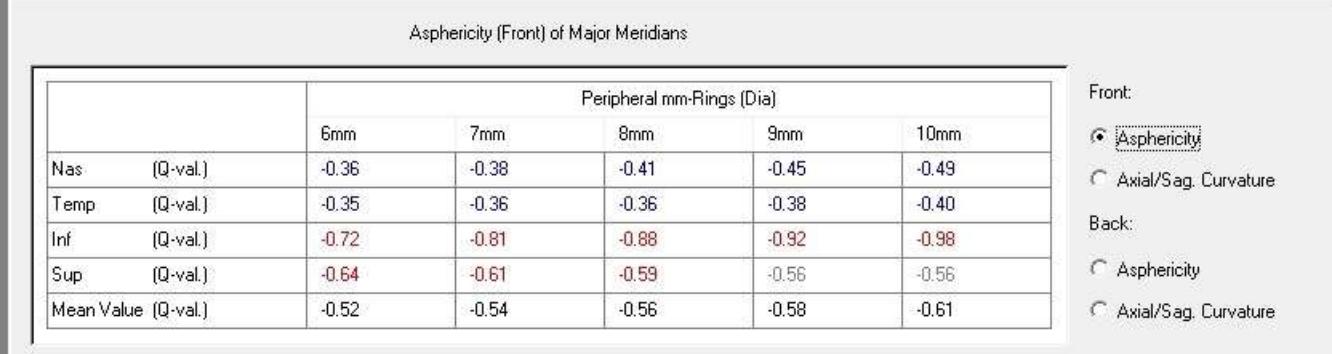
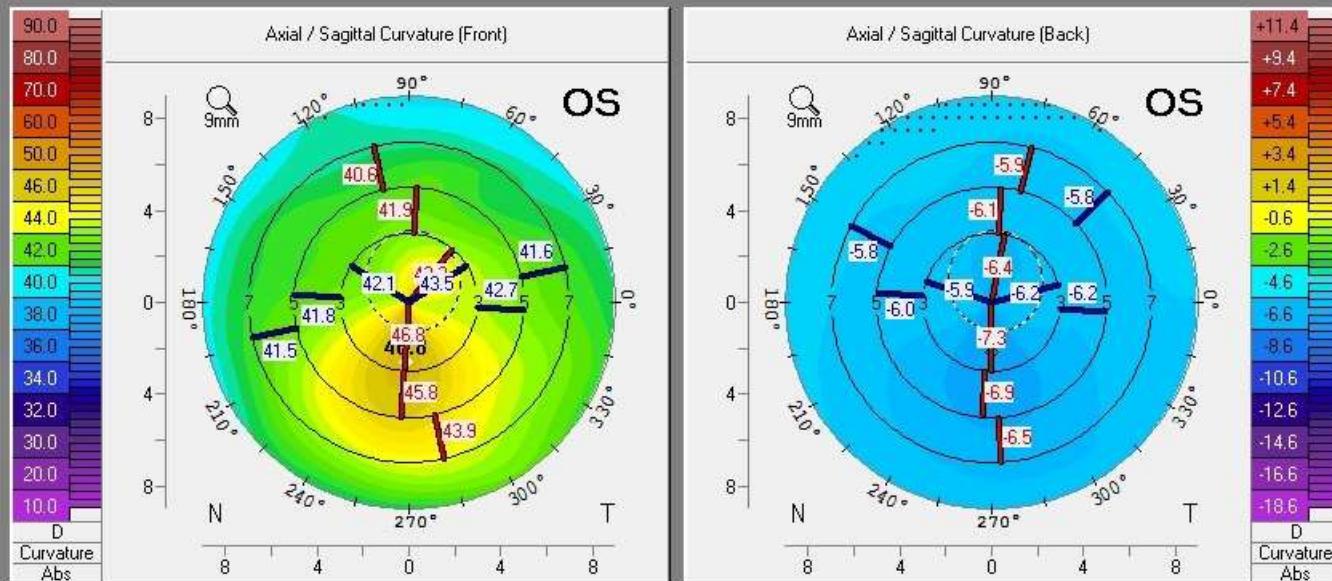
K Max. (Front): • 46.8 D x[mm] -0.07 y[mm] -1.30

