

17TH INTERNATIONAL CONFERENCE OF THE
RESEARCH INSTITUTE OF OPHTHALMOLOGY

RIO 2025

*Anterior Segment Eye Diseases
Current Status & Future Directions*



Clinical interpretation of corneal biomechanics

Tarek El-Naggar, MD, FRCS (Glasg)

Head Of Refractive surgery unit -
Research Institute of Ophthalmology

A. Professor of Ophthalmology

The Speaker Has No Financial Interest



Do we really need biomechanical
evaluation?

CorVis ST

Corneal Visualization Scheimpflug Technology

DCR



(UHS) Scheimpflug camera angled at 45° towards the apex of the cornea

140 cross-sectional images in 30 ms

4,330 frames per second

8 mm horizontal coverage

Air puff

60 mmHg

3.05 mm

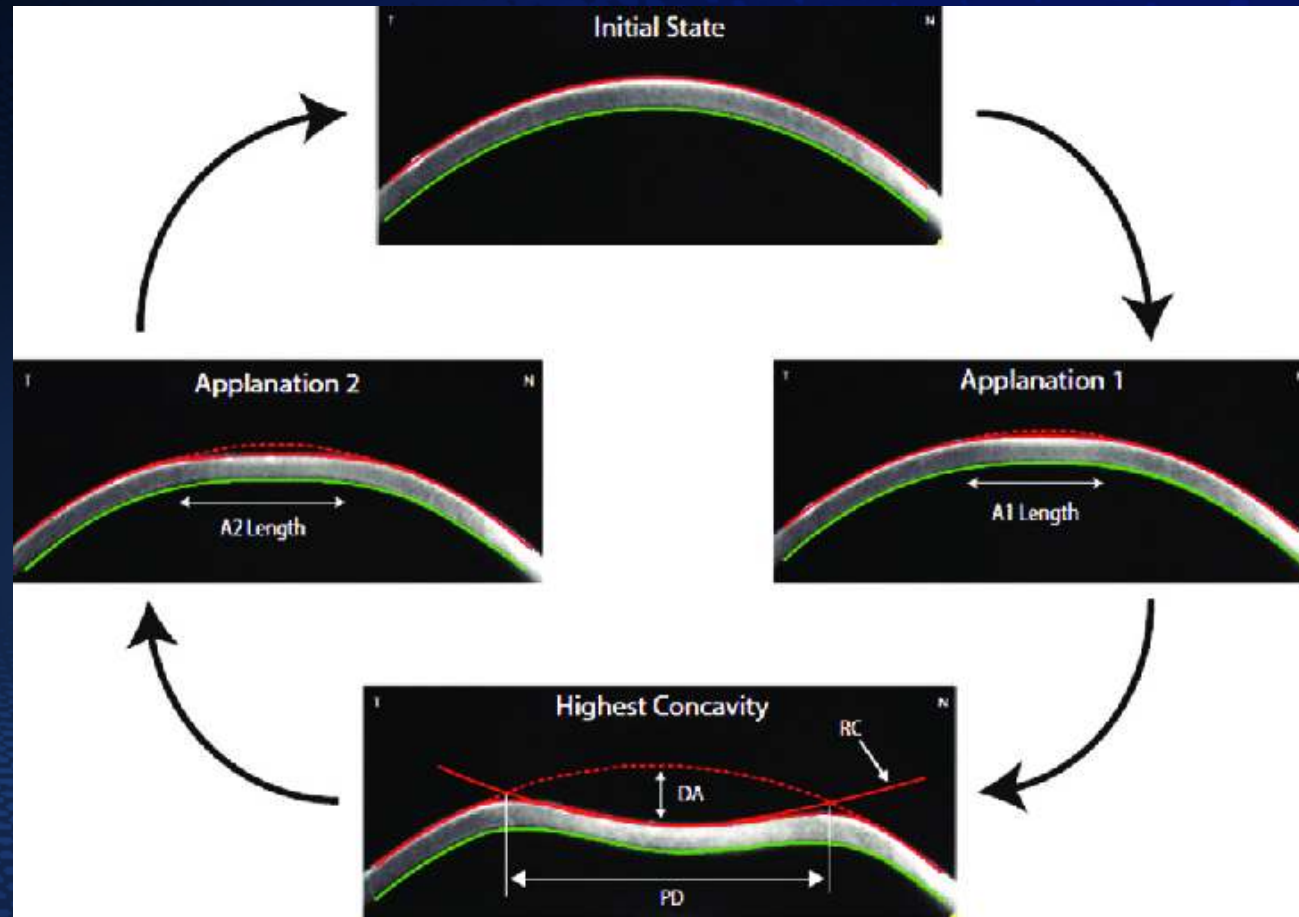
Corneal Deformation



Eye: Left (OS)

 ZOCULUS

0.00 ms



Scheimpflug images of the corneal deformation response on Corvis ST showing the biomechanical parameters derived at each stage. The fixed air puff causes the cornea to flatten (applanation point A1) and then move inwards to reach the point of highest concavity where the deformation amplitude (DA in mm), peak distance (PD in mm), and the radius of curvature (RC in mm) are measured. As the cornea begins to assume its normal, convex shape, it passes through the second applanation point (A2)

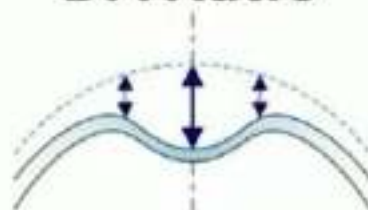


1 st Applanation	Moment at the first applanation of the cornea during the air puff (in milliseconds). In parenthesis is the length of the applanation at this moment (in millimeters)
Highest Concavity	Moment that the cornea assumes its maximum concavity during the air puff (in milliseconds). In parenthesis is the length of the distance between the two peaks of the cornea at this moment (in millimeters)
2 nd Applanation	Moment at the second applanation of the cornea during the air puff (in milliseconds). In parenthesis is the length of the applanation at this moment (in millimeters)
Maximum Deformation	Measurement (in millimeters) of the maximum cornea deformation during the air puff
Wing Distance	Length of the distance between the two peaks of the cornea at this moment (in millimeters)
Maximum Velocity (in)	Maximum velocity during the ingoing phase (in meters per seconds [m/s])
Maximum Velocity (out)	Maximum velocity during the outgoing phase (in meters per seconds [m/s])
Curvature Radius Normal	Radius of curvature of the cornea in its natural state (in millimeters)
Curvature Radius HC	Radius of curvature of the cornea at the time of maximum concavity during the air puff (in millimeters)
Cornea Thickness	Measurement of the corneal thickness (in millimeters)
IOP	Measurement of the intraocular pressure (in millimeters of Mercury [mmHg])
DARatio 2 mm	Ratio between vertical displacement at apex and at 2 mm
Inverse concave Radius	Inverse of the Radius of curvature during concave phase of the deformation
Integrated Radius	Area under the inverse concave Radius vs. time curve
SP-A1	Parameter reflecting bending stiffness of the cornea as defined by force/replacement
blOP	Biomechanical corrected IOP
CBI	Corvis Biomechanical Index: overall biomechanical index for kc detection
TBI	Tomographic Biomechanical Index: combines tomographic and biomechanical data for enhanced ectasia detection

CBI

Corvis Biomechanical Index

DA Ratio



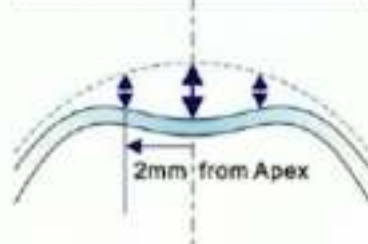
higher index value



Deformation
= Deflection +
Eye movement
Ratio
Apex : 2mm

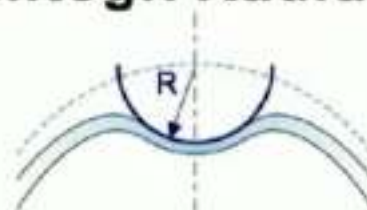


lower index value



The lower the index value, the stiffer the cornea

Integr. Radius



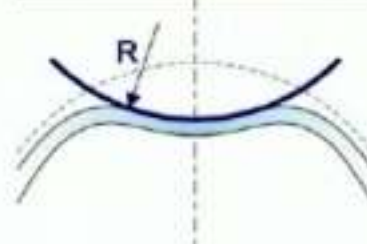
higher index value



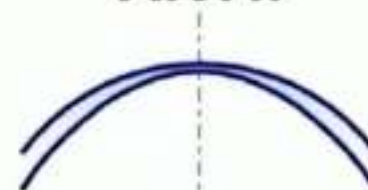
Inverse Concave Radius
= 1/Radius of curvature
Integrated Radius
= Area under Inverse
Concave Radius curve



lower index value



ARTh



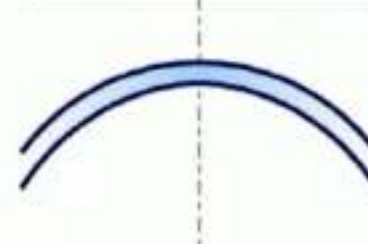
lower index value



**Amblosio Relational
Thickness horizontal**
= $\frac{\text{Pachy (thinnest)}}{\text{Pachy Progression}}$

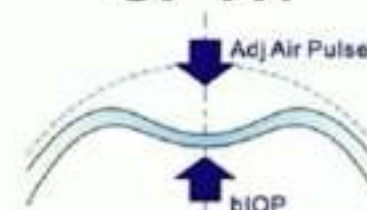


higher index value



The higher the index value, the stiffer the cornea

SP-A1



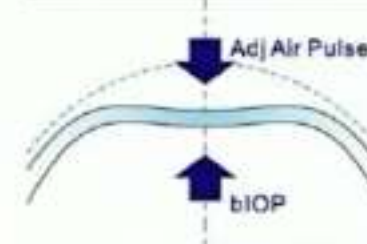
lower index value

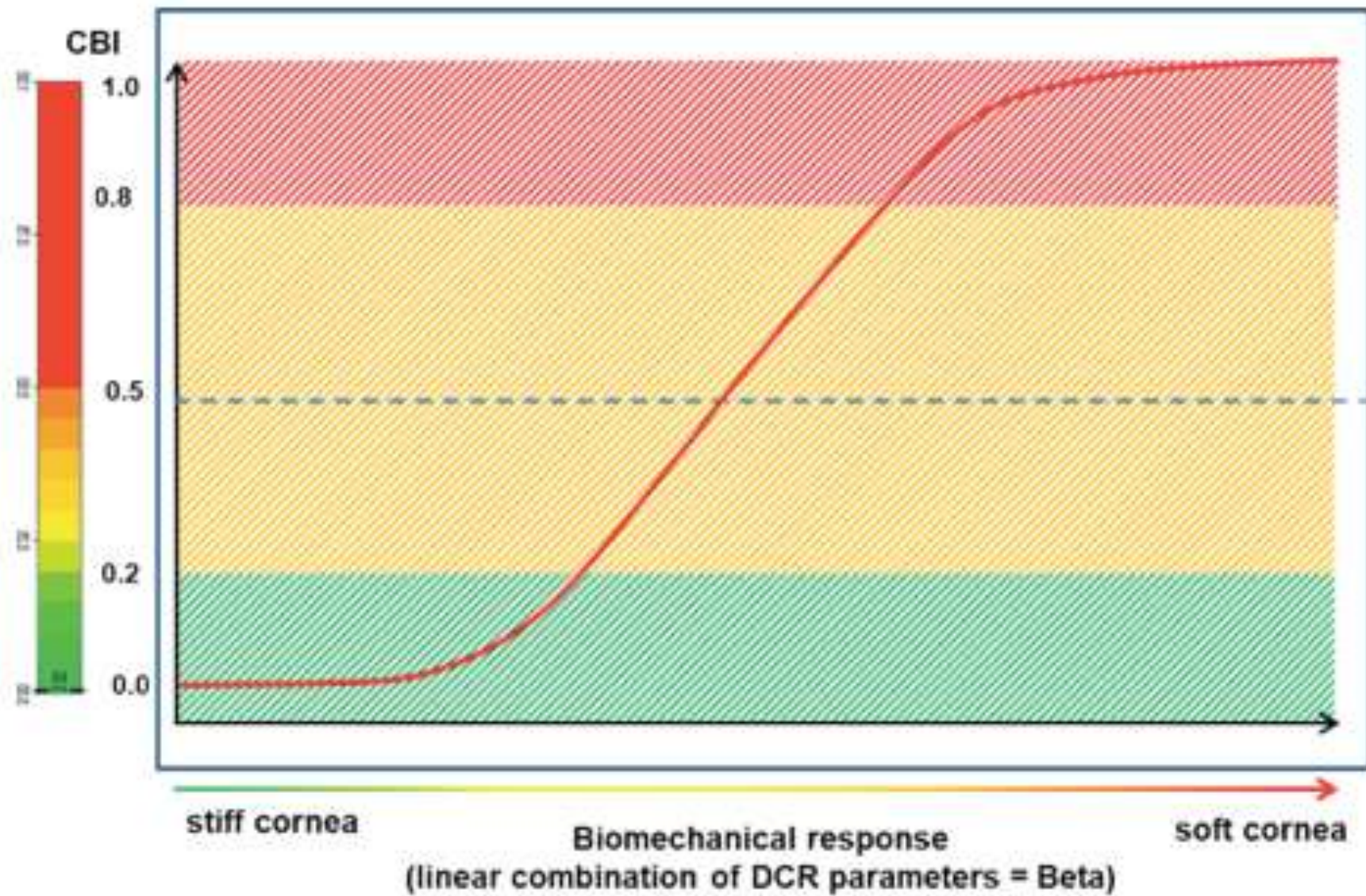


Stiffness
= $\frac{\text{Force}}{\text{Displacement}}$
= $\frac{\text{Adj Air Pulse} - \text{bIOP}}{\text{Defl Amplitude}}$



higher index value

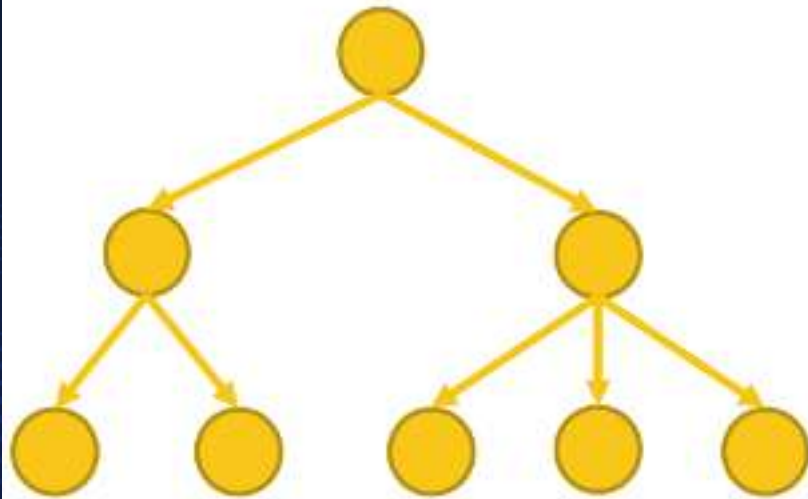




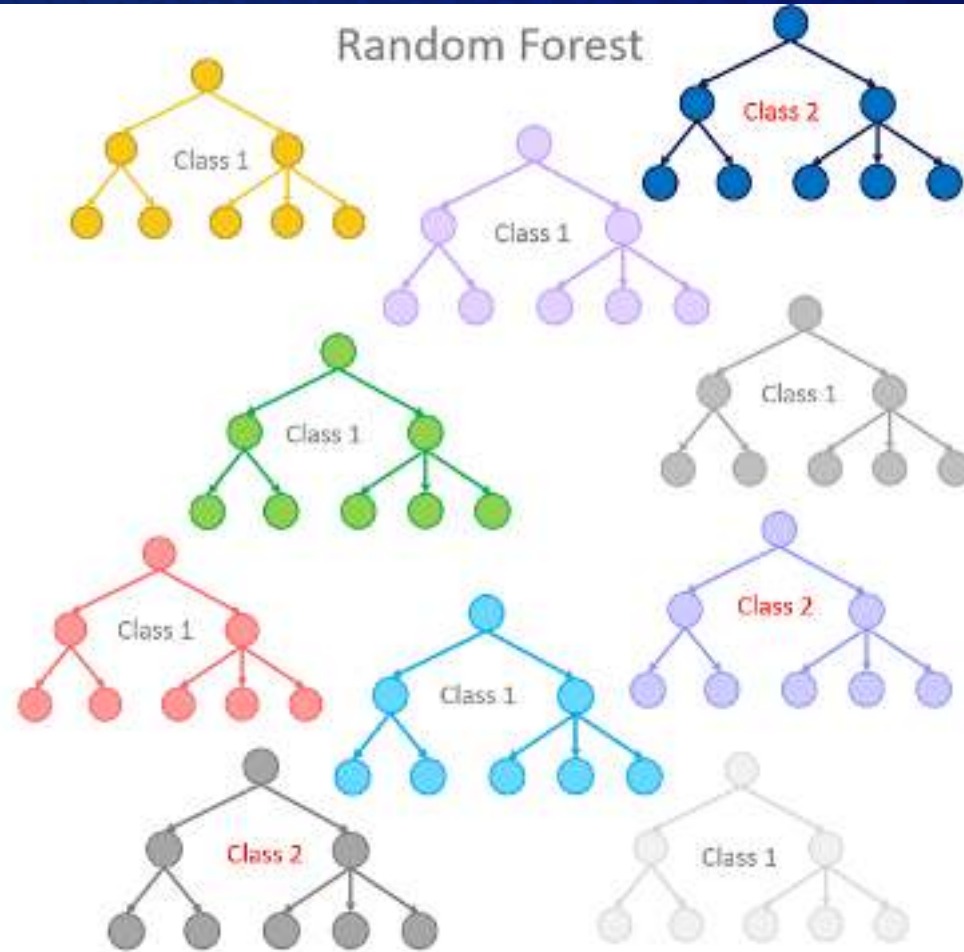
TBI

Tomographic Biomechanical Index

Single Decision Tree



Random Forest

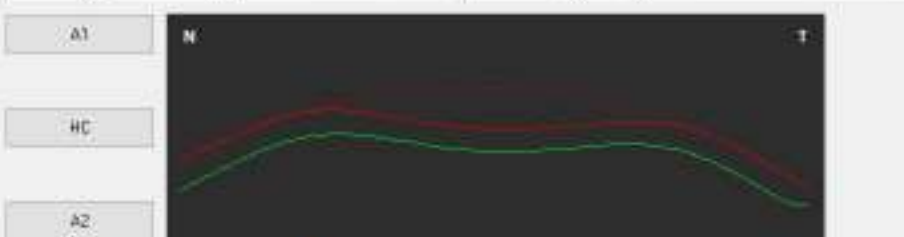
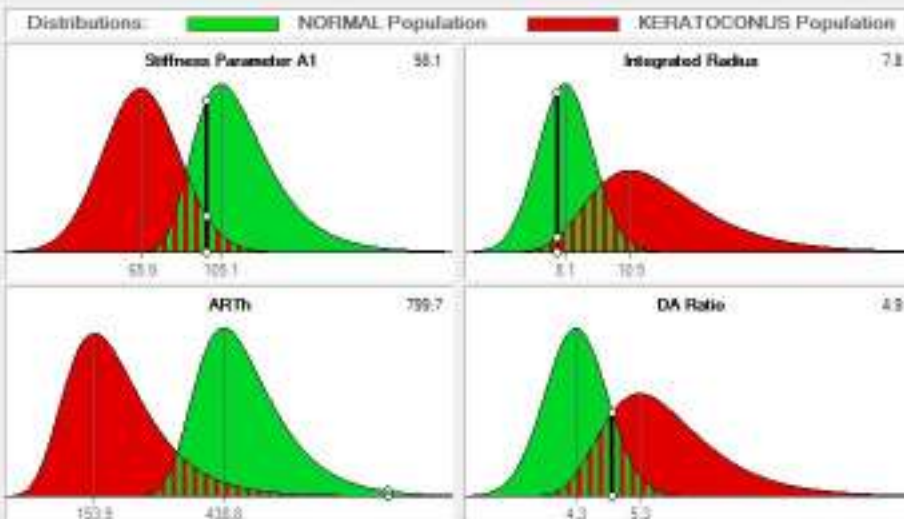


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

1.6.2021

Name: [REDACTED] ID: [REDACTED] Date of birth: 16.10.1962 Age: 38
 Exam. Date: 27.09.2021 Time: 11:47:25 Eye: Left (OS) Exam. Date: 27.09.2021 Time: 11:51:06 Eye: Left (OS)
 Info: QS: OK Info: QS: OK

Corvis ST - Biomechanical Assessment

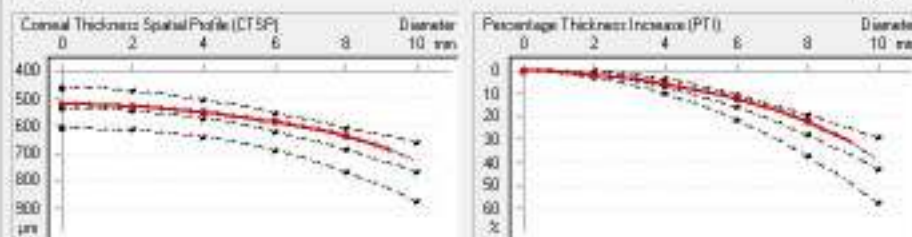
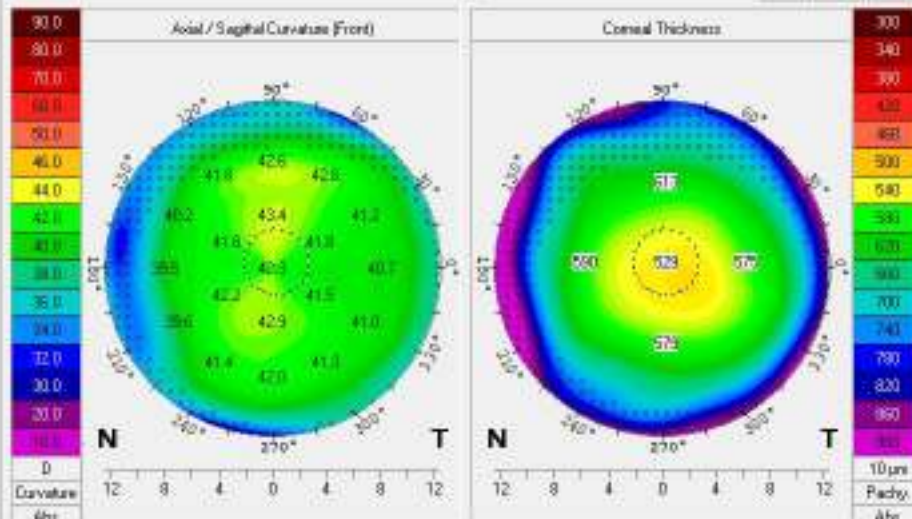


20.10 mm IOPmed: 14.5 mmHg bIOP: 14.4 mmHg

CBI ■ ■ 0.14
 @ untreated @ post LVC 0.25 0.50 0.75 1.00

TBI ■ ■ 0.02
 0.00 0.25 0.50 0.75 1.00

Pentacam - Tomographic Assessment



K Max: 43.6 D IS Value: -0.3 D PRFI: 0.04 TNC: [REDACTED]

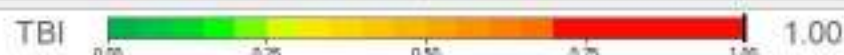
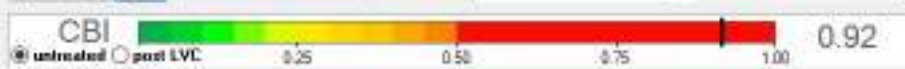
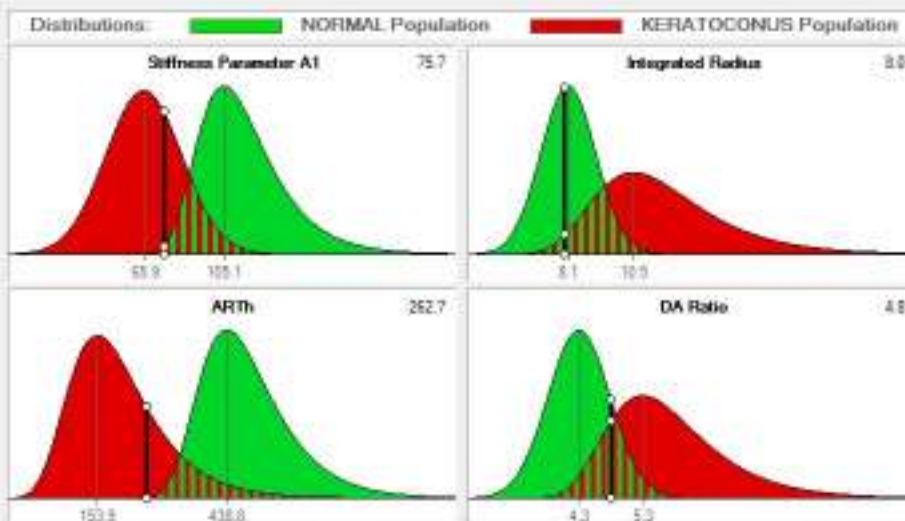
BAD D ■ ■ 0.50
 @ myopic @ hyperopic 1.5 3

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

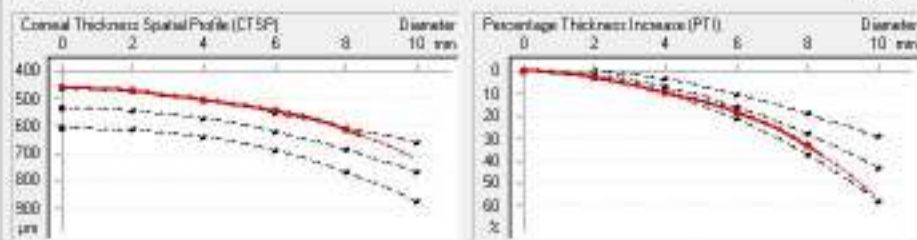
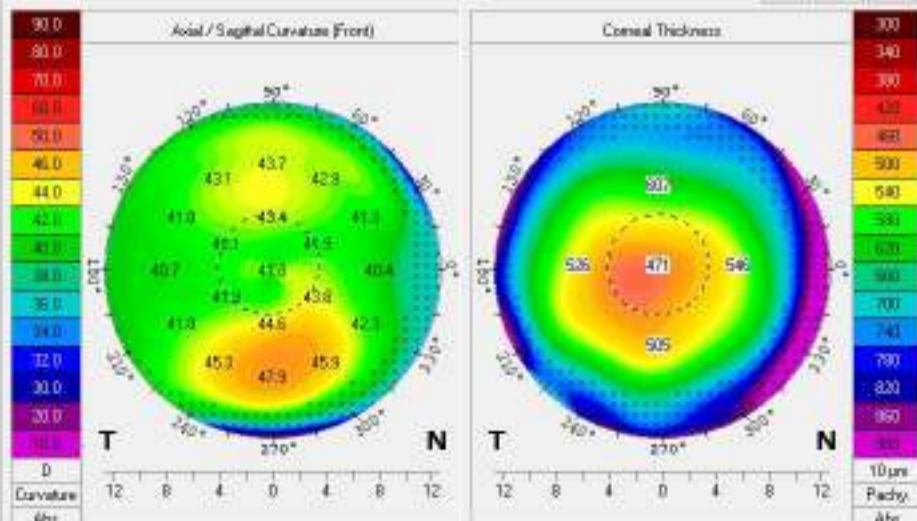
1.6.2021

Name: [REDACTED] ID: [REDACTED] Date of birth: 01.12.1998 Age: 22
 Exam. Date: 11.10.2021 Time: 13:05:57 Eye: Right (OD) Exam. Date: 11.10.2021 Time: 12:58:56 Eye: Right (OD)
 Info: QS: OK Info: QS: OK

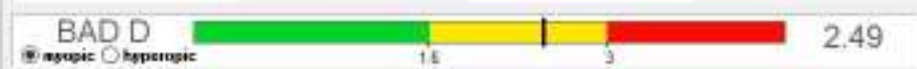
Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



K Max: 48.1 D IS Value: 1.5 D PRFI: 0.74 TNC:



KC  Ectasia Susceptibility

OCULUS - PENTACAM 4 Maps Selectable

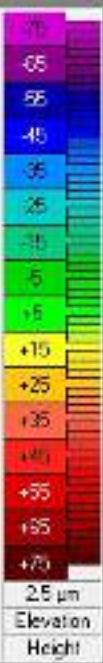
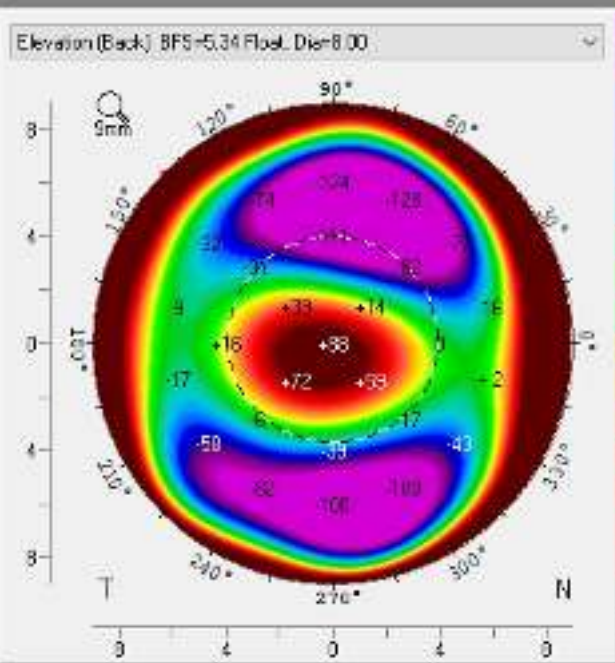
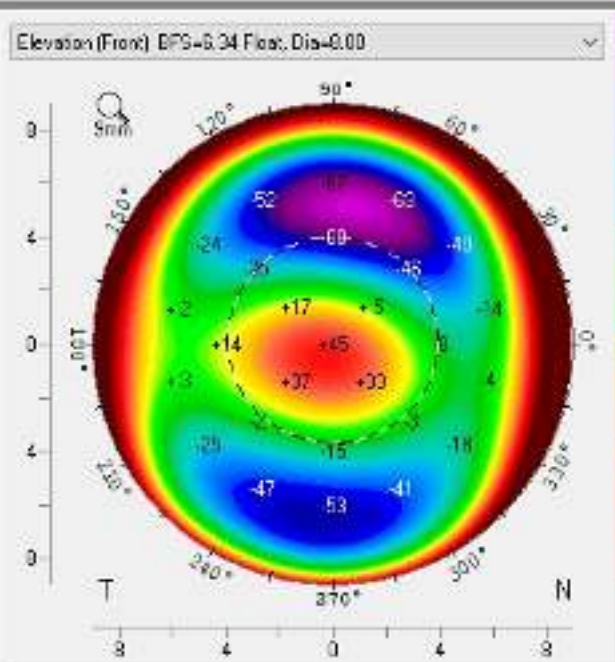
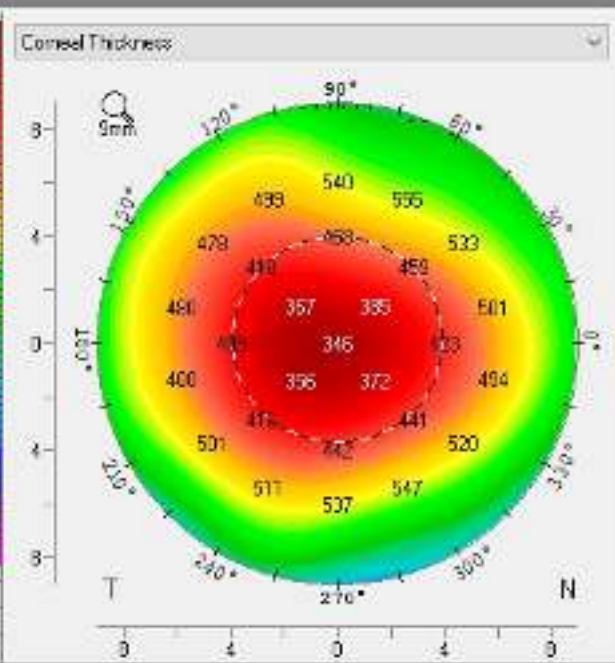
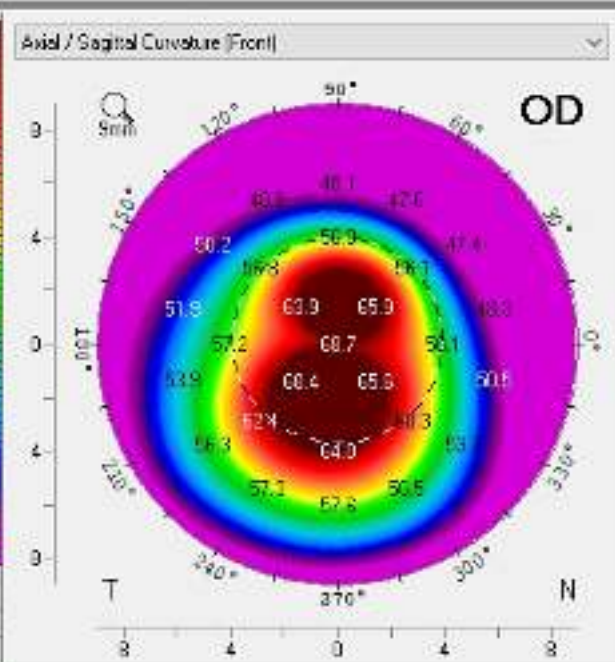
1.2309

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/05/1975 Eye: Right
 Exam Date: 08/27/2021 Time: 10:38:27
 Exam Info:



	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 347 µm	0.00	+0.07
Pachy Apex:	- 345 µm	0.00	0.00
Thinned Local:	○ 344 µm	-0.35	-0.20
K Max. (Front):	74.9 D	-0.07	-0.25

Cornea Volume:	52.5 mm ³	HxTW:	11.8 mm
Chamber Volume:	213 mm ³	Angle:	43.7°
A.C. Depth (Int.):	4.19 mm	Pupil Dia:	3.89 mm
Enter IOP: IDP(Sum):	-14.1 mmHg	Lens Th:	



Biomechanics Evaluation

- KC:
 - Diagnosis of KC.
 - Follow up of KC.
 - Assessment of Ectasia Management.
- Refractive Surgery:
 - Avoid Post LVC Ectasia.
 - Exclude Ectasia Susceptibility.
 - Diagnosis of Post LVC Ectasia.
- Other options.

Diagnosis of KC

OCULUS - PENTACAM 4 Maps Selectable

1.2209

Last Name:

First Name:

ID:

Date of Birth: 07/01/2011 Eye: Left

Exam Date: 07/12/2021 Time: 11:11:55

Exam Info:

Cornea Front

Rt: 7.43 mm K1: 45.5 D

Rc: 6.63 mm K2: 50.4 D

Rmc: 7.05 mm Kmc: 47.9 D

DS: OK Axis (deg): 11.5° Astig: 4.8 D

D-rel: -0.33 Rcor: 7.35 mm Rmin: 6.62 mm

Cornea Back

Rt: 6.13 mm K1: -6.5 D

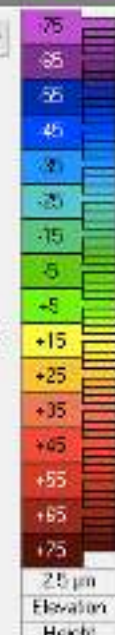
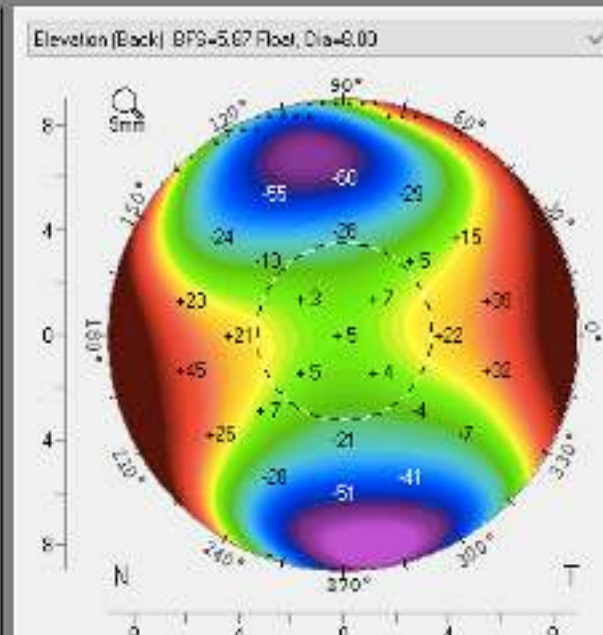
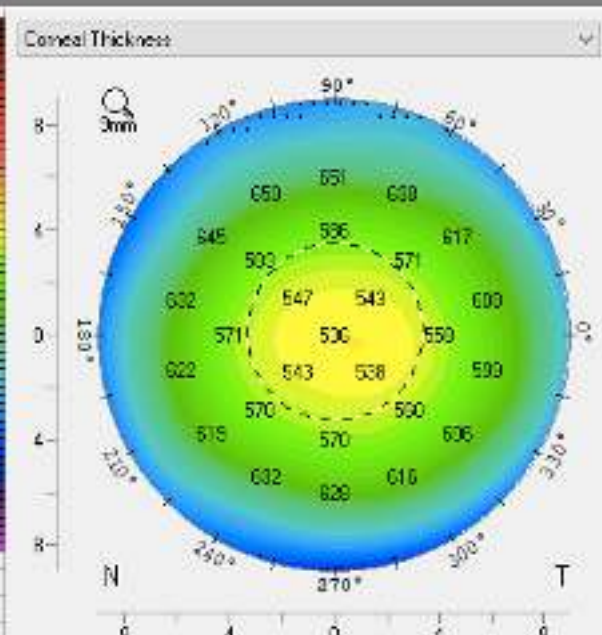
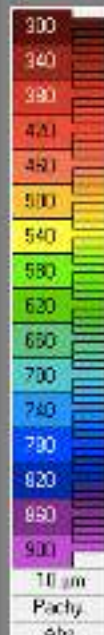
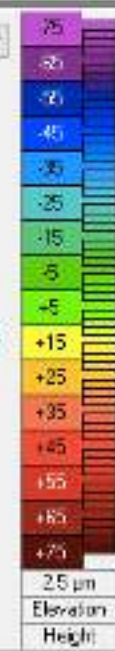
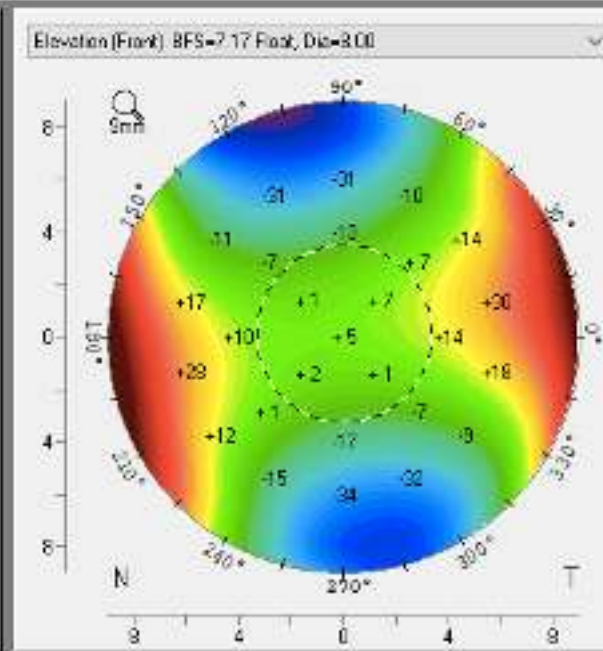
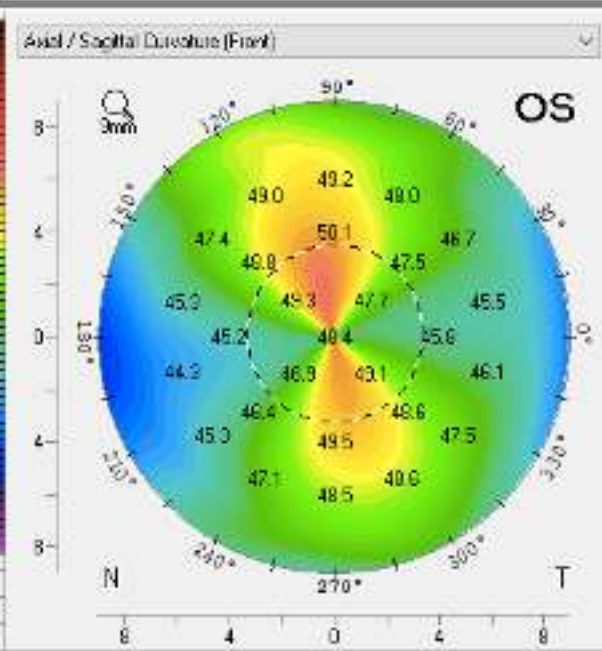
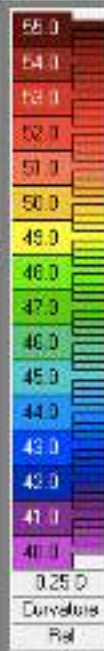
Rc: 5.42 mm K2: -7.4 D

Rmc: 5.83 mm Kmc: 6.9 D

DS: OK Axis (deg): 7.5° Astig: 0.9 D

D-rel: -0.16 Rcor: 6.13 mm Rmin: 5.29 mm

	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 536 μm	+0.02	+0.06
Pachy Apex:	536 μm	0.00	0.00
Thinnest Local:	○ 535 μm	+0.42	-0.18
K Index (Front):	51.0 D	+0.12	+0.72
Cornea Volume:	62.9 mm³	HW/TW:	11.2 mm
Chamber Volume:	170 mm³	Angle:	62.0°
A.C. Depth (int.):	3.23 mm	Pupil Dia:	3.96 mm
Enter IOP: IOP(Sum):	-0.9 mmHg	Lens Th:	



10
Years
Old F
referred
for CXL

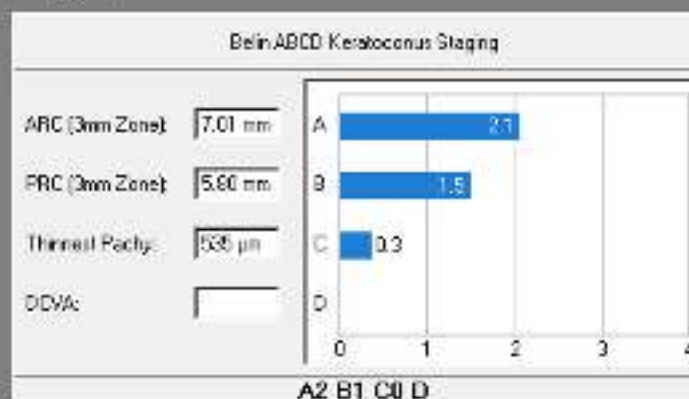
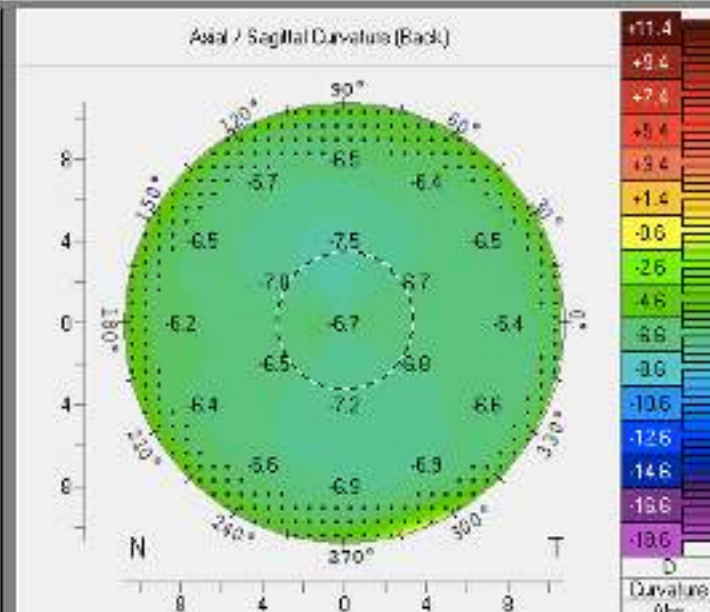
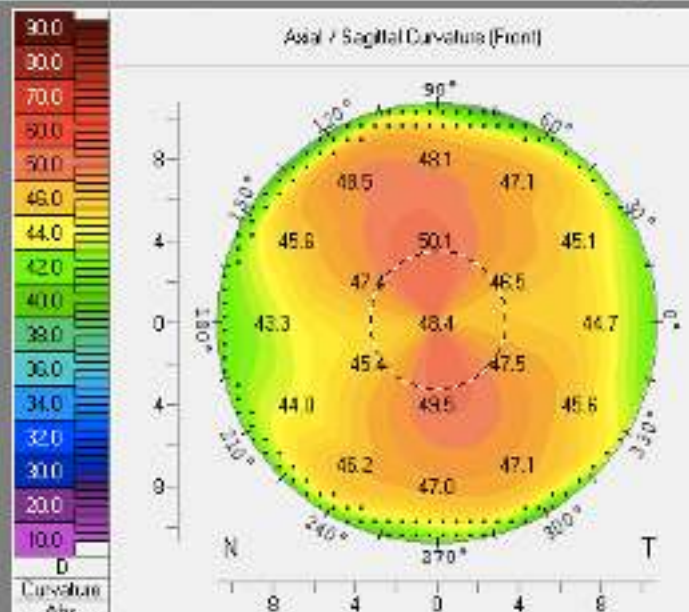
OCULUS - PENTACAM Topometric/KC-Staging

1/20/08

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 01/01/2011 Eye: Left
 Exam Date: 07/12/2021 Time: 11:11:55
 Exam Info:



Pupil Center:	+ 536 µm	x(mm)	-0.02	y(mm)	-0.06
Pachy Apex:	536 µm	x(mm)	0.00	y(mm)	0.00
Thinnest Locat.:	○ 535 µm	x(mm)	-0.42	y(mm)	-0.10
K Max (Front):	51.0 D	x(mm)	0.12	y(mm)	-0.72
Cornea Volume:	52.6 mm³	Hx/Vx	11.2 mm		
Chamber Volume:	170 mm³	Angle:	42.0°		
A.C. Depth (Int.)	3.20 mm	Pupil Dia:	2.35 mm		
IOP(Sun):	+0.6 mmHg	Lens Th:			

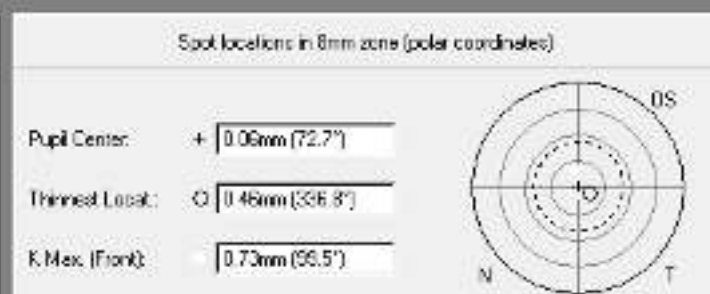
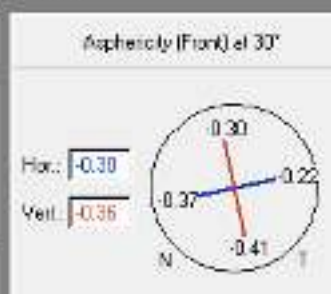