Cornea Volume: 56.0 mm³ KPD: +1.4 D

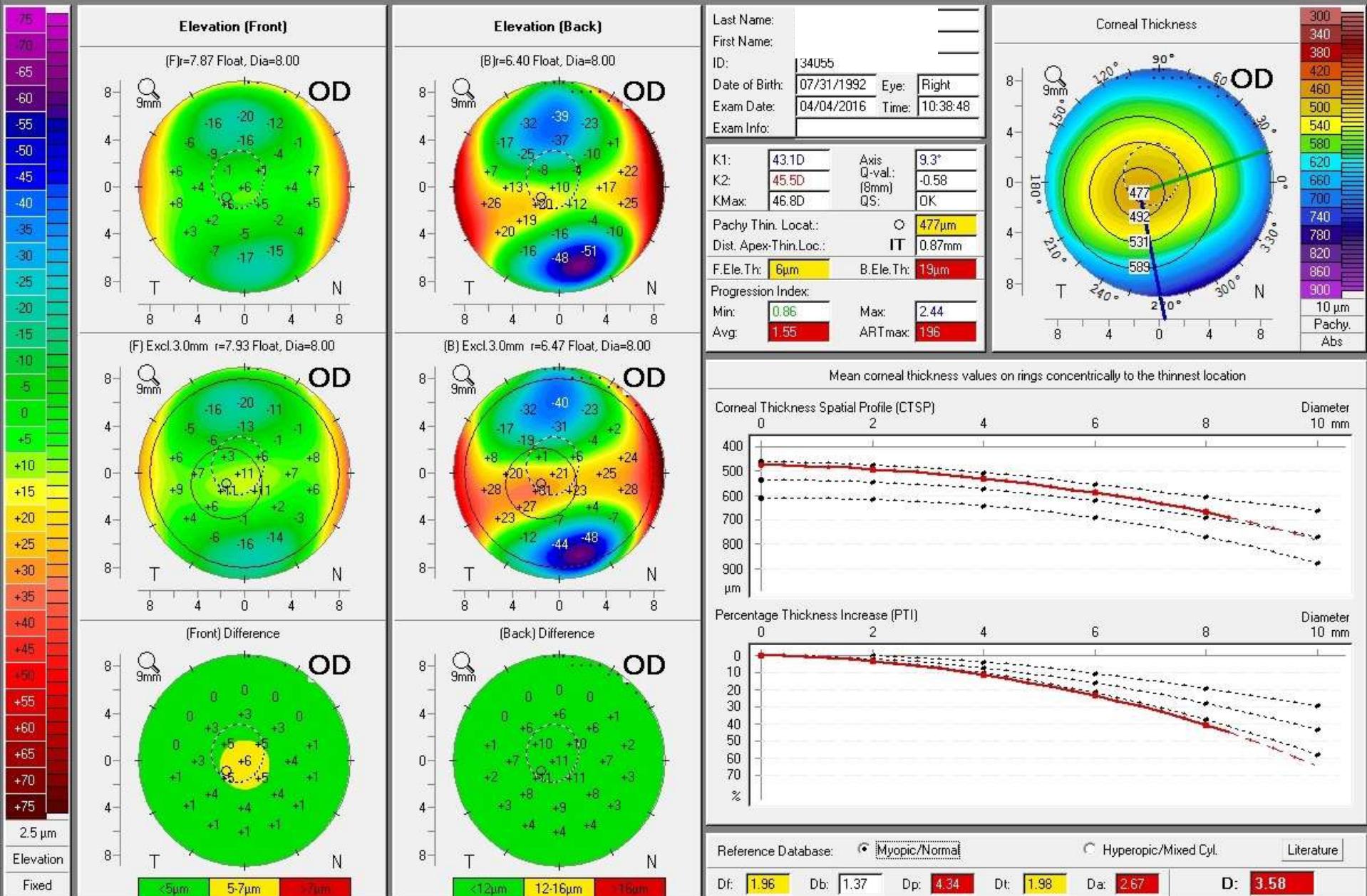
Chamber Volume: 240 mm³ Angle: 46.3 °

A. C. Depth (Ext.): 4.19 mm Pupil Dia: 2.13 mm

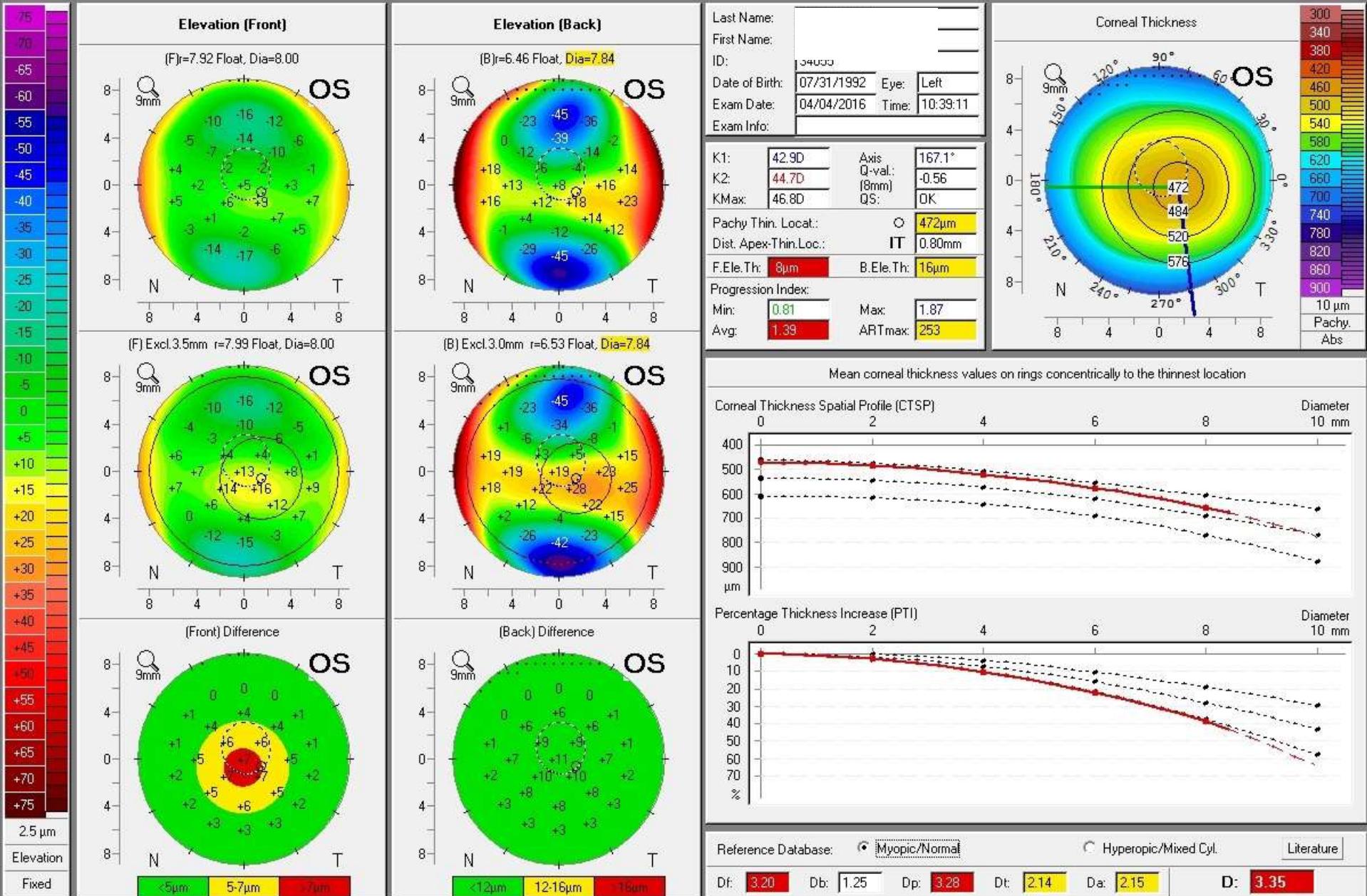
IOP(Sum): +2.9 mmHg Lens Th.: []