Asphericity (Front) of Major Meridians

Q-val	Degrees peripheral					Front:
	20°	25°	30°	35°	40°	
Nat	-0.35	-0.35	-0.37	-0.37	-0.32	⊙ Asphericity
Temp	-0.14	-0.15	-0.22	-0.30	-0.30	○ Asial/Sag. Curval
Inf	-0.40	-0.40	-0.41	-0.45	-0.43	Back:
Sup	-0.37	-0.34	-0.30	-0.34	-0.42	○ Asphericity
Mean	-0.32	-0.31	-0.33	-0.37	-0.38	○ Asial/Sag. Curval

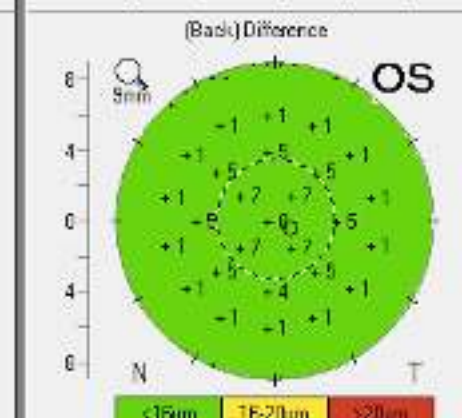
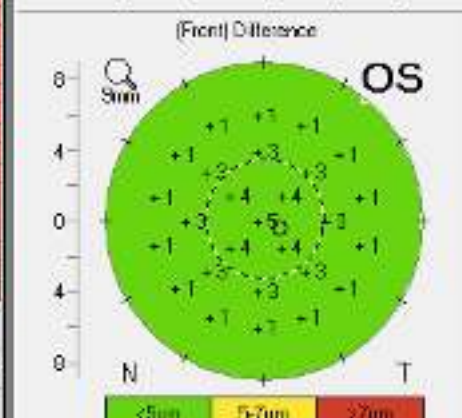
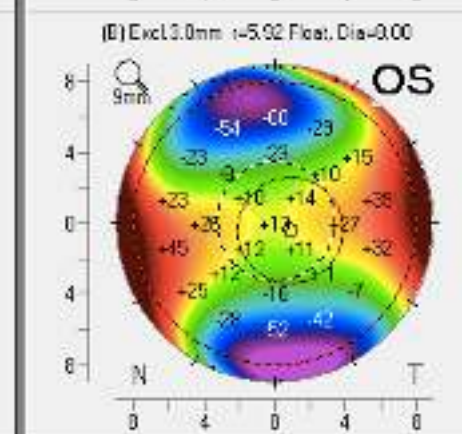
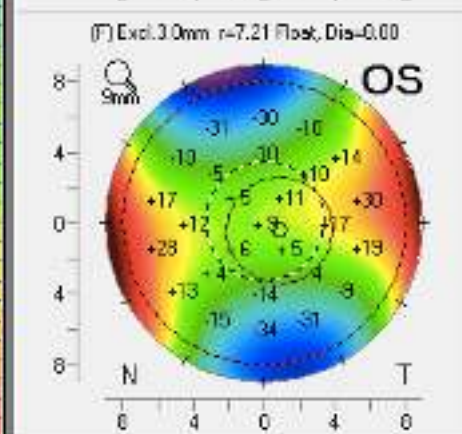
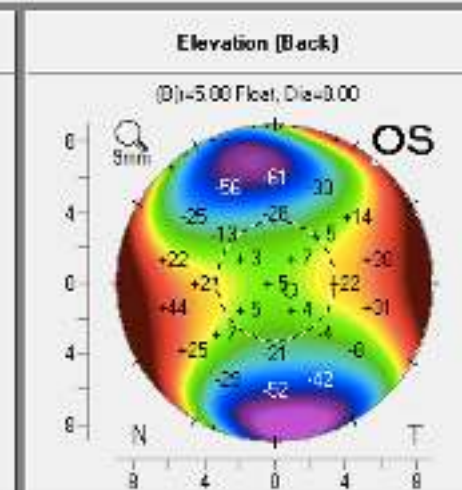
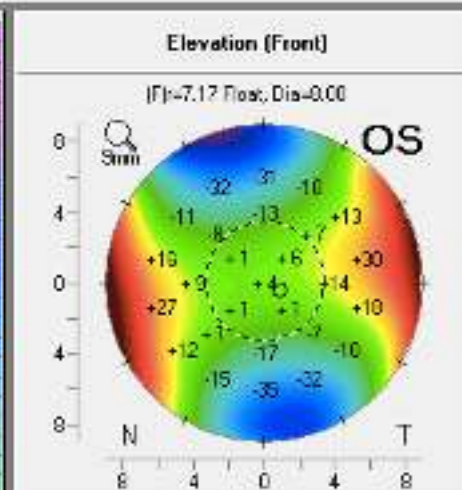
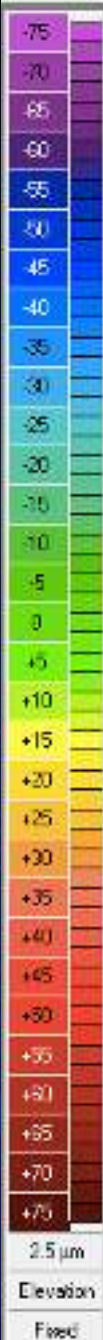
Indices (in 8mm zone)

ISV:	36	IHA:	4.9
MA:	0.12	IHD:	0.015
K1:	1.00	RMin:	6.62
CK:	1.01	TKC:	Abnorm.
KISA:	5.721	IS:	-0.64



OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.22.09



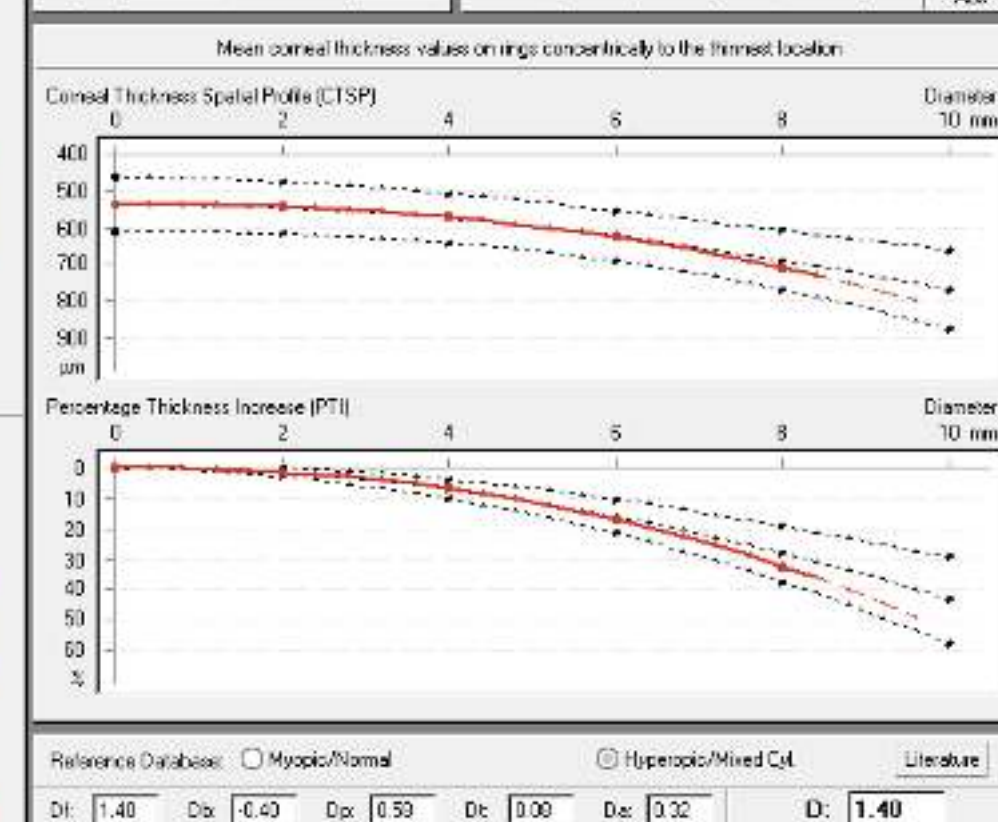
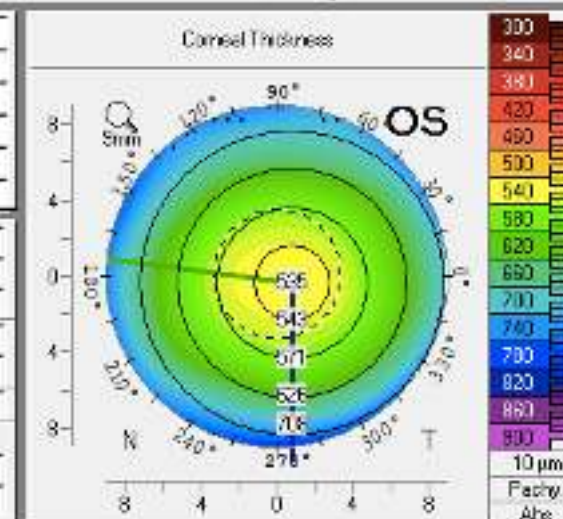
Last Name: [Redacted]
 First Name: [Redacted]
 ID: [Redacted]
 Date of Birth: 01/01/2011 Eye: Left
 Exam Date: 07/12/2021 Time: 11:11:56
 Exam Info: [Redacted]

K1: 45.6D Axis: 11.5°
 K2: 50.4D D-val: -0.33
 KMax: 51.0D OS: OK

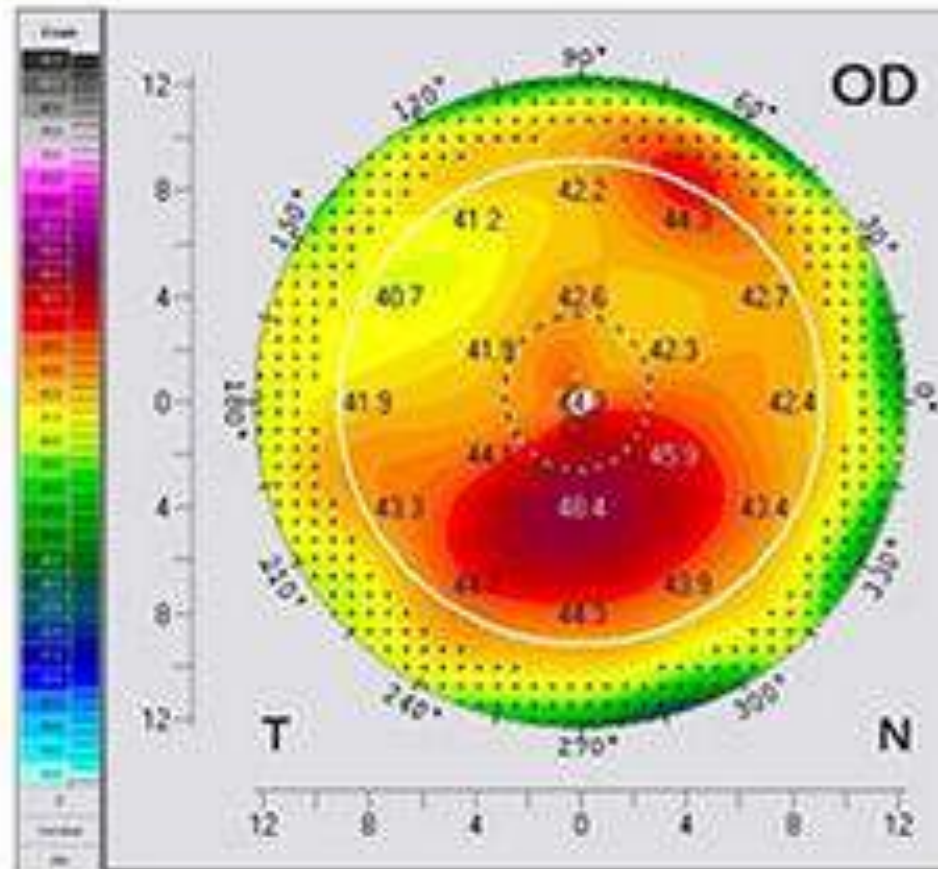
Pachy Thin Local: 535µm
 Dist. Apex Thin Loc: IT 0.45mm

F.Ele.Th: 5µm B.Ele.Th: 6µm

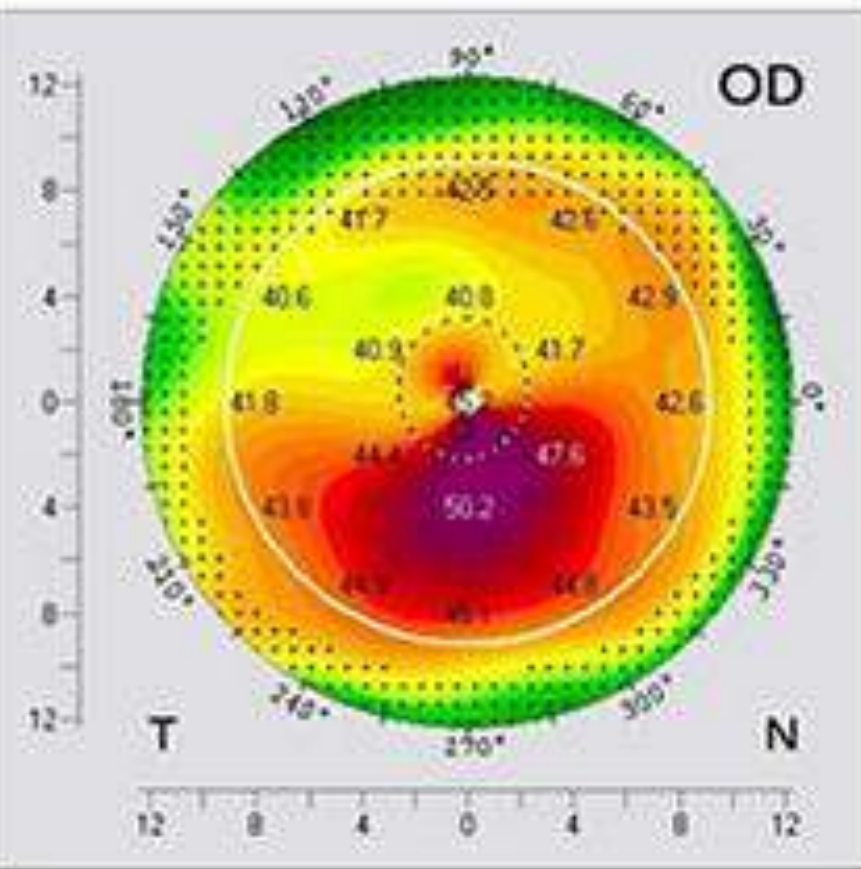
Progression Index
 Min: 0.60 Max: 1.18
 Avg: 0.99 ARTmax: 453



May 2009



August 2009

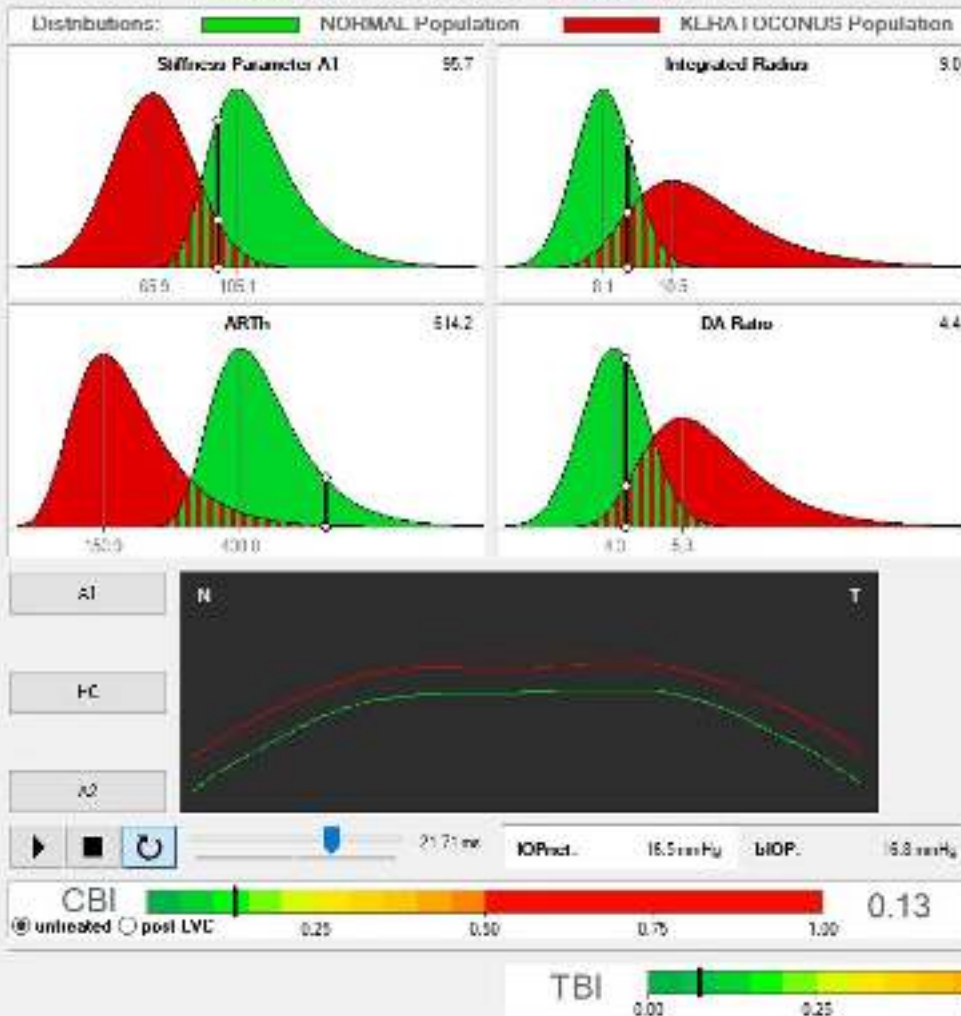


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

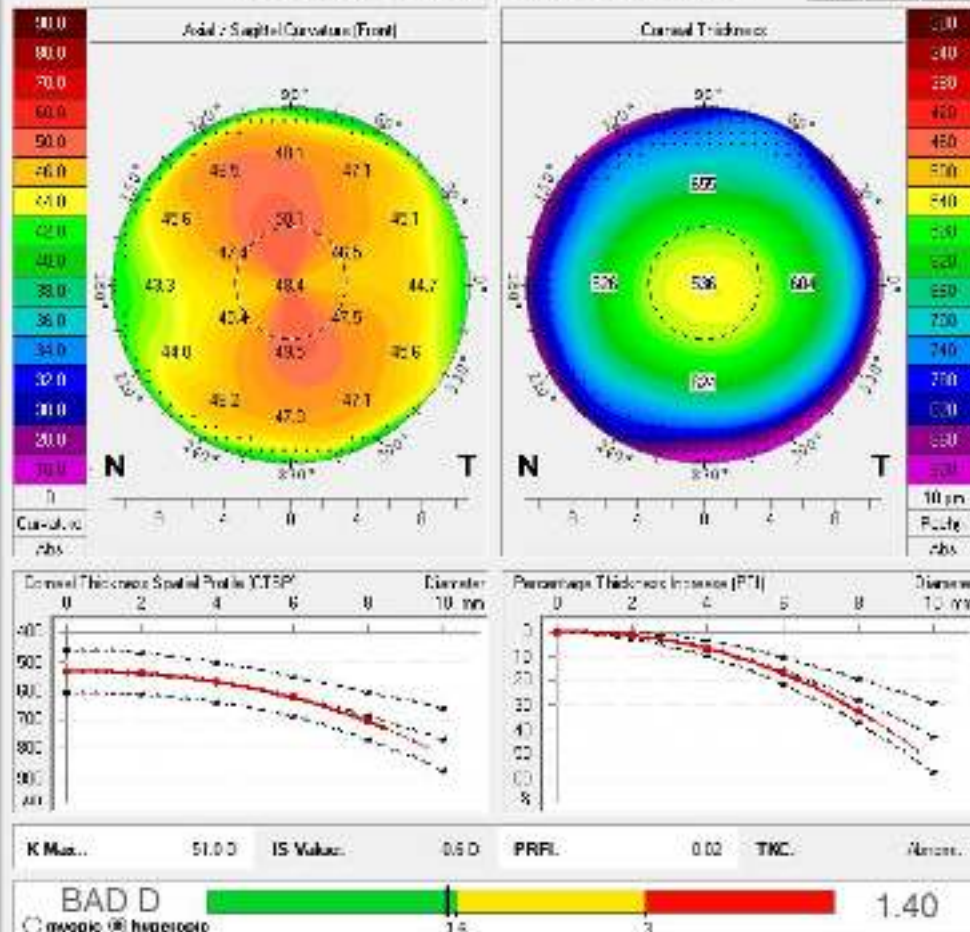
1.562091

Name: [REDACTED] ID: [REDACTED] Date of birth: 01.01.2011 Age: 10
 Exam. Date: [REDACTED] Time: 11:14:57 Eye: Left (OS) Exam. Date: 12.07.2021 Time: 11:11:55 Eye: Left (OS)
 Info: [REDACTED] OS: OK Info: [REDACTED] OS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment

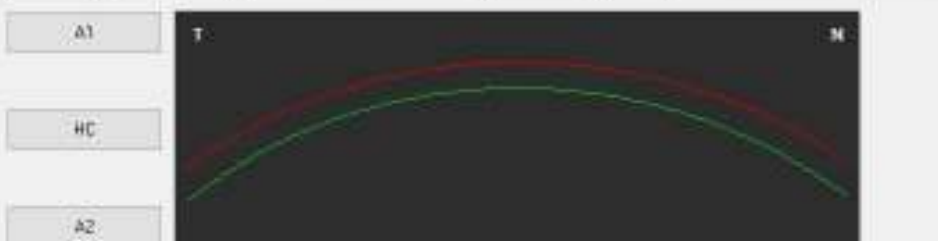
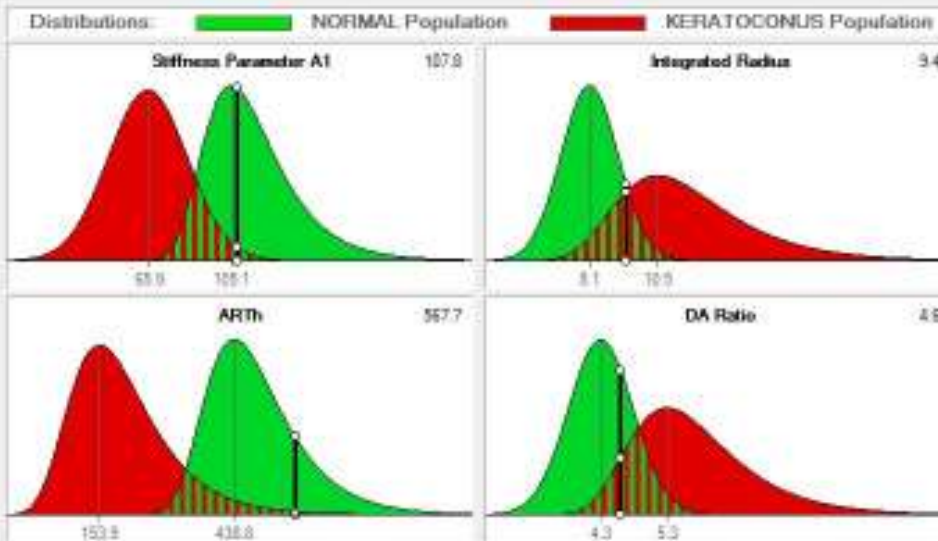


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

16/2021

Name: [REDACTED] ID: [REDACTED] Date of birth: 01.01.2011 Age: 10
 Exam. Date: [REDACTED] Time: 11:14:17 Eye: Right (OD) Exam. Date: 12.07.2021 Time: 11:10:55 Eye: Right (OD)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

Corvis ST - Biomechanical Assessment

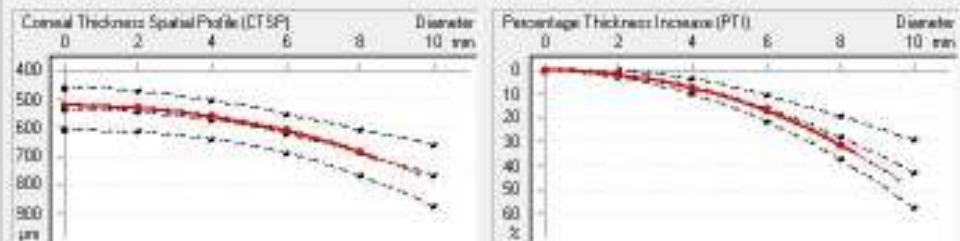
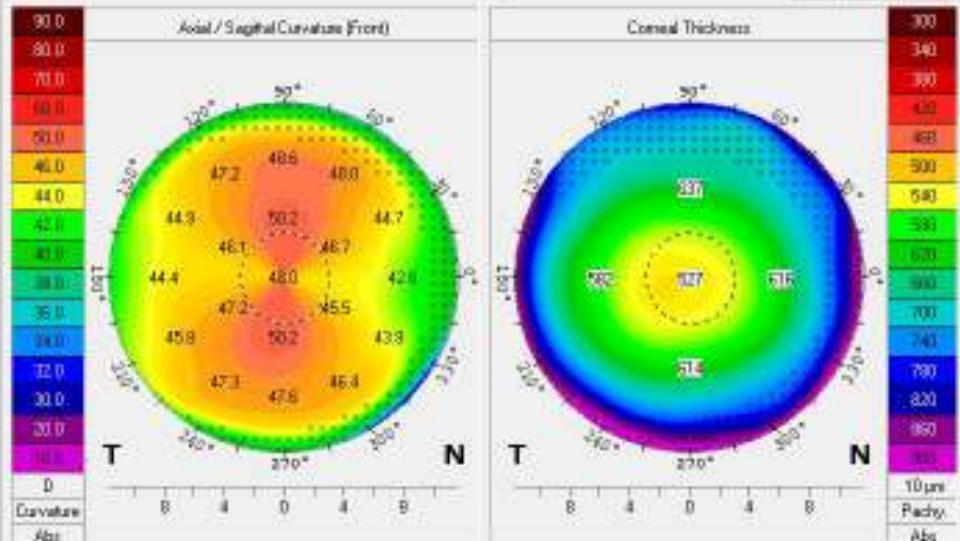


5.01 ms IOP_{Fact}: 16.0 mmHg bIOP: 16.4 mmHg

CBI ■ ■ ■ 0.20
 @ untreated @ post LVC

TBI ■ ■ ■ 0.13

Pentacam - Tomographic Assessment



K_{Max}: 51.10 IS Value: -0.10 PRFI: 0.07 TNC: Abnorm

BAD D ■ ■ ■ 2.23
 @ myopic @ hyperopic

Follow Up of KC

Without treatment

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

16/2503

Name:
 Exam. Date:
 Info:

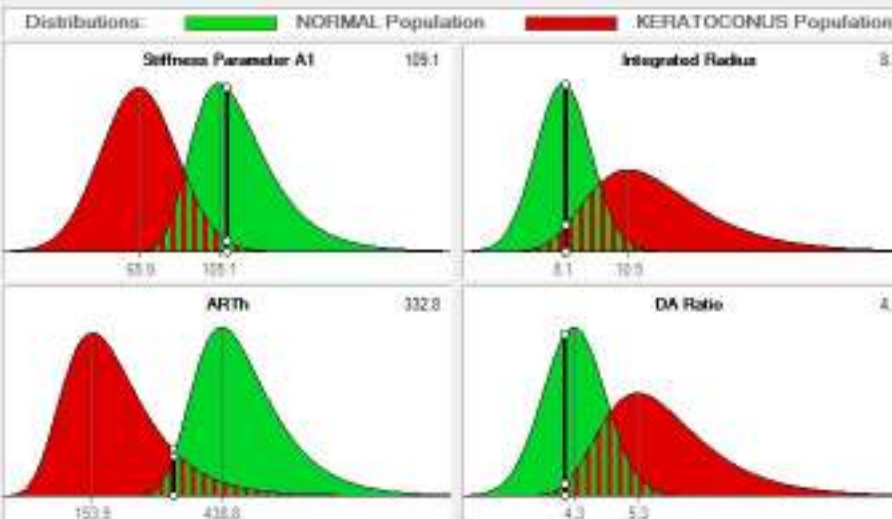
ID:
 Eye: Right (OD)
 OS: OK

Exam. Date: 16.05.2022
 Info:

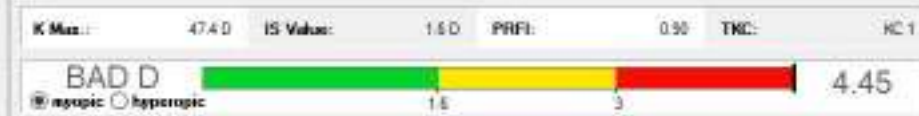
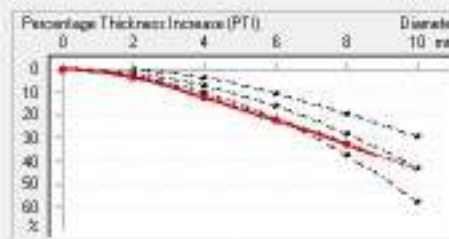
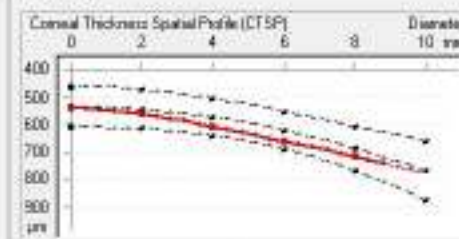
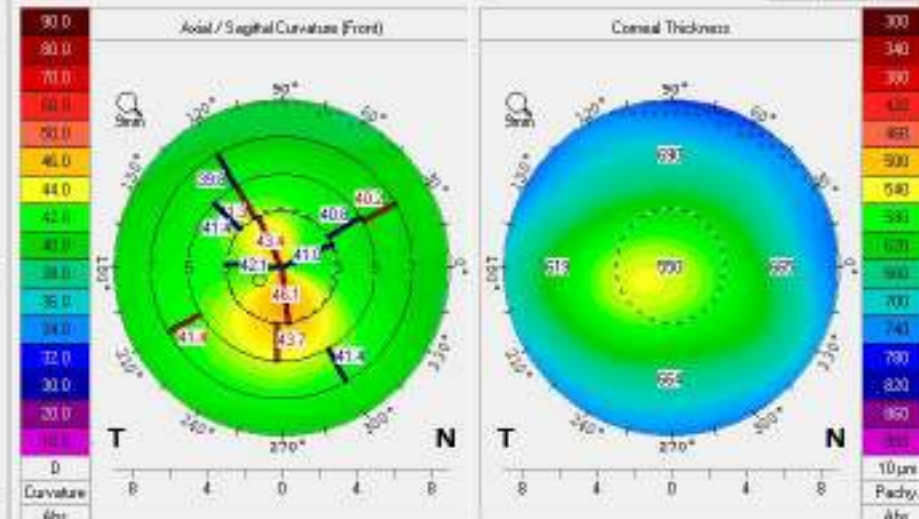
Date of birth: 06.05.2003
 Time: 13:14:49

Age: 19
 Eye: Right (OD)
 OS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



Oculus Optikgeräte GmbH
 Münchholzhauser Str. 29

35582 Wetzlar

Tel: (0641) 20 05-0
 Fax: (0641) 20 05-255

www.oculus.de



RIO 2025

Orvis® ST - Homburg Biomechanical E-Staging (BEST)

1.62503

ID:

Date of birth: 05.05.2003

Age: 19

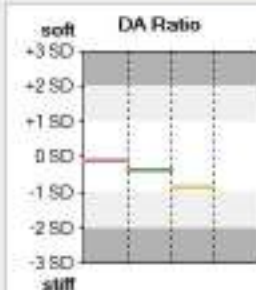
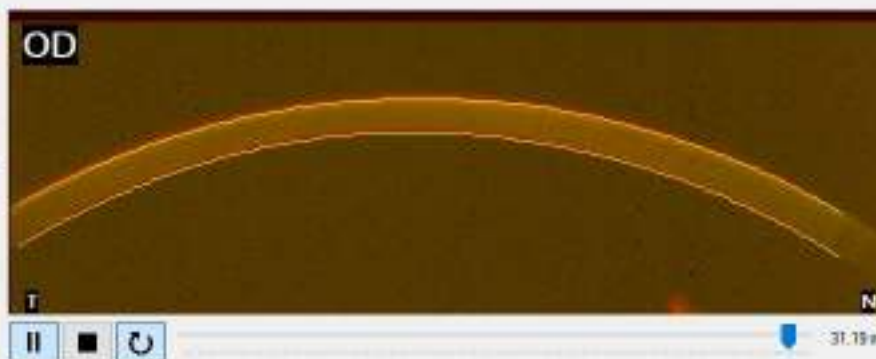
Eye: Right (OD)

Select 4
exams
Right
Eye

Select 4
exams
Left
Eye

Exam: Right (OD) 05

10.01.2023 OK
12.06.22 OK
16.05.2023 OK
13.17.30 OK
06.02.2023 OK
14.08.25

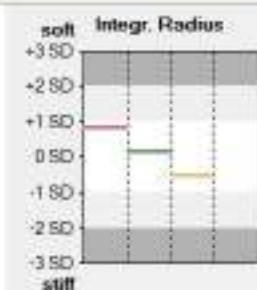


Value: 4.2 4.1 3.9
SD: -0.1 -0.4 -0.9

Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. SD: -0.3 -0.7
Stiffer: ☒ ☒
not sign: ☒ ☒
softer: ☐ ☐

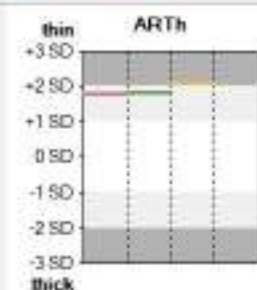


Value: 9.0 8.2 7.5
SD: 0.9 0.2 -0.5

Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. SD: -0.7 -1.4
Stiffer: ☒ ☒
not sign: ☒ ☒
softer: ☐ ☐

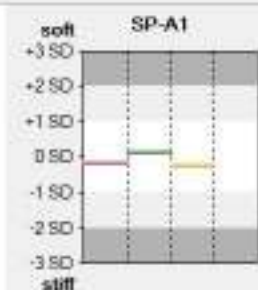


Value: 342 333 302
SD: 1.8 1.8 2.1

Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. SD: 0.1 0.3
Thicker: ☒ ☒
not sign: ☒ ☒
thinner: ☐ ☒

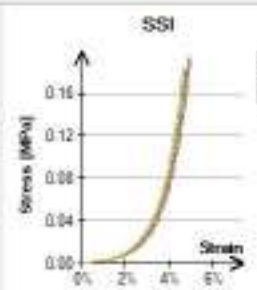


Value: 115 109 117
SD: -0.2 0.1 -0.2

Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. SD: 0.3 -0.1
Stiffer: ☒ ☒
not sign: ☒ ☒
softer: ☐ ☐



Value: 0.9 1.0 1.2
SD: 0.4 -0.1 -0.7

Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. SD: -0.6 -1.2
Stiffer: ☒ ☒
not sign: ☒ ☒
softer: ☐ ☐



Baseline @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time: 0.3y 1.1y
Diff. Stage: -0.1 -0.2
No Prog: ☒ ☒
Progress: ☐ ☐

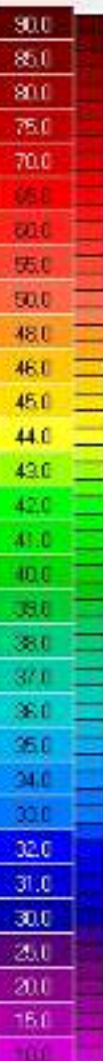
Post CXL

OCULUS - PENTACAM Compare 4 Exams

1.29.11

Name:

Exam



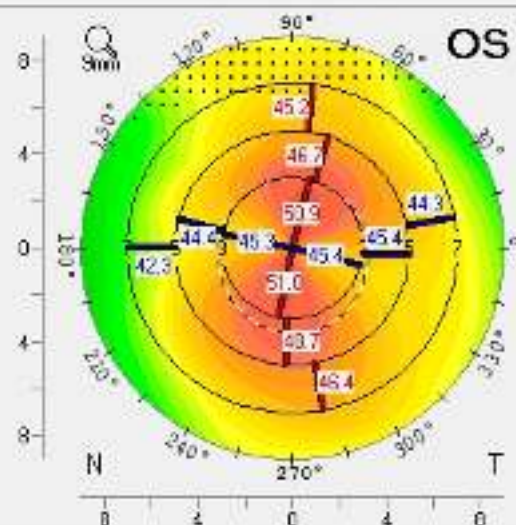
D

Curvature

Abs.

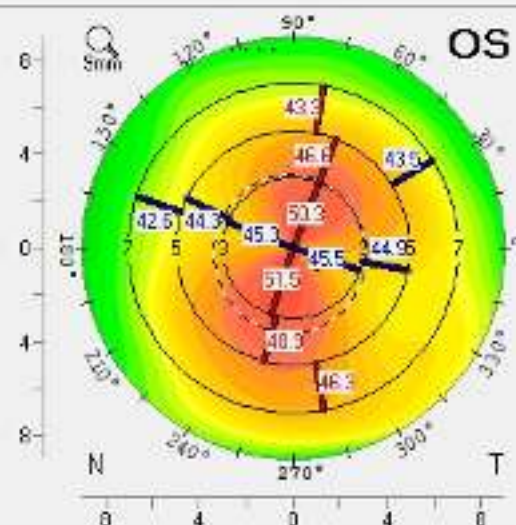
A: 01/15/2024 12:24:01 Left (25) 3D-Scan HR

Axial / Sagittal Curvature (Front)



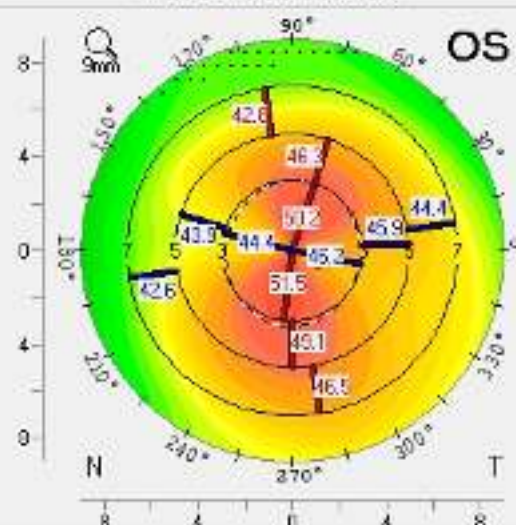
B: 02/04/2023 13:23:52 Left (25) 3D-Scan HR

Axial / Sagittal Curvature (Front)



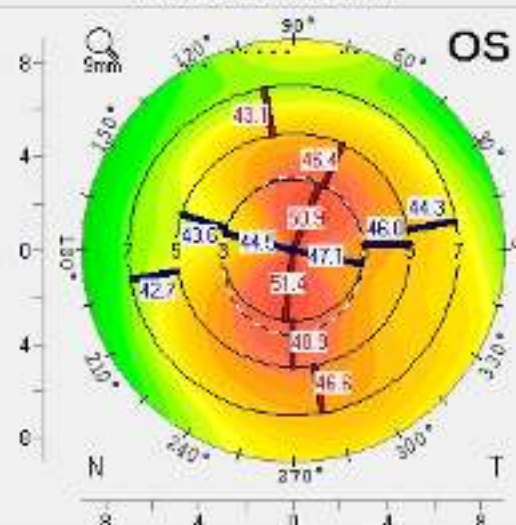
C: 05/15/2023 12:49:50 Left (25) 3D-Scan HR

Axial / Sagittal Curvature (Front)



D: 03/20/2023 15:37:44 Left (25) 3D-Scan HR

Axial / Sagittal Curvature (Front)



Exam

A

B

C

D

Exam

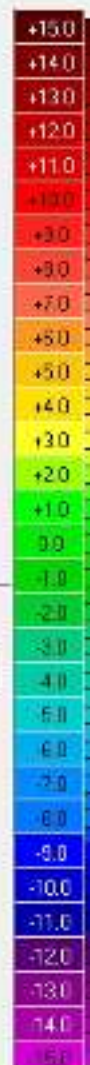
A

B

C

D

minus



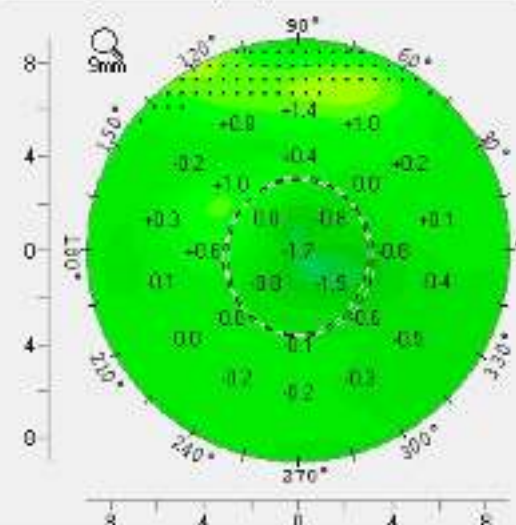
0.50 D

Curvature

Rel.

Difference A - D

Axial / Sagittal Curvature (Front)



2025

1.29:11

Height

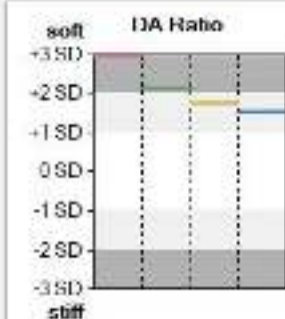
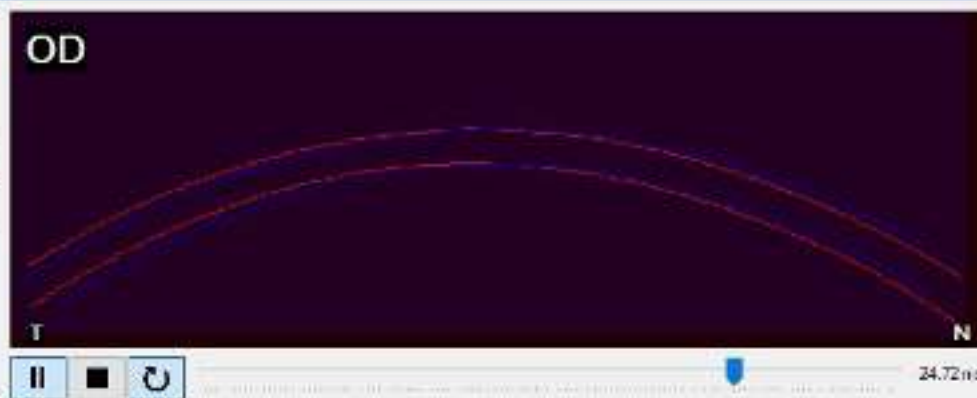
Height

Height

Name

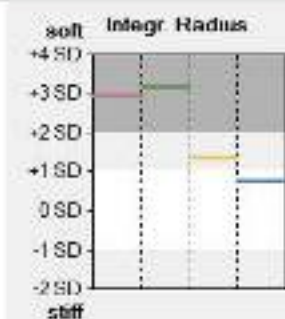
Select 4 exams:
Right Eye
Left Eye

Exam Right (OD OS)

20.03.2024 OK
15.40.07
15.05.2023 OK
12.01.45
04.12.2023 OK
13.08.17
15.01.2024 OK
14.25.30

Value: 5.5 5.2 5.0 4.9
SD: 3.0 2.1 1.8 1.5

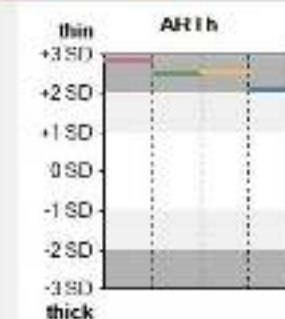
Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: -0.3 -1.2 -1.4
Stiffer not sign. softer

Value: 11.3 11.6 9.5 8.9
SD: 2.9 3.1 1.3 0.8

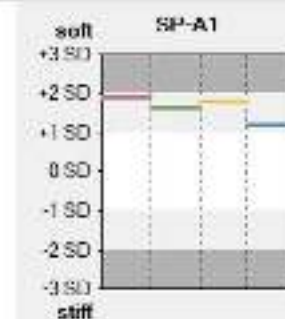
Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: 0.2 -1.5 -2.2
Stiffer not sign. softer

Value: 208 252 244 303
SD: 2.8 2.5 2.6 2.1

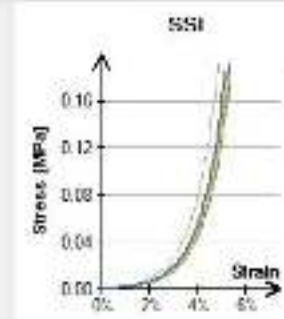
Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: -0.3 -0.3 -0.0
Thicker not sign. thinner

Value: .75 .81 .70 .90
SD: 1.9 1.7 1.0 1.2

Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: -0.3 -0.1 -0.7
Stiffer not sign. softer

Value: 0.6 0.6 0.6 0.7
SD: 1.9 1.9 1.7 1.4

Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: 0.0 -0.1 -0.5
Stiffer not sign. softer

CBiF: 5.1 5.4 5.6 5.7
E-Stage: 2.4 1.8 1.6 1.4

Baseline @

Changes from baseline exam:

Diff. line: 0.2y 0.8y 0.8y
Diff. SD: 0.6 0.3 1.0
No Prog. Progress

Referenz Ethnicity Global database

Post ICRS

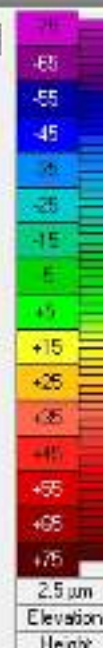
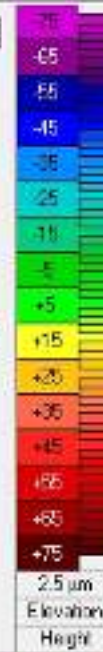
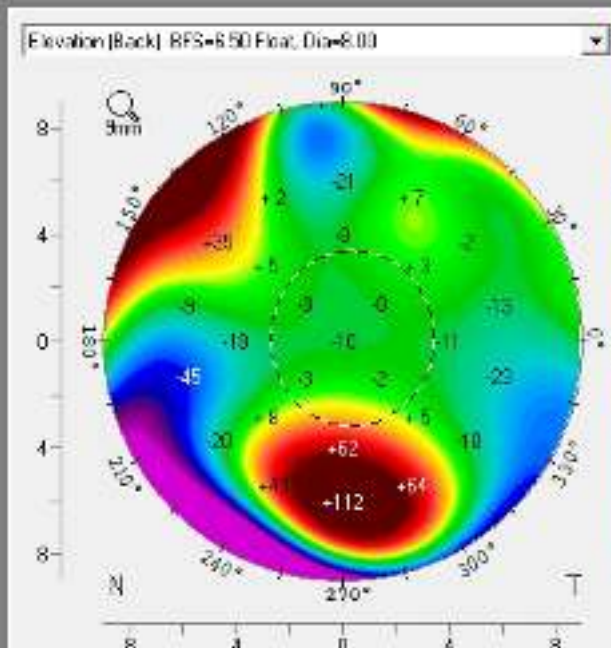
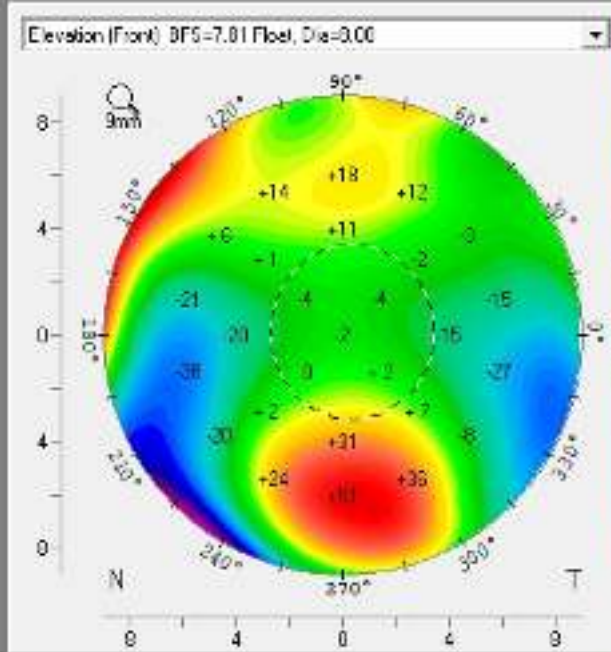
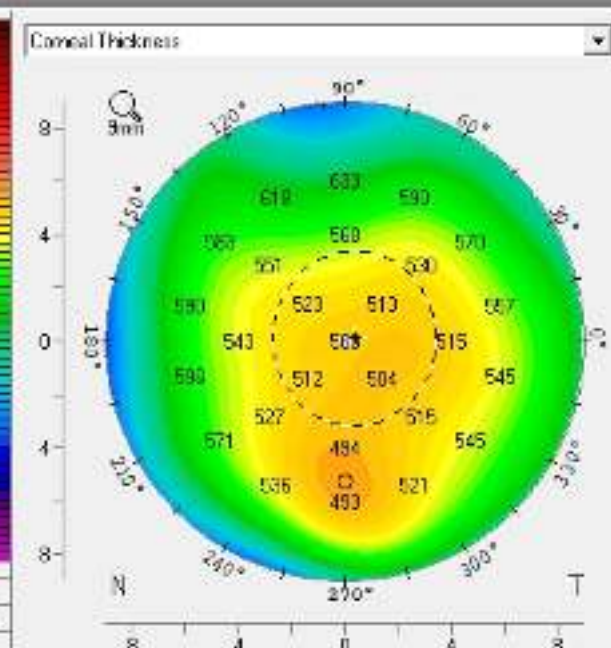
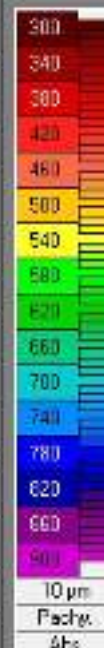
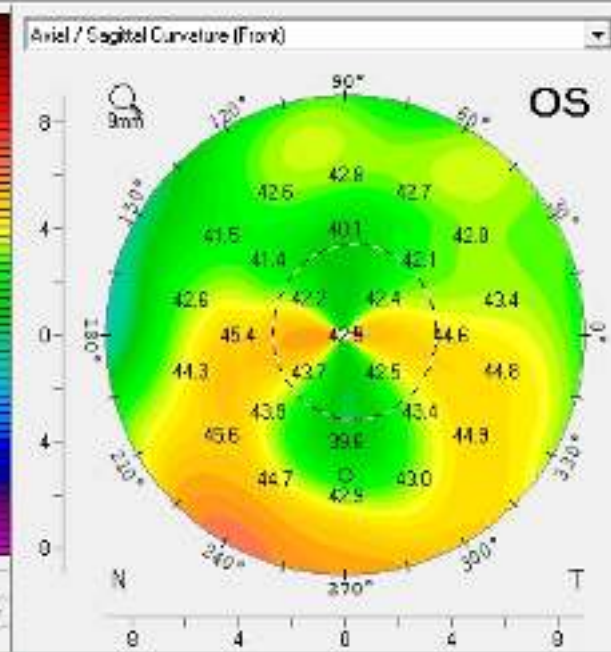
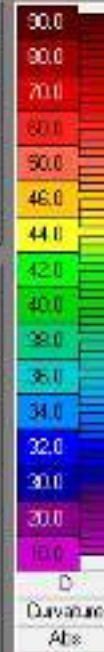
OCULUS - PENTACAM 4 Maps Selectable

1.2515

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 02/01/1988 Eye: Left
 Exam Date: 04/04/2017 Time: 10:08:30
 Exam Info: XXXXXXXXXX



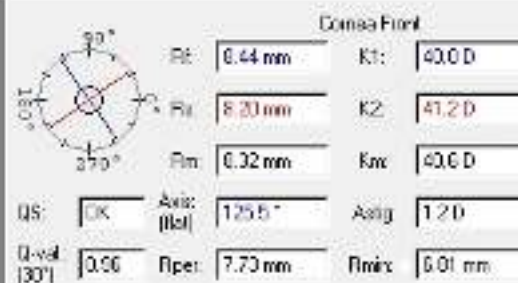
Pupil Center: + 307 µm x(mm): -0.13 y(mm): -0.05
 Pachy Vertex N: 306 µm 0.00 0.00
 Thinnest Loc: 486 µm 0.00 -2.61
 K Max. (Front): 49.2 D -2.10 -3.55
 Cornea Volume: 57.0 mm³ KPD: -0.9 D
 Chamber Volume: 146 mm³ Angle: 38.2°
 A. C. Depth (Int.): 2.52 mm Pupil Dia: 3.17 mm
 Enter IOP (ICP(Sun)): 42.6 mmHg Lens Th: XXXXXXXXXX



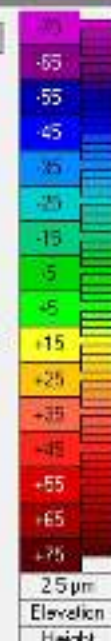
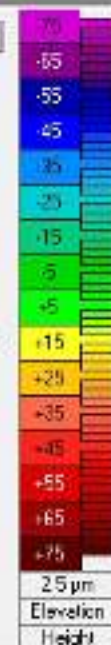
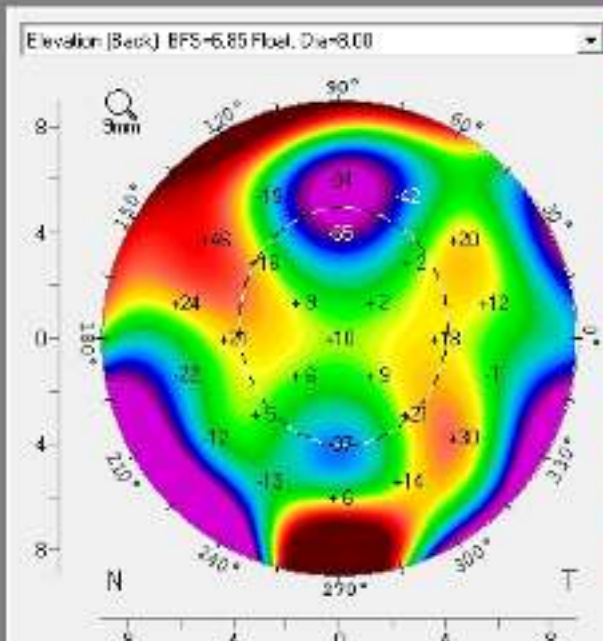
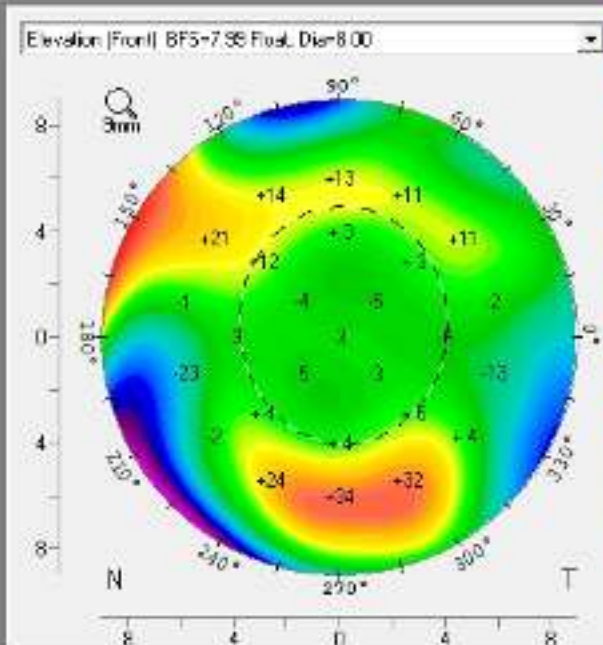
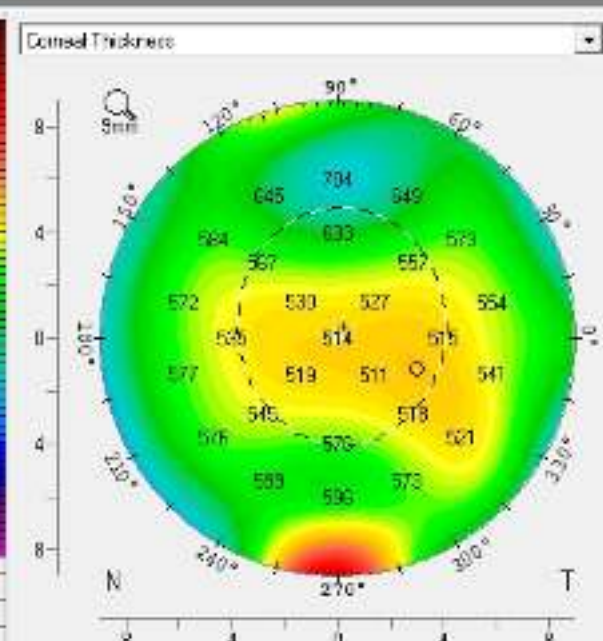
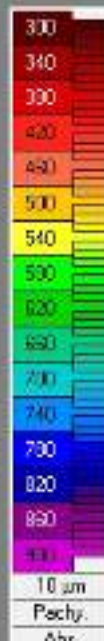
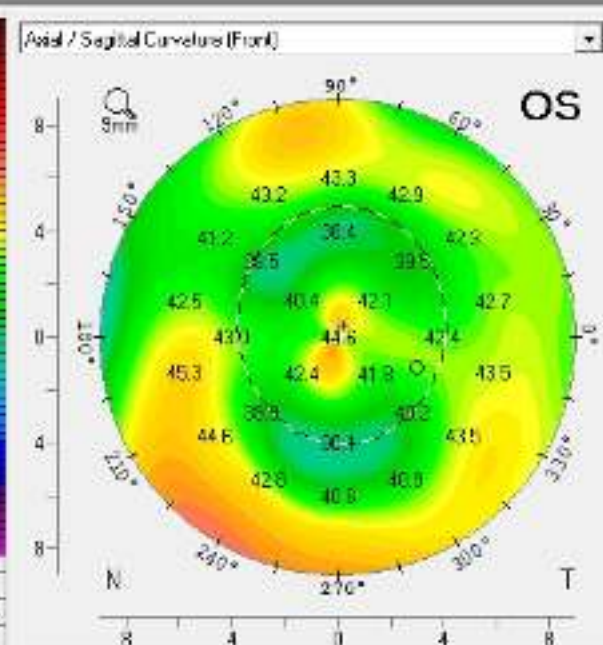
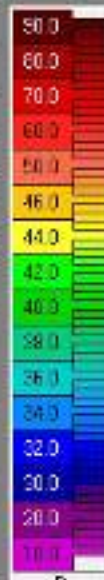
OCULUS - PENTACAM 4 Maps Selectable

1.2515

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 02/01/1968 Eye: Left
 Exam Date: 04/08/2017 Time: 20:00:40
 Exam Info:



Cornea Volume: 55.7 mm³ KPO: -1.2 D
 Chamber Volume: 160 mm³ Angle: 40.1°
 A. C. Depth (In.): 3.01 mm Pupil Dia: 4.20 mm
 Extra IOP IOP(Sun): +2.2 mmHg Lens Th:



OCULUS - PENTACAM Compare 2 Exams

1.25/15

Name:

ID:

Date of Birth:

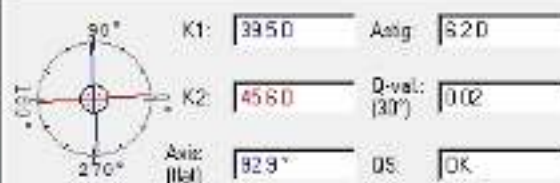
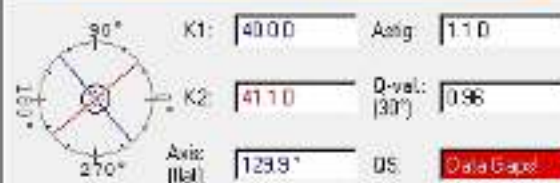
02/01/1988

Exam

A: 04/08/2017 20:02:36 Left (25) 30-Scan HR

B: 04/04/2017 10:08:30 Left (25) 30-Scan HR

Difference A - B



Pachy: x(mm) y(mm)

Pupil Center: + 517 µm -0.20 +0.17

Thinnest Locat.: O 501 µm -1.64 -0.72

Chamber Volume: 153 mm³ Angle: 44.9°

A.C. Depth (Int.): 3.03 mm Pupil Dia: 3.56 mm

ICP(cent): Lens Th:

Pachy: x(mm) y(mm)

Pupil Center: + 507 µm -0.18 +0.05

Thinnest Locat.: O 499 µm 0.00 -2.61

Chamber Volume: 148 mm³ Angle: 38.2°

A.C. Depth (Int.): 2.92 mm Pupil Dia: 3.17 mm

ICP(cent): Lens Th:

Pachy: x(mm) y(mm)

Pupil Center: + -10 µm +0.01 -0.12

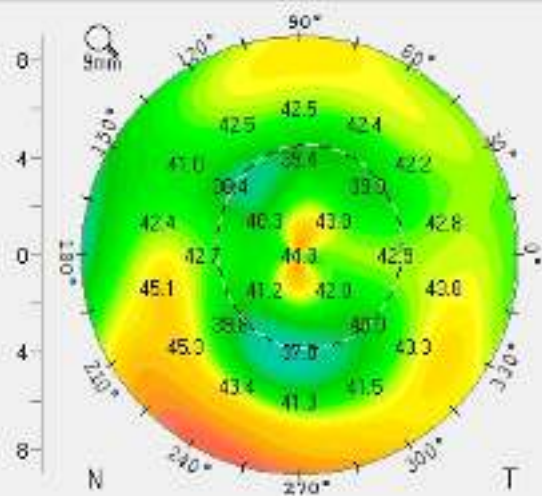
Thinnest Locat.: O -13 µm +1.64 +1.69

Chamber Volume: -5 mm³ Angle: +6.7°

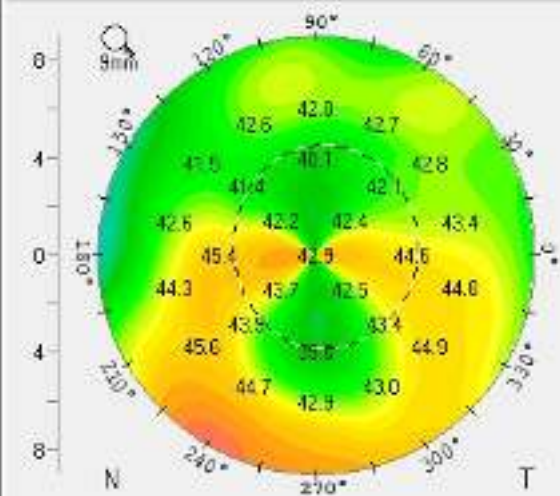
A.C. Depth (Int.): -0.11 mm Pupil Dia: +0.81 mm

ICP(cent): Lens Th:

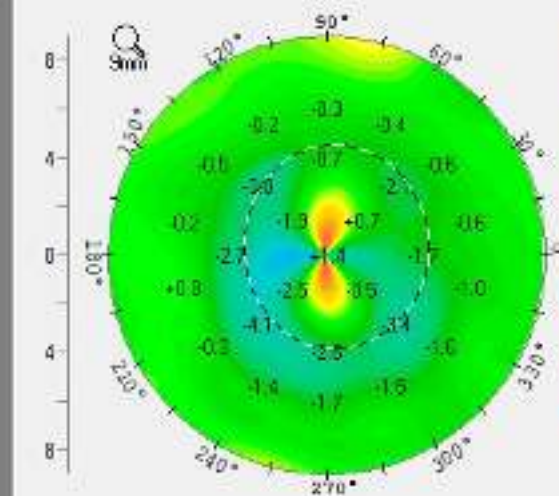
Axial / Sagittal Curvature (Front)



Axial / Sagittal Curvature (Front)



Axial / Sagittal Curvature (Front)



D

Curvature

Abs

0.50 D

Curvature

Rel

2025

OCULUS Corvis® ST - Homburg Biomechanical E-Staging (BEST)

Patient Examination Display Export Settings

172747

E-Mail AVI .JPG

Name:

ID: unilatKC post ICRS

Date of birth: 01.09.1985

Age: 34

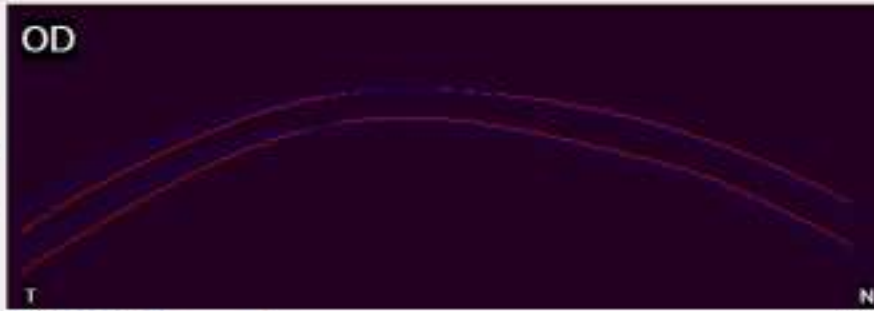
Eye: Right (OD)

Select 4
axial
Right
Eye

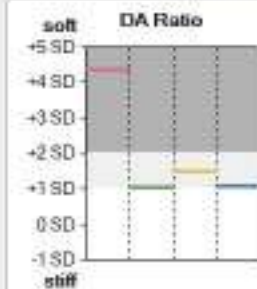
Select 4
axial
Left Eye

Exam/Right (OD) SS

13.01.2022	OK
12.02.22	OK
14.12.2021	OK
13.09.24	OK
17.10.2021	AL
12.03.18	OK
09.10.2021	OK
12.03.21	OK



E-Staging

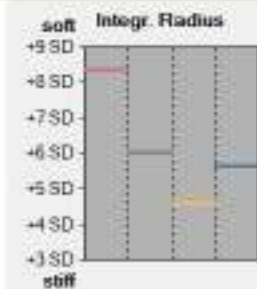


Value: 6.3 4.7 4.9 4.7
SD: 4.4 1.0 1.5 1.1

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. SD:	-3.3	-2.9	-3.3
Stiffer	✓	✓	✓
not sign			
softer			

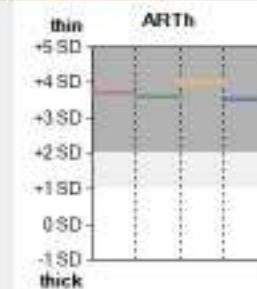


Value: 17.4 14.8 13.2 14.4
SD: 8.4 6.0 4.6 5.6

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. SD:	-2.3	-3.8	-2.7
Stiffer	✓	✓	✓
not sign			
softer			

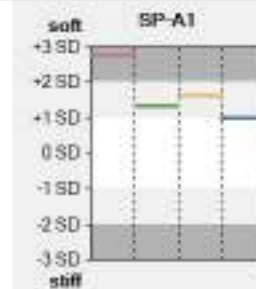


Value: 98 111 60 124
SD: 3.7 3.6 4.0 3.5

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. SD:	0.1	0.3	-0.2
Thicker			
not sign	✓		✓
thinner			

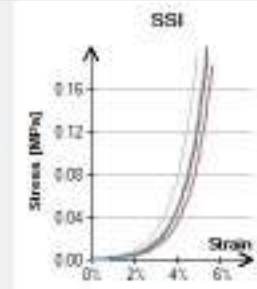


Value: 59 87 81 93
SD: 2.8 1.3 1.6 1.0

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. SD:	-1.5	-1.1	-1.8
Stiffer	✓	✓	✓
not sign			
softer			



Value: 0.5 0.6 0.6 0.6
SD: 2.5 1.8 1.6 1.8

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. SD:	-0.7	-0.9	-0.7
Stiffer	✓	✓	✓
not sign			
softer			

CBif: 4.2 4.6 4.6 5.0
E-Stage: 3.9 3.2 3.2 2.5

BaseLine @ ○ ○ ○ ○

Changes from baseline exam:

Diff. time:	0.9y	2.0y	3.8y
Diff. Stage:	-0.7	-0.7	-1.4
No Prog.	✓	✓	✓
Progress			

Oculus Optikgeräte GmbH
Münchholzhauser Str. 29

35582 Wetzlar

Tel. (0641) 20 05-0
Fax (0641) 20 05-255

www.oculus.de



RIO 2025

Post ICRS

Avoid Ectasia

OCULUS - PENTACAM 4 Maps Selectable

1.22.08

Last Name:
 First Name:
 ID:
 Date of Birth: 01/02/1990 Eye: Right
 Exam Date: 21/09/2019 Time: 21:28:28
 Exam Info:

Cornea Front:

RI: 7.01 mm K1: 43.2 D
 Ri: 7.71 mm K2: 43.7 D
 Rm: 7.76 mm Kmc: 43.5 D

QS: OK Axis (deg): 25.6° Astig: 0.5 D
 Q-val (30°): -0.73 Rper: 0.34 mm Rmirc: 7.56 mm

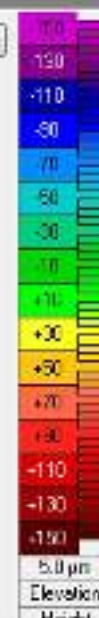
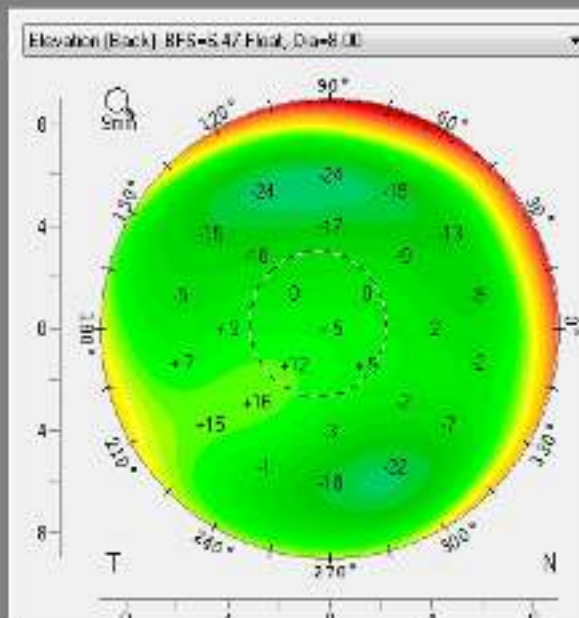
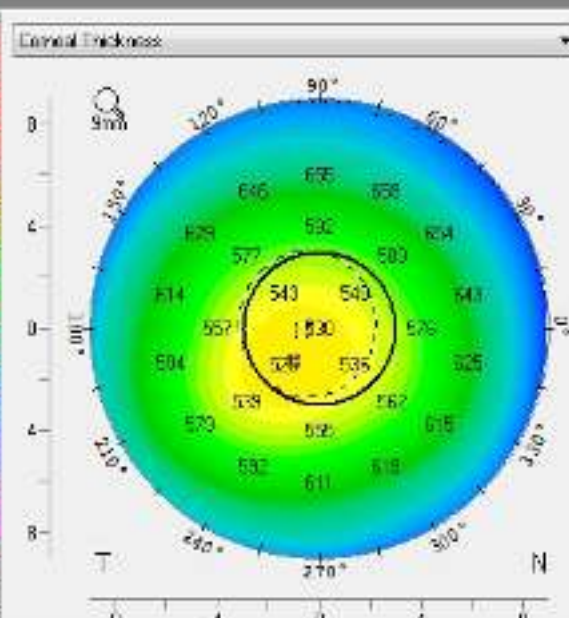
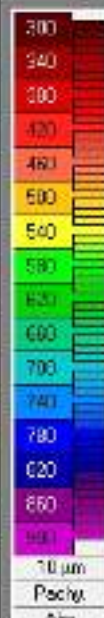
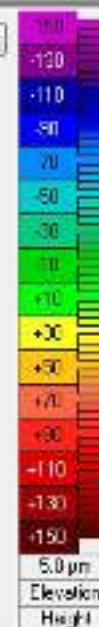
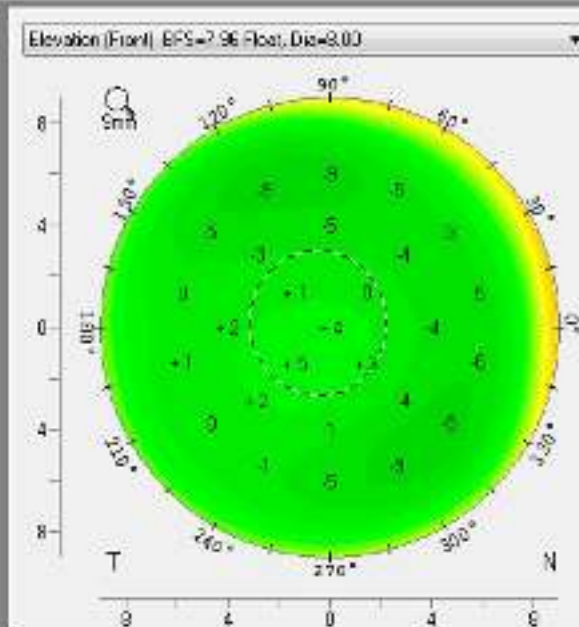
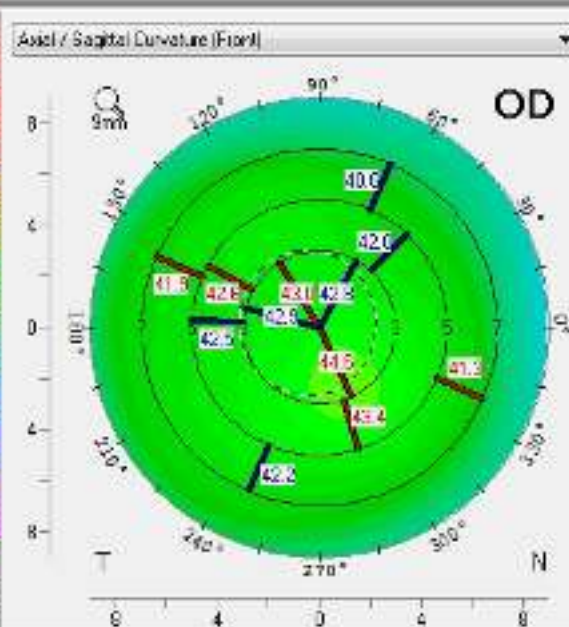
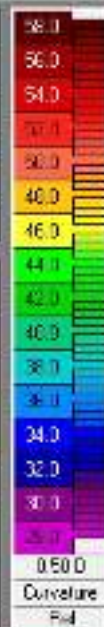
Cornea Back:

RI: 6.43 mm K1: -6.7 D
 Ri: 6.17 mm K2: 6.5 D
 Rm: 6.30 mm Kmc: -6.3 D

QS: OK Axis (deg): 23.9° Astig: +0.3 D
 Q-val (30°): -0.55 Rper: 6.91 mm Rmirc: 6.00 mm

Pachy: x(mm) y(mm)
 Pupil Center: + 530 μ m -0.25 +0.03
 Pachy Apex: 530 μ m 0.00 0.00
 Thinned Local: 535 μ m -0.52 -0.65
 K Max (Front): 44.6 D -0.52 -1.10

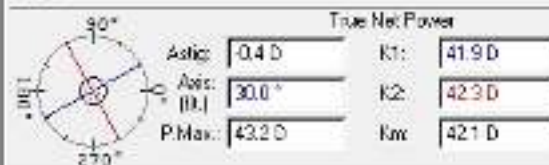
Cornea Volume: 53.0 mm³ HWTW: 11.2 mm
 Chamber Volume: 146 mm³ Angle: 40.9°
 A.C. Depth (Int.): 2.99 mm Pupil Dia: 2.75 mm
 Enter IOP: IOP(Sum): +18 mmHg Lens Th:



OCULUS - PENTACAM Topometric/KC-Staging

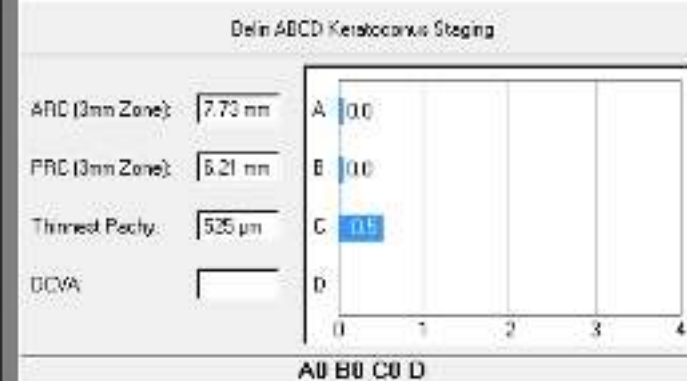
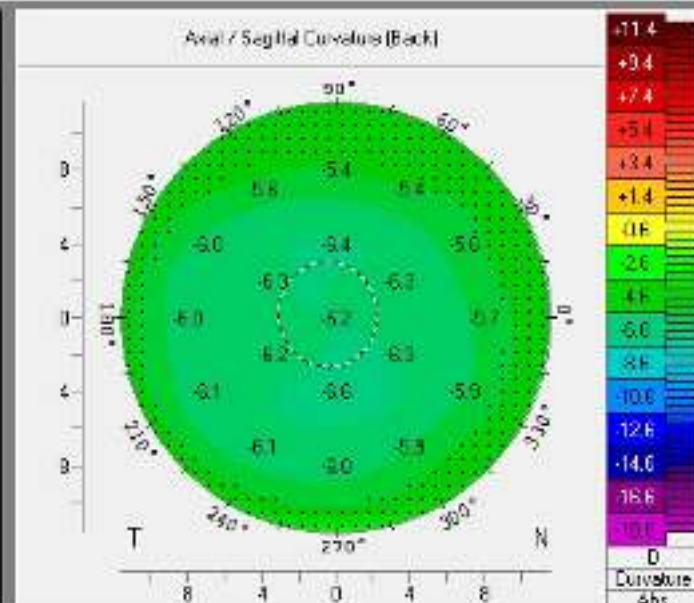
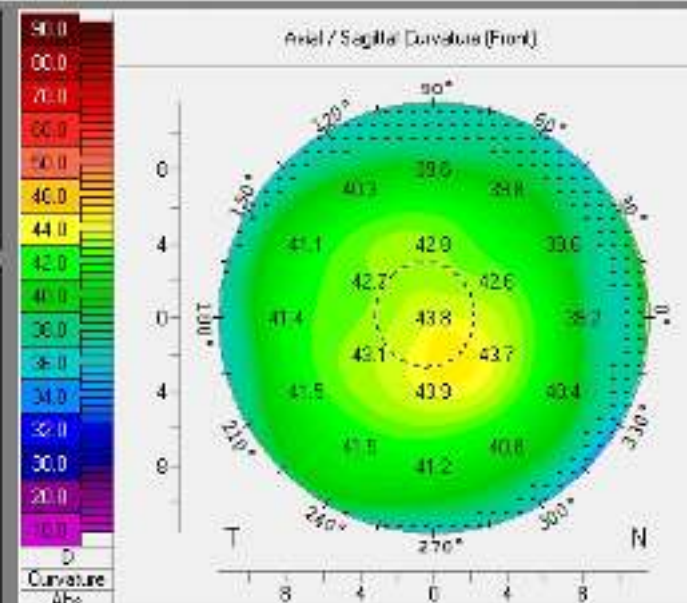
1.22.09

Last Name:
 First Name:
 ID:
 Date of Birth: 01/02/1990 Eye: Right
 Exam Date: 21/09/2019 Time: 21:26:29
 Exam Info:



	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 530 µm	-0.23	+0.08
Pachy Apex:	530 µm	0.00	0.00
Thinnest Locat:	○ 525 µm	-0.52	0.55
K Max (Front):	44.6 D	+0.52	-1.10

Cornea Volume:	59.0 mm ³	FWTW:	11.2 mm
Chamber Volume:	140 mm ³	Angle:	40.0°
A. C. Depth (Int.):	2.93 mm	Pupil Dia:	2.75 mm
IOP(Sum):	+0.0 mmHg	Lens Th:	



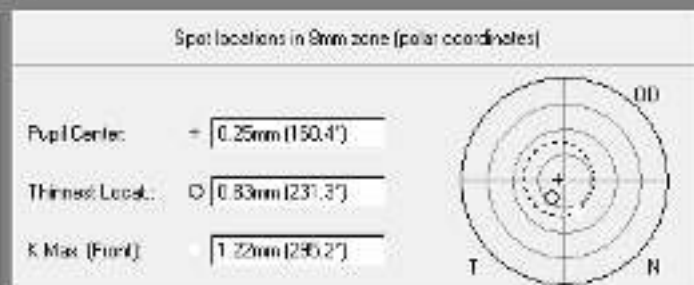
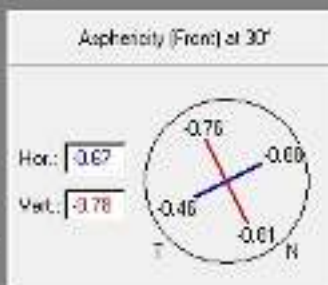
Asphericity (Front) of Major Meridians

	Degrees peripheral				
(Q-val.)	20°	25°	30°	35°	40°
Nax	-0.76	-0.85	-0.88	-0.74	0.00
Temp	-0.29	-0.35	-0.46	-0.58	-0.53
Int	-0.79	-0.81	-0.61	-0.85	0.00
Sup	-0.41	-0.61	-0.76	-0.79	0.00
Mean	-0.56	-0.65	-0.73	-0.74	-0.13

Front:
☒ Asphericity
☐ Axial/Sag. Curval
 Back:
☐ Asphericity
☐ Axial/Sag. Curval

Indices (in 8mm zone)

ISV:	26	IHA:	1.4
IVA:	0.17	IHD:	0.011
KJ:	1.06	RMix:	7.56
OKJ:	1.02	TKC:	-
KISA:	25.167	IS:	0.57

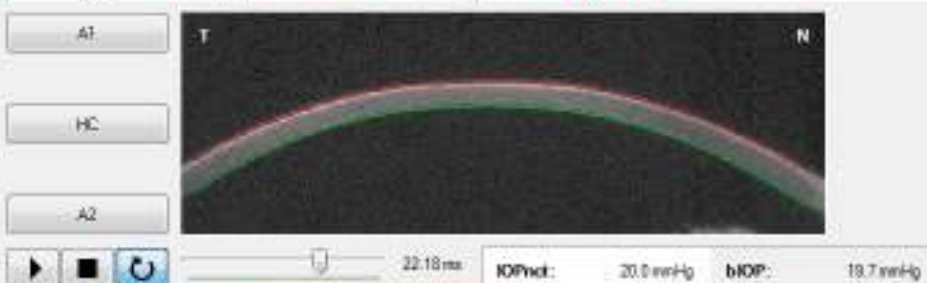
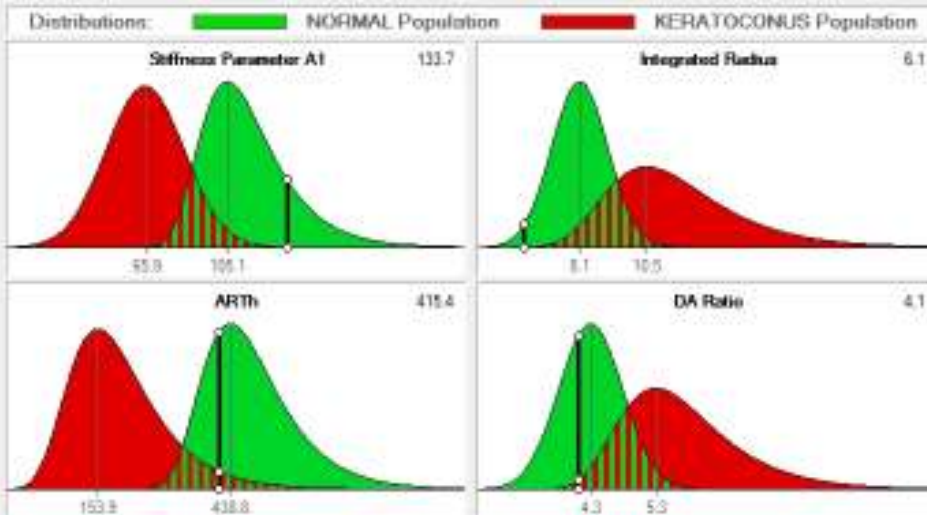


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

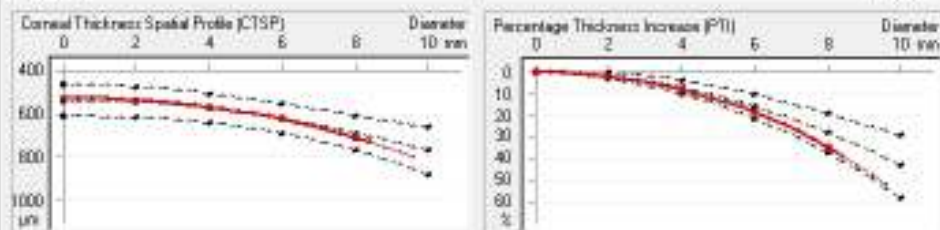
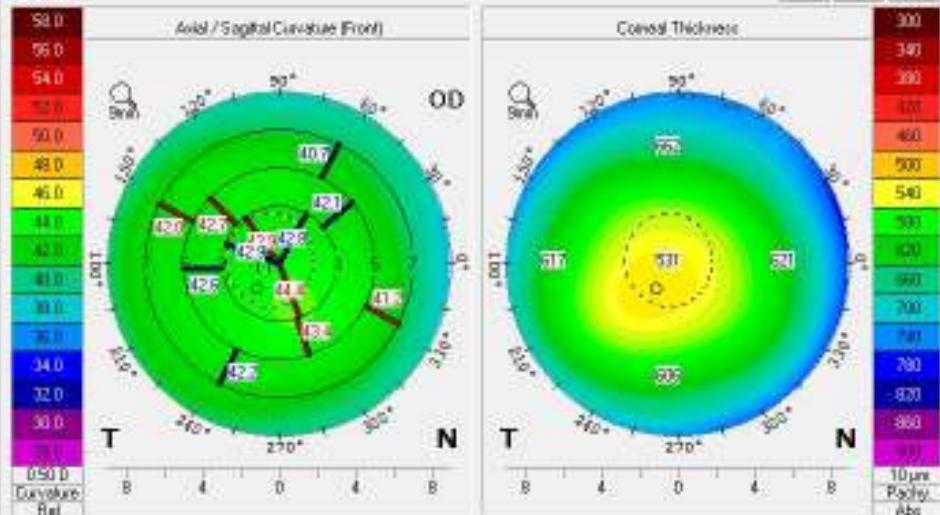
16/2021

Name: ID: Exam Date: 13.11.2019 Time: 18:56:22 Age: 29
 Exam Date: 12.46.03 Eye: Right (OD) Info: QS: OK

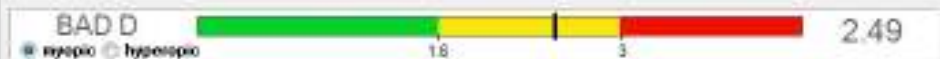
Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



K Max.: 44.5 D IS Value: 0.6 D PRFI: 0.64 TNC: -



OCULUS TIENTACAM Show 2 Exams

1.20.03

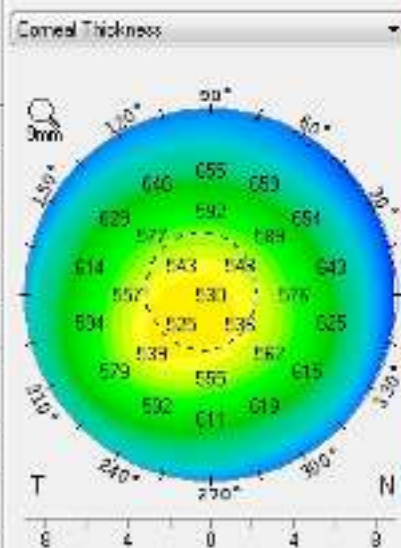
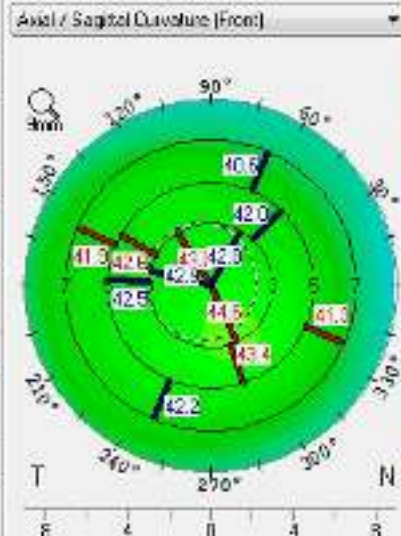
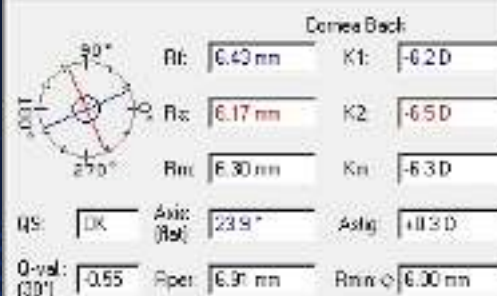
Name

ID

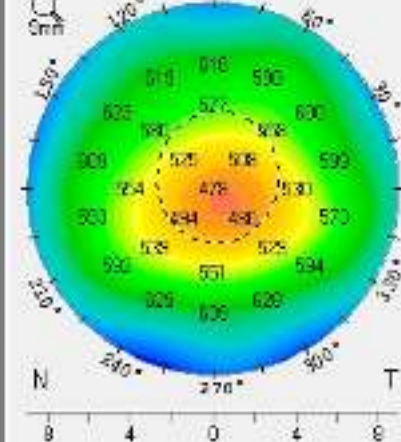
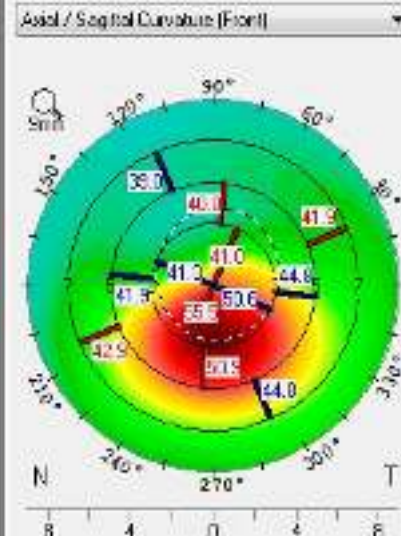
Date of Birth

01/02/1990

Exam A: A: 21/03/2019 21:29:29 Right (25) 3D-Scan HR



Exam B: B: 21/03/2019 21:29:23 Left (25) 3D-Scan HR



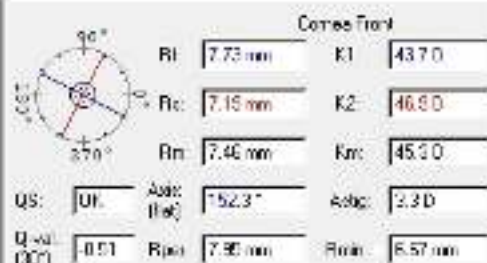
VAE

12515

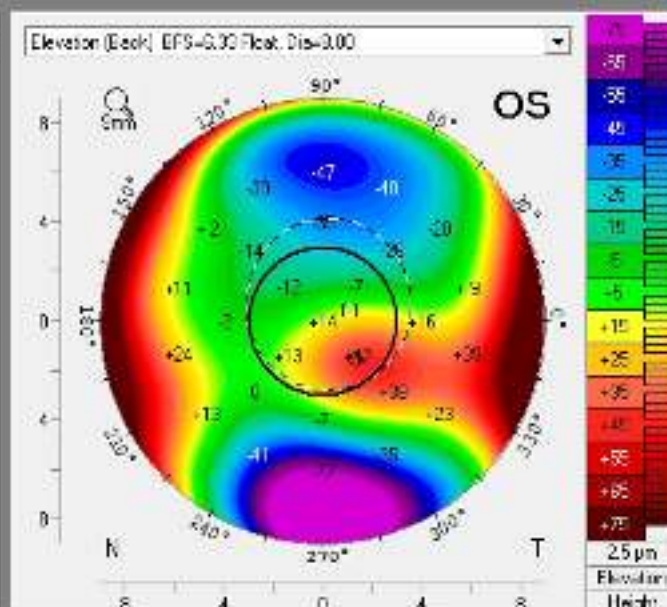
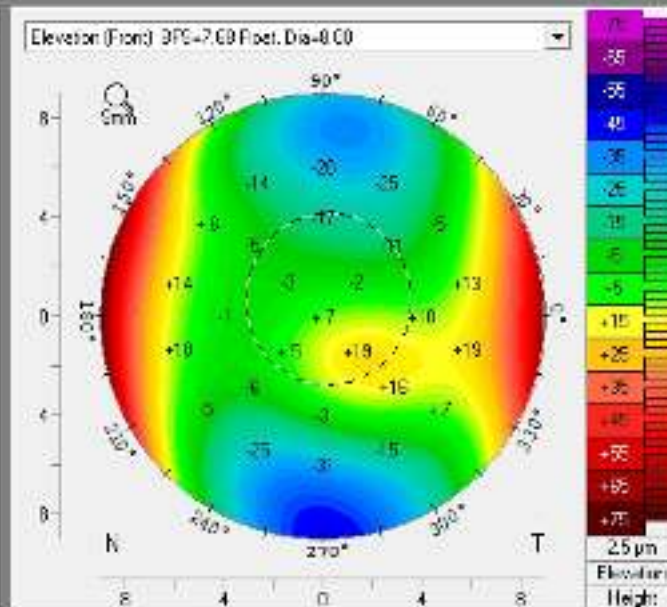
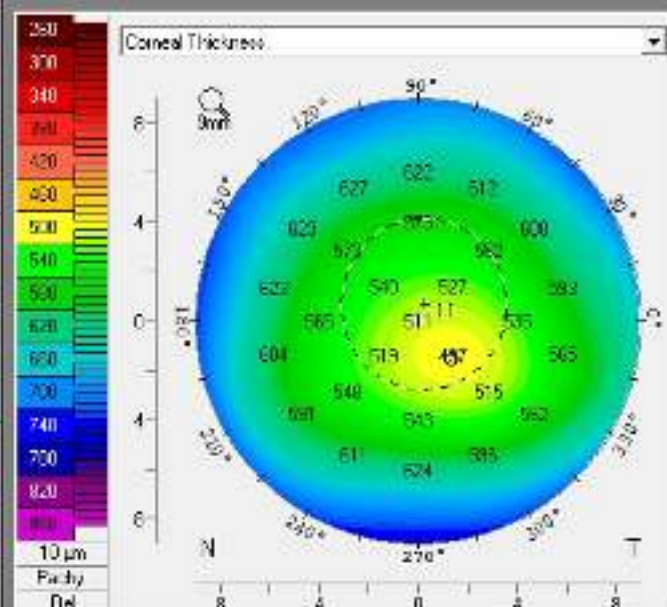
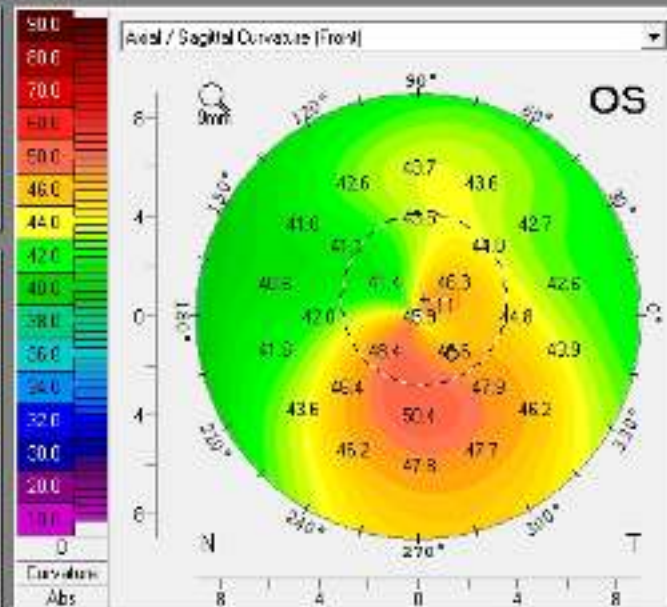
OCULUS - PENTACAM 4 Maps Selectable