OCULUS - PENTACAM Belin / Ambrósio Enhanced Ectasia



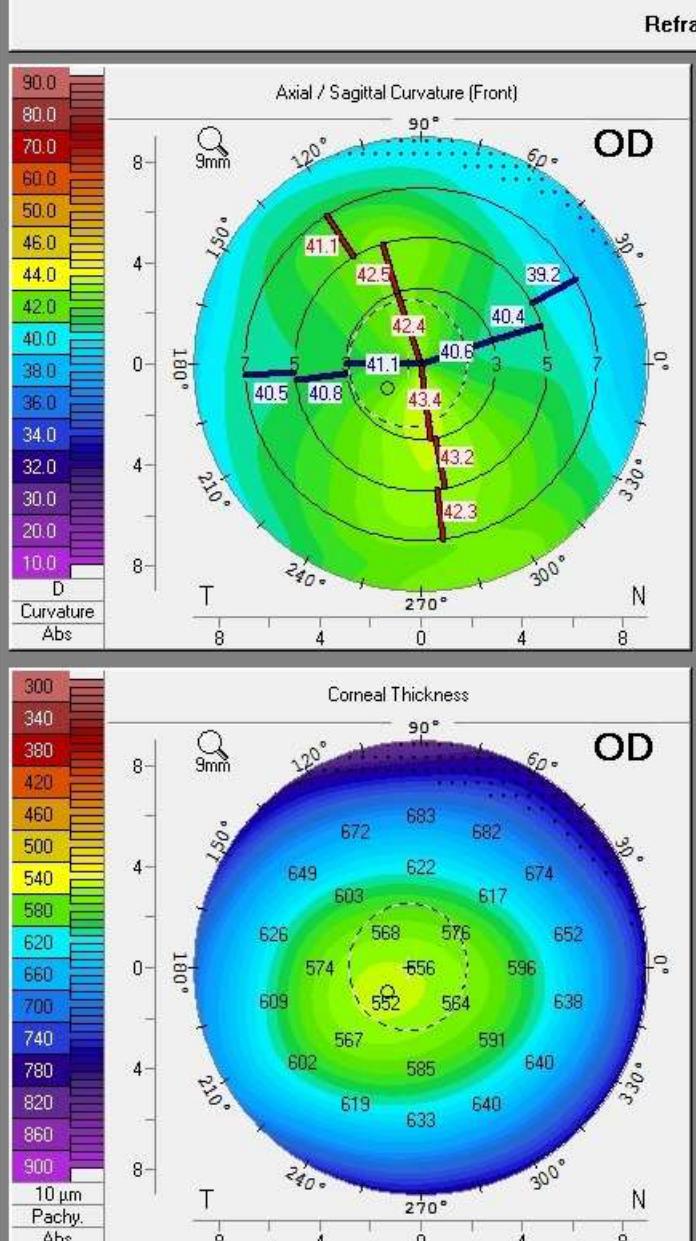
OCULUS - PENTACAM Belin / Ambrósio Enhanced Ectasia



19 yo brother

OCULUS - PENTACAM 4 Maps Refractive

Last Name:		
First Name:		
ID:		
Date of Birth:	Right	
Exam Date:	11:13:19	
Exam Info:		
Cornea Front Rf: 8.25 mm K1: 40.9 D Rs: 7.86 mm K2: 42.9 D Rm: 8.05 mm Km: 41.9 D QS: <input checked="" type="checkbox"/> OK Axis: (steep) 97.9 ° Astig: 2.0 D Q-val: (-0.41) Rper: 8.34 mm Rmin: 7.75 mm		
Cornea Back Rf: 16.86 mm K1: 5.8 D Rs: 16.18 mm K2: -6.5 D Rm: 16.52 mm Km: -6.1 D QS: <input checked="" type="checkbox"/> OK Axis: (steep) 97.8 ° Astig: 0.6 D Q-val: (-0.34) Rper: 16.78 mm Rmin: 5.99 mm		
Pupil Center: + 554 µm x[mm] -0.26 y[mm] +0.01 Pachy Apex: - 556 µm x[mm] 0.00 y[mm] 0.00 Thinnest Locat: O 551 µm x[mm] -0.67 y[mm] -0.47 K Max. (Front): • 43.5 D x[mm] +0.07 y[mm] -0.81 Cornea Volume: 61.6 mm³ KPD: +1.4 D Chamber Volume: 170 mm³ Angle: 43.8 ° A. C. Depth (Ext.): 3.70 mm Pupil Dia: 2.42 mm Enter IOP IOP(Sum): -0.2 mmHg Lens Th.:		



OCULUS - PENTACAM 4 Maps Refractive

Last Name: _____
 First Name: _____
 ID: _____
 Date of Birth: _____
 Exam Date: _____
 Exam Info: _____

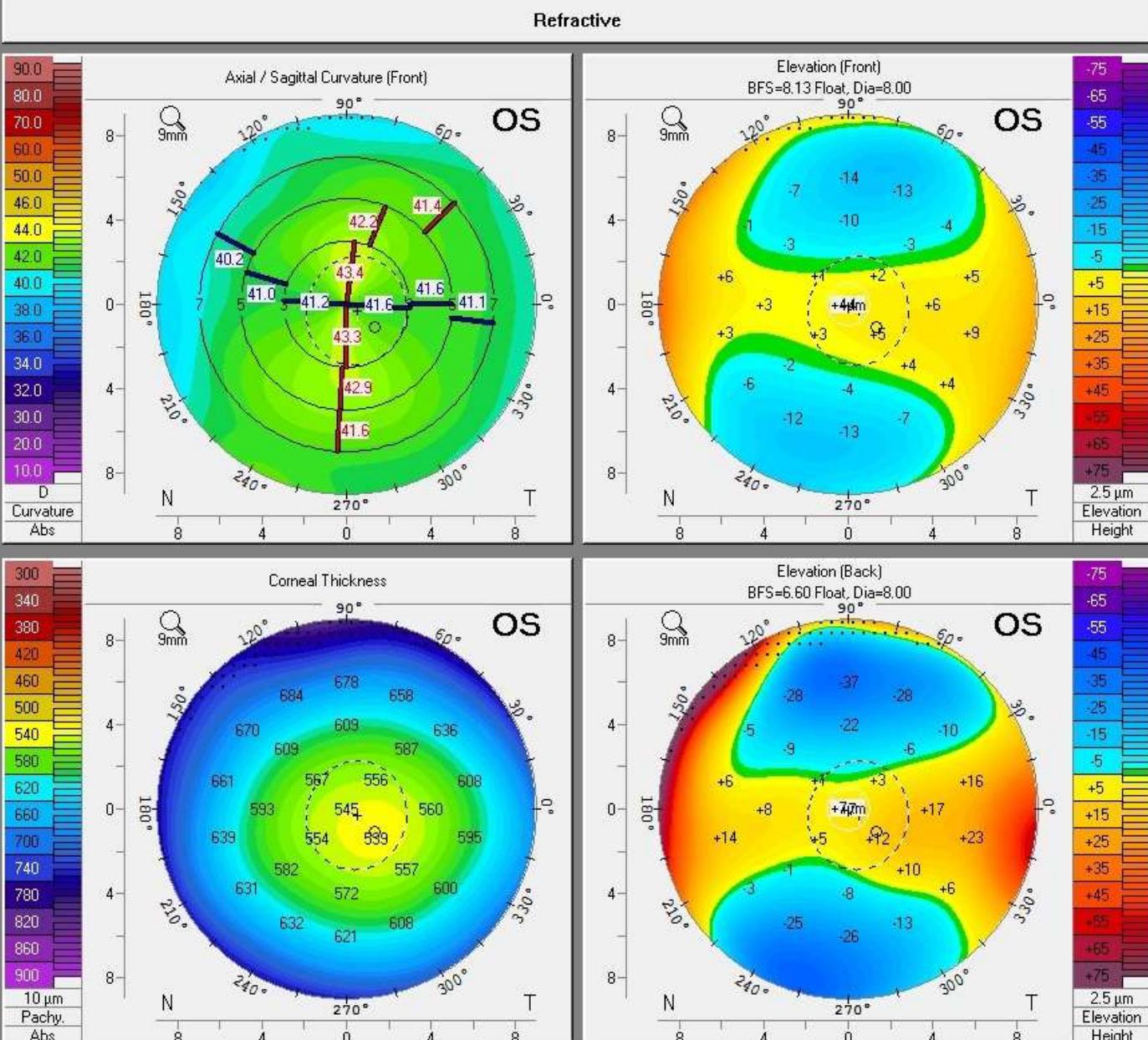
Cornea Front

Rf:	8.15 mm	K1:	41.4 D
Rs:	7.79 mm	K2:	43.3 D
Rm:	7.97 mm	Km:	42.3 D
QS:	OK	Axis:	[steep] 83.0 °
Q-val:	-0.42	Astig:	1.9 D
(8mm)		Rper:	8.31 mm
		Rmin:	7.69 mm

Cornea Back

Rf:	6.73 mm	K1:	-5.9 D
Rs:	6.18 mm	K2:	-6.5 D
Rm:	6.45 mm	Km:	-6.2 D
QS:	OK	Axis:	[steep] 84.3 °
Q-val:	-0.41	Astig:	0.5 D
(8mm)		Rper:	6.79 mm
		Rmin:	6.09 mm

Pupil Center:	+ [542 µm]	x[mm]:	[+0.24]	y[mm]:	[-0.16]
Pachy Apex:	- [545 µm]		[0.00]		[0.00]
Thinnest Locat.:	O [539 µm]		[+0.68]		[-0.54]
K Max. (Front):	* [43.9 D]		[+0.07]		[+0.68]
Cornea Volume:	[61.0 mm³]	KPD:	[+1.3 D]		
Chamber Volume:	[180 mm³]	Angle:	[44.5 °]		
A. C. Depth (Ext.):	[3.69 mm]	Pupil Dia:	[2.47 mm]		
Enter IOP IOP(Sum):	[+0.2 mmHg]	Lens Th.:	_____		



OCULUS - PENTACAM Topometric

Last Name: _____
 First Name: _____
 ID: _____
 Date of Birth: _____ Right
 Exam Date: _____ 11:13:19
 Exam Info: _____

Cornea Front

Rf:	8.25 mm	K1:	40.9 D
Rs:	7.86 mm	K2:	42.9 D
Rm:	8.05 mm	Km:	41.9 D
QS:	OK	Axis:	(steep) 97.9 °
Q-val:	-0.41	Astig:	2.0 D
(8mm)		Rper:	8.34 mm
		Rmin:	7.75 mm

Cornea Back

Rf:	6.86 mm	K1:	-5.8 D
Rs:	6.18 mm	K2:	-6.5 D
Rm:	6.52 mm	Km:	-6.1 D
QS:	OK	Axis:	(steep) 97.8 °
Q-val:	-0.34	Astig:	0.6 D
(8mm)		Rper:	6.78 mm
		Rmin:	5.99 mm

True Net Power

Astig:	1.5 D	K1:	39.8 D
Axis:	(steep) 98.8 °	K2:	41.3 D
P.Max:	41.9 D	Km:	40.5 D

Pupil Center: + 554 µm x[mm] -0.26 y[mm] +0.01

Pachy Apex: - 556 µm x[mm] 0.00 y[mm] 0.00

Thinnest Locat.: ○ 551 µm x[mm] -0.67 y[mm] -0.47

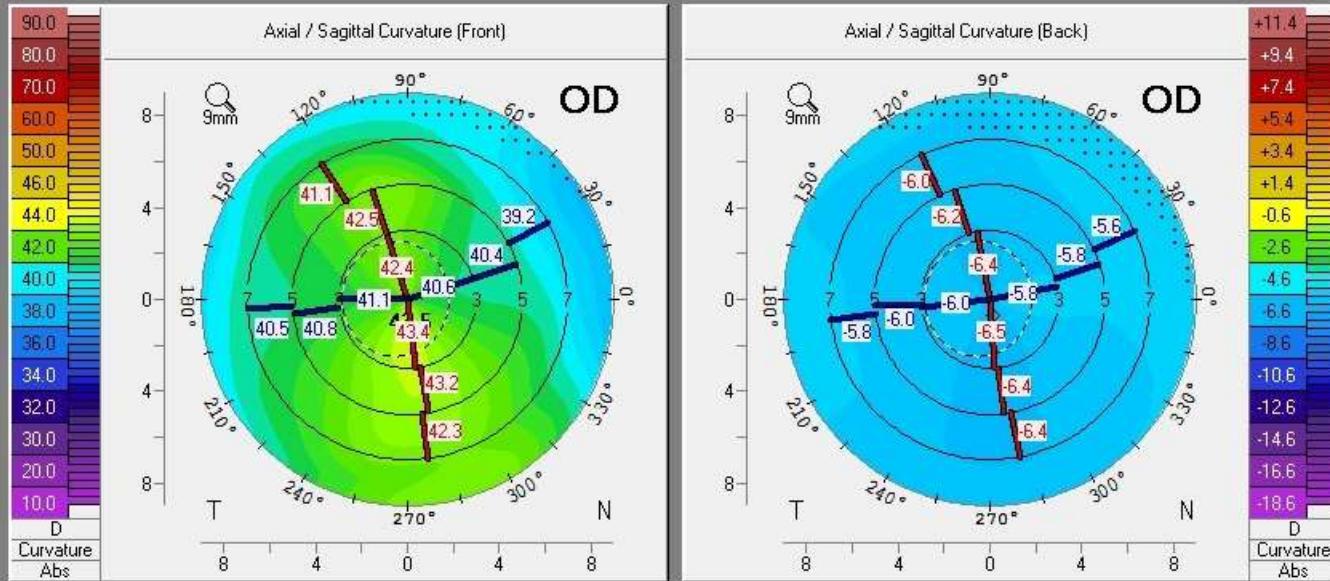
K Max. (Front): • 43.5 D x[mm] +0.07 y[mm] -0.81