1.2515

Last Name:
 First Name:
 ID:
 Date of Birth: 04/06/1996 Eyes: Left
 Exam Date: 16/15/2023 Time: 0.53.23
 Exam Info:



Pupil Center	510 µm	x(mm)	+0.12	y(mm)	+0.34
Pachy Vertex N:	511 µm	0.00	0.00		
Thinned Local	497 µm	+0.68	-0.75		
K-Max (Front)	50.6 D	0.07	-1.63		
Cornea Volume	50.5 mm³	HFVTh:	12.1 mm		
Chamber Volume	203 mm³	Angle	38.1°		
A. D. Depth (Hk)	3.26 mm	Pupil Dia:	3.95 mm		
Enter IOP (IOP(Sun))	-2.4 mmHg	Lens Th:			

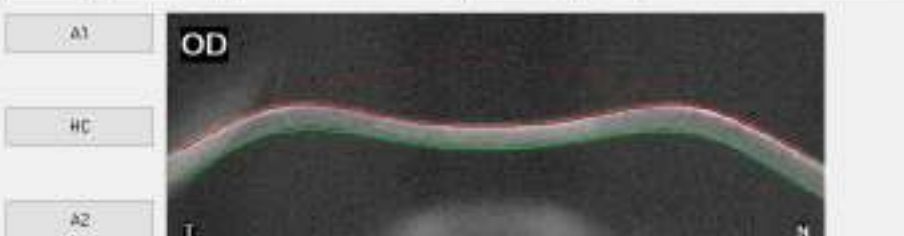
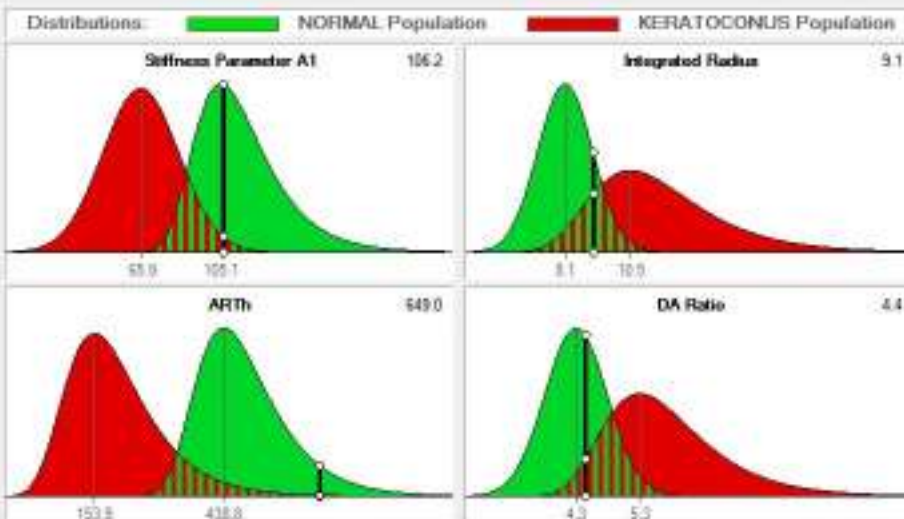


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

1.62503

Name: [REDACTED] ID: vae Date of birth: 30.04.1998 Age: 25
 Exam. Date: [REDACTED] Time: 10:57:06 Eye: Right (OD) Exam. Date: 15.05.2023 Time: 12:00:03 Eye: Right (OD)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

Corvis ST - Biomechanical Assessment

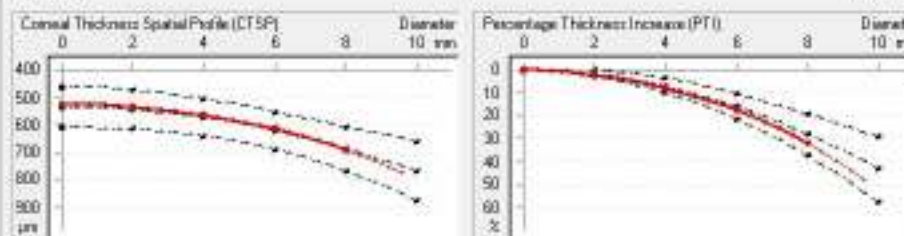
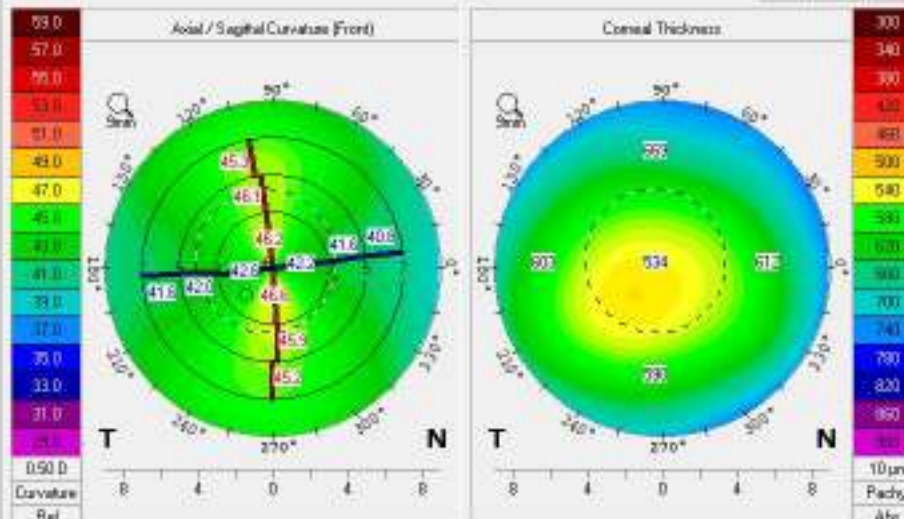


15.65 mmHg IOPmed: 16.5 mmHg bIOP: 16.4 mmHg

CBI ■ ■ ■ 0.17
 @ untreated @ post LVC 0.25 0.50 0.75 1.00

TBI ■ ■ ■ 0.18
 0.00 0.25 0.50 0.75 1.00

Pentacam - Tomographic Assessment



K Max: 46.9 D IS Value: 0.0 D PRI: 0.15 TNC: [REDACTED]

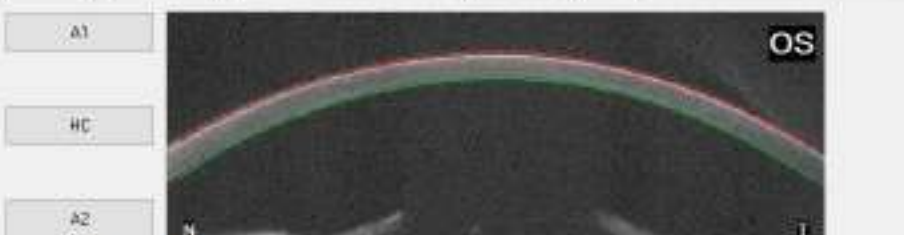
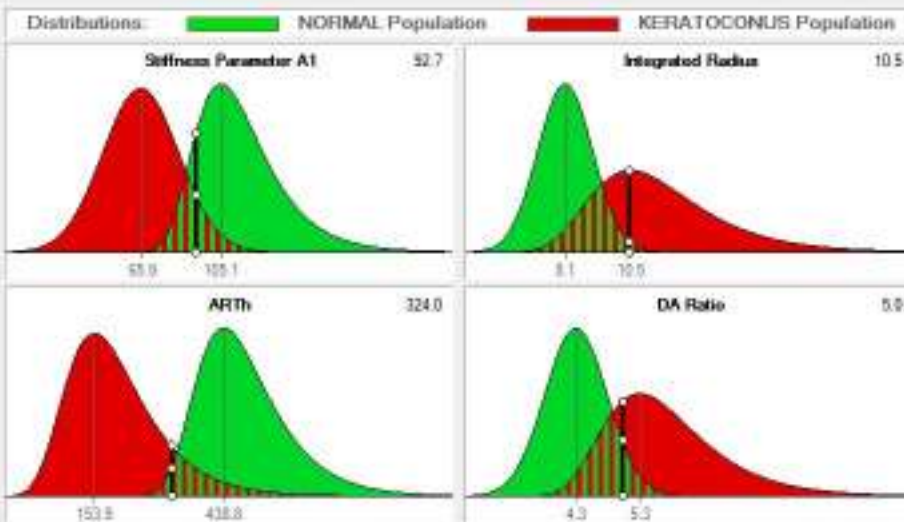
BAD D ■ ■ ■ 2.08
 @ myopic @ hyperopic 1.5 3

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

1.62503

Name: [REDACTED] ID: vae Date of birth: 30.04.1998 Age: 25
 Exam. Date: [REDACTED] Time: 10:56:53 Eye: Left (OS) Exam. Date: 15.05.2023 Time: 10:53:29 Eye: Left (OS)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

Corvis ST - Biomechanical Assessment

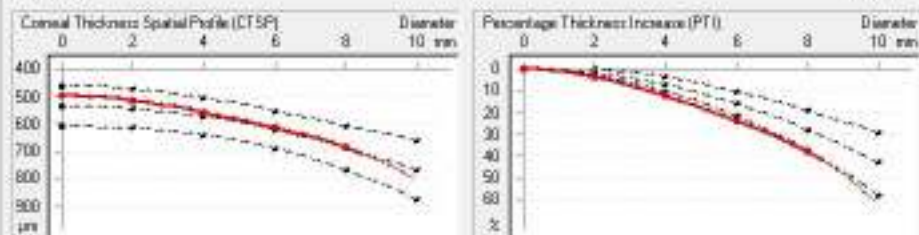
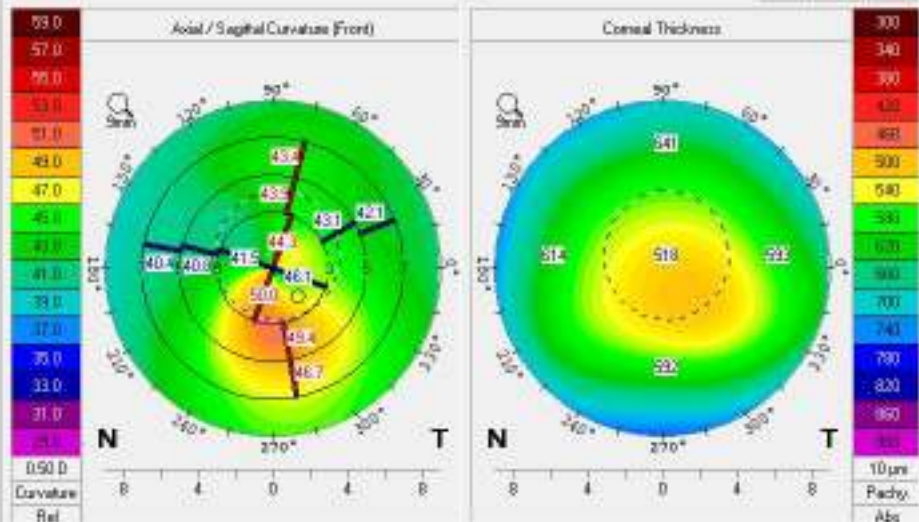


0.00 ms IOPmed: 15.5 mmHg IOP: 15.9 mmHg

CBI ■ ■ 0.93
 @ untreated @ post LVC 0.25 0.50 0.75 1.00

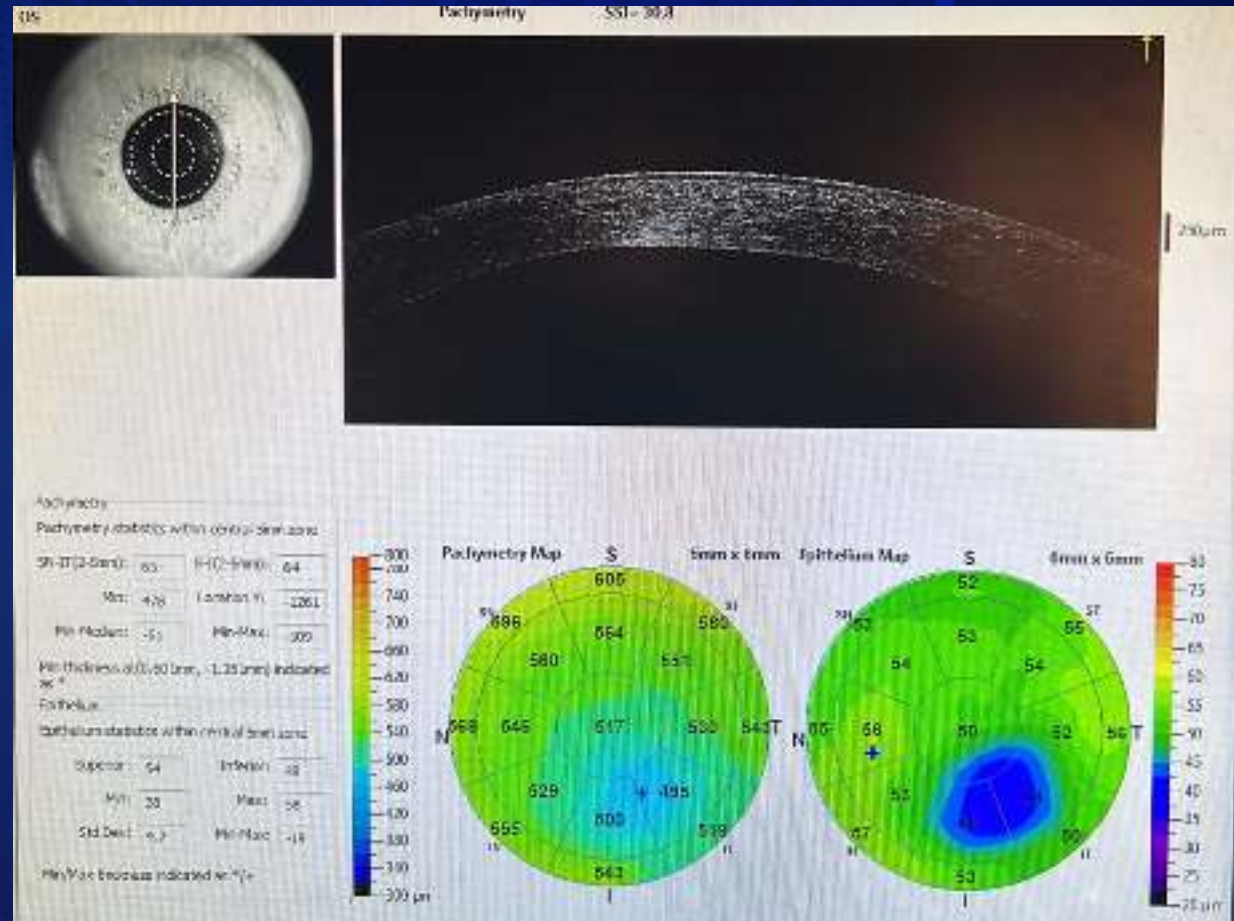
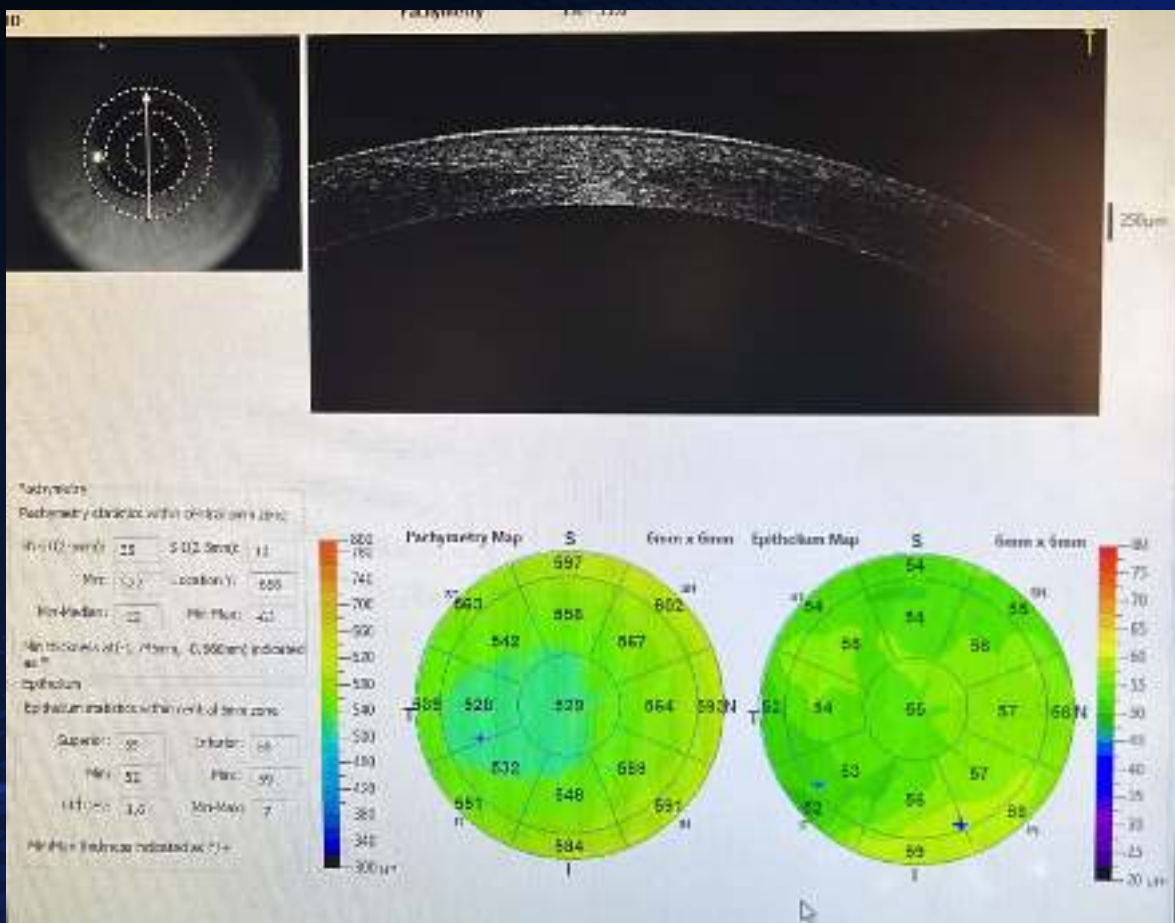
TBI ■ ■ 1.00
 0.00 0.25 0.50 0.75 1.00

Pentacam - Tomographic Assessment



K Max: 50.6 D IS Value: 3.4 D PRFI: 0.99 TNC: KC 1.2

BAD D ■ ■ 5.51
 @ myopic @ hyperopic 1.5 3



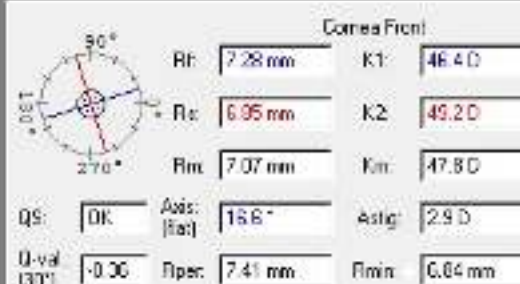
Exclude Ectasia Susceptibility

Case#1

OCULUS - PENTACAM 4 Maps Selectable

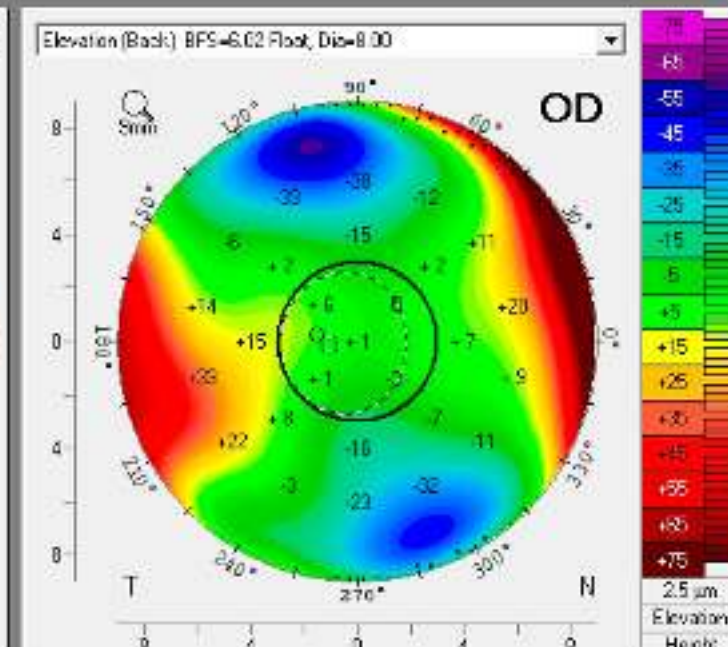
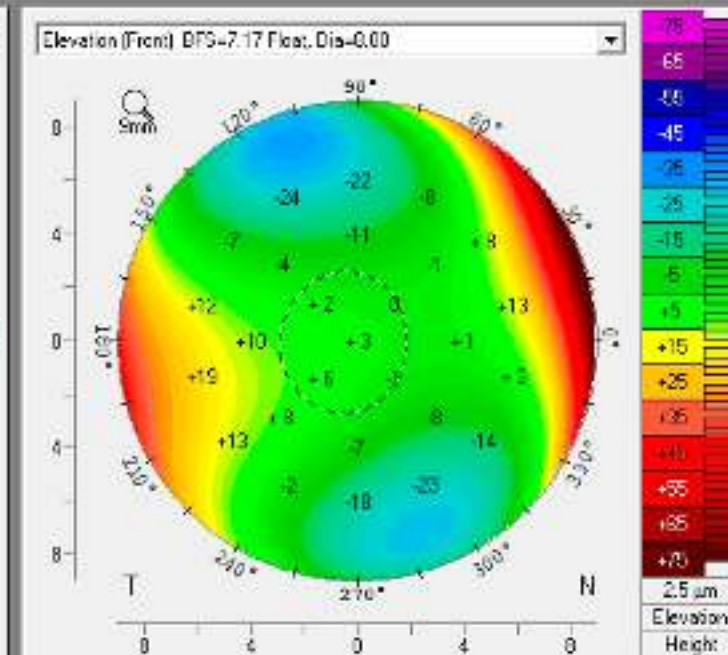
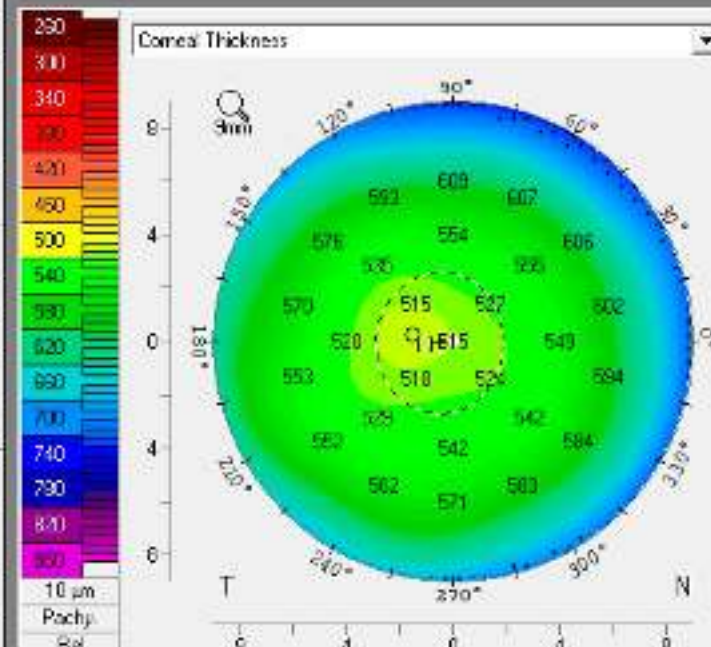
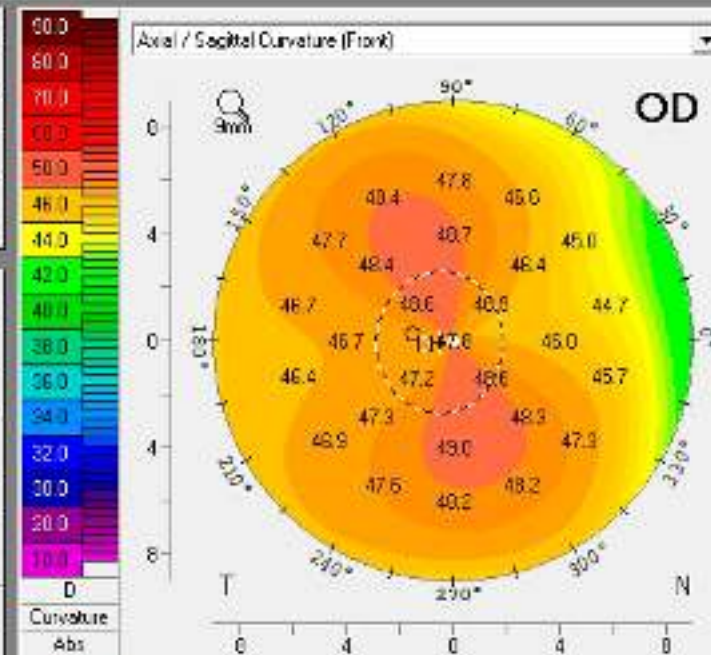
12/05/15

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/05/1996 Eye: Right
 Exam Date: 05/14/2023 Time: 09:07:59
 Exam Info:



	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 513 µm	-0.26	-0.03
Pachy-Vertex N.:	515 µm	0.00	0.00
Thinnest Loc.:	511 µm	-0.77	+0.10
K Max. (Front):	49.4 D	+0.06	-1.34

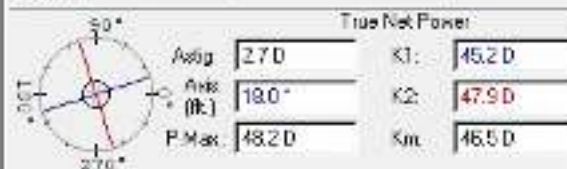
Cornea Volume:	59.0 mm ³	IRWTW:	11.0 mm
Chamber Volume:	174 mm ³	Angle:	41.5°
A. C. Depth (Int.):	3.11 mm	Pupil Dia:	2.51 mm
Enter IOP (IDP/Sum):	+21 mmHg	Lens Th:	



OCULUS - PENTACAM Topometric/KC-Staging

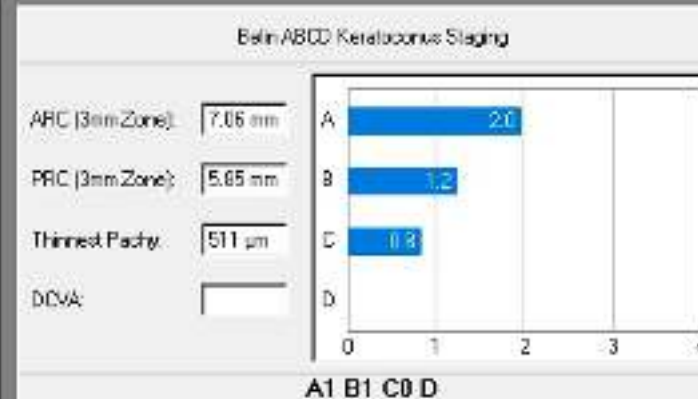
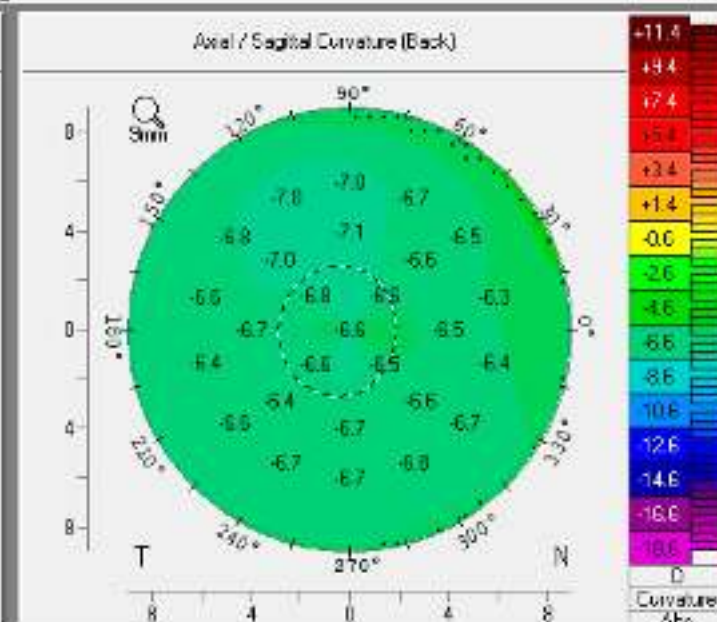
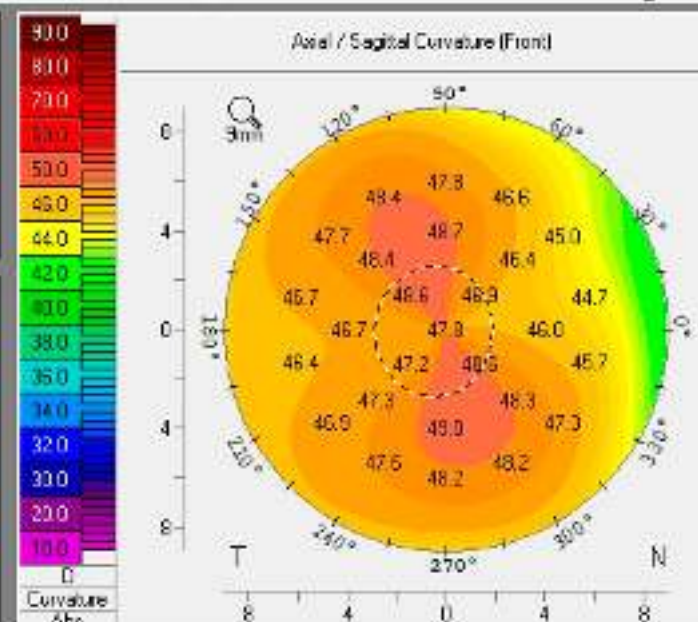
1.2515

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/05/1998 Eye: Right
 Exam Date: 05/14/2023 Time: 09:07:59
 Exam Info:



Pupil Center: + 513 µm x(mm): -0.26 y(mm): -0.03
 Pachy Vertex R: - 515 µm 0.00 0.00
 Thinnest Locat: 511 µm -0.77 +0.13
 K Max (Front): 49.4 D +0.38 -1.34

Cornea Volume: 58.3 mm³ HW/TW: 11.3 mm
 Chamber Volume: 174 mm³ Angle: 41.5°
 A. C. Depth (Int.): 3.11 mm Pupil Dia: 2.51 mm
 IOP(Sum): +21 mmHg Lens Th:

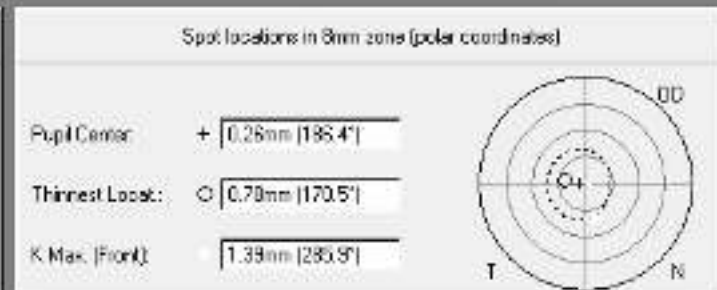
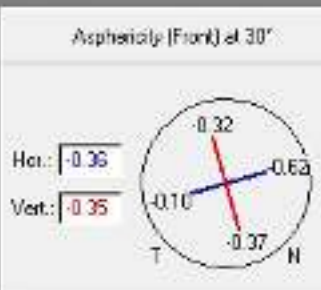


Asphericity (Front) of Major Meridians

	Degrees peripheral					
(Q-val)	20°	25°	30°	35°	40°	Front
Nas	-0.52	-0.58	-0.62	-0.61	-0.52	☒ Asphericity
Temp	-0.07	-0.08	-0.10	-0.12	-0.18	☐ Axial/Sag. Curve
Inf	-0.27	-0.32	-0.37	-0.45	-0.61	Back:
Sup	-0.22	-0.27	-0.32	-0.42	-0.64	☐ Asphericity
Mean	-0.27	-0.31	-0.36	-0.40	-0.49	☐ Axial/Sag. Curve

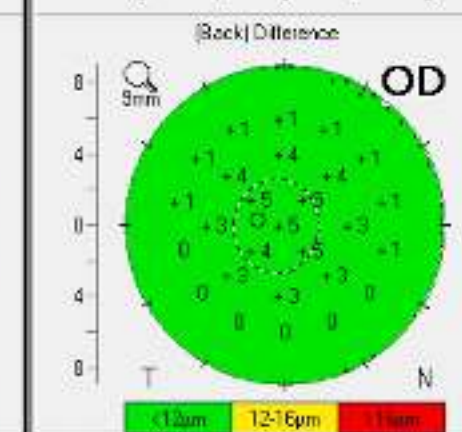
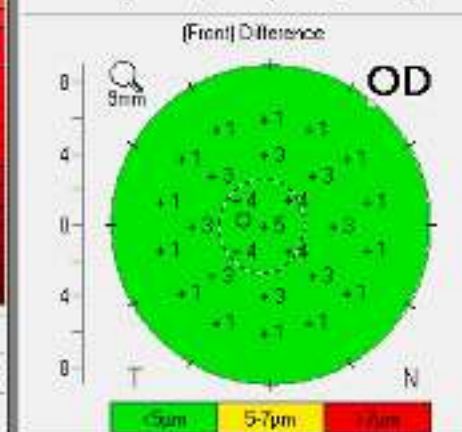
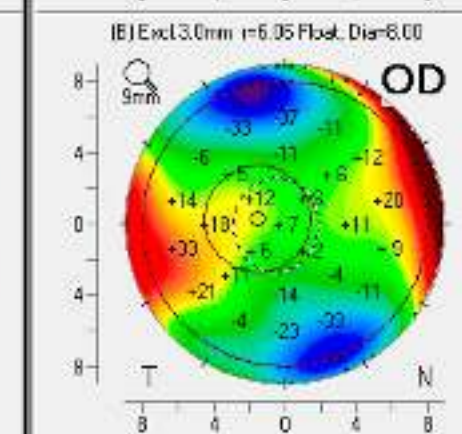
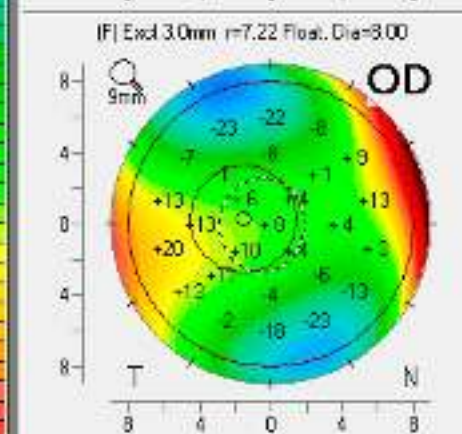
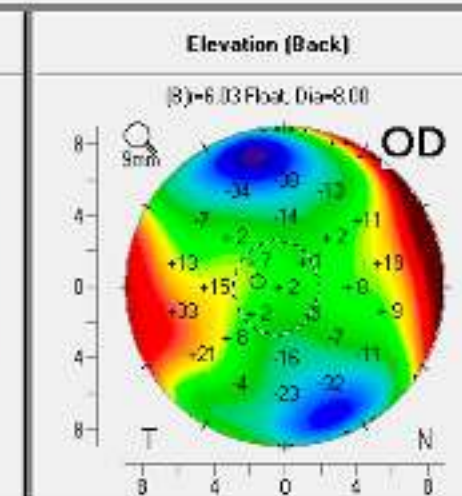
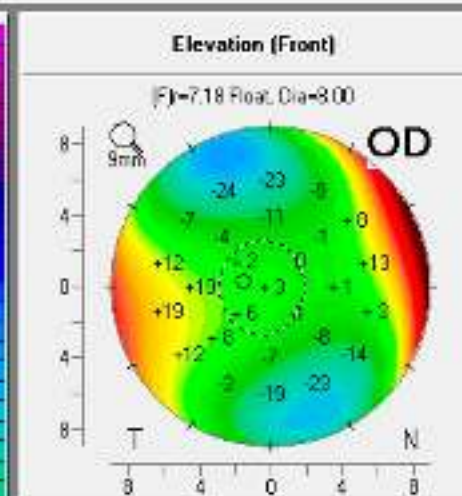
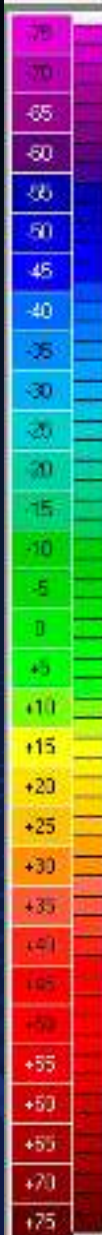
Indices (in 8mm zone)

ISV: 29 IHA: 6.1
 IVA: 314 IHD: 0.014
 KI: 1.03 RMin: 6.04
 CK: 1.01 TKC: -
 KISA: 2.688 IS: 0.53



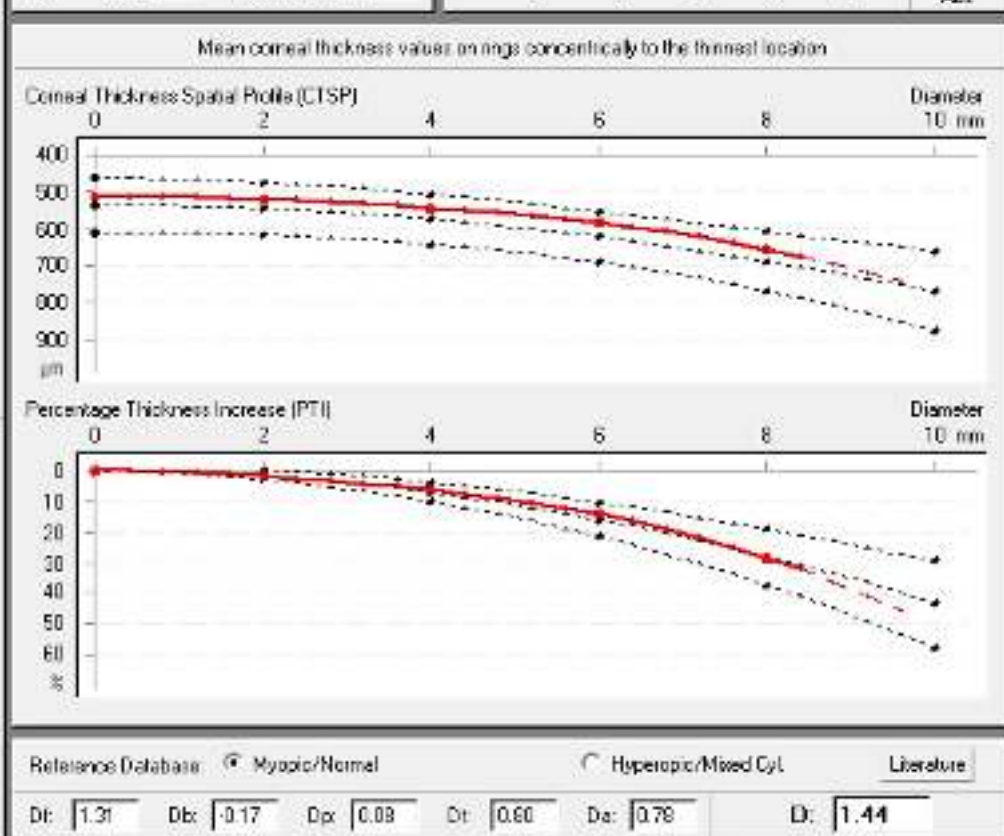
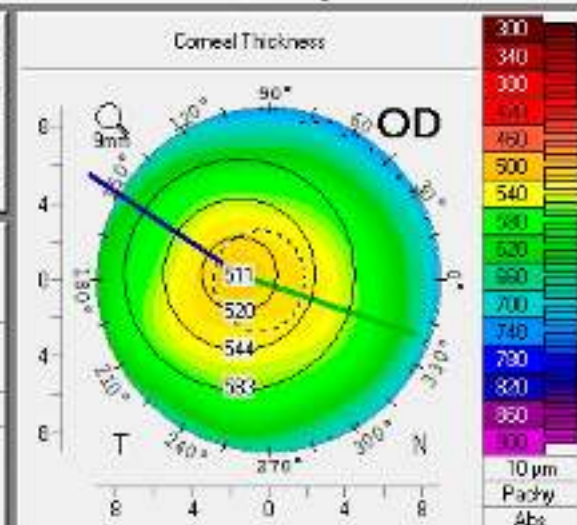
OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.25x15



Last Name: [Redacted]
First Name: [Redacted]
ID: [Redacted]
Date of Birth: 12/05/1996 Eye: Right
Exam Date: 05/14/2023 Time: 09:07:59
Exam Info:

K1: 45.40 Axis: 16.5°
K2: 49.20 Q-val: -0.36
KMax: 49.40 OS: OK
Pachy Thin Locat: 511 μ m
Dist. Vertex N-Thin Loc.: ST 0.70mm
F.Ele.Th: 5 μ m S.Ele.Th: 8 μ m
Progression Index:
Min: 0.58 Max: 1.27
Avg: 0.92 ARTmax: 402

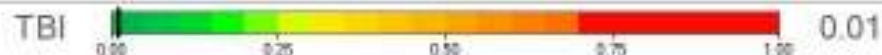
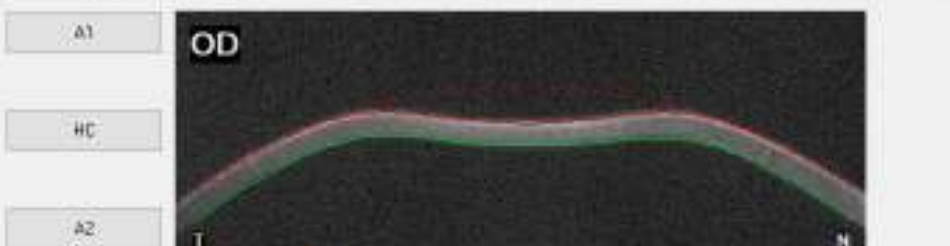
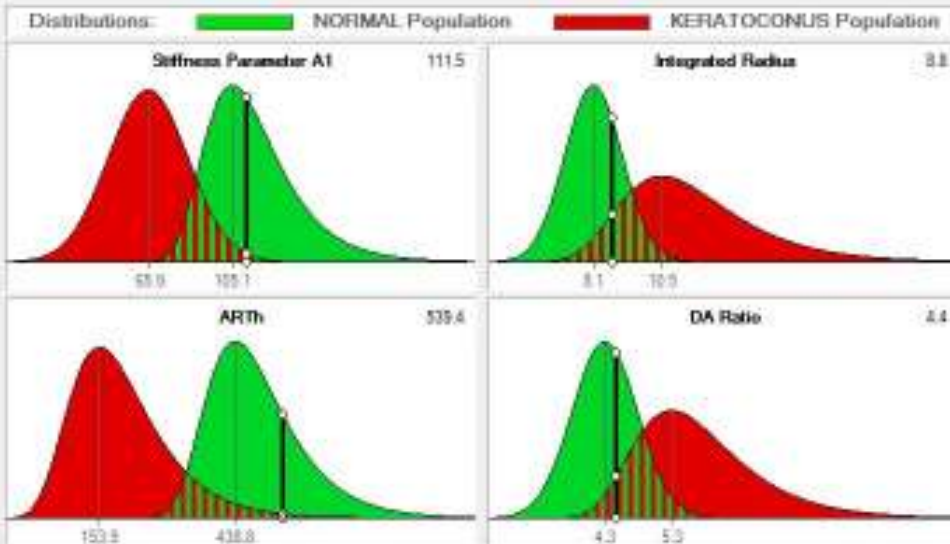