Cornea Volume: 61.6 mm³ KPD: +1.4 D

Chamber Volume: 170 mm³ Angle: 43.8 °

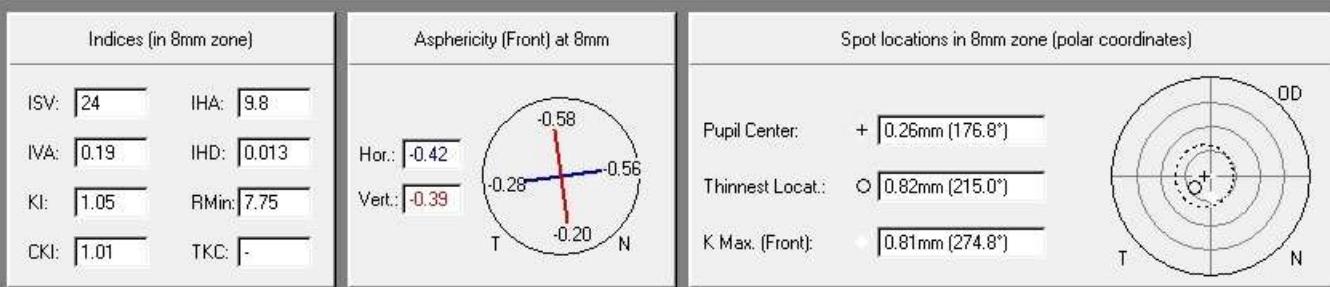
A. C. Depth (Ext.): 3.70 mm Pupil Dia: 2.42 mm

IOP(Sum): -0.2 mmHg Lens Th.: _____



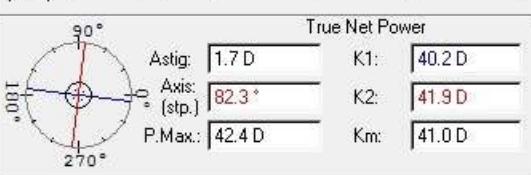
Asphericity (Front) of Major Meridians

	Peripheral mm-Rings (Dia)				
	6mm	7mm	8mm	9mm	10mm
Nas (Q-val.)	-0.41	-0.49	-0.56	-0.59	-0.64
Temp (Q-val.)	-0.22	-0.23	-0.28	-0.34	-0.38
Inf (Q-val.)	-0.26	-0.23	-0.20	-0.26	-0.61
Sup (Q-val.)	-0.50	-0.58	-0.58	-0.56	-0.66
Mean Value (Q-val.)	-0.35	-0.38	-0.41	-0.44	-0.57



OCULUS - PENTACAM Topometric

Last Name:	
First Name:	
ID:	
Date of Birth:	Left
Exam Date:	11:14:52
Exam Info:	



Pupil Center: +

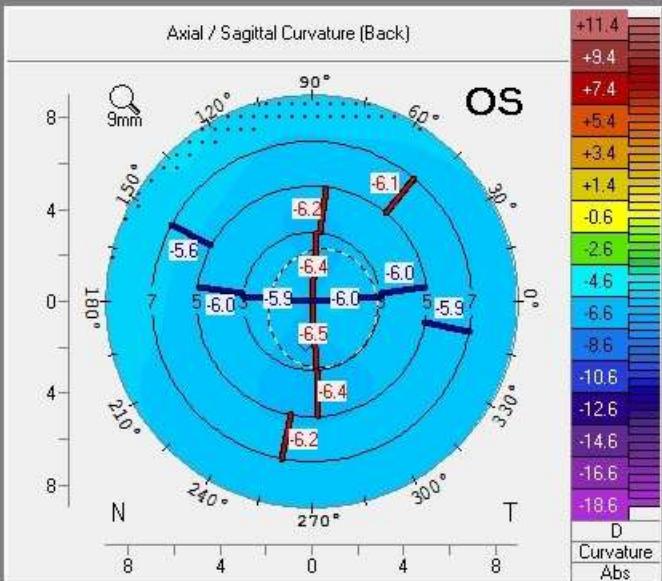
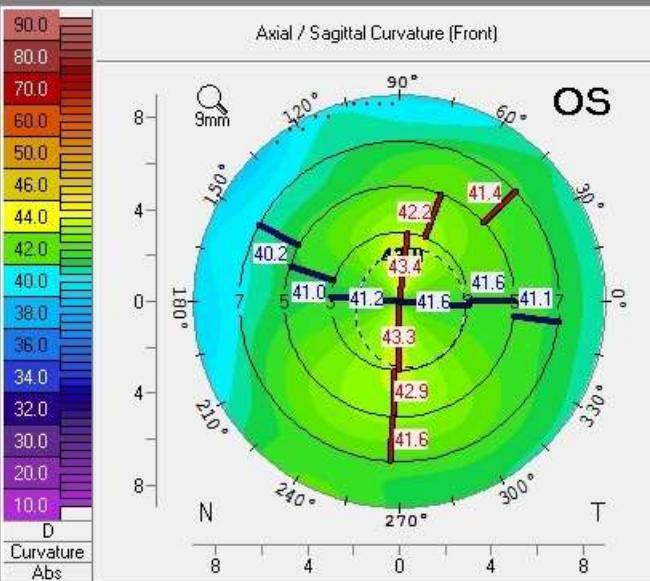
Pachy Apex:

Thinnest Locat.: 539 μ m +0.68 -0.54

Cornea Volume: **61.0 mm³** KPD: **+1.3 D**

Chamber Volume: 180 mm³ Angle: 44.5 °
A. C. Depth (Ext.): 3.69 mm Pupil Dia: 2.47 mm