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

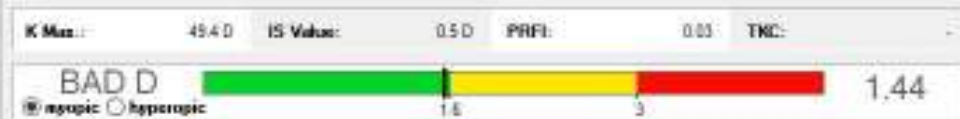
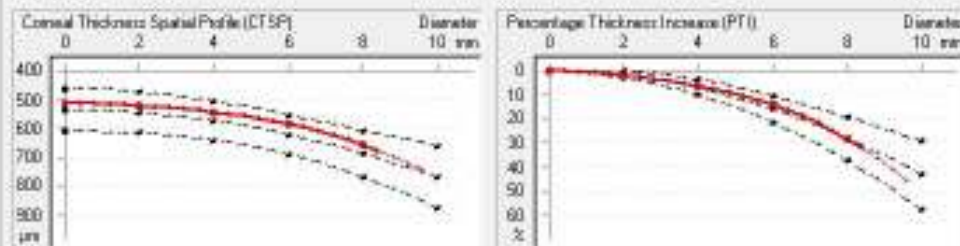
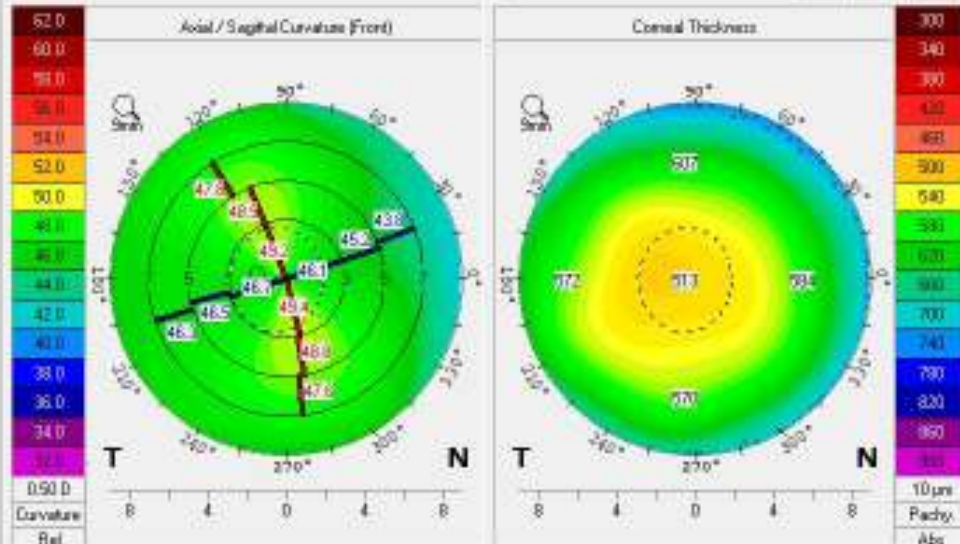
162503

Name: [REDACTED] ID: [REDACTED] Date of birth: 05.12.1996 Age: 26
 Exam. Date: [REDACTED] Time: 09.11.14 Eye: Right (OD) Exam. Date: 14.05.2023 Time: 09.07.59 Eye: Right (OD)
 Info: [REDACTED] OS: OK Info: [REDACTED] OS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment

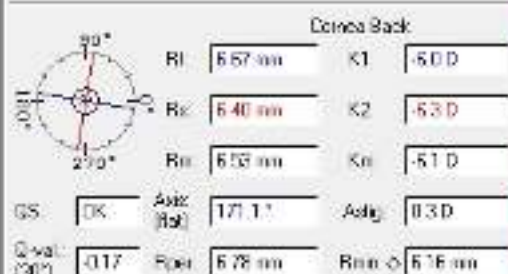
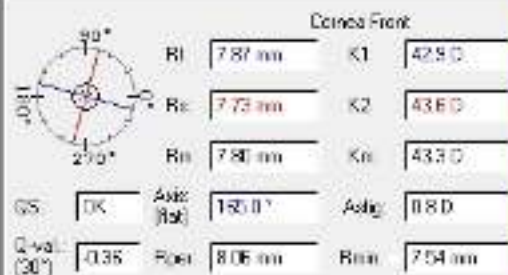


Inferior steep area

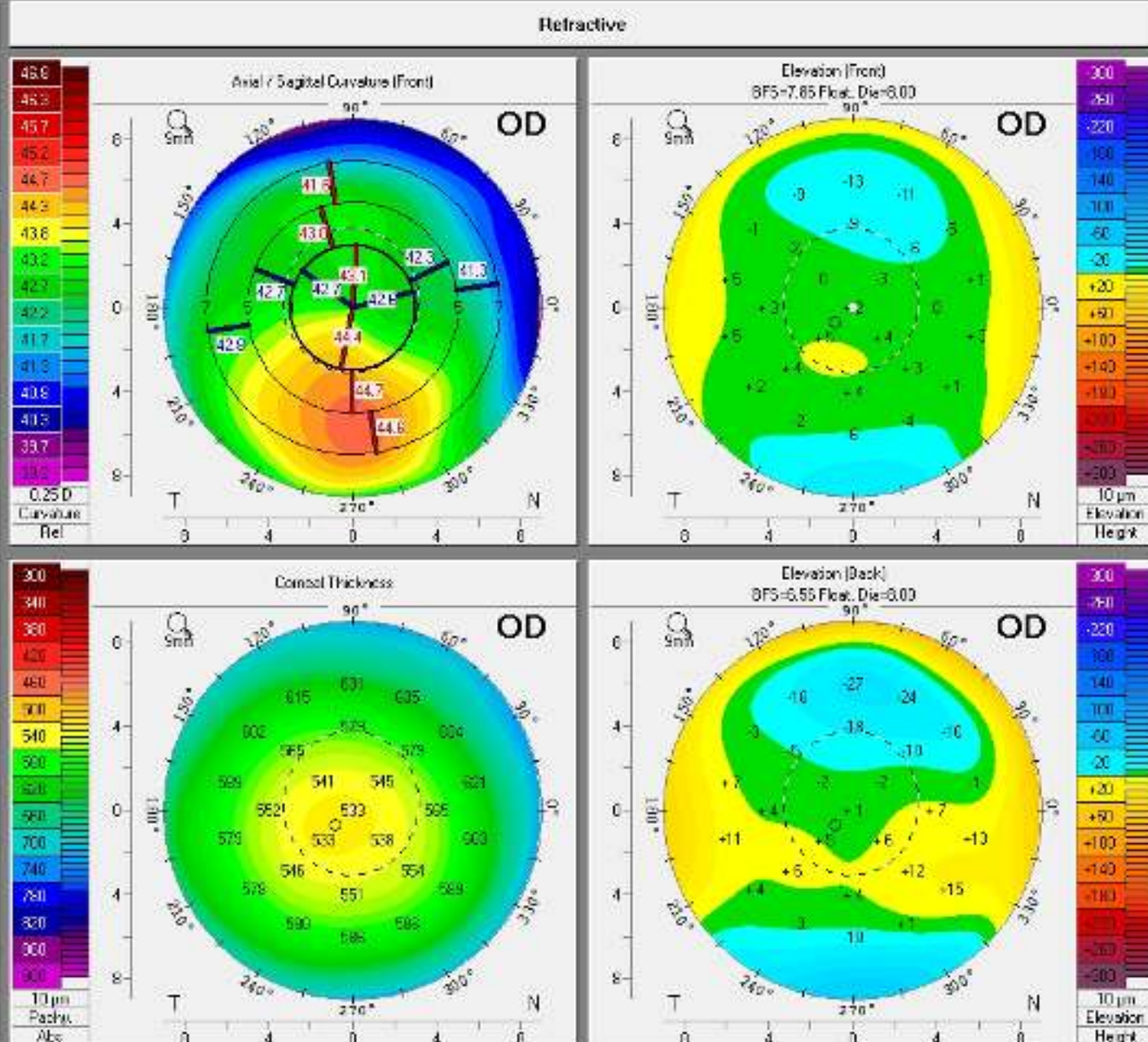
OCULUS - PENTACAM 4 Maps Refractive

1.2209

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 04/04/2001 Eye: Right
 Exam Date: 04/12/2021 Time: 12:41:04
 Exam Info: XXXXXXXXXX



Pupil Center	+ 533 µm	x(mm)	-0.04	y(mm)	+0.16
Pachy Apex	533 µm	x(mm)	0.00	y(mm)	0.00
Thinnest Locat.	531 µm	x(mm)	-0.40	y(mm)	-0.33
K Max (Front)	44.6 D	x(mm)	+0.13	y(mm)	-2.66
Cornea Volume	57.6 mm³	HW/TW	11.0 mm		
Chamber Volume	224 mm³	Angle	42.5°		
A.C. Depth (Int.)	3.47 mm	Pupil Dia	3.31 mm		
Enter IOP IOPcor		Lenz Th			



OCULUS - PENTACAM Topometric/KC-Staging

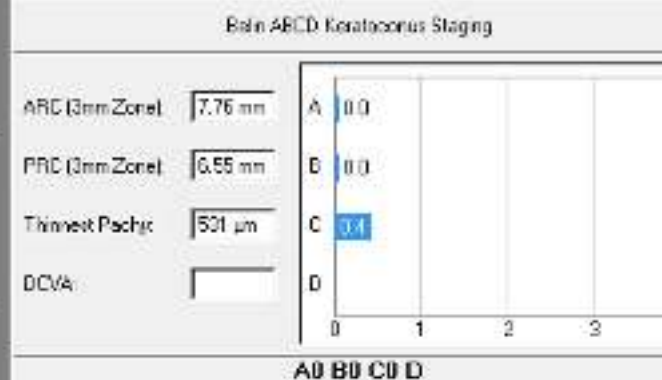
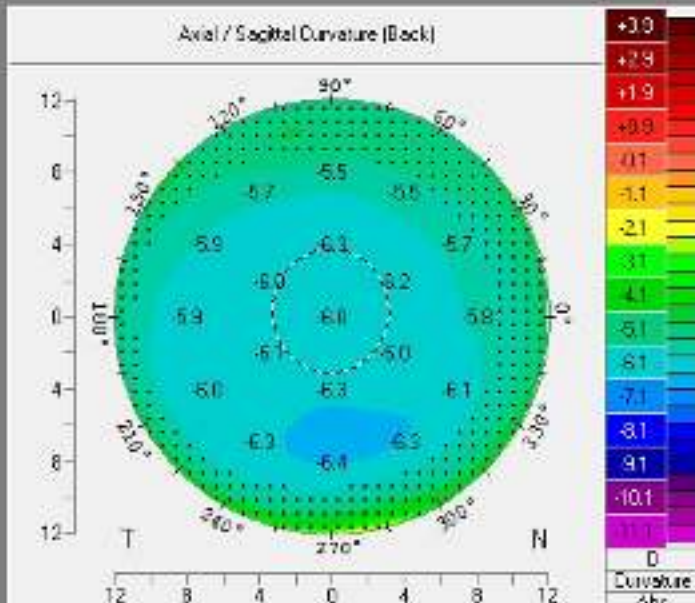
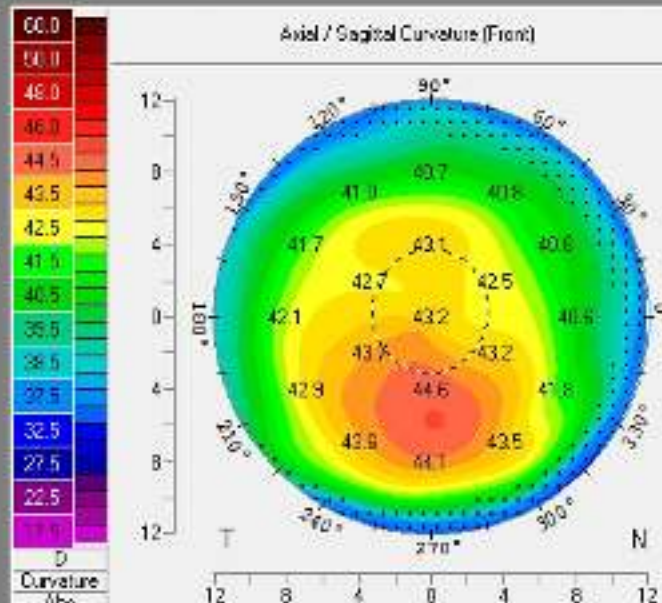
1.22.09

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 04/04/2001 Eys: Right
 Exam Date: 04/12/2021 Time: 12:41:04
 Exam Info:



Pupil Center: + 533 µm x(mm) -0.04 y(mm) -0.16
 Pachy Apex: 533 µm 0.00 0.00
 Thinnest Local: 531 µm -0.40 -0.33
 K Max (Front): 44.6 D +0.13 -2.69

Cornea Volume: 57.6 mm³ HWTW: 11.8 mm
 Chamber Volume: 224 mm³ Angle: 42.5°
 A. C. Depth (Int.): 3.47 mm Pupil Dia: 3.31 mm
 IDP(cat): Lens Th:

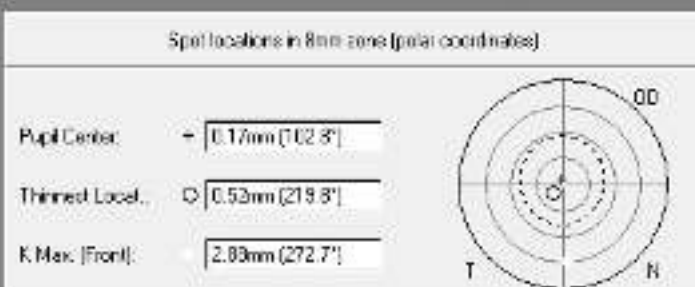
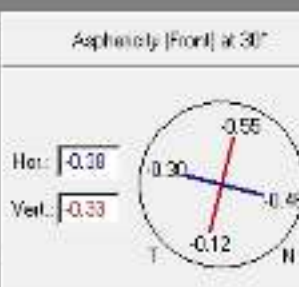


Asphericity (Front) of Major Meridians

(Q-val)	Degrees peripheral					Front: Asphericity Axial/Sag. Curv
	20°	25°	30°	35°	40°	
Nas	-0.21	-0.36	-0.46	-0.53	-0.52	Back: Asphericity Axial/Sag. Curv
Temp	-0.14	-0.20	-0.30	-0.40	-0.42	
Inf	0.07	-0.02	-0.12	-0.26	-0.58	
Sup	-0.37	-0.50	-0.55	-0.56	-0.52	
Mean	-0.16	-0.27	-0.35	-0.44	-0.51	

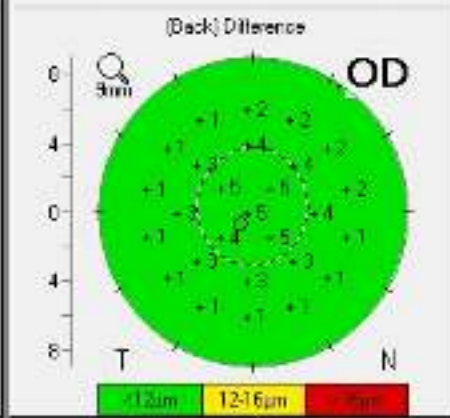
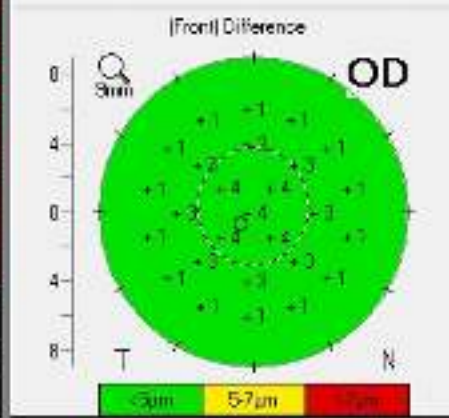
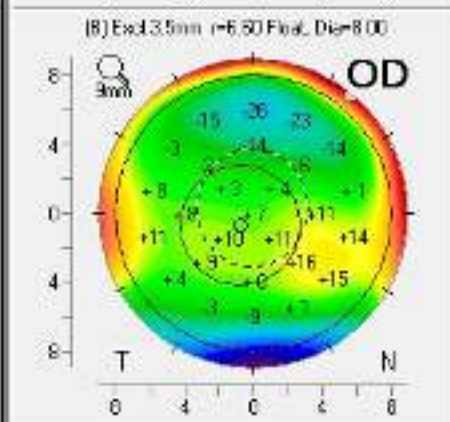
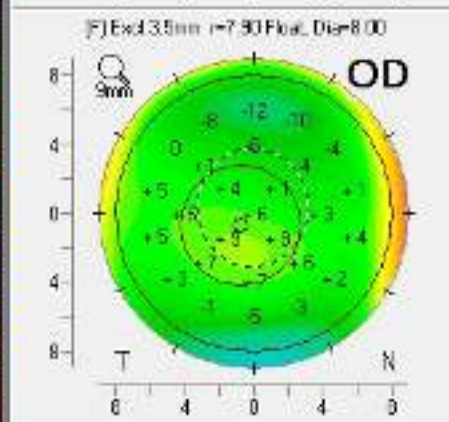
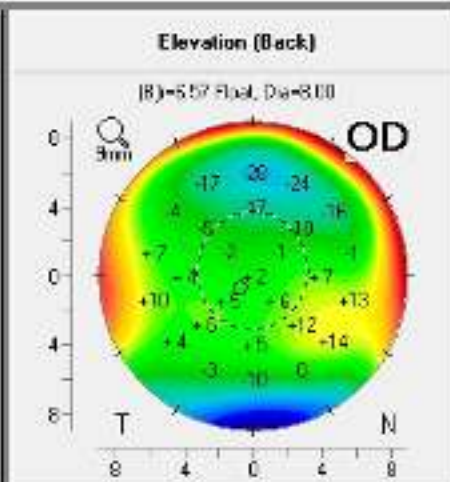
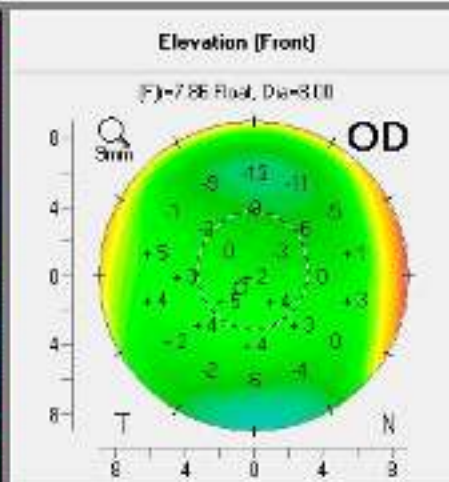
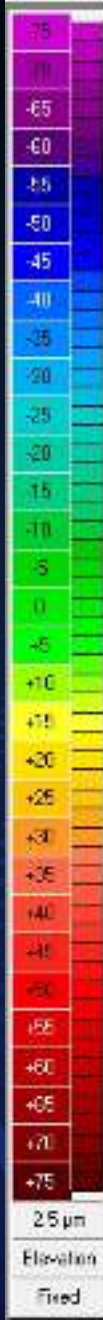
Indices (in 8mm zone)

ISV: 23 IHA: 10.3
 IVA: 0.26 IHD: 0.021
 KJ: 1.07 RMin: 7.54
 CKI: 1.00 TKC: -
 KJSA: 1.644 IS: 1.59



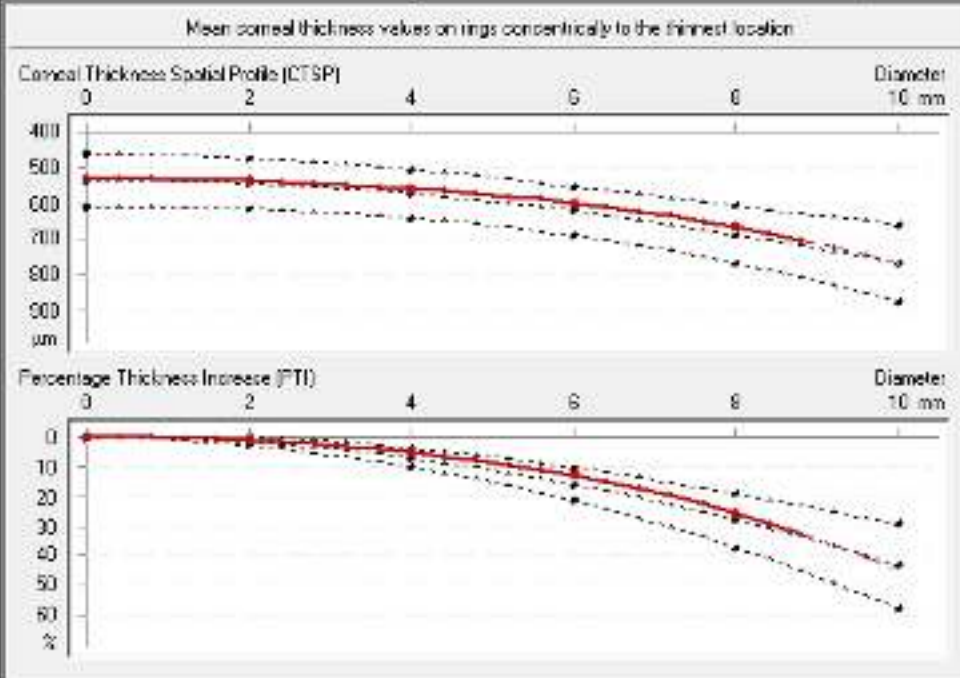
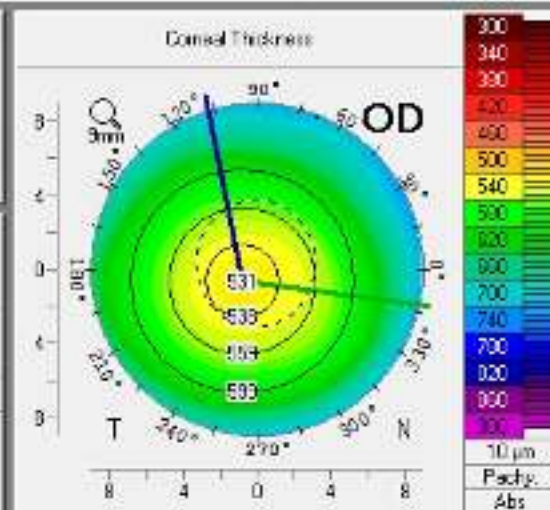
OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.22.03



Last Name: [Redacted]
First Name: [Redacted]
ID: [Redacted]
Date of Birth: 04/04/2001 Eye: Right
Exam Date: 04/12/2021 Time: 12:41:04
Exam Info: [Redacted]

K1:	42.6D	Axis:	165.0°
K2:	43.6D	D-vol:	-0.36
KMax:	44.8D	QS:	OK
Pachy Thin Locat:		O	531µm
Dist. Apax-Thin Loc:		IT	0.53mm
F.Ela.Thc:	4µm	B.Ela.Thc:	3µm
Progression Index:			
Min:	0.54	Max:	0.83
Avg:	0.77	ARTmax:	595



Reference Database: ☒ Myopic/Normal ☐ Hyperopic/Mixed Dyl ☐ Lenticular

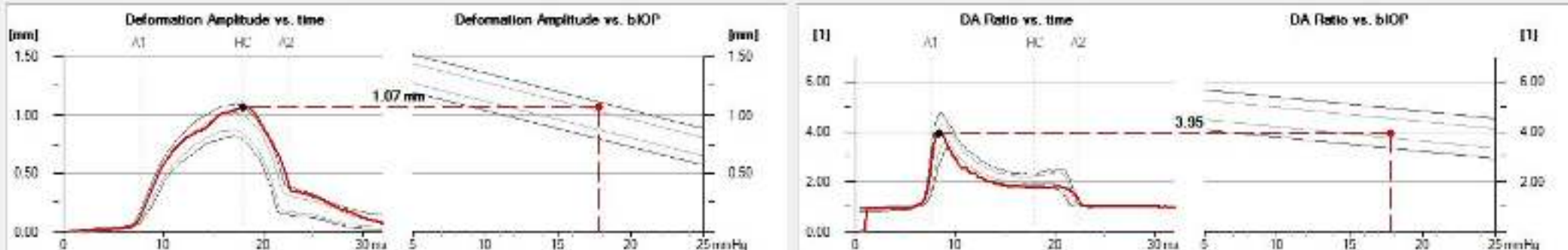
Dt:	1.11	Db:	0.22	Dp:	-0.91	Dc:	0.19	Da:	-0.98	D:	0.46
-----	------	-----	------	-----	-------	-----	------	-----	-------	----	------

OCULUS Corvis® ST - Vinciguerra Screening Report

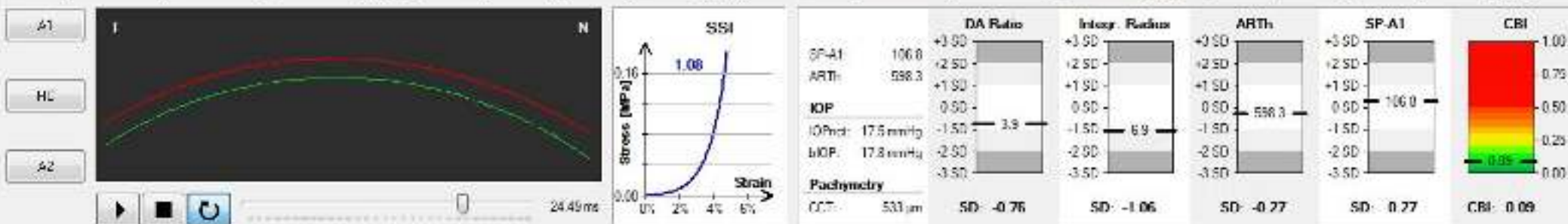
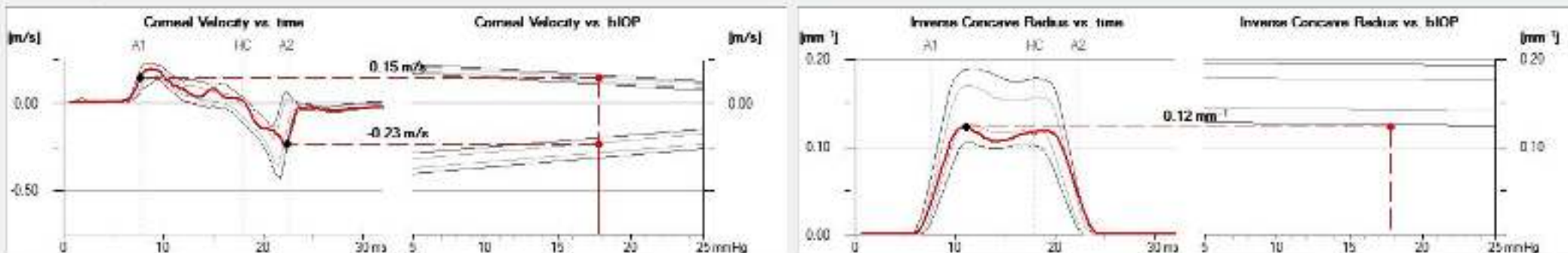
1.6/2031

Name: [REDACTED] ID: [REDACTED] Date of birth: 04.04.2001 Age: 20
Exam. Date: [REDACTED] Time: 12:54:39 Eye: Right (OD)
Info: OS: OK

Deformation Amplitude [mm] Deformation Amplitude Ratio (2mm)



Corneal Velocity [m/s] Inverse Corneal Radius [mm⁻¹]

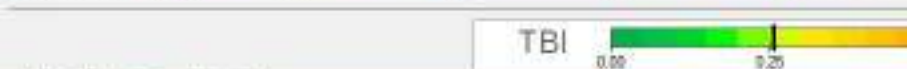
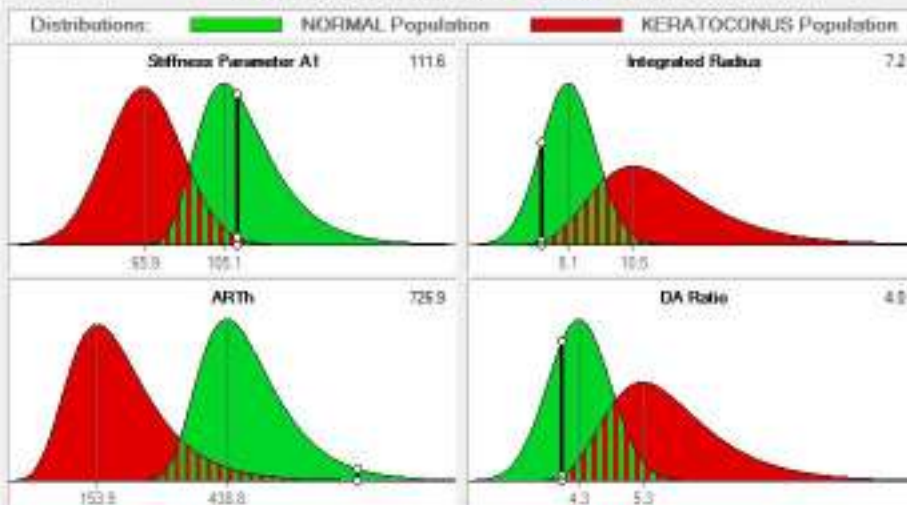


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

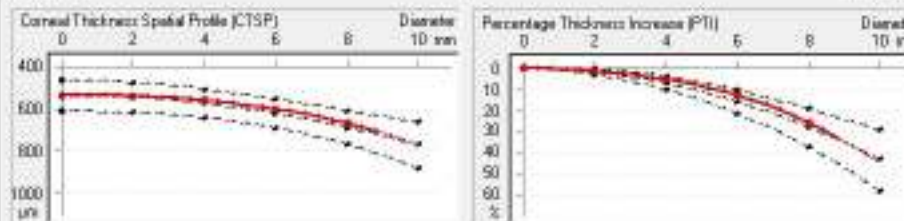
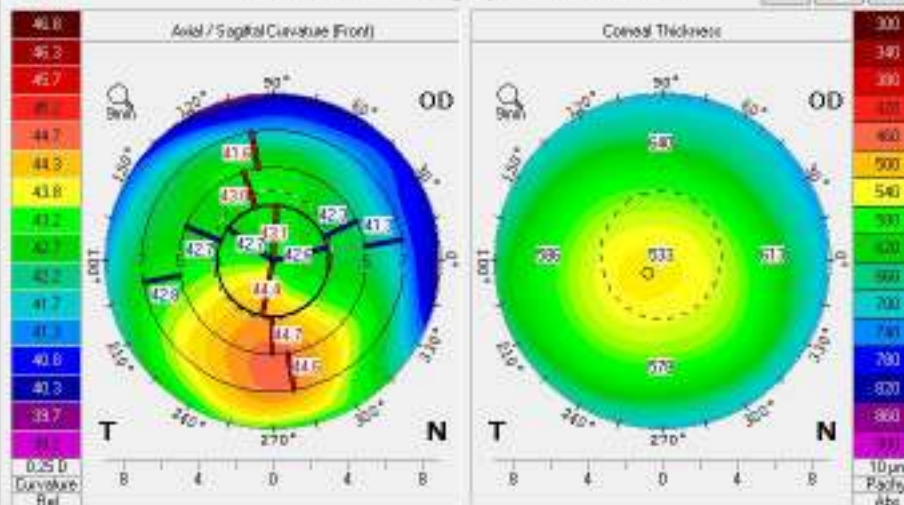
1.6.2021

Name: [REDACTED] ID: [REDACTED] Date of birth: 04.04.2001 Age: 20
 Exam. Date: [REDACTED] Time: 12:53:22 Eye: Right (OD) Exam. Date: 12.04.2021 Time: 12:41:04 Eye: Right (OD)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



Oculus Optikgeräte GmbH
 Münchholzhauser Str. 29

35582 Wetzlar

Tel. (0641) 20 05-0
 Fax. (0641) 20 05-255

www.oculus.de



RIO 2025

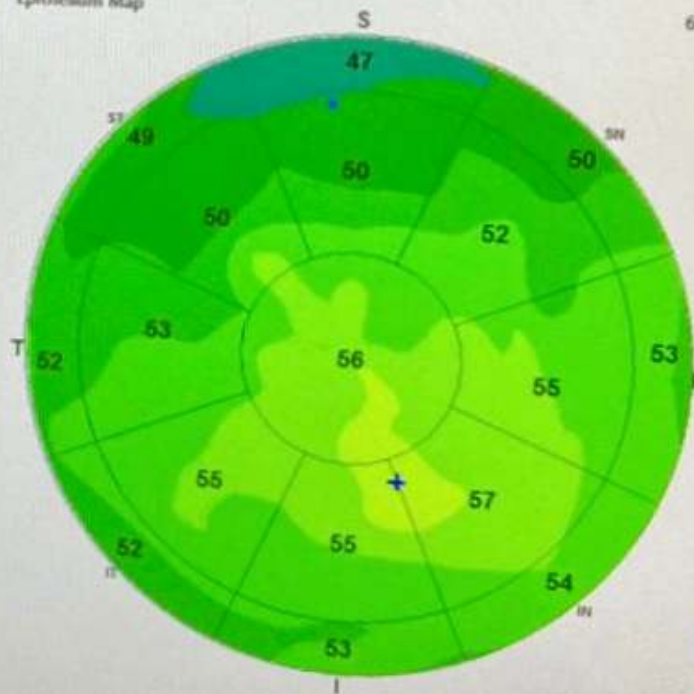


Map Diameters
7.0 / 5.0 / 6.0 mm

Pachymetry Map



6mm Epithelium Map



Stroma Map

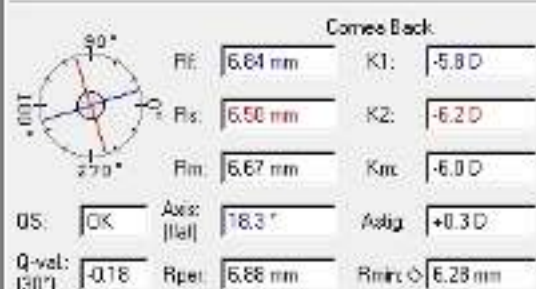
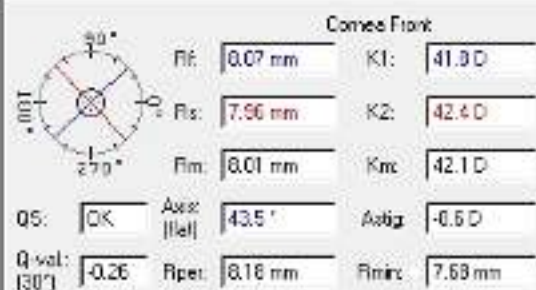


Another inferior steep area

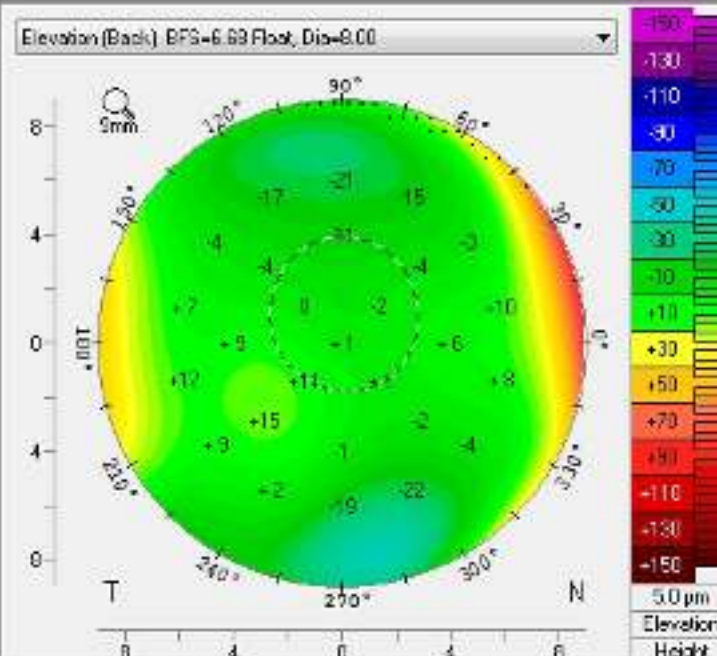
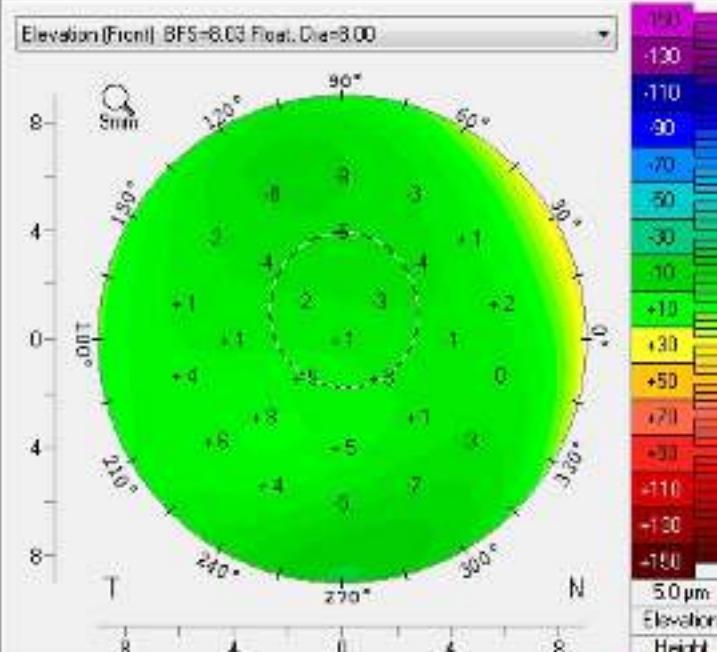
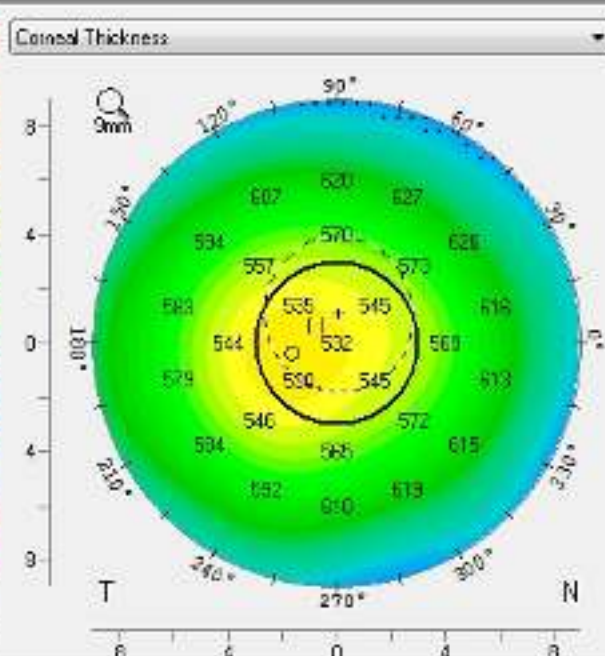
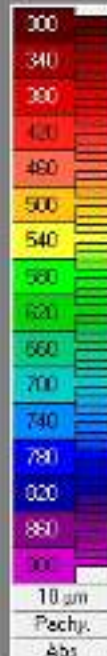
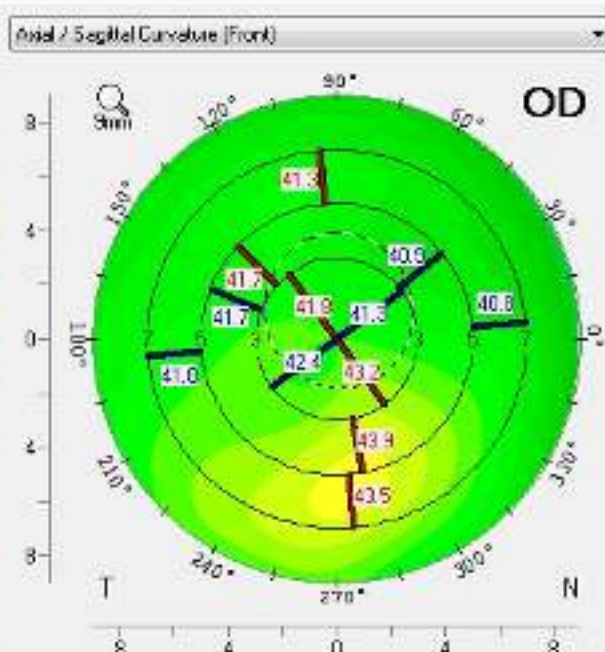
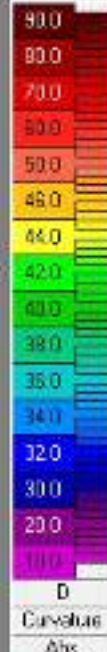
OCULUS - PENTACAM 4 Maps Selectable

1.22/09

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/09/1979 Eye: Right
 Exam Date: 13/02/2023 Time: 14:11:20
 Exam Info:



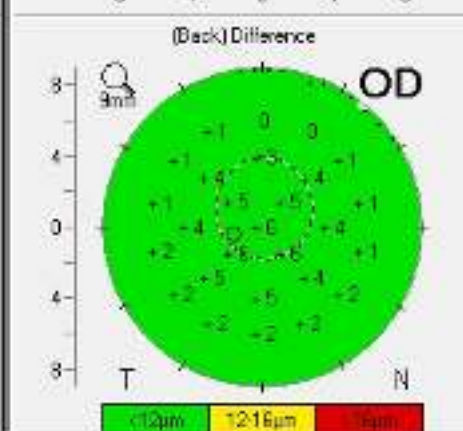
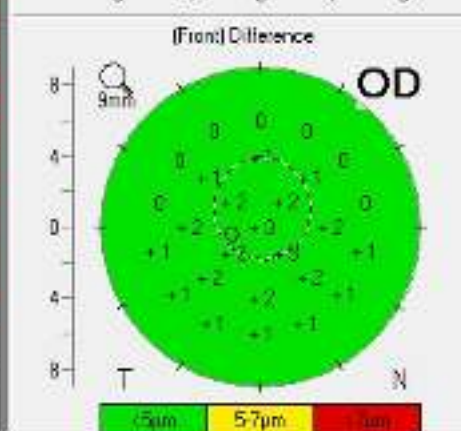
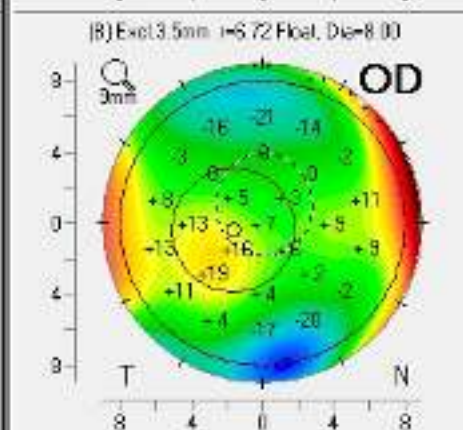
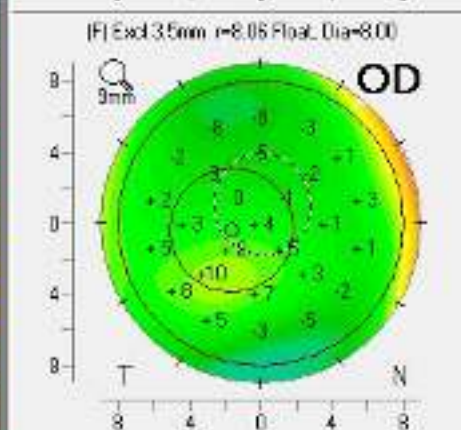
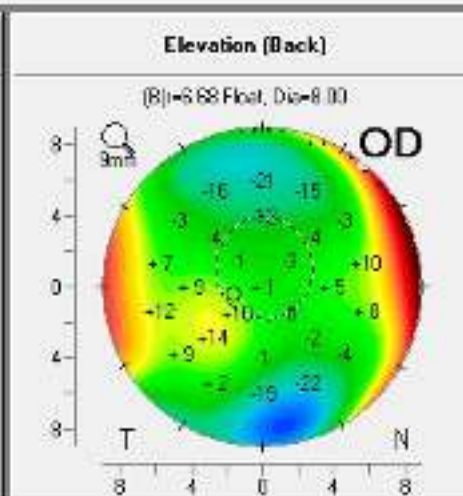
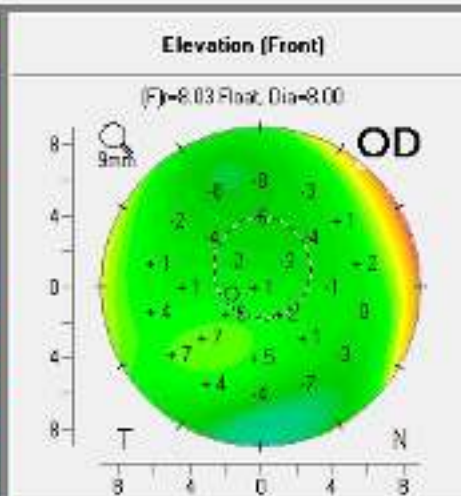
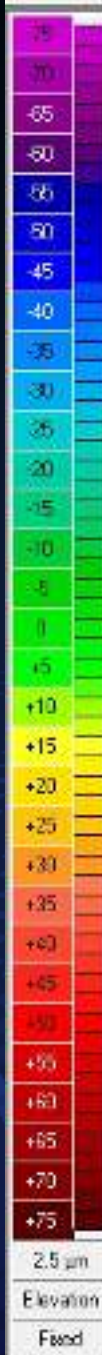
Pachy:		x(mm)	y(mm)
Pupil Center:	+ 536 µm	+0.05	+0.53
Pachy Apex:	: 532 µm	0.00	0.00
Thinnest Locat.:	○ 527 µm	-0.02	-0.21
K Max (Front):	43.9 D	+0.27	-2.73
Cornea Volume:	57.6 mm³	HW/TW:	12.0 mm
Chamber Volume:	135 mm³	Angle:	34.0°
A.C. Depth (Int.):	2.57 mm	Pupil Dia:	2.80 mm
Enter IOP: IOP(Sund):	-0.7 mmHg	Lens Th:	