IOP(Sum): +0.2 mmHg Lens Th.:



Asphericity (Front) of Major Meridians

	Peripheral mm-Rings (Dia)				
	6mm	7mm	8mm	9mm	10mm
Nas (Q-val.)	-0.38	-0.40	-0.40	-0.42	-0.52
Temp (Q-val.)	-0.18	-0.21	-0.25	-0.28	-0.31
Inf (Q-val.)	-0.48	-0.46	-0.40	-0.35	-0.41
Sup (Q-val.)	-0.72	-0.69	-0.66	-0.61	-0.59
Mean Value (Q-val.)	-0.44	-0.44	-0.42	-0.41	-0.46

Front:

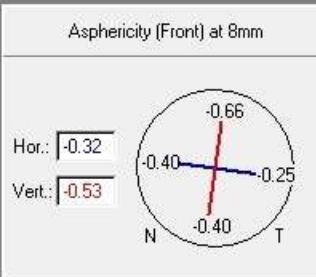
• Asphericity

Back

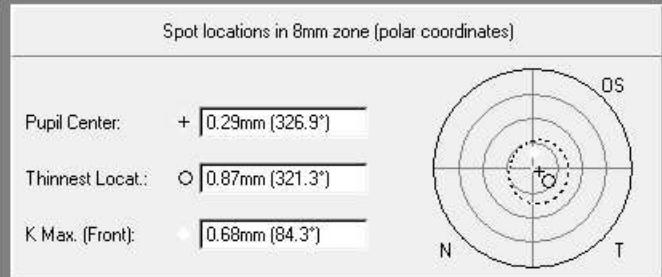
C Asphericity

ANSWER

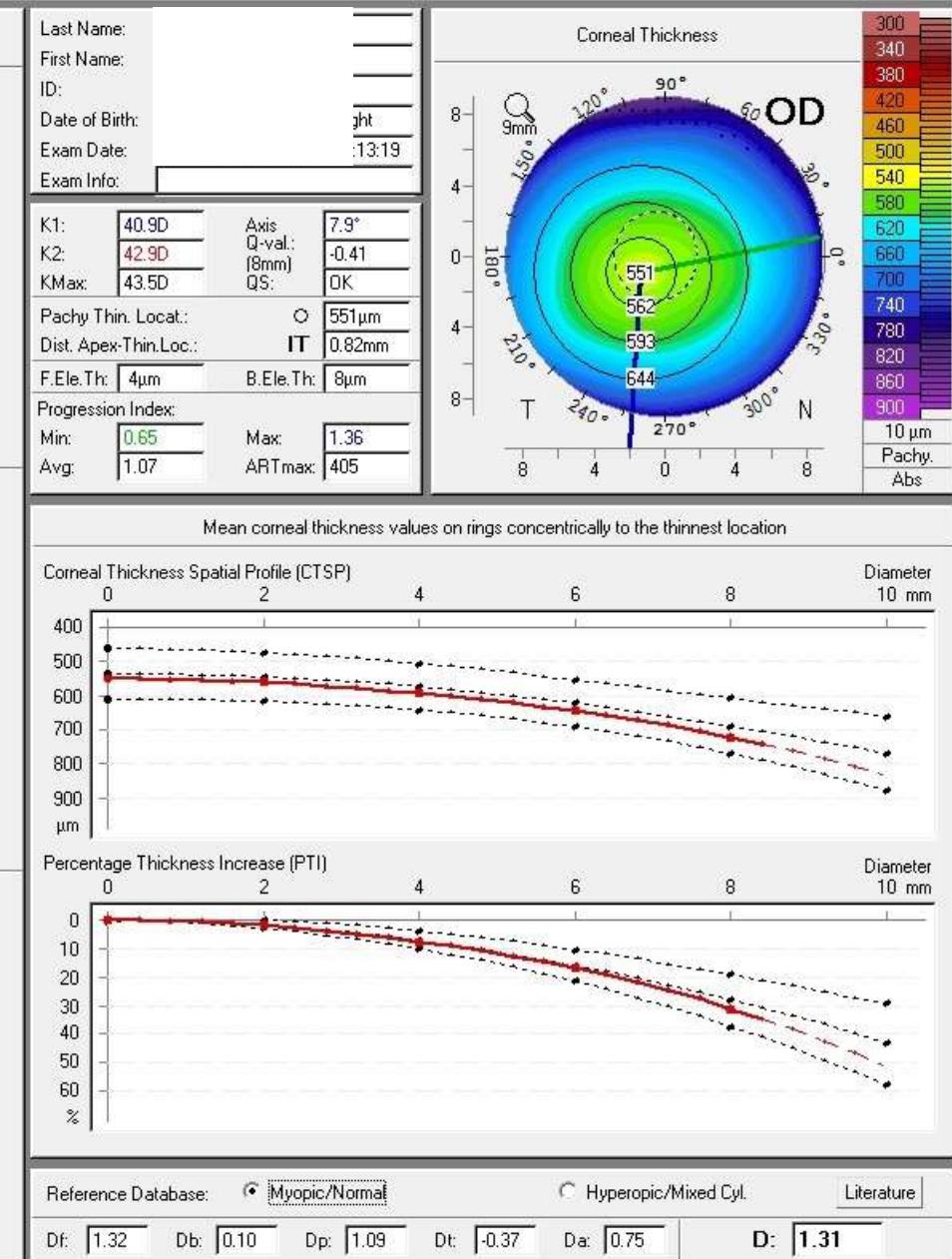
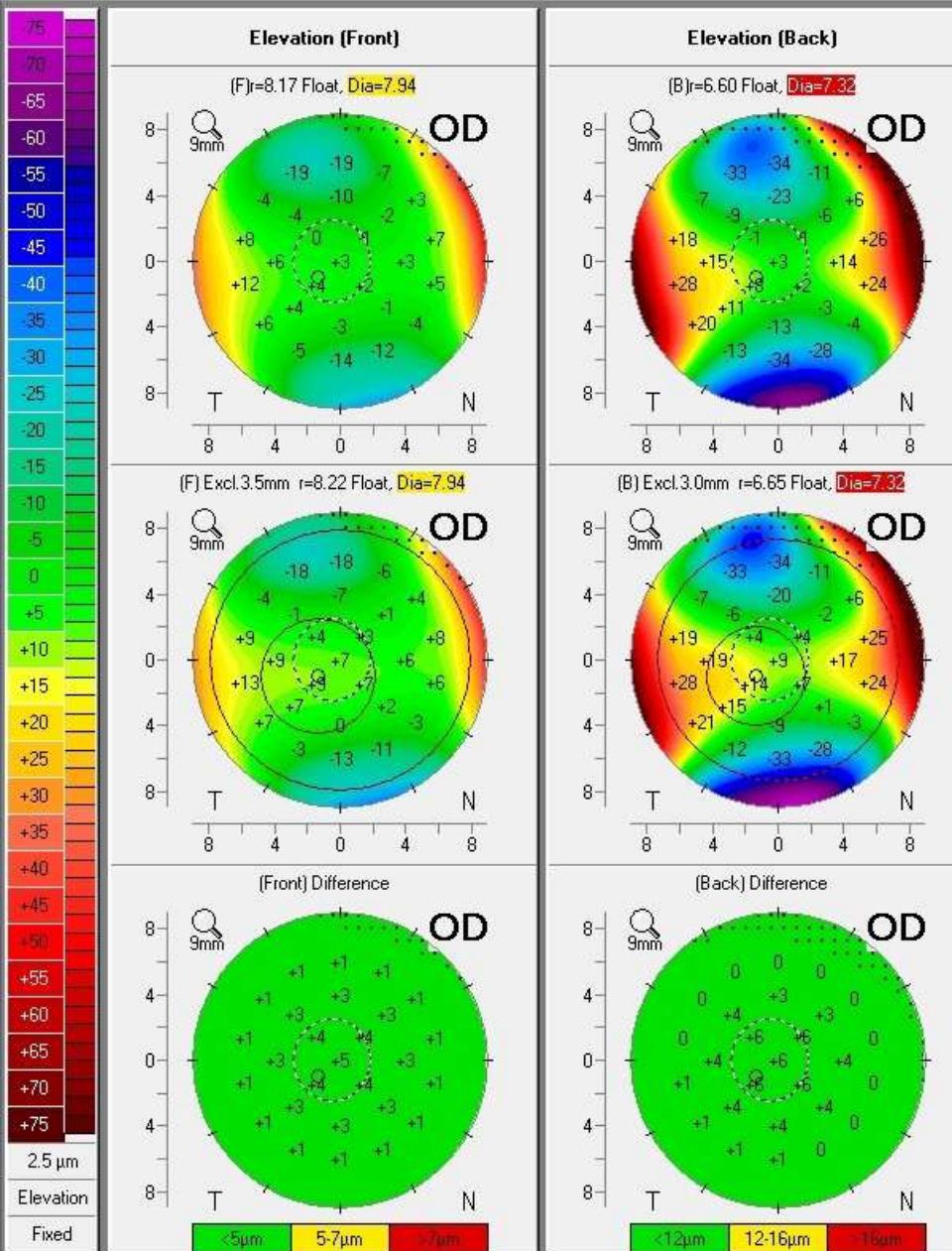
Indices (in 8mm zone)	
ISV:	[20]
IHA:	[8.0]
IVA:	[0.12]
IHD:	[0.012]
KI:	[1.04]
RMin:	[7.69]
CKI:	[1.01]
TKC:	[-]



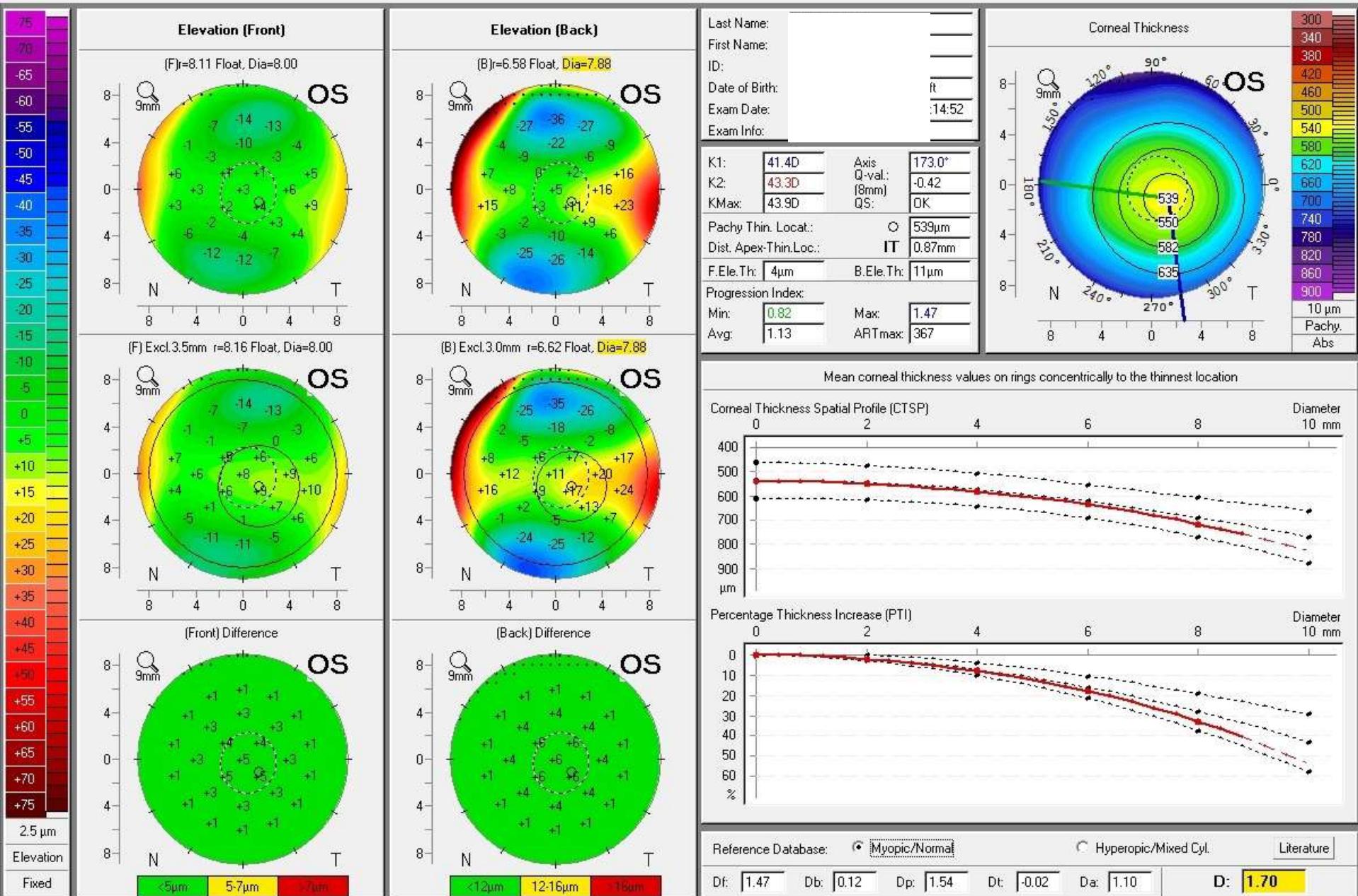
Spot locations in 8mm zone

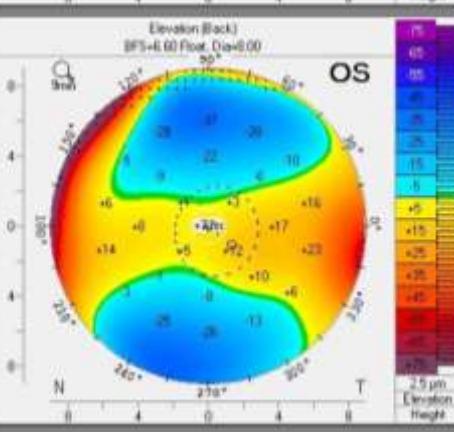
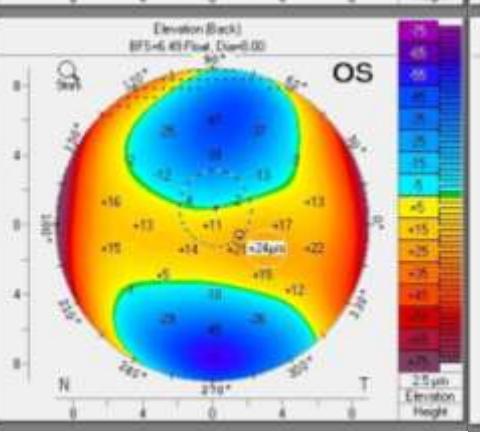
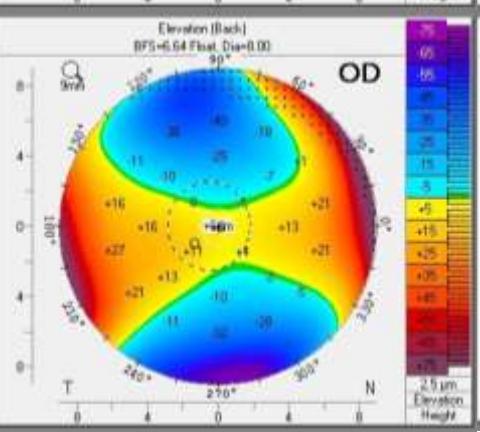
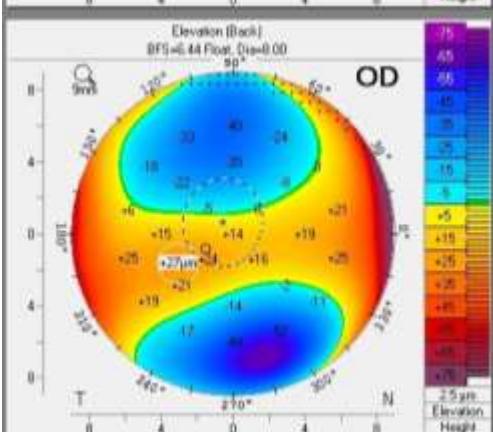