2025

OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.22/09



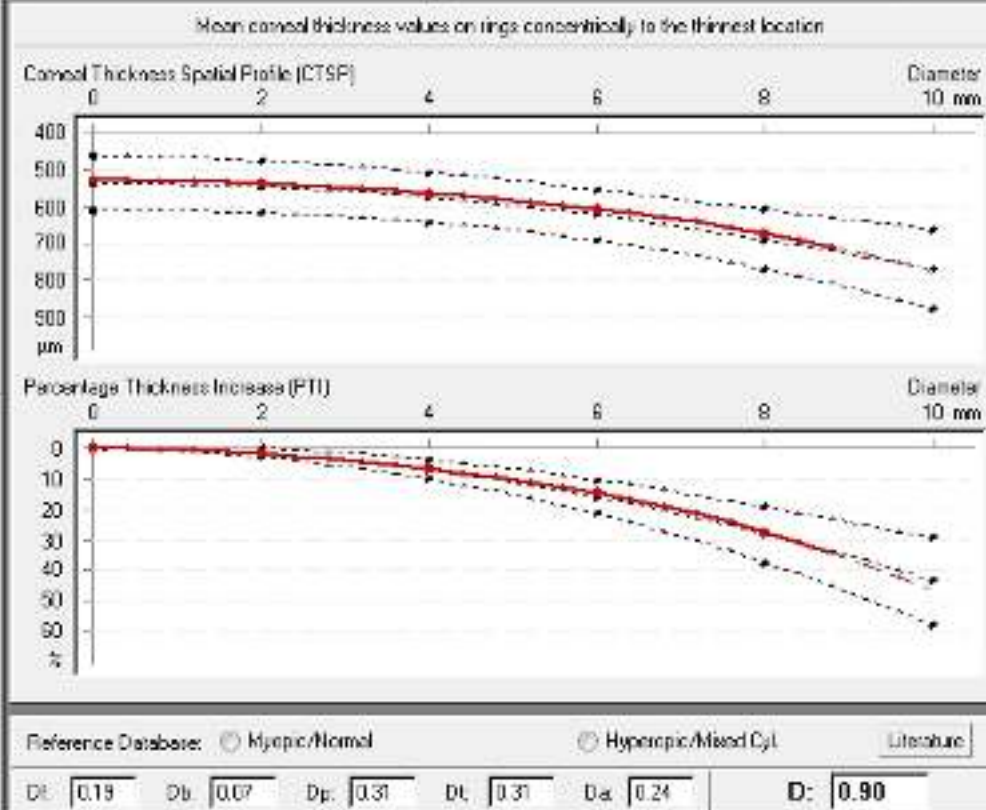
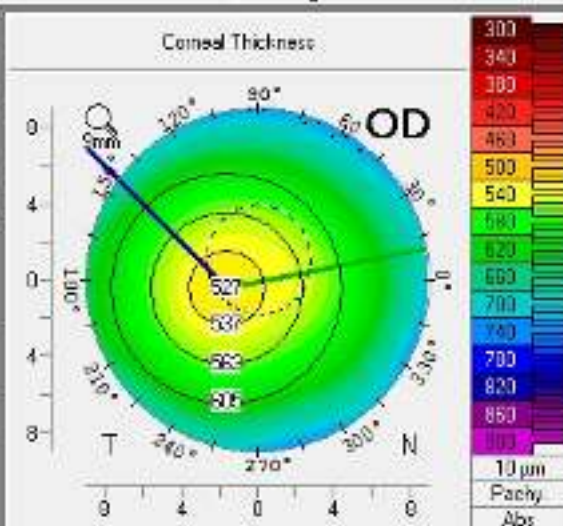
Last Name: [REDACTED]
 First Name: [REDACTED]
 ID: [REDACTED]
 Date of Birth: 12/03/1979 Eye: Right
 Exam Date: 13/02/2023 Time: 14:11:20
 Exam Info: [REDACTED]

K1:	41.80	Axis:	43.5°
K2:	42.40	U-val:	-0.26
KMax:	43.50	OS:	OK

Pachy Thin Locat.: ☐ 527µm
 Dist Apex Thin Loc.: ☐ IT 0.65mm

F Ele Th: 2µm B Ele Th: 9µm

Progression Index
 Min: 0.67 Max: 1.14
 Avg: 0.55 APTmax: 462



OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

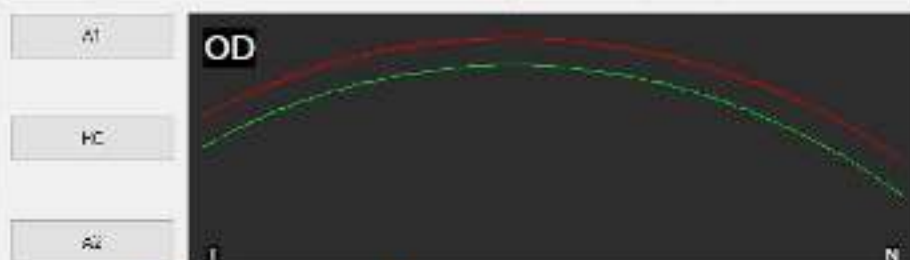
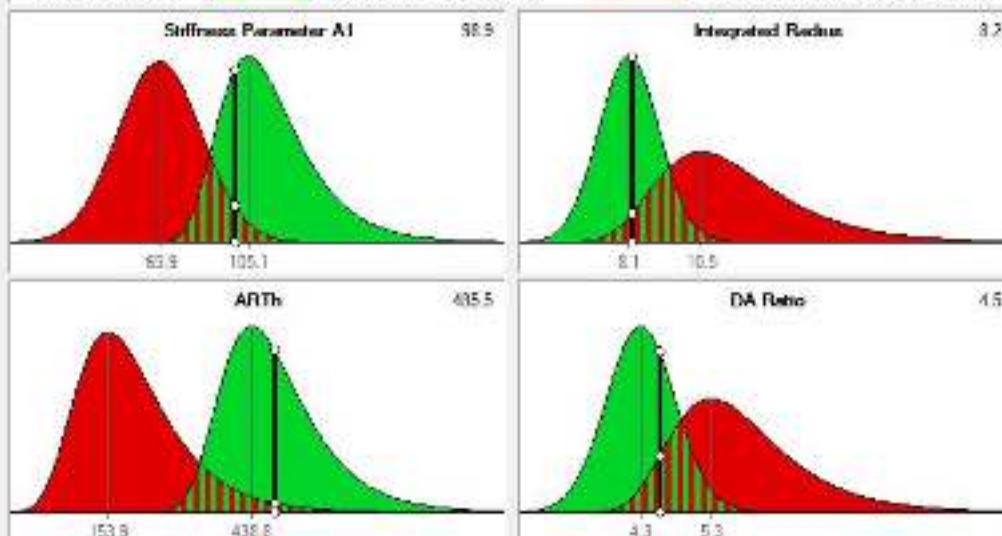
1/2/4/2

Patient Examination Display Export Settings

E-Mail AVI JPG

Name:		ID:	vac	Date of birth:	12.03.1979	Age:	43
Exam. Date:		Time:	11.03.39	Eye:	Right (OD)	Exam. Date:	22.11.2022
Info:		OS:	OK	Time:	11.01.54	Eye:	Right (OD)
				Info:		OS:	OK

Corvis ST - Biomechanical Assessment

Distributions: ■ NORMAL Population ■ KERATOCONUS Population


▶ ■ ↺ 20.87 ms

CBI 0.60

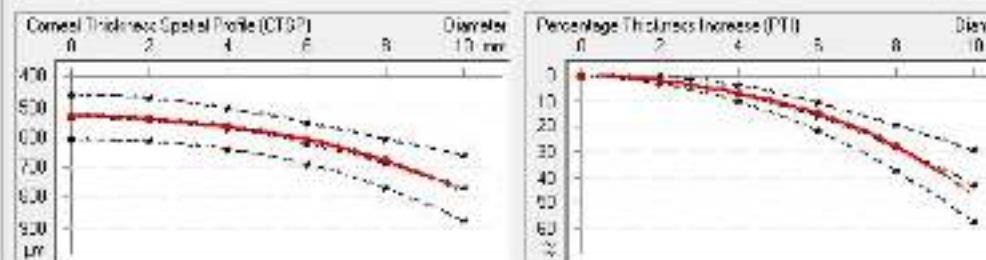
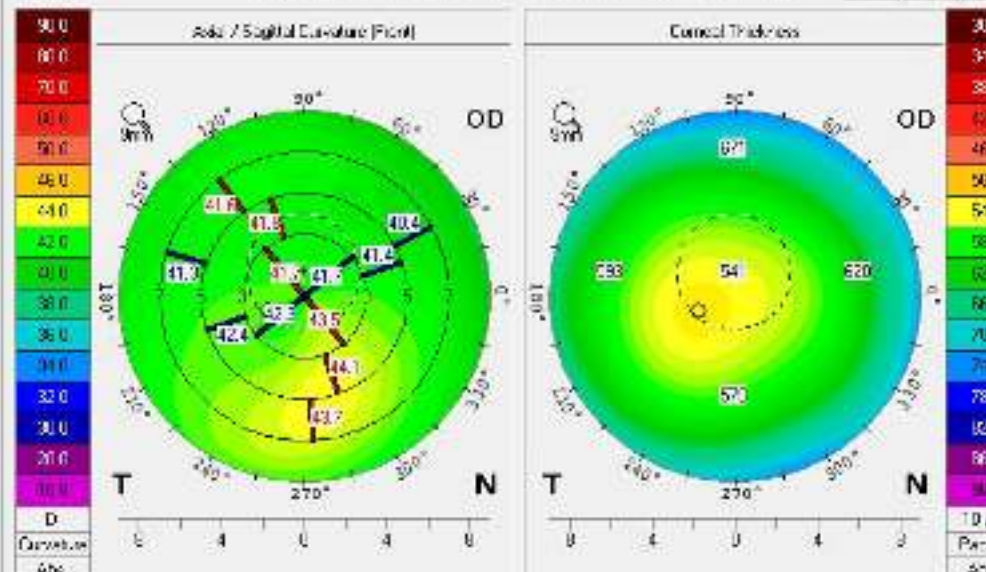
Reference: ☐ Ethnicity ☒ Global database ☐ Treatment ☐ Units

Oculus Optikgeräte GmbH
Münchholzhäuser Str. 29

TBI 0.61

35582 Wetzlar

Pentacam - Tomographic Assessment



K Max.: 44.1 D IS Value: 1.30 PRF: 0.16 TMC: pos

BAD D 1.13

☒ myopic ☐ hyperopic

Tel: (0641) 20 05-0
Fax: (0641) 20 05-255

www.oculus.de

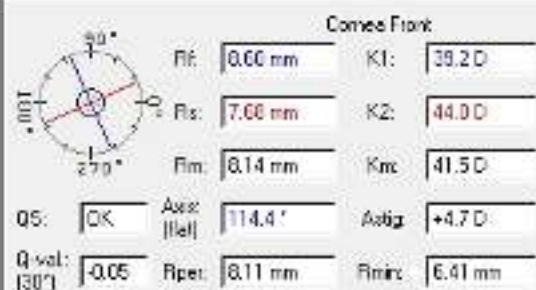


2025

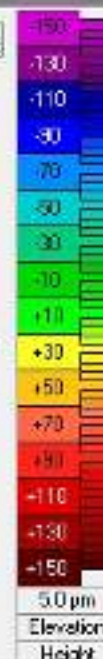
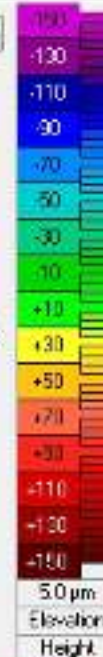
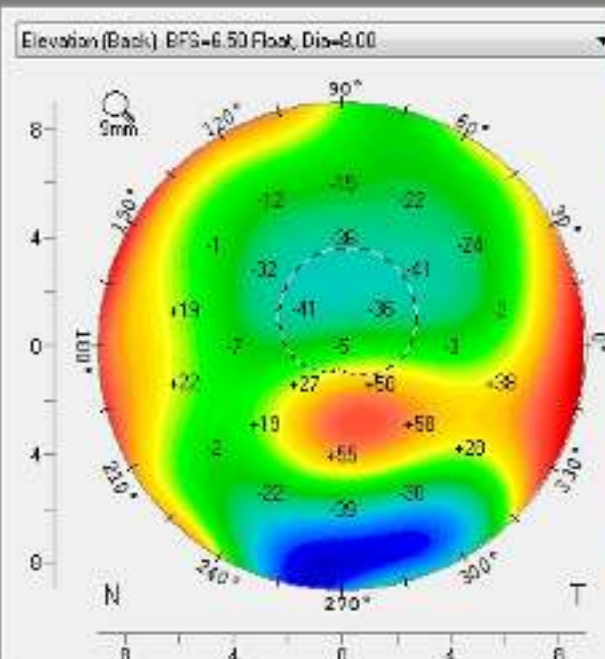
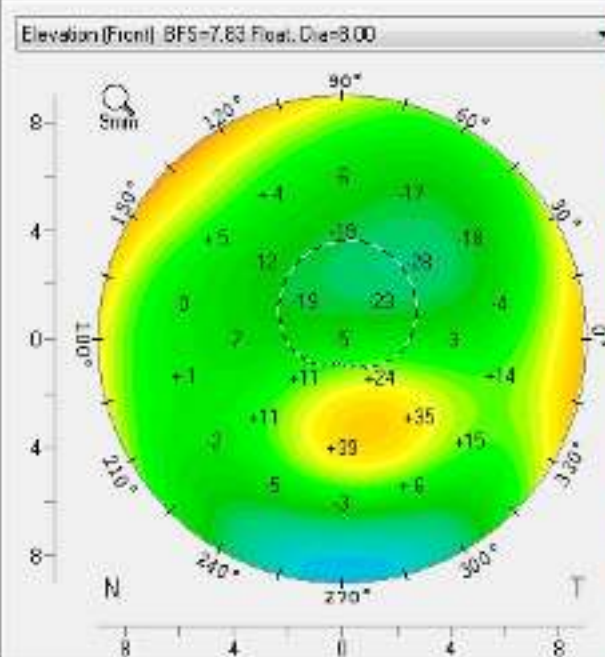
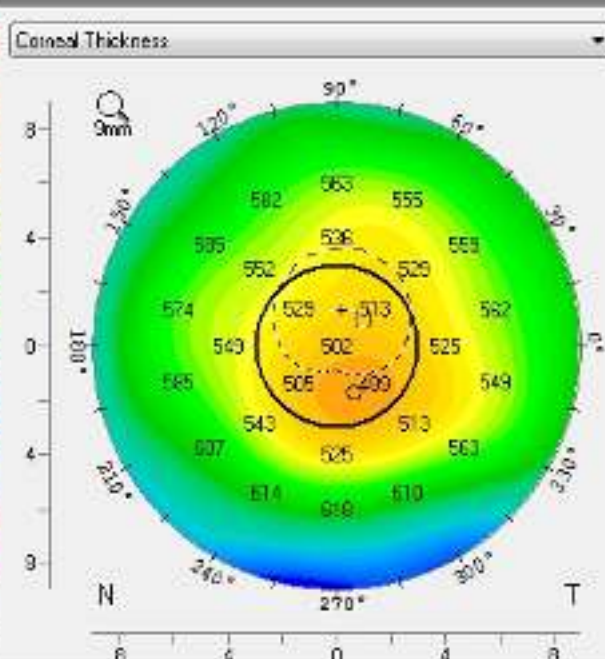
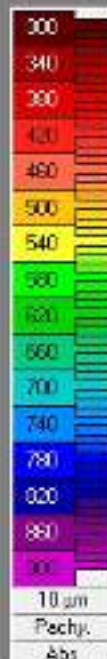
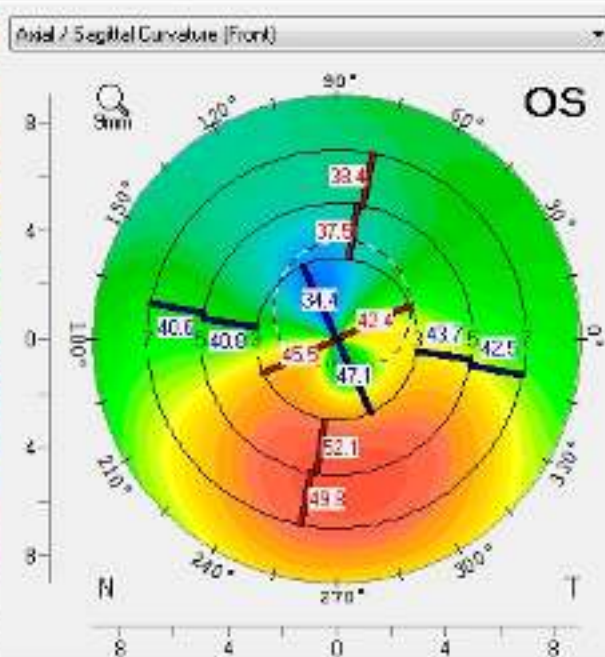
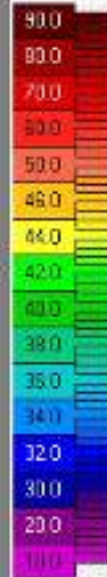
OCULUS - PENTACAM 4 Maps Selectable

1.22/09

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/09/1979 Eye: Left
 Exam Date: 22/11/2022 Time: 11:02:24
 Exam Info:



Pachy:	x(mm)	y(mm)
Pupil Center:	+ 515 µm	+0.11 +0.65
Pachy Apex:	502 µm	0.00 0.00
Thinnest Locat:	407 µm	+0.33 -0.05
K Max (Front):	52.7 D	+0.26 -2.62
Cornea Volume:	55.5 mm³	HW/TW: 12.2 mm
Chamber Volume:	137 mm³	Angle: 34.6°
A.C. Depth (Int.):	2.73 mm	Pupil Dia: 2.45 mm
Enter IOP: IOP(Sund):	-1.5 mmHg	Lens Th:



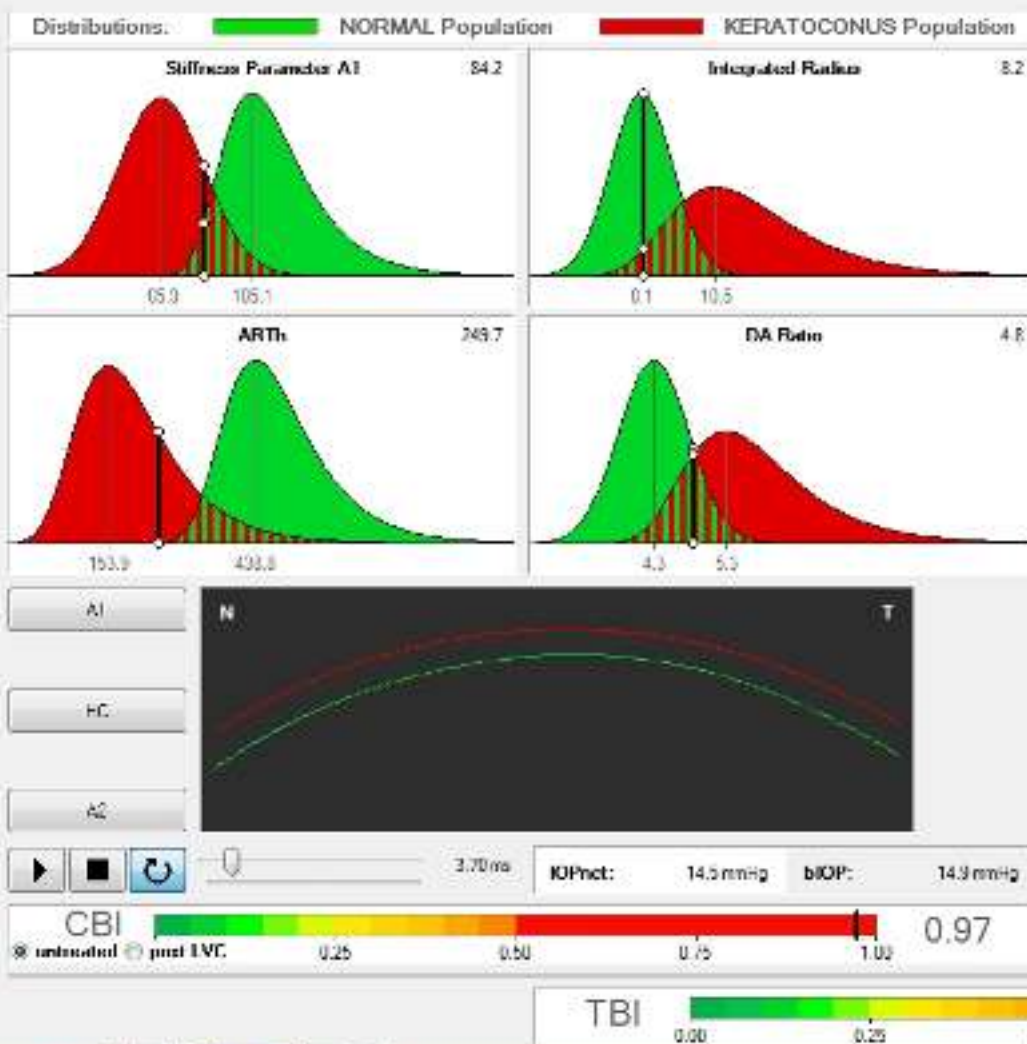
2025

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

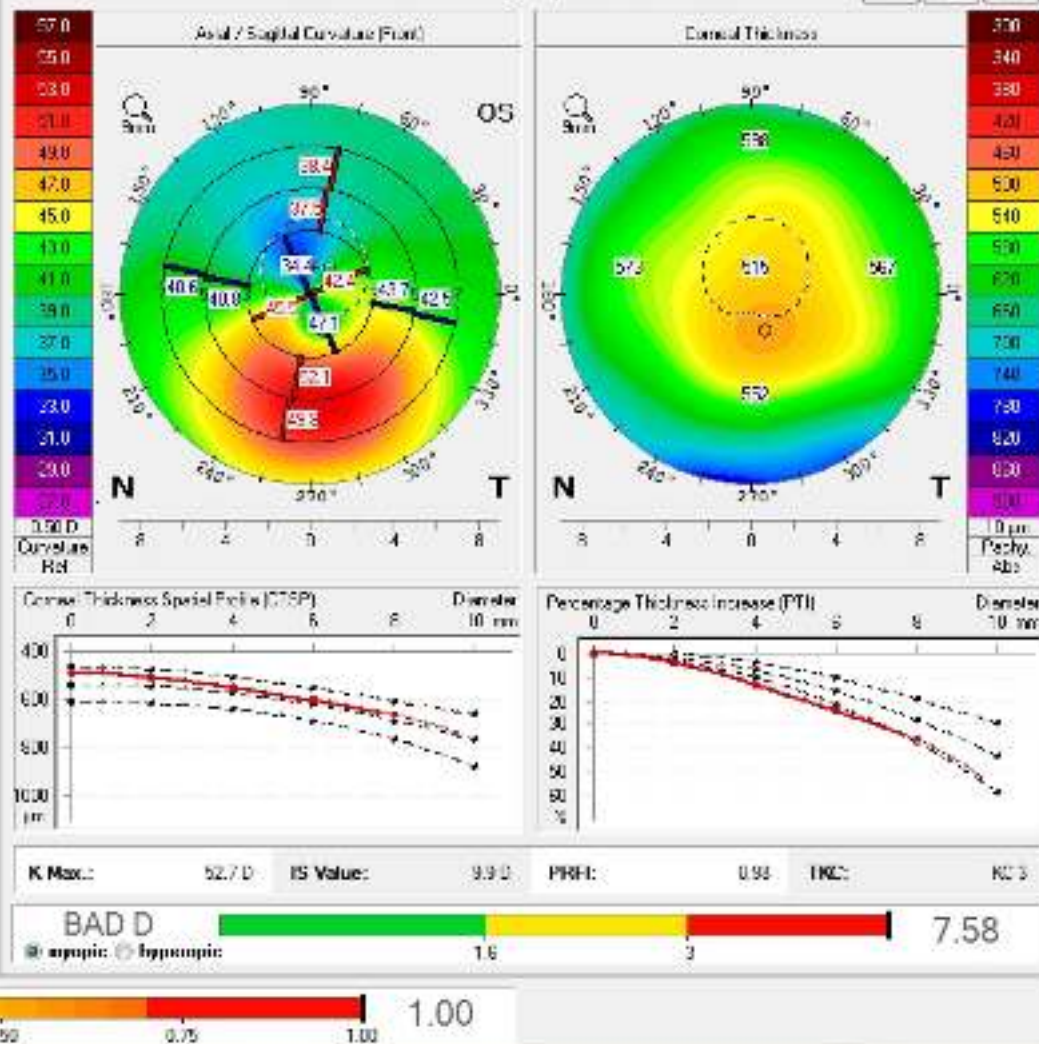
1.9.2021

Name: [REDACTED] ID: [REDACTED] Date of birth: 12.03.1979 Age: 43
 Exam. Date: 22.11.2022 Time: 11:04:53 Eye: Left (OS) Exam. Date: 22.11.2022 Time: 11:02:34 Eye: Left (OS)
 Info: QS: OK Info: QS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment

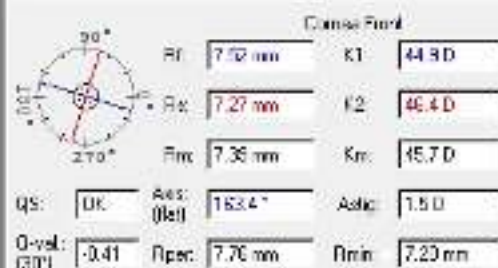


Thin Cornea

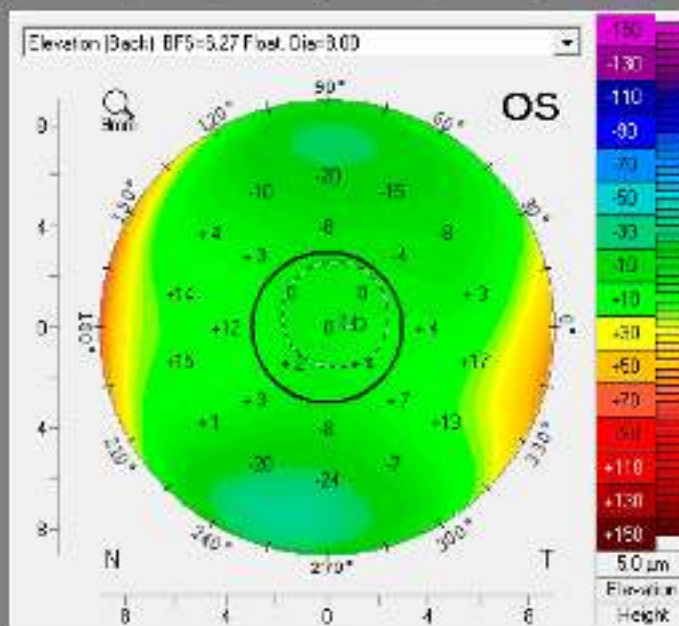
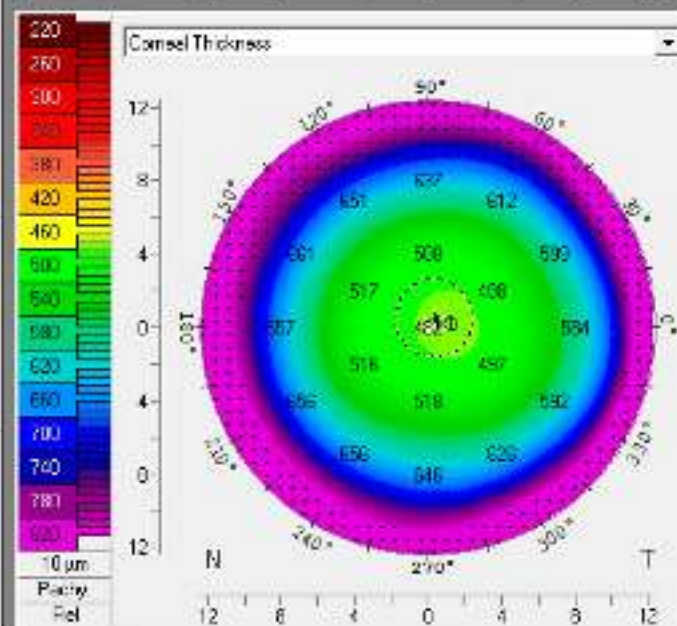
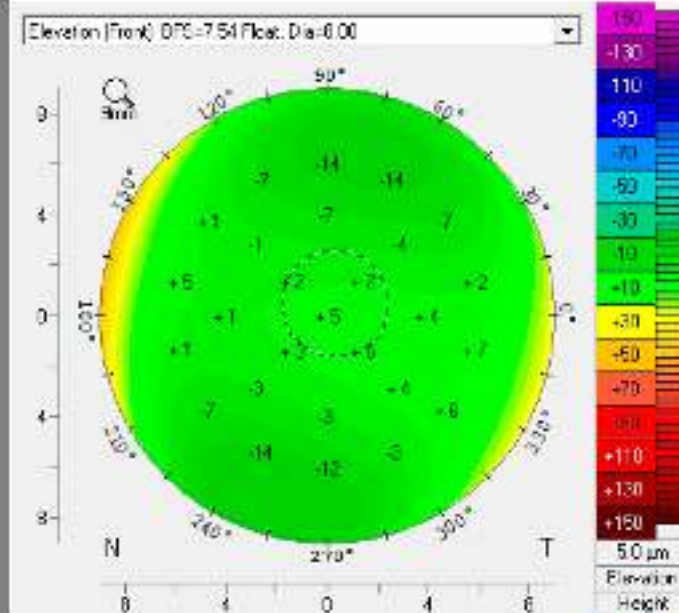
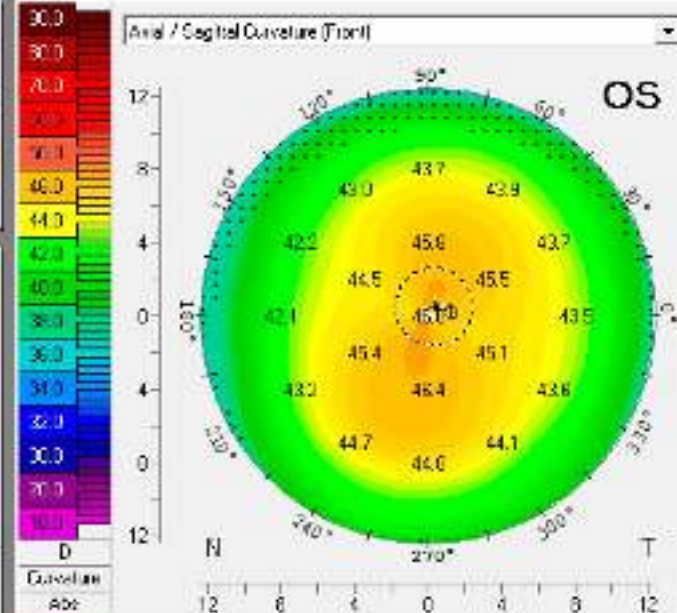
OCULUS - PENTACAM 4 Maps Selectable

1.2515

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 08/30/2001 Eye: Left
 Exam Date: 09/04/2023 Time: 14:53:30
 Exam Info:



Pupil Center	+ 481 μm	x(mm)	+0.17	y(mm)	-0.25
Pachy Vertex N	482 μm		0.00		0.00
Thinnest Local	◇ 470 μm		+0.02		-0.07
K Max (Front)	45.9 D		-0.07		-0.26
Cornea Volume	55.5 mm³	HWTW	11.9 mm		
Chamber Volume	101 mm³	Angle	62.4°		
A. C. Depth (Ink)	0.15 mm	Pupil Dia	211 mm		
Enter IOP (IOPUnit)	+4.5 mmHg	Lens Thk			



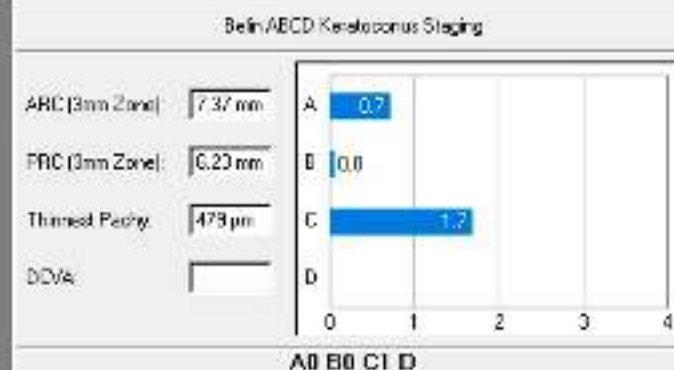
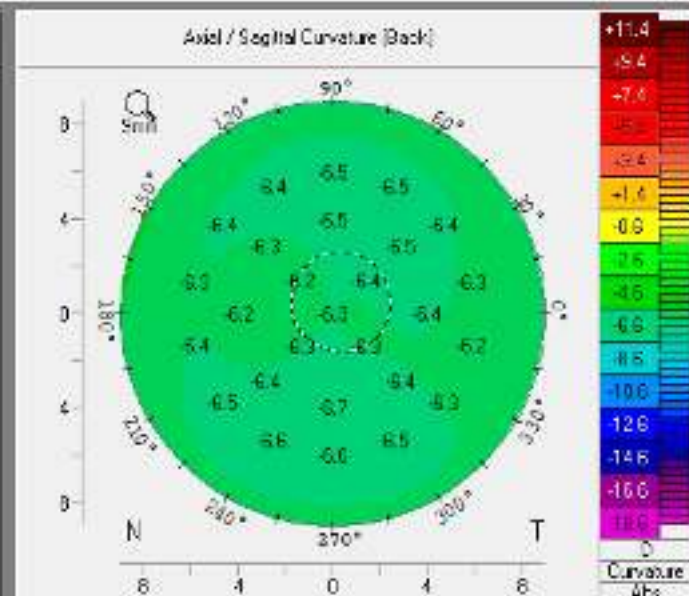
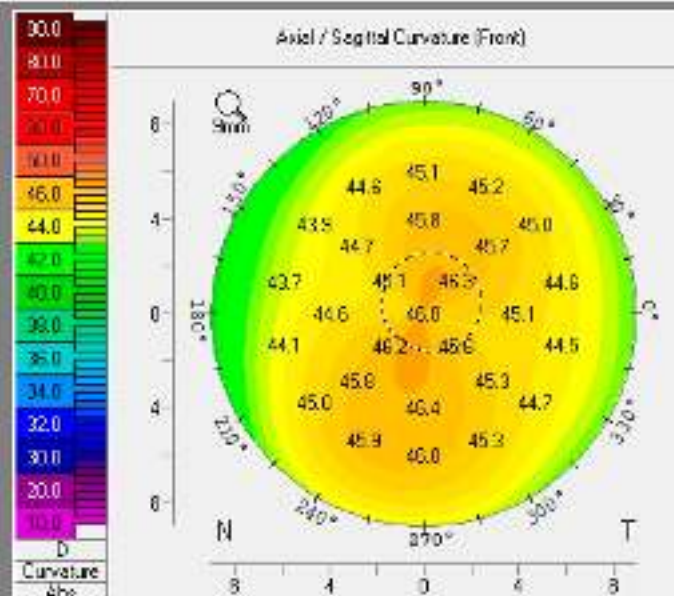
OCULUS - PENTACAM Topometric/KC-Staging

1.25/15

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 06/30/2001 Eye: Left
 Exam Date: 09/04/2023 Time: 14:50:30
 Exam Info:



Pupil Center:	+ 461 μm	+0.17	+0.25
Pachy Vertex N:	- 482 μm	0.00	0.00
Thinnest Locat:	○ 479 μm	+0.62	+0.07
K Max (Front):	- 46.3 D	-0.07	-0.28
Cornea Volume:	58.5 mm ³	Hw Dcr:	11.5 mm
Chamber Volume:	191 mm ³	Angle:	42.4 °
A. C. Depth (Int.):	3.15 mm	Pupil Dia:	2.11 mm
IOP(Sum):	-4.5 mmHg	Lens Th:	



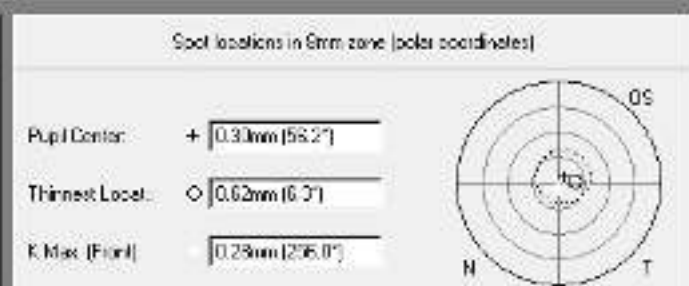
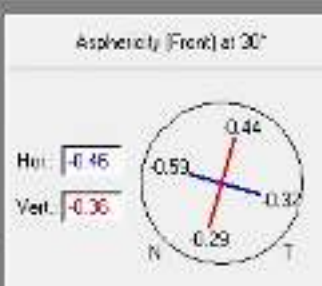
Axis/Sagittal Curv. (Front) of Major Meridians

(mm)	20°	25°	30°	35°	40°
Hos	7.68	7.62	8.07	8.47	8.64
Temp	7.55	7.62	7.74	7.95	8.32
Int	7.30	7.36	7.48	7.67	7.93
Sup	7.41	7.51	7.65	7.66	8.25
Mean	7.40	7.50	7.73	7.69	8.35

Front:
☐ Asphericity
☒ Axis/Sag Curve
 Back:
☐ Asphericity
☐ Axis/Sag Curve

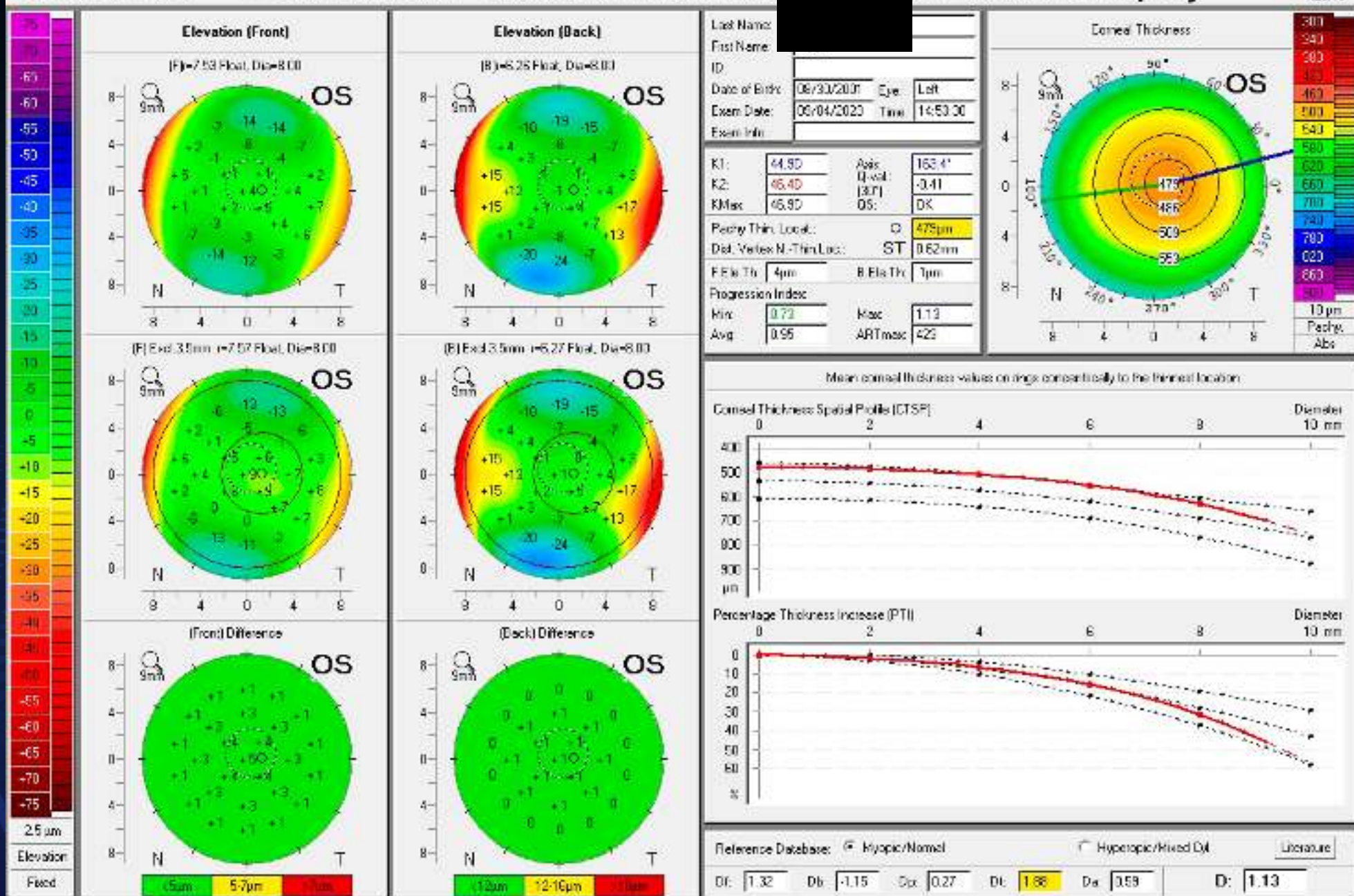
Indices (in 9mm zone)

ISV	20	IHA	5.4
IVA	0.11	IHD	0.001
KI	1.04	RMix	7.20
OKI	1.01	TKC	-
KISA	4.190	IS	0.53



OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.25x15

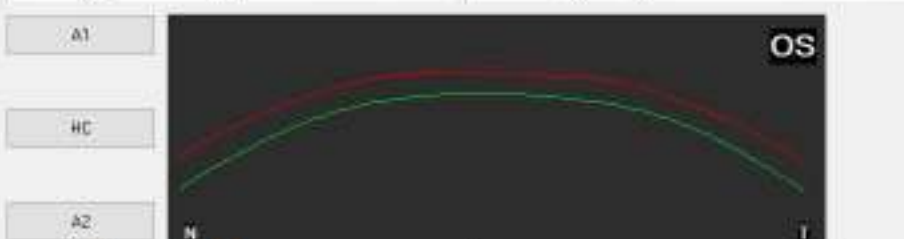
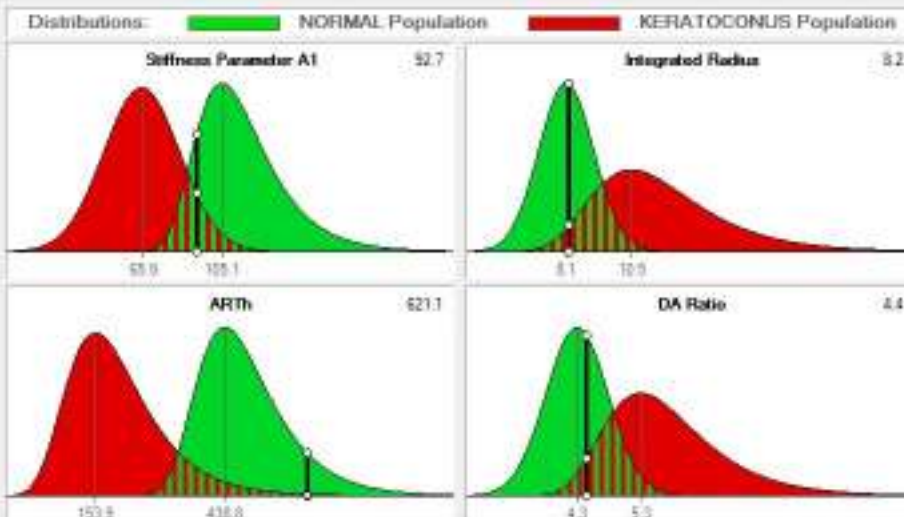


OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

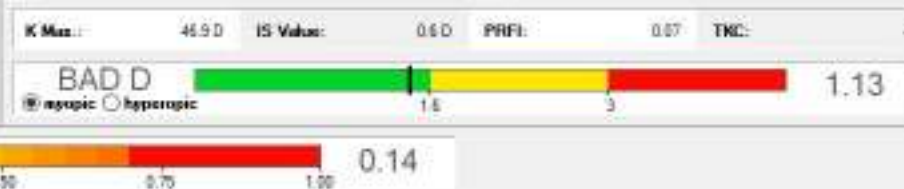
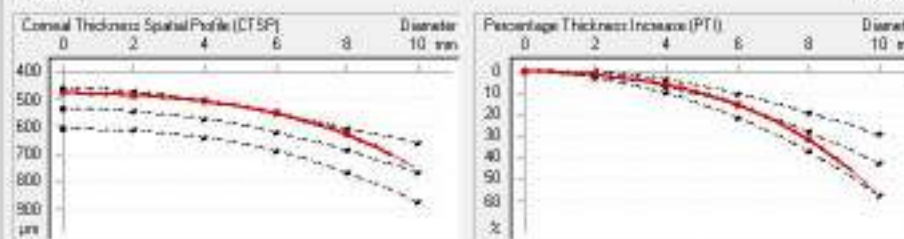
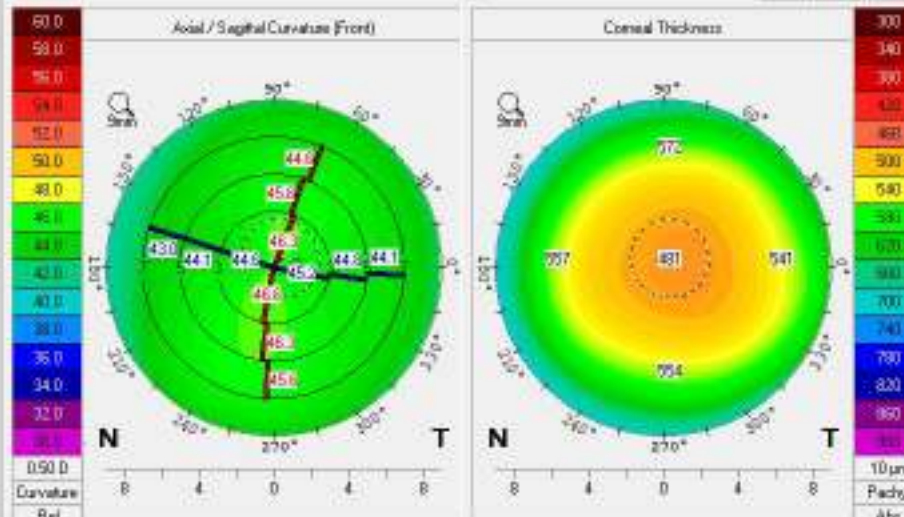
162503

Name: [REDACTED] ID: [REDACTED] Date of birth: 30.08.2001 Age: 22
 Exam. Date: 04.09.2023 Time: 14:55:06 Eye: Left (OS) Exam. Date: 04.09.2023 Time: 14:53:30 Eye: Left (OS)
 Info: OS: OK Info: OS: OK

Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



Oculus Optikgeräte GmbH
 Münchholzhauser Str. 29

35582 Wetzlar

Tel: (0641) 20 05-0
 Fax: (0641) 20 05-255

www.oculus.de



2025

Thin Cornea

1.30:04

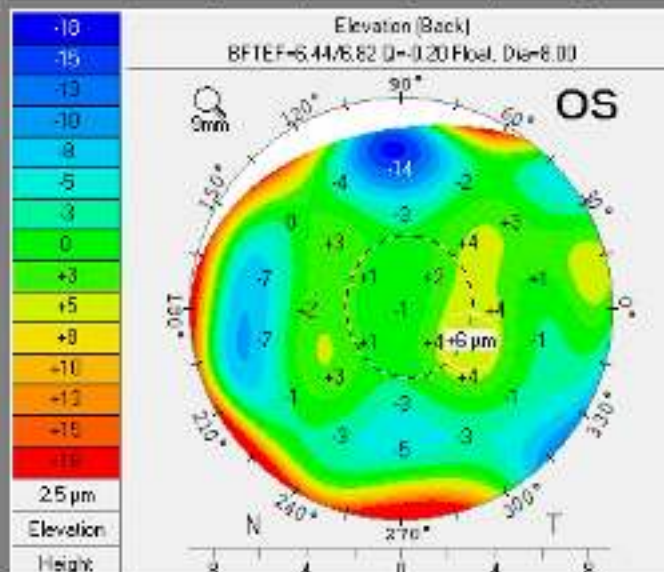
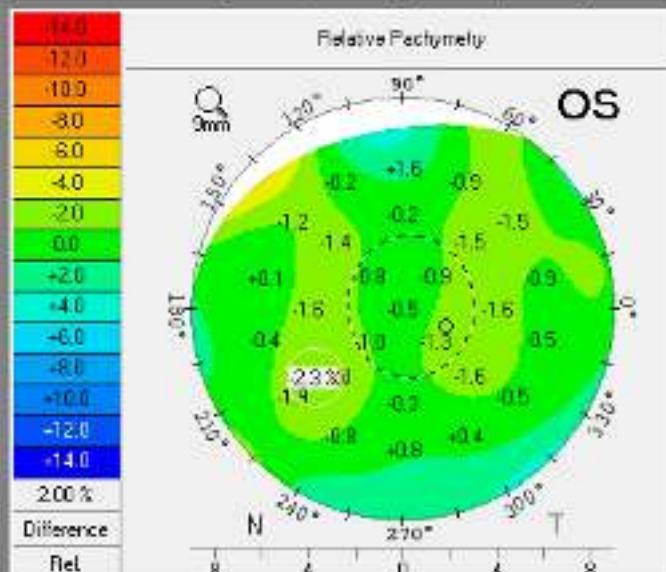
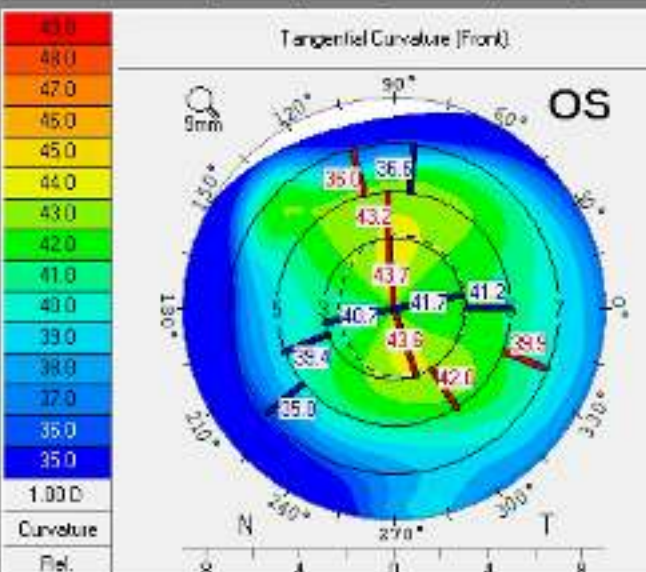
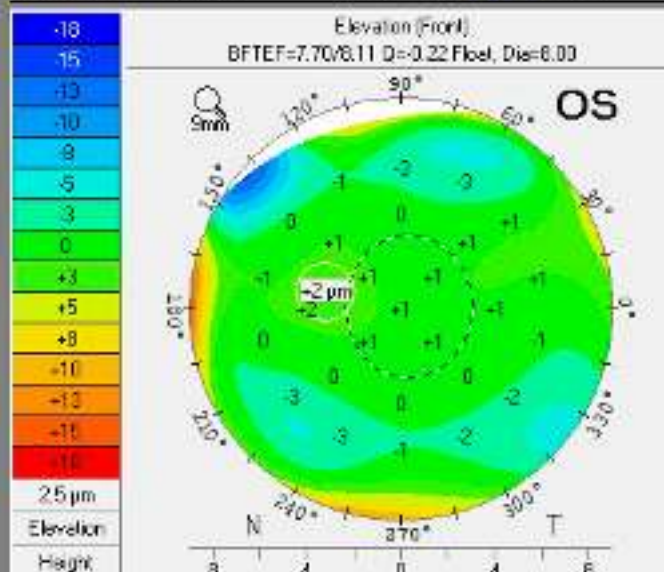
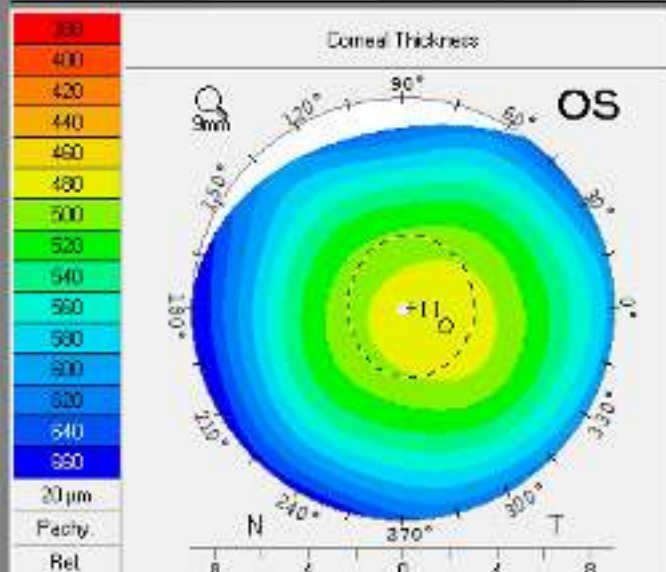
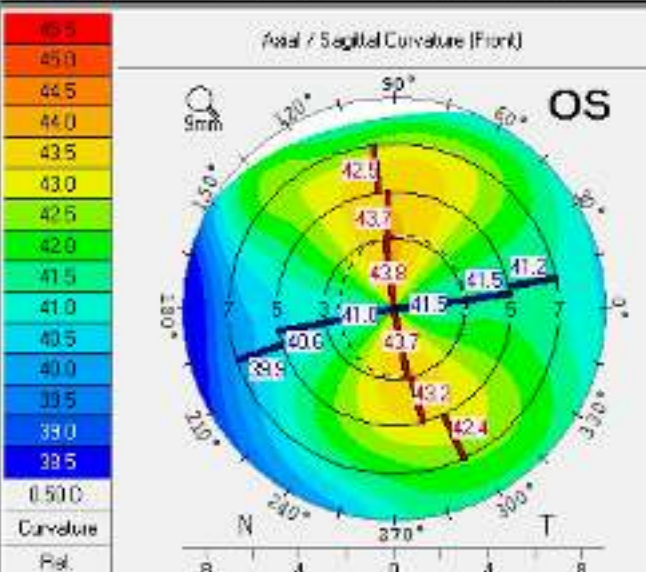
OCULUS - PENTACAM Holladay Report

1.30/04

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 02/01/1987 Eye: Left
 Exam Date: 01/27/2025 Time: 10:48:35

Equiv K-Readings 65 (4.5mm Zone)				Details
EKR65 Flat K1	41.73 D (8°)	D (5.0mm)	-0.33	
EKR65 Steep K2	44.03 D (96°)	Total SA: Z(4+6+0.0)	+0.106 μ	
EKR65 Mean:	42.98 D	Radial Ratio (B/F)	94.5 %	
Asig EKR65:	2.30 D	RMS HOA wE (6mm)	0.358 μ m	

Pupil Dia:	+ 2.05 mm	x 0.10 mm T	y: 0.05 mm S	(rel.VN)
HWTW:	() 11.9 mm	x 0.55 mm T	y: 0.01 mm S	(rel.VN)
Pachy Min:	475 μ m	x 0.50 mm T	y: 0.35 mm S	(rel.VN)
Est. Pta-Fish. K1	41.4 D	Rel. Change	-1.0 D	
ADD (Est.)	3.55 mm	Chord μ :	0.19 m	QS OK



2025

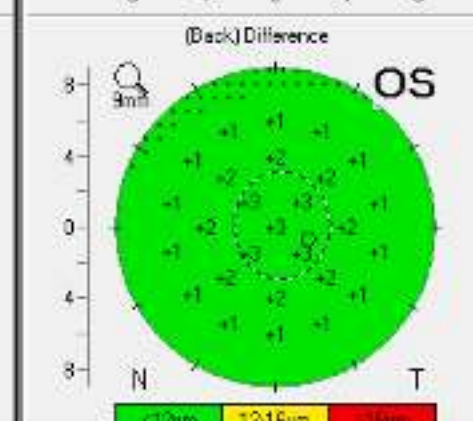
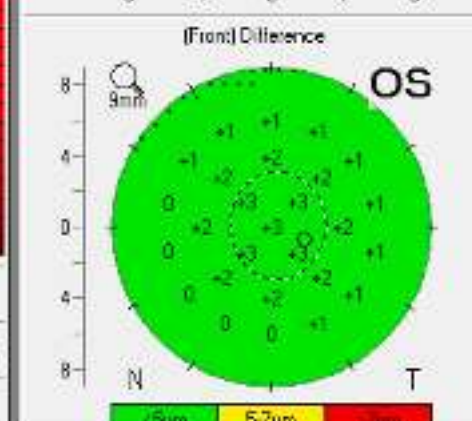
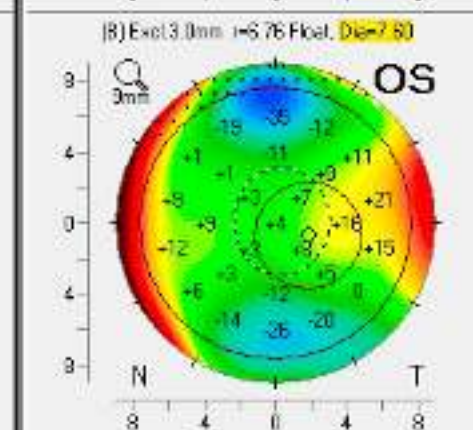
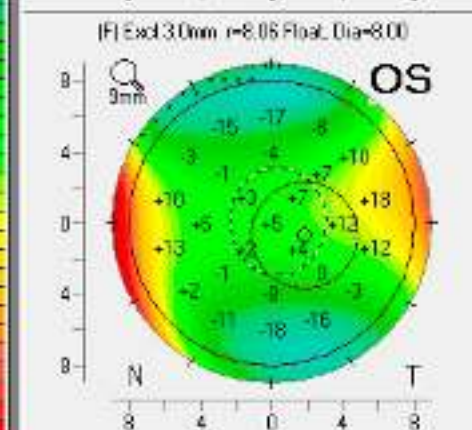
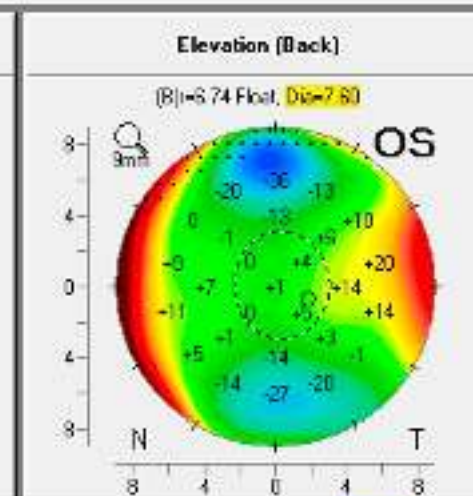
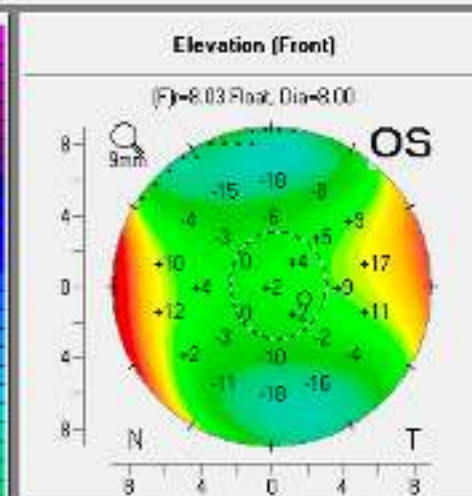
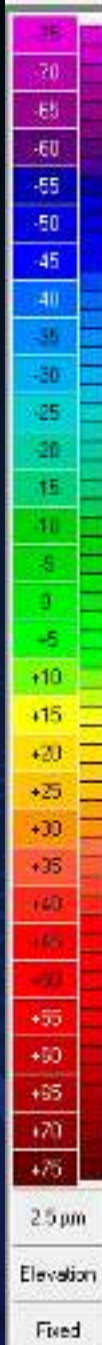
1.30:04

Spot locations in 8mm zone (polar coordinates)

Pupil Center:	+ 0.19mm (15.1°)
Thinnest Locat.:	○ 0.37mm (338.0°)
K Max (Front):	1.11mm (93.6°)

OCULUS - PENTACAM Belin/Ambrósio Enhanced Ectasia Display

1.30.04



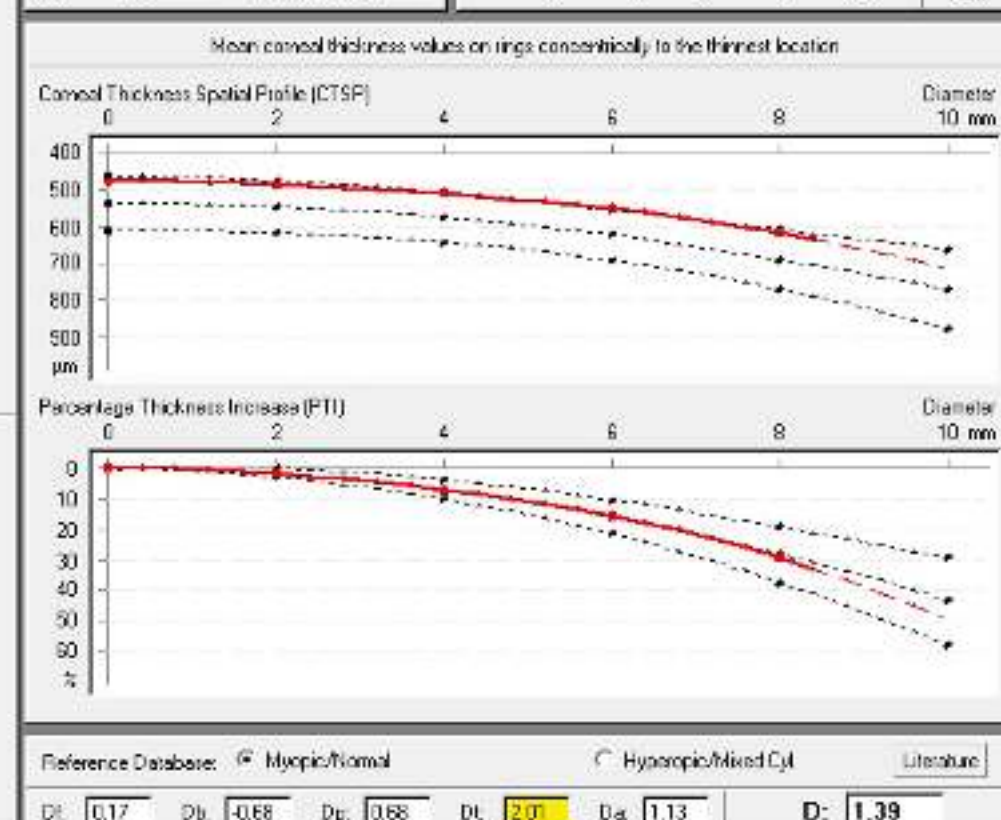
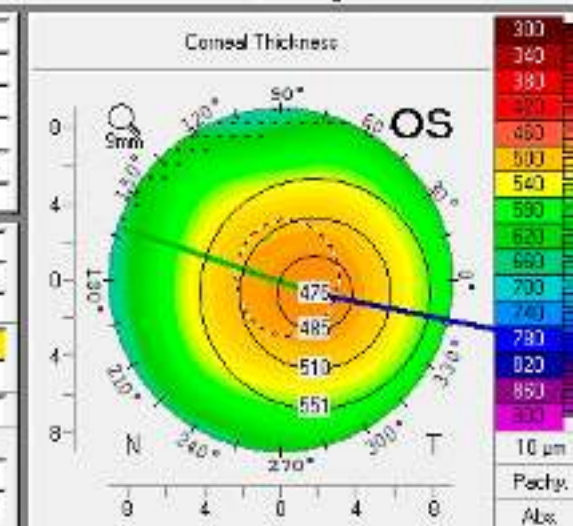
Last Name: [REDACTED]
 First Name: [REDACTED]
 ID: [REDACTED]
 Date of Birth: 02/01/1997 Eye: Left
 Exam Date: 01/27/2025 Time: 10:48:35
 Exam Info: [REDACTED]

K1: 41.20 Axis: 8.6°
 K2: 43.70 U-val: -0.47
 KMax: 43.80 OS OK

Pachy Thin Locat.: 476µm
 Dist. Vertex N. Thin Loc.: IT 0.97mm

F Ele. Th: 4µm B Ele. Th: 8µm

Progression Index
 Min: 0.70 Max: 1.31
 Avg: 1.01 APTmax: 364



OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

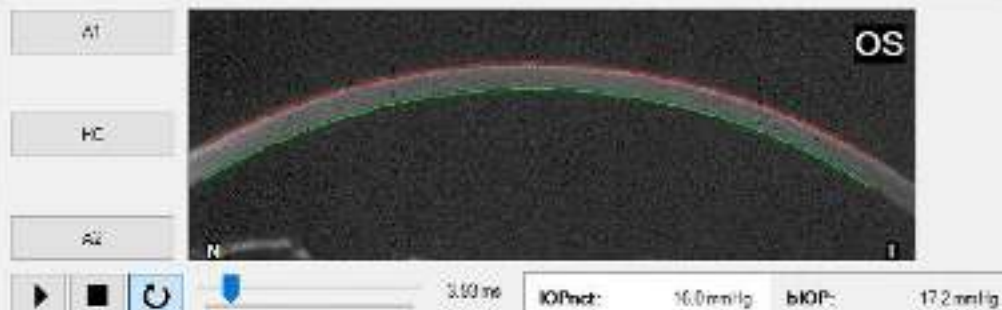
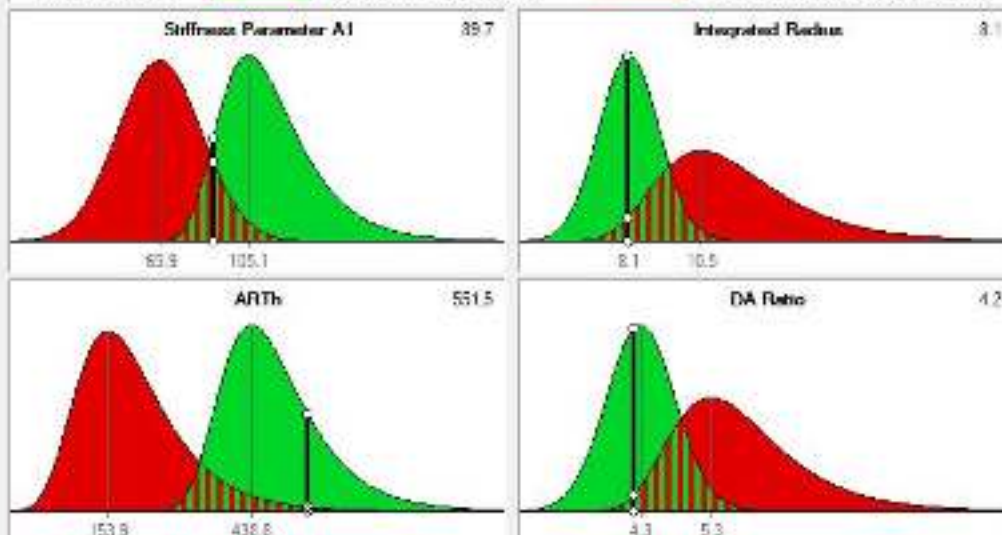
1.7.27.04

Patient Examination Display Export Settings External software

E-Mail AVI JGG

Name:		ID:		Date of birth:	01.02.1997	Age:	37
Exam. Date:		Time:	10:52:02	Exam. Date:	27.01.2025	Time:	10:48:35
Info:		Eye:	Left (OS)	Info:		Eye:	Left (OS)
		OS:	OK			OS:	OK

Corvis ST - Biomechanical Assessment

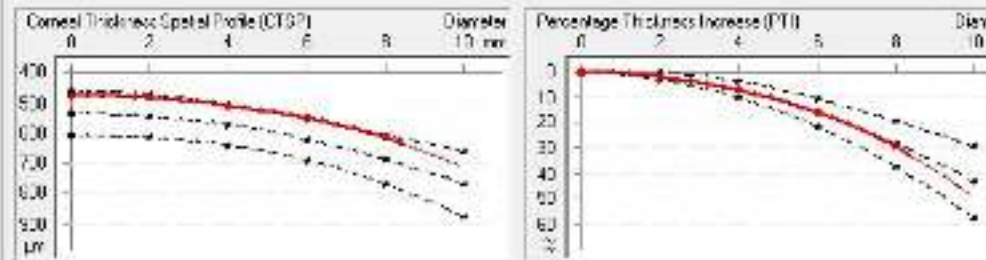
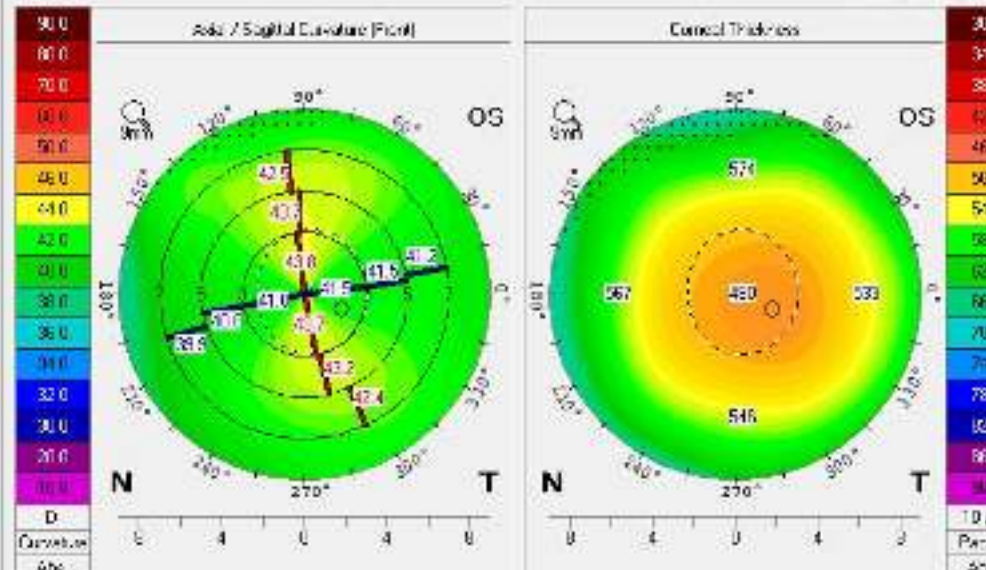
Distributions: ■ NORMAL Population ■ KERATOCONUS Population

Reference: ■ Healthy ■ Global database ■ Treatment ■ Untreated

Oculus Optikgeräte GmbH
Münchholzhäuser Str. 29

TBI ■ 0.24

35582 Wetzlar

Pentacam - Tomographic Assessment



K Max.: 43.0 D IS Value: -0.5 D PRF: 0.20 TMC: 1.39

BAD D ■ 1.39

myopic hyperopic

Tel: (0641) 20 05-0
Fax: (0641) 20 05-255

www.oculus.de



2025

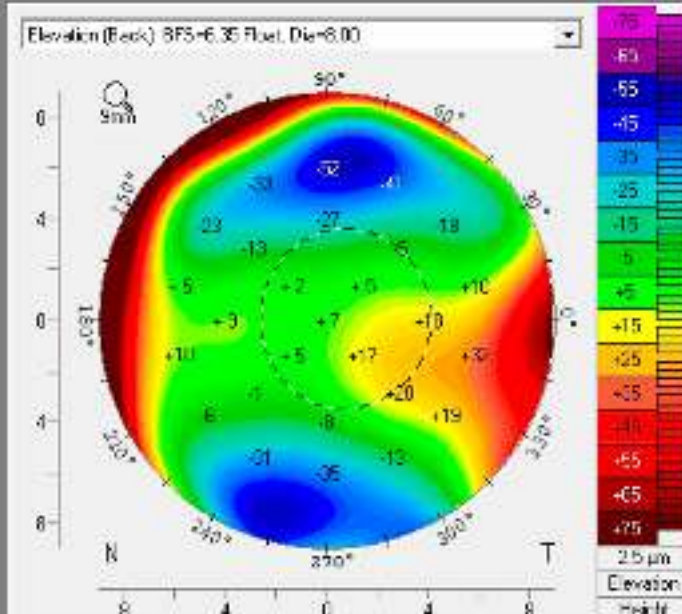
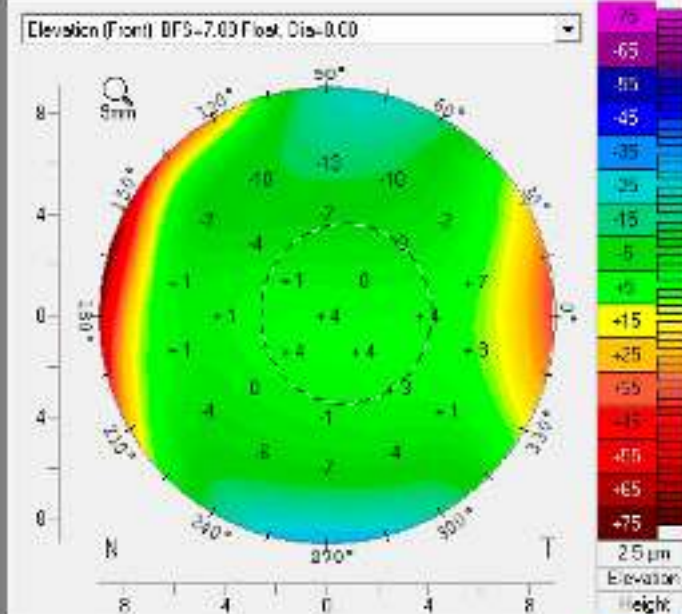
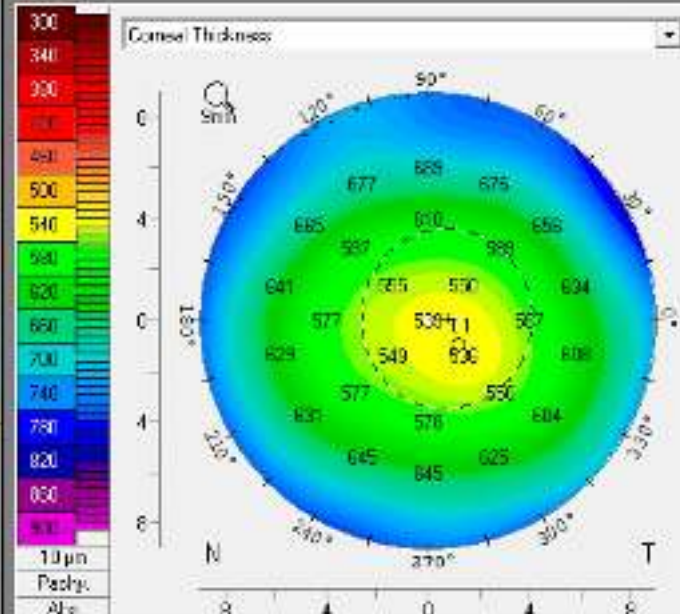
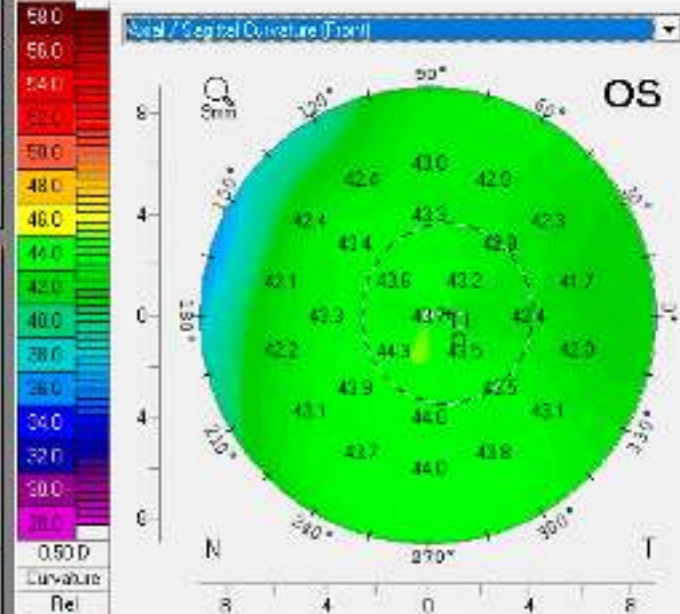
Diagnosis of Post LVC Ectasia.

CBI LVC

Post Elevation Post LVC

OCULUS - PENTACAM 4 Maps Selectable

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: 461777
 Date of Birth: 08/31/1993 Eye: Left
 Exam Date: 11/22/2021 Time: 14:25:04
 Exam Info:



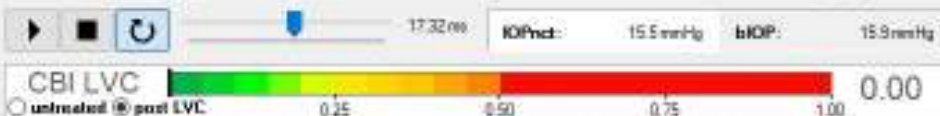
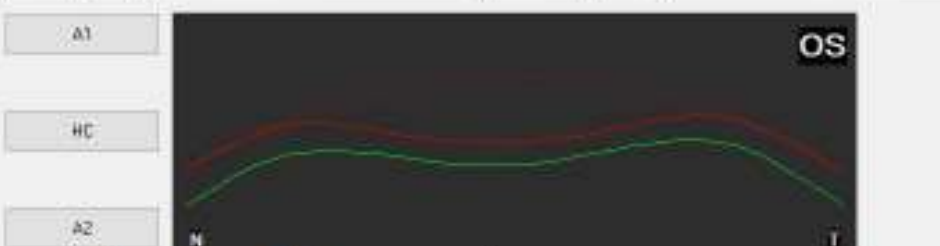
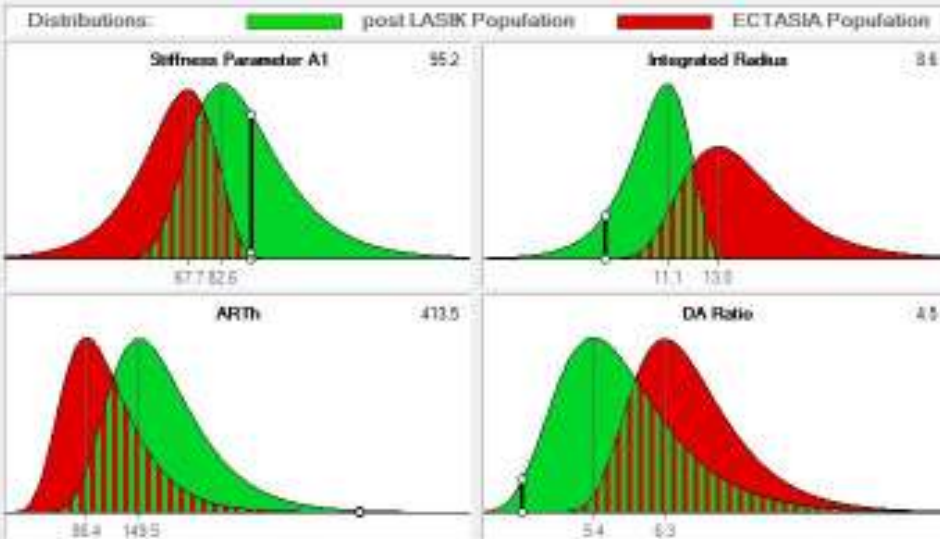
OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

162503

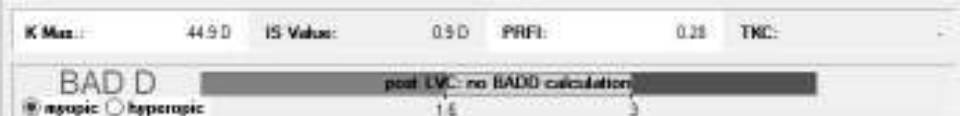
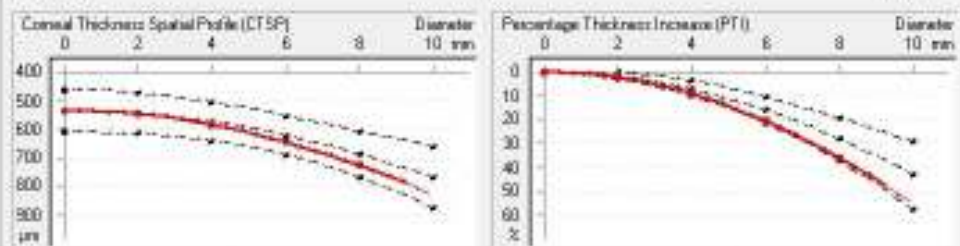
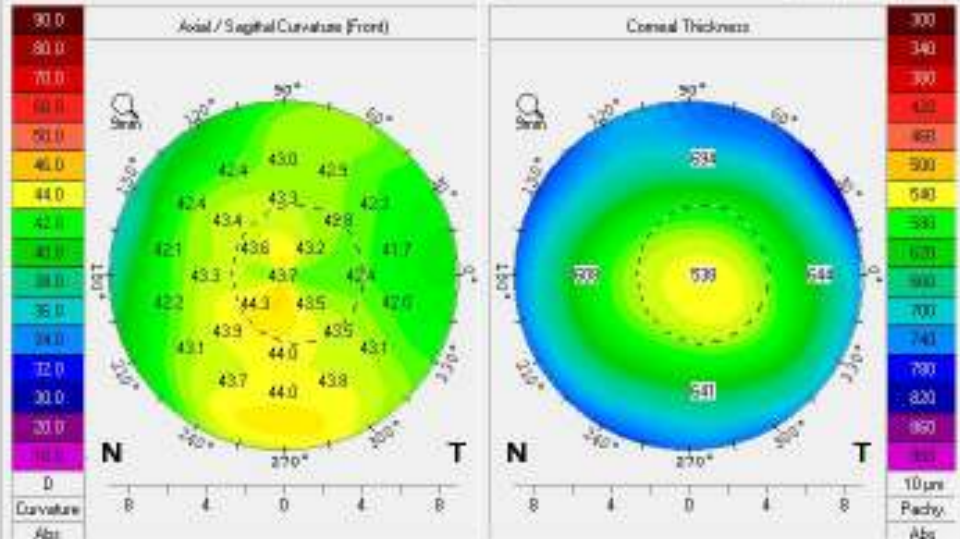
Name: [REDACTED] ID: 461777
Exam. Date: [REDACTED] Time: 14:35:48 Eye: Left (OS)
Info: OS: OK

Date of birth: 01.08.1993 Age: 28
Exam. Date: 22.11.2021 Time: 14:25:04 Eye: Left (OS)
Info: OS: OK

Corvis ST - Biomechanical Assessment

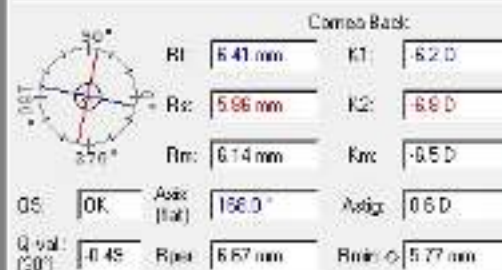


Pentacam - Tomographic Assessment



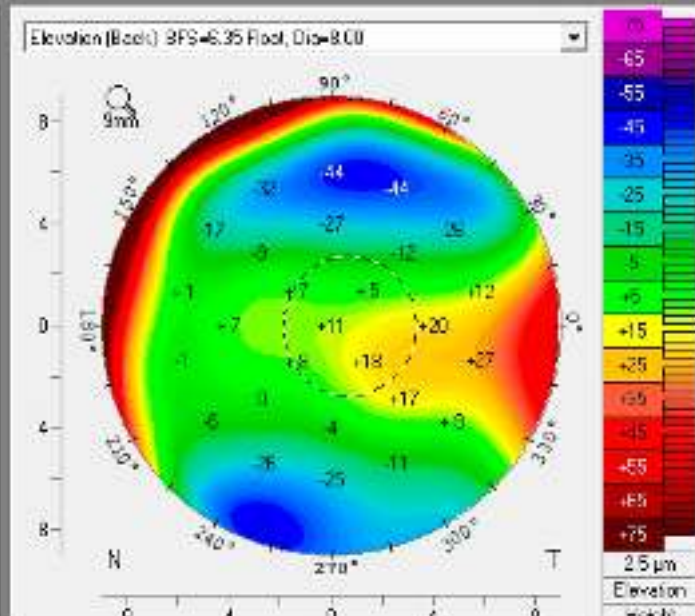
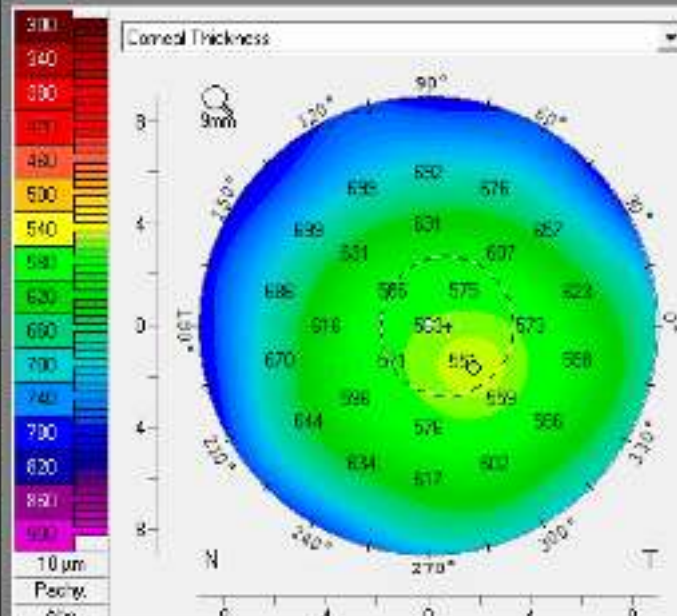
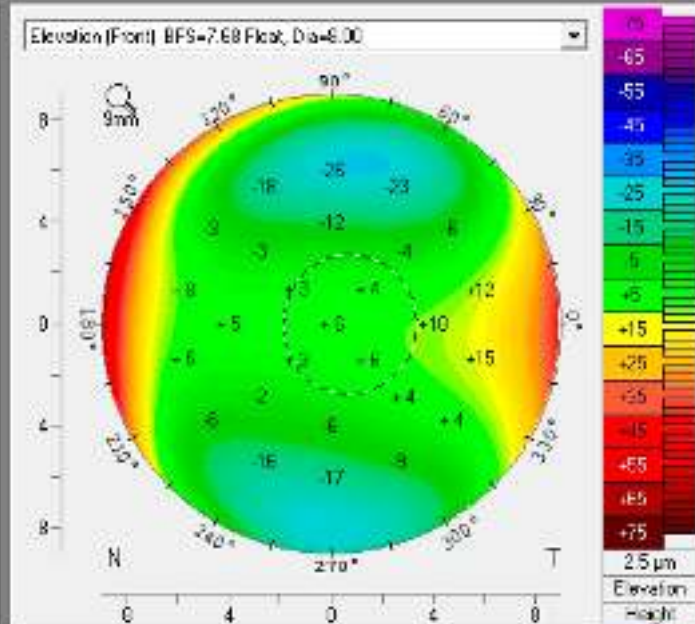
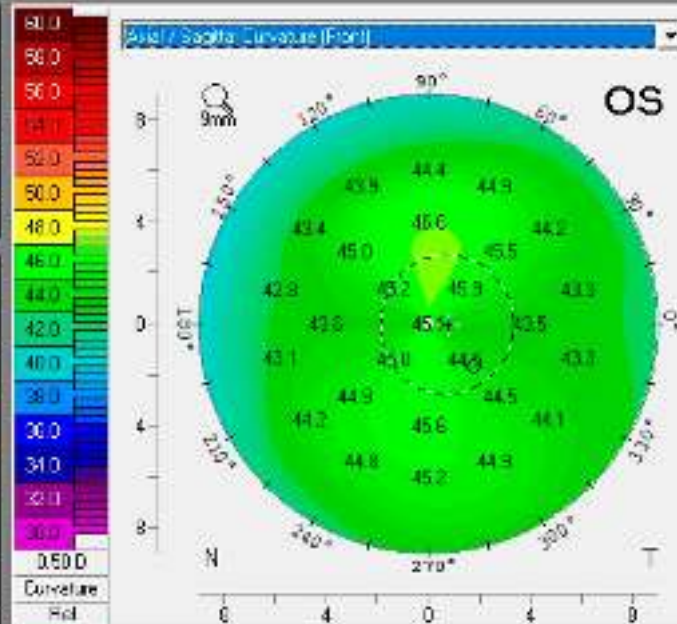
OCULUS - PENTACAM 4 Maps Selectable

Last Name: [REDACTED]
 First Name: [REDACTED]
 ID: 483777
 Date of Birth: 08/01/1949 Eye: Left
 Exam Date: 12/18/2017 Time: 13:22:12
 Exam Info:



	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 550 µm	+0.37	-0.02
Pachy Vertex R:	503 µm	0.00	0.00
Thinnest Locat:	Q 500 µm	+0.89	0.82
K Max (Front):	47.1 D	+0.14	+1.15

Cornea Volume:	62.9 mm³	KPD:	+1.3 D
Chamber Volume:	171 mm³	Angle:	37.1°
A. C. Depth (Int.):	2.98 mm	Pupil Dia:	2.97 mm
Enter IOP: IOP(Sum):	1.3 mmHg	Lens Th:	



OCULUS - PENTACAM Compare 2 Exams

1.2515

Name:

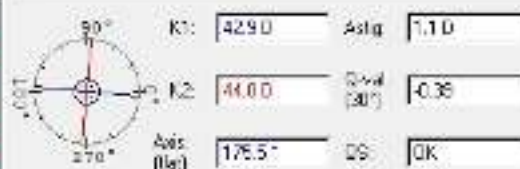
ID: 451777

Date of Birth:

03/01/1993

Exam

A: 11/22/2017 14:25:04 (L) [25] 3D-Scan HR


Pachy: 536 μ m x(mm): +0.58 y(mm): +0.03
Pupil Center: +

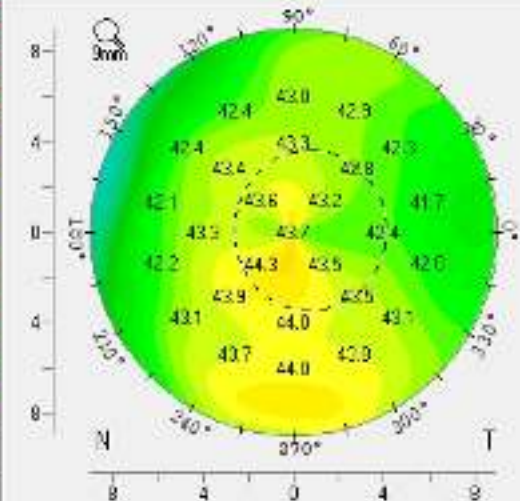
Thinnest Local: 535 μ m x(mm): +0.60 y(mm): 0.47

Chamber Volume: 132 mm³ Angle: 33.0°

A.C. Depth (mm): 2.91 mm Pupil Dia: 3.45 mm

IOP (mmHg): Lens Th:

Axial / Sagittal Curvature (Front)

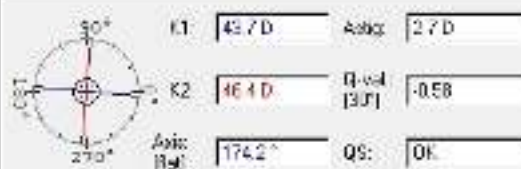


D

Curvature

Abs

B: 12/18/2017 13:22:12 (L) [25] 3D-Scan HR


Pachy: 560 μ m x(mm): +0.37 y(mm): -0.02
Pupil Center: +

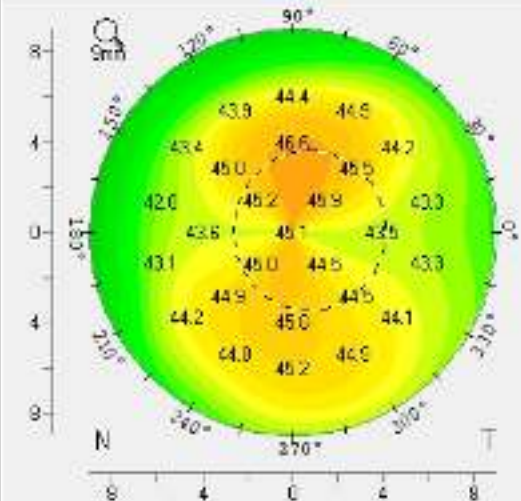
Thinnest Local: 520 μ m x(mm): +0.89 y(mm): 0.82

Chamber Volume: 171 mm³ Angle: 37.1°

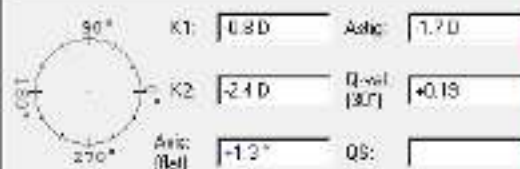
A.C. Depth (mm): 2.93 mm Pupil Dia: 2.67 mm

IOP (mmHg): Lens Th:

Axial / Sagittal Curvature (Front)



Difference A - B


Pachy: 22 μ m x(mm): +0.01 y(mm): -0.05
Pupil Center: +

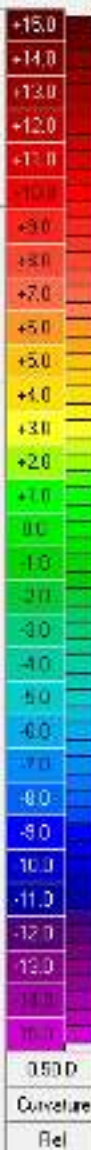
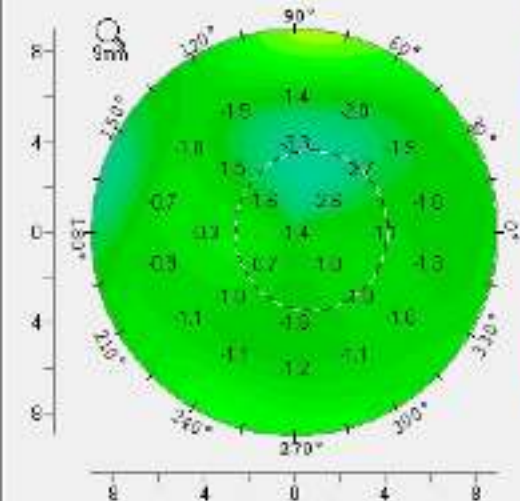
Thinnest Local: 15 μ m x(mm): 0.29 y(mm): -0.35

Chamber Volume: -21 mm³ Angle: -3.5°

A.C. Depth (mm): 0.07 mm Pupil Dia: +0.78 mm

IOP (mmHg): Lens Th:

Axial / Sagittal Curvature (Front)



Curvature

Rel

OCULUS - PENTACAM Compare 2 Exams

1.25.15

Name: [REDACTED]

ID: 461777

Date of Birth:

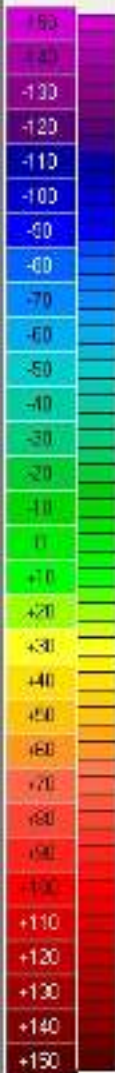
08/01/1993

Exam

A: [B: 12/10/2017 13:22:12 Left (25) 30-Scan HR]

B: [B: 12/10/2017 13:22:12 Left (25) 30-Scan HR]

Difference A - B



Pachy: [536 µm] x[mm] y[mm]

Pupil Center: + [536 µm] [-0.33] [-0.33]

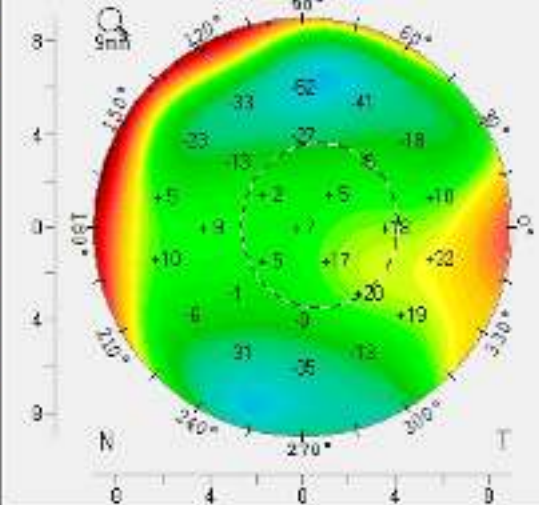
Thinnest Locat: O [535 µm] [-0.60] [-0.47]

Chamber Volume: [192 mm³] Angle: [32.6°]

A. C. Depth (Int.): [2.91 mm] Pupil Dia: [3.45 mm]

IOP(cent) [] Lens Th: []

Elevation (Back)
BFS=6.35 Float, Dis=0.00



Pachy: [550 µm] x[mm] y[mm]

Pupil Center: + [550 µm] [-0.37] [-0.02]

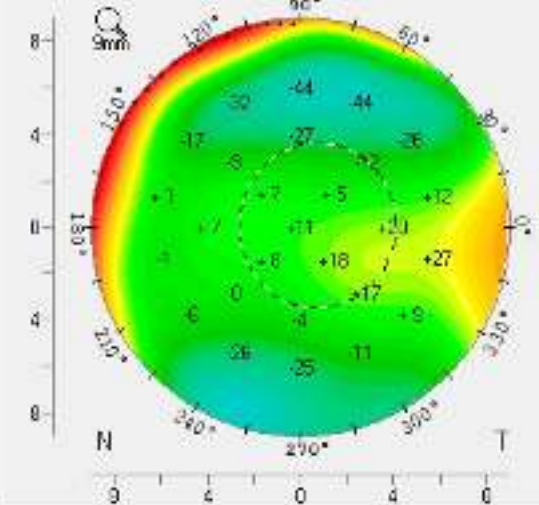
Thinnest Locat: O [550 µm] [-0.69] [-0.62]

Chamber Volume: [171 mm³] Angle: [37.1°]

A. C. Depth (Int.): [2.90 mm] Pupil Dia: [2.67 mm]

IOP(cent) [] Lens Th: []

Elevation (Back)
BFS=6.35 Float, Dis=0.00



Pachy: [] x[mm] y[mm]

Pupil Center: + [22 µm] [-0.01] [-0.35]

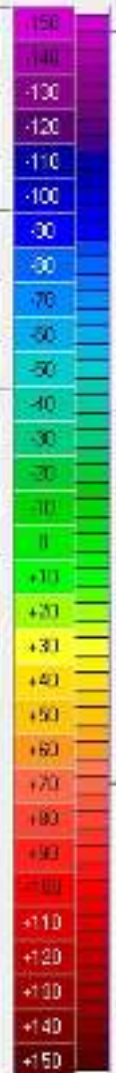
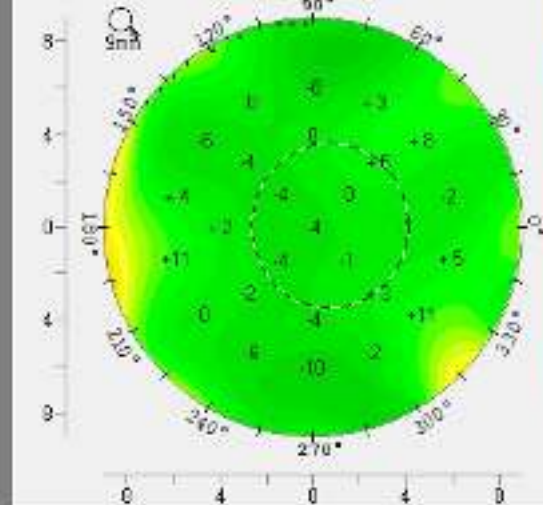
Thinnest Locat: O [15 µm] [-0.29] [-0.35]

Chamber Volume: [21 mm³] Angle: [3.5°]

A. C. Depth (Int.): [0.07 mm] Pupil Dia: [-0.79 mm]

IOP(cent) [] Lens Th: []

Elevation (Back)



Elevation
Height

Unilateral Ectasia?

1.3004

5.0 μm
Elevation

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

1.7.27.04

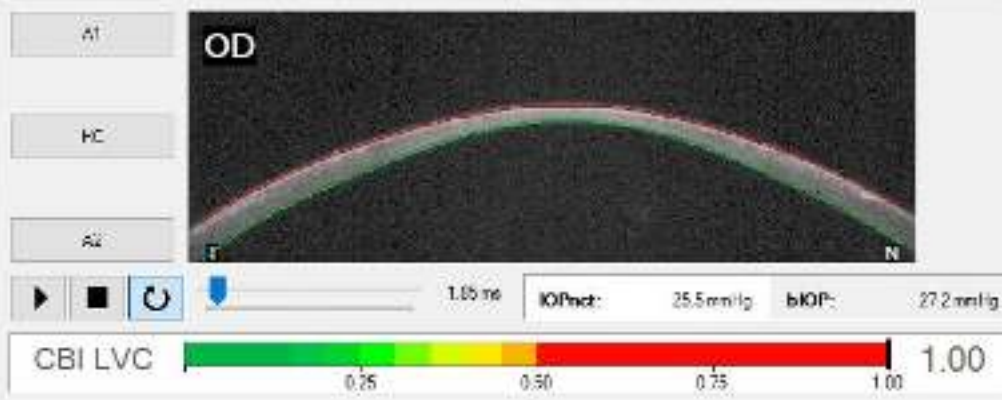
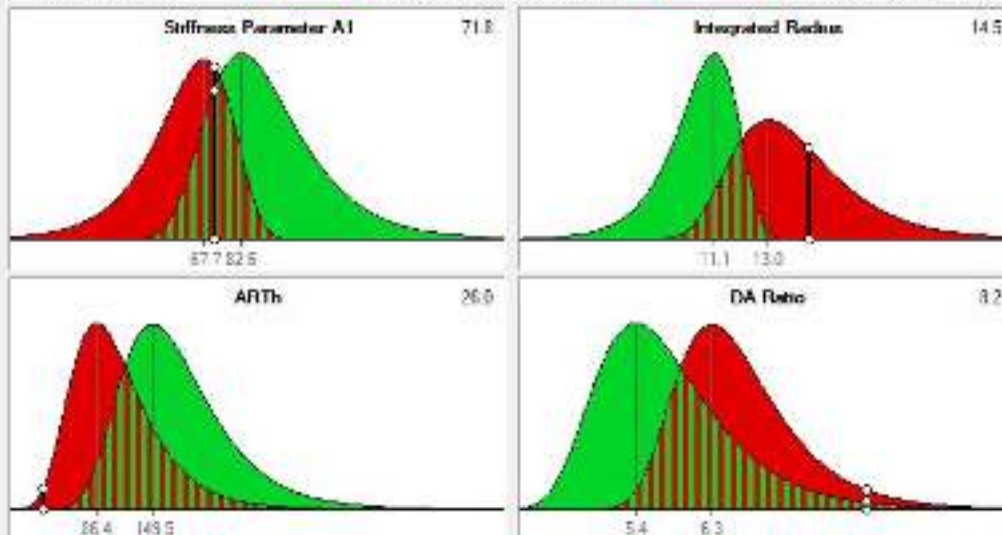
Patient: [REDACTED] Export Settings External software

E-Mail AVI JGG

Name: [REDACTED] ID: Post-LVC Ectasia Date of birth: 24.12.1974 Age: 49
 Exam Date: 16.12.2024 Time: 11:04:59 Eye: Right (OD) Exam Date: 16.12.2024 Time: 10:52:29 Eye: Right (OD)
 Info: OS: Alignment Info: OS: Data Gaps!

Corvis ST - Biomechanical Assessment

Distributions: post LASIK Population ECTASIA Population



Reference: Ethnicity Global database Treatment: [REDACTED]

TBI

post-LVC: no TBI calculation

Oculus Optikgeräte GmbH
Münchholzhäuser Str. 29

35582 Wetzlar

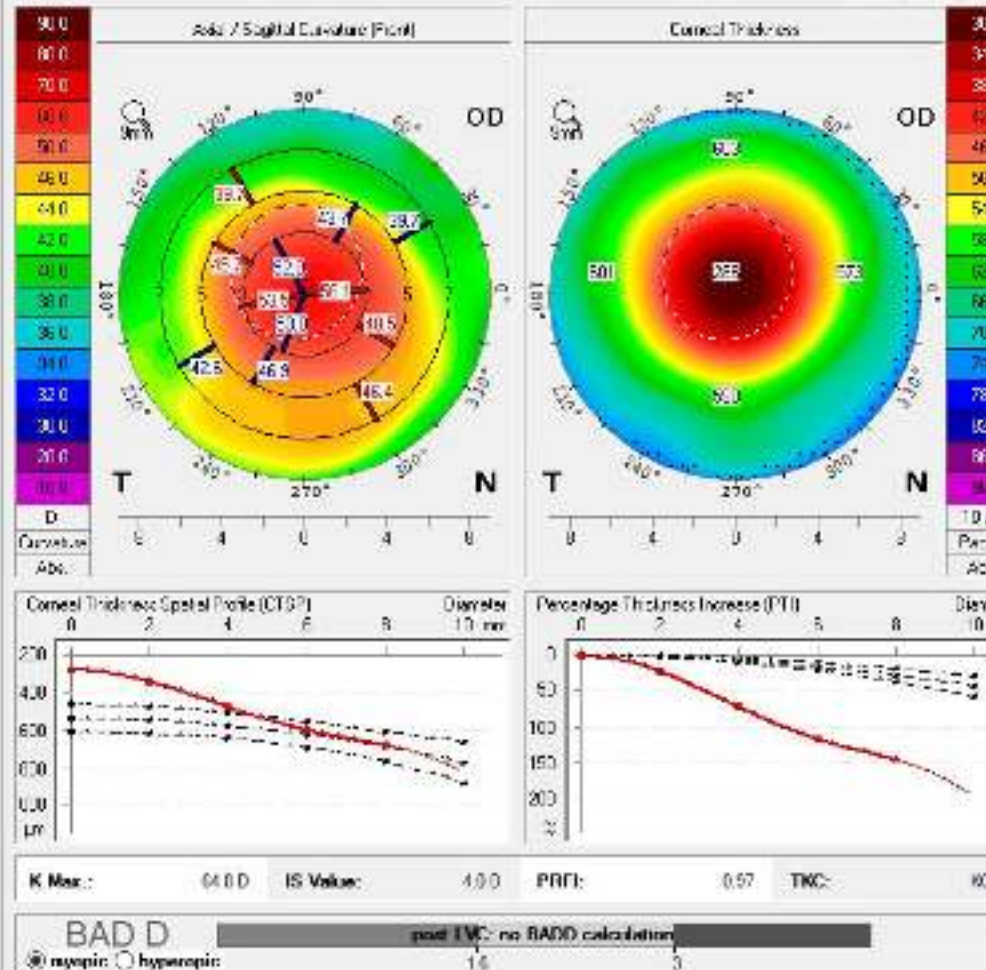
Tel: (0641) 20 05-0
Fax: (0641) 20 05-255

www.oculus.de



2025

Pentacam - Tomographic Assessment



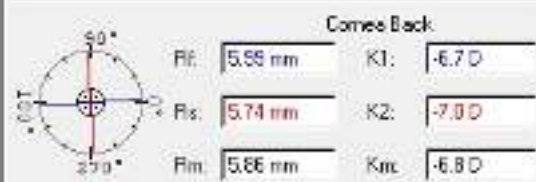
OCULUS - PENTACAM 4 Maps Selectable

1.30.04

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 12/24/1974 Eye: Left
 Exam Date: 12/16/2024 Time: 10:54:11
 Exam Info: XXXXXXXXXX



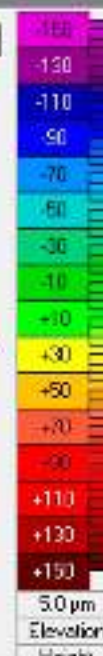
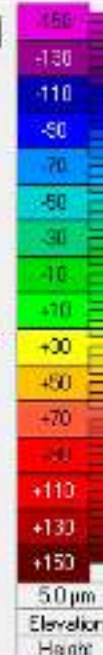
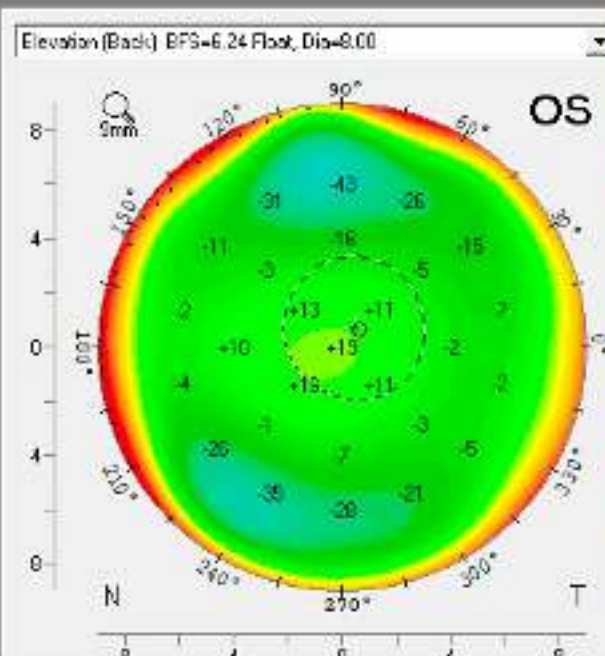
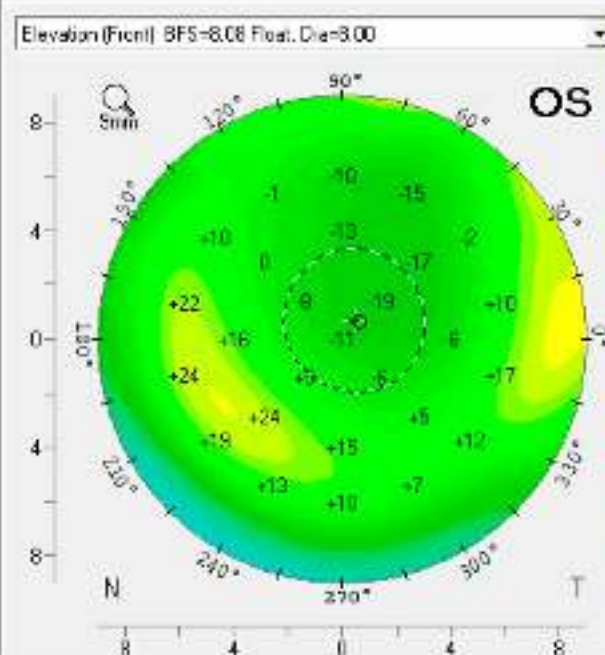
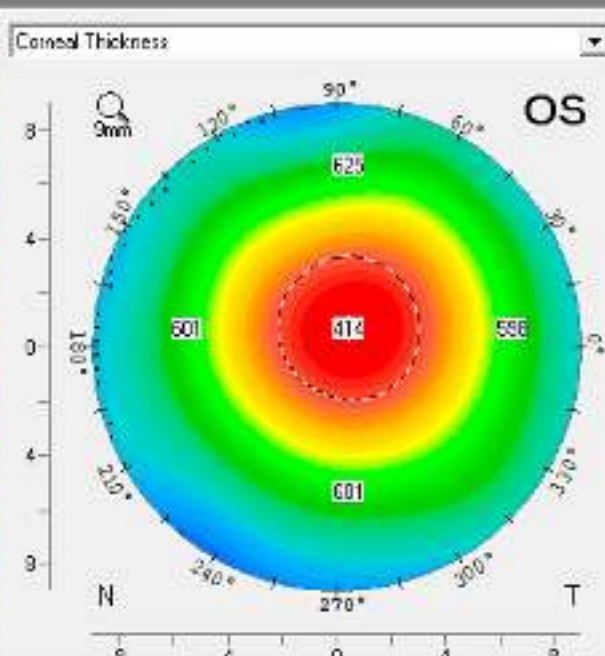
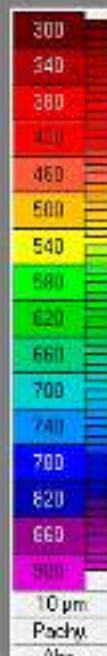
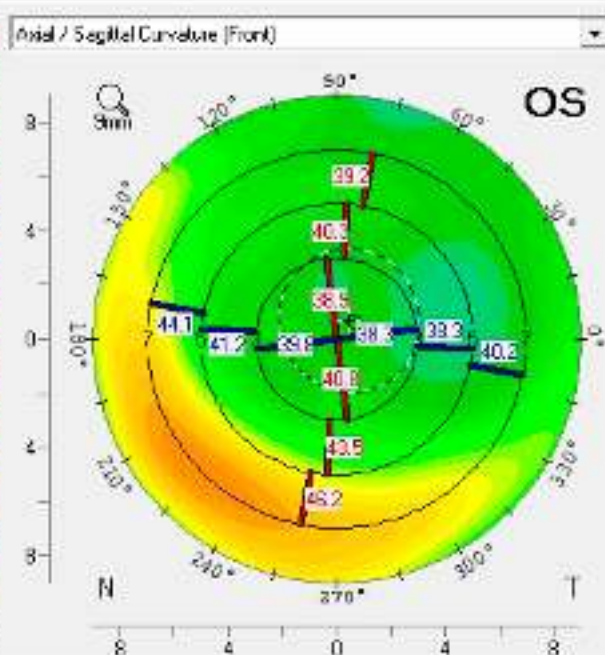
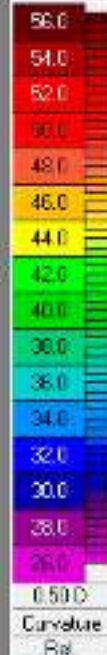
Q5 ☒ OK Axis: 11.1° Astig: 0.8 D
 Q-val: 0.52 Rper: 7.94 mm Rmirr: 7.15 mm
 (8mm)



Q5 ☒ OK Axis: 3.7° Astig: 0.3 D
 Q-val: -0.86 Rper: 5.81 mm Rmirr: 5.69 mm
 (8mm)

Pachy: x(mm) y(mm)
 Pupil Center: + 414 µm +0.24 +0.35
 Pachy Vertex N.: - 415 µm 0.00 0.00
 Thinnest Locat.: O 414 µm +0.31 +0.31
 K Max (Front): 47.2 D -2.52 -2.45

Cornea Volume: 57.1 mm³ HW/TW: 11.0 mm
 Chamber Volume: 199 mm³ Angle: 43.9°
 A.C. Depth (Int.): 3.29 mm Pupil Dia: 2.62 mm
 Enter IDP: ICPTSum: Lens Th:



2025

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

1.7.27.04

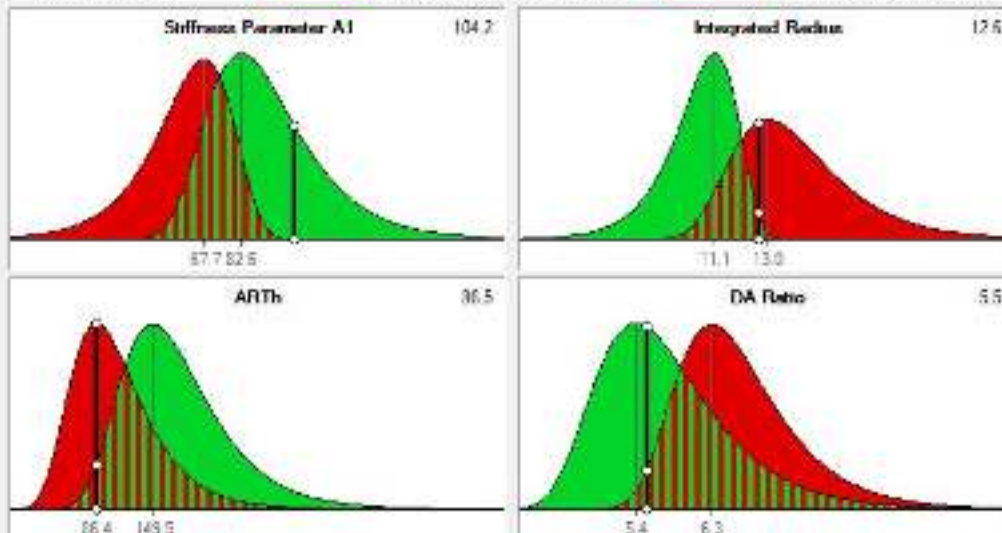
Patient: Examination: Display: Screen: Settings: External software:

E-Mail: AVI: JGG:

Name: [REDACTED] ID: Post LVC Ectasia Date of birth: 24.12.1974 Age: 49
 Exam. Date: 15.12.2024 Time: 10:58:06 Eye: Left (OS) Exam. Date: 15.12.2024 Time: 10:54:11 Eye: Left (OS)
 Info: OS: OK Info: OS: OK

Corvis ST - Biomechanical Assessment

Distributions: post LASIK Population ECTASIA Population



A1 HC A2

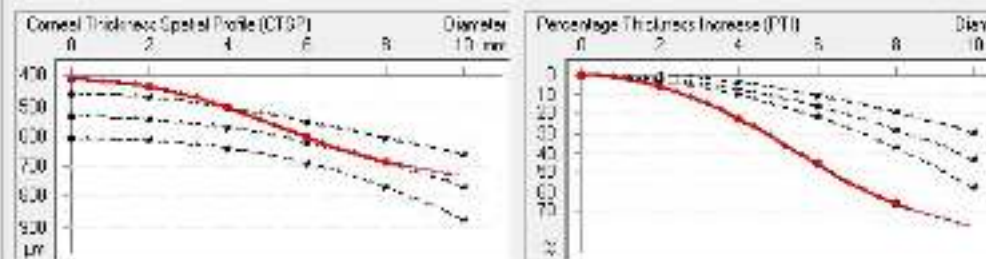
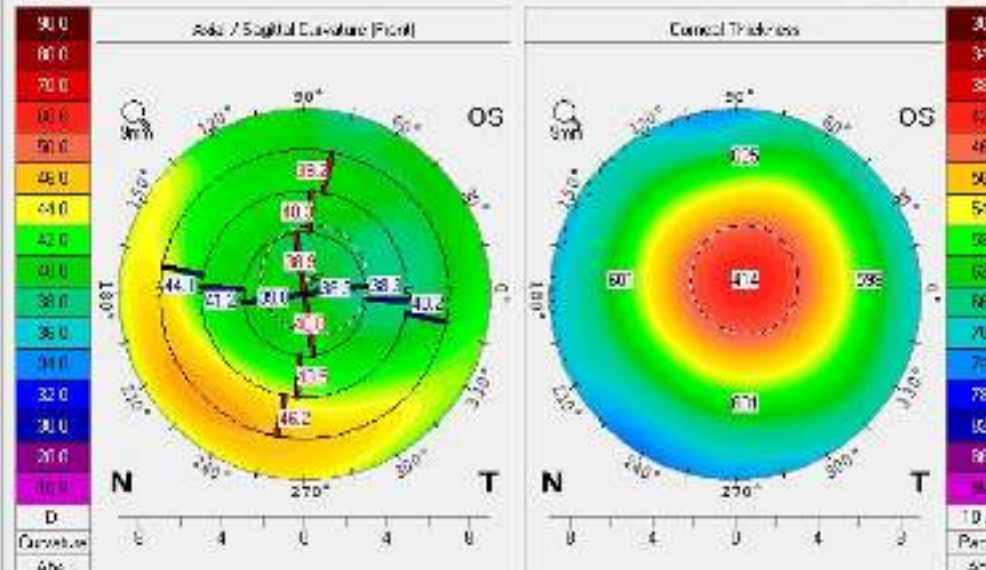
CBI LVC 0.79

Reference: Ethnicity: Global database Treatment: Local

Oculus Optikgeräte GmbH
Münchholzhäuser Str. 29

TBI 35582 Wetzlar

Pentacam - Tomographic Assessment



K Max.: 47.2 D IS Value: 4.10 PRF: 0.73 TMC: Post Corneal Surgery

BAD D post LVC: no BAD calculation
 myopic hyperopic

www.ocus.de



2025

Inferior steep area

OCULUS - PENTACAM 4 Maps Selectable

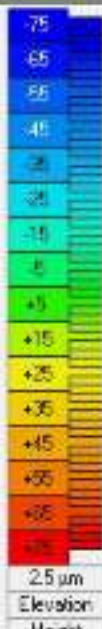
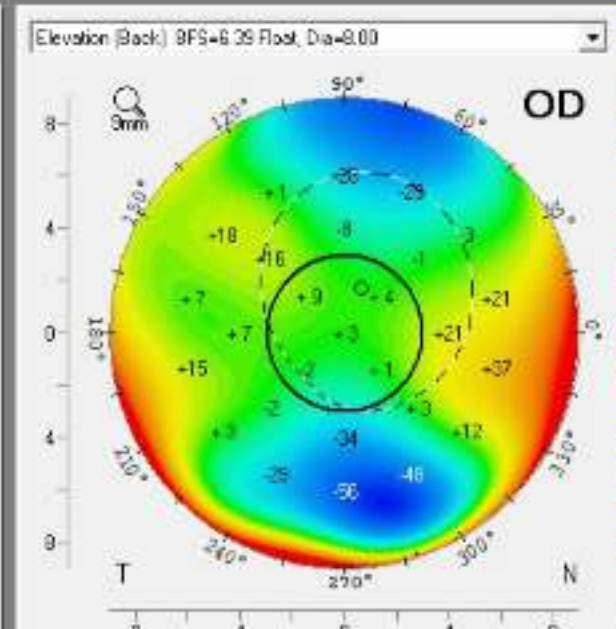
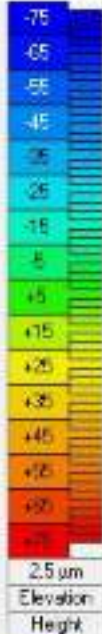
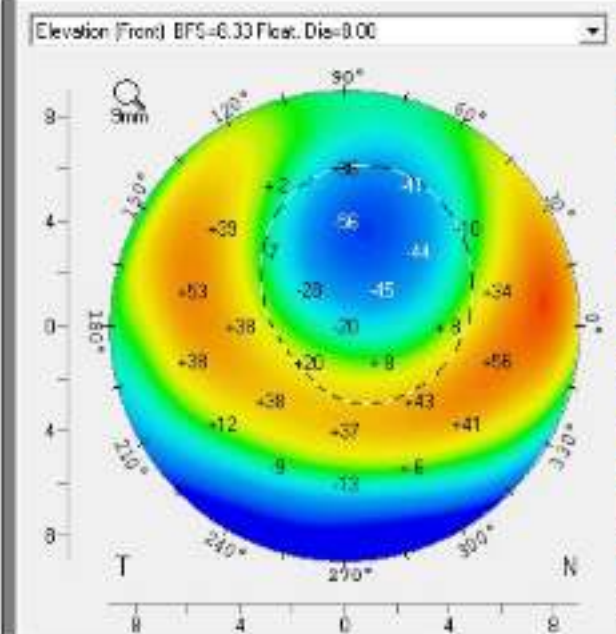
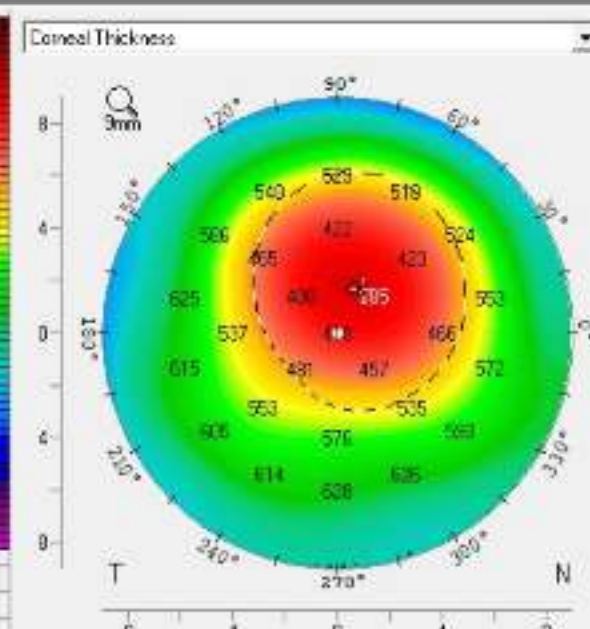
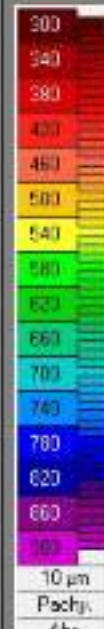
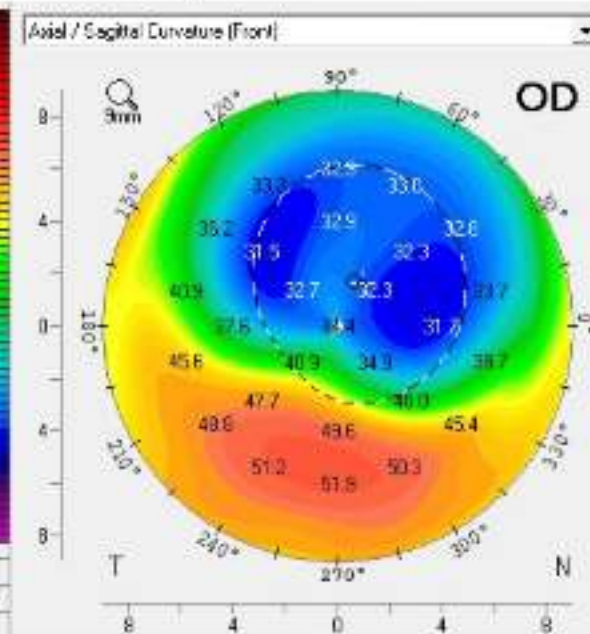
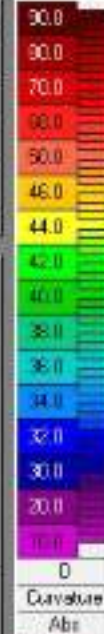
1.25x15

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 01/11/2001 Eye: Right
 Exam Date: 11/05/2022 Time: 12:55:08
 Exam Info: XXXXXXXXXX



	Pachy:	x(mm)	y(mm)
Pupil Center:	+ 301 µm	+0.47	+0.03
Pachy/Vertex N:	410 µm	0.00	0.00
Thinnest Locat:	Q 380 µm	+0.30	+0.85
K Max (Front)	52.4 D	-0.24	-2.68

Cornea Volume:	55.5 mm³	HWTA:	
Chamber Volume:	145 mm³	Angle:	26.0°
A. C. Depth (Int.):	2.60 mm	Pupil Dia:	4.23 mm
Enter IOP IOP(Sun):	+3.6 mmHg	Lens Th:	



OCULUS - PENTACAM Topometric/KC-Staging

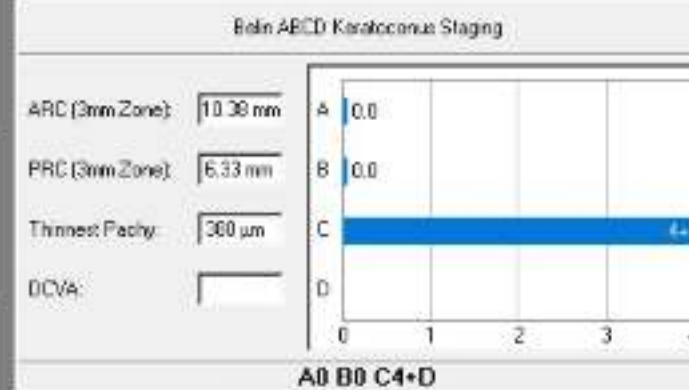
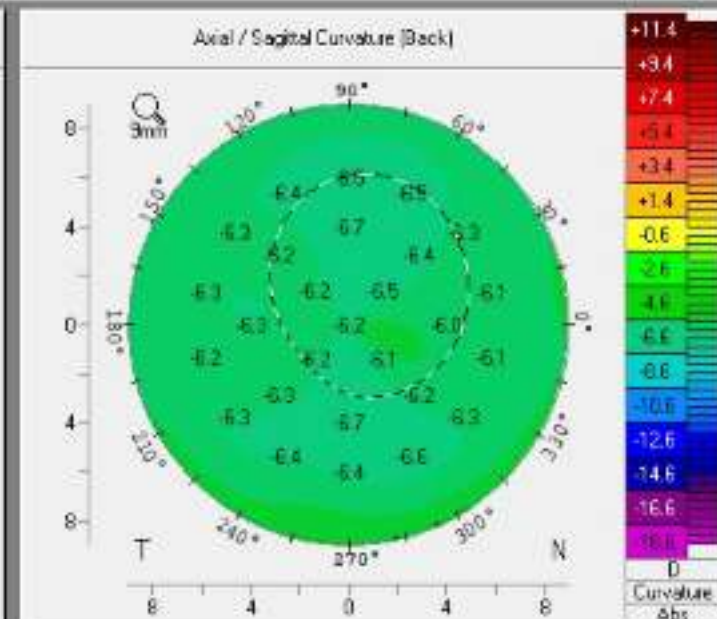
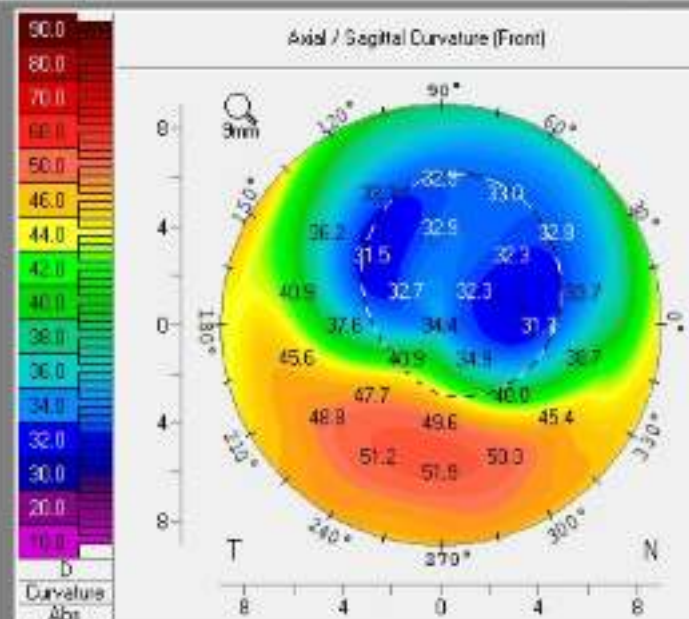
1.25r15

Last Name: XXXXXXXXXX
 First Name: XXXXXXXXXX
 ID: XXXXXXXXXX
 Date of Birth: 01/11/2001 Eye: Right
 Exam Date: 11/06/2022 Time: 12:55:09
 Exam Info:



	Pachy:	x[mm]	y[mm]
Pupil Center:	+ 381 µm	+0.47	+0.83
Pachy/Vertex N.:	410 µm	0.00	0.00
Thinnest Local:	380 µm	+0.30	+0.85
K Max. (Front):	52.4 D	-0.24	-2.99

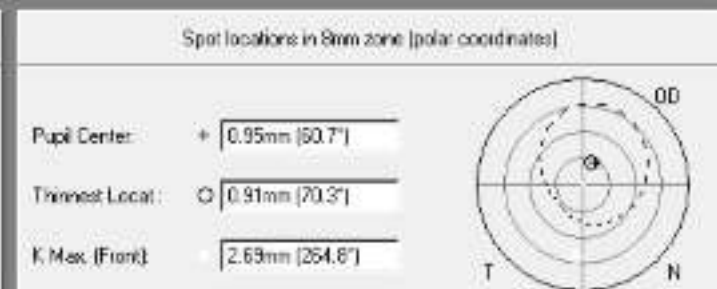
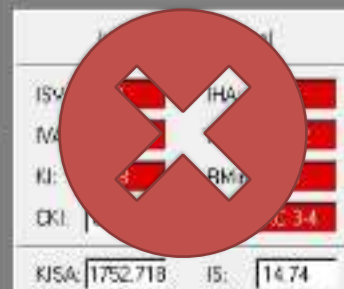
Cornea Volume:	55.9 mm³	HW/TW:	
Chamber Volume:	145 mm³	Angle:	25.0°
A. C. Depth (Int.):	2.80 mm	Pupil Dia:	4.29 mm
IOP(Sum):	+9.5 mmHg	Lens Th:	



Asphericity (Front) of Major Meridians

	Degree peripheral				
[Q-val]	20°	25°	30°	35°	40°
Nas	4.28	3.65	-0.71	0.00	0.00
Temp	4.08	3.35	0.00	0.00	0.00
Inf	2.48	1.39	0.00	0.00	0.00
Sup	1.00	1.56	1.90	0.00	0.00
Mean	2.95	2.49	0.30	0.00	0.00

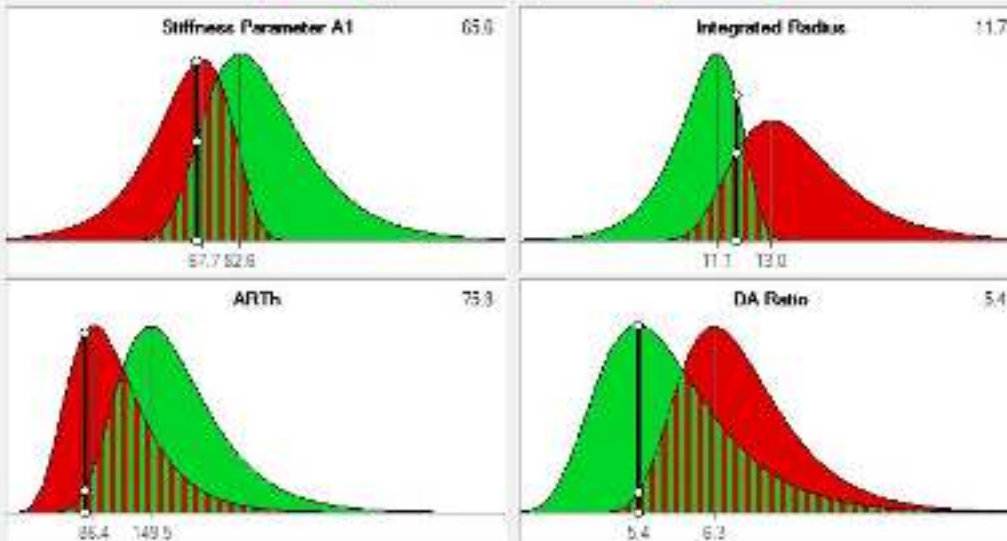
Front:
☒ Asphericity
☐ Axial/Sag. Curve
 Back:
☐ Asphericity
☐ Axial/Sag. Curve



Name: [REDACTED] ID: [REDACTED] Date of birth: 11.01.2001 Age: 21
 Exam. Date: [REDACTED] Time: 12:59:43 Eye: Right (OD) Exam. Date: 05.11.2022 Time: 12:55:00 Eye: Right (OD)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

Corvis ST - Biomechanical Assessment

Distributions: post LASIK Population ECTASIA Population

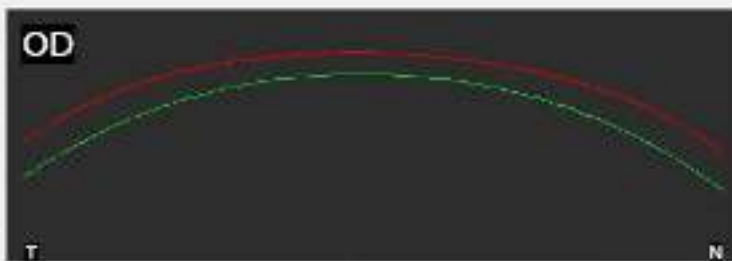


A1

OD

HC

A2



29.57 mm

IOPpred: 10.5 mmHg

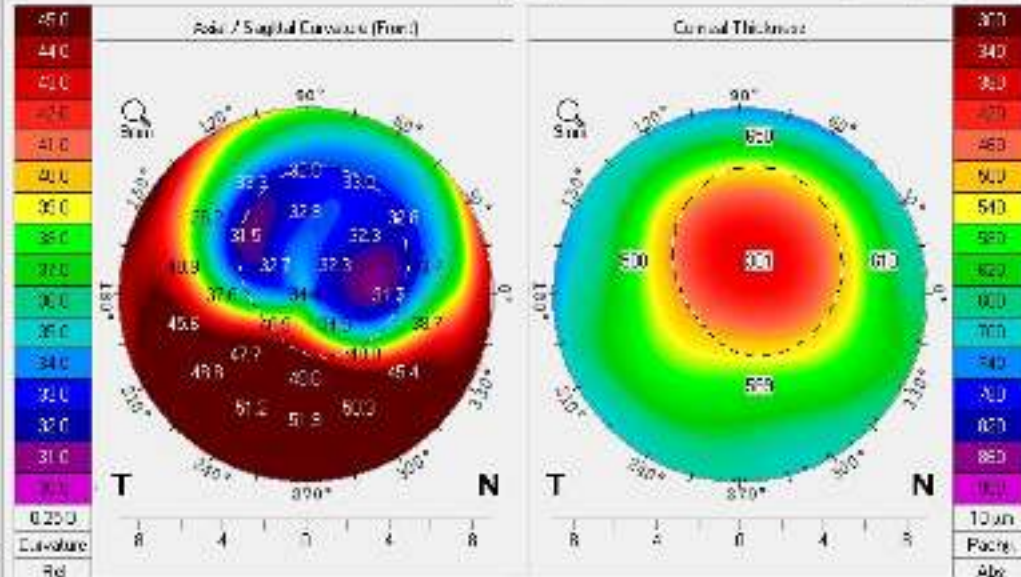
bIOP: 13.3 mmHg

CBI LVC 0.00
 ○ unhealed ○ post LVC

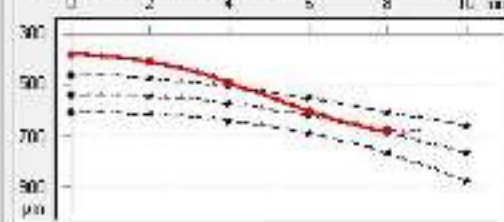
TBI

post LVC: no TBI calculation

Pentacam - Tomographic Assessment

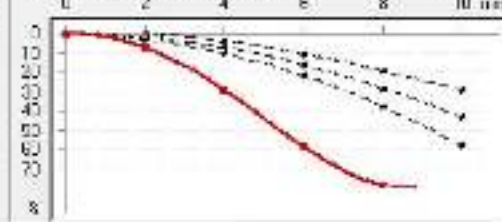


Corneal Thickness Special Profile (CTSP) Diameter 10 mm



K Max.: 52.4 D IS Value: 14.7 D

Percentage Thickness Increase (PTI) Diameter 10 mm



PRFI: 0.83 TKC: KC 3.4

BAD D

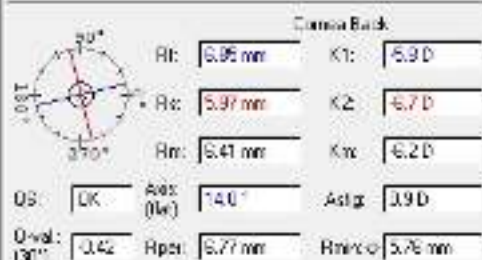
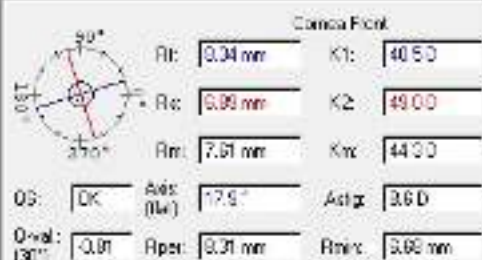
post LVC: no BAD calculation

○ myopic ○ hyperopic

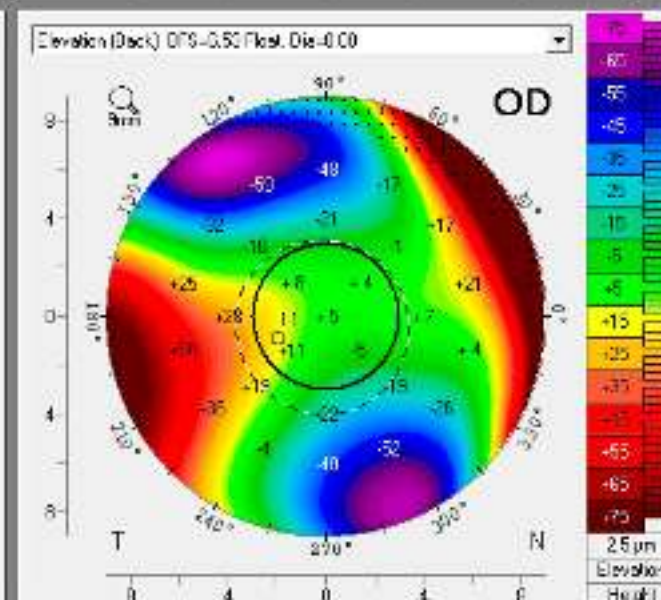
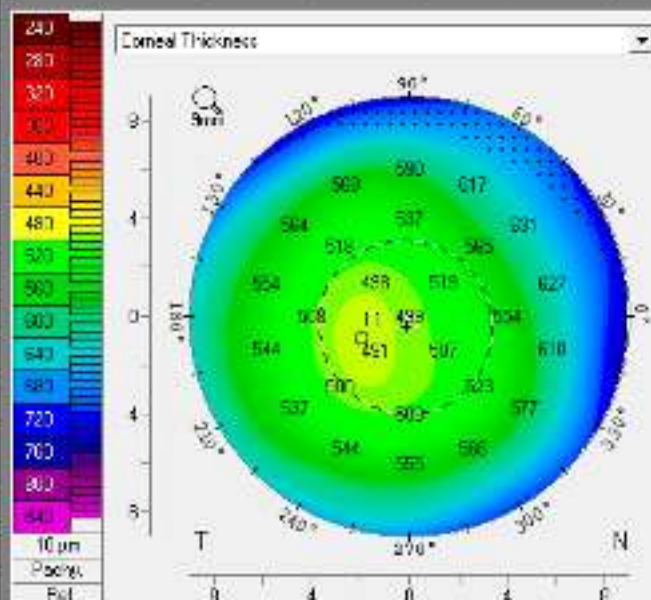