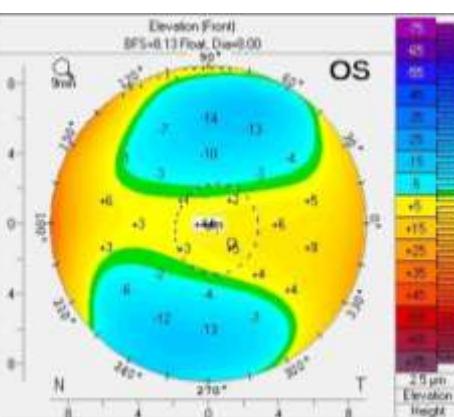
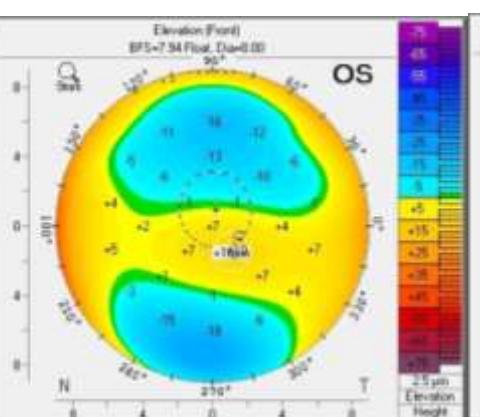
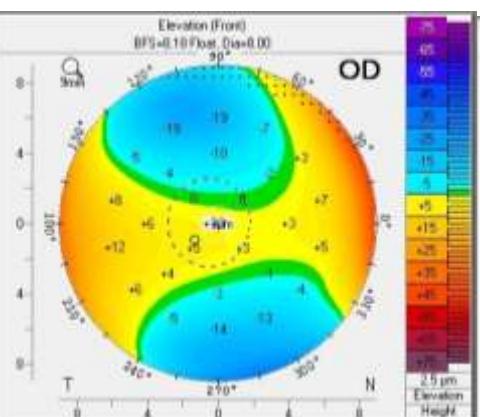
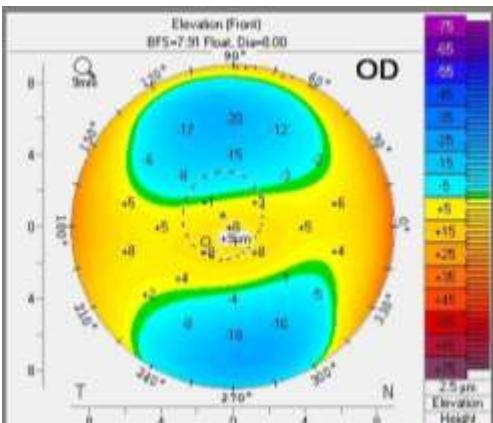


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FDA Age

- 21 for Myopes
- 18 for Hyperopes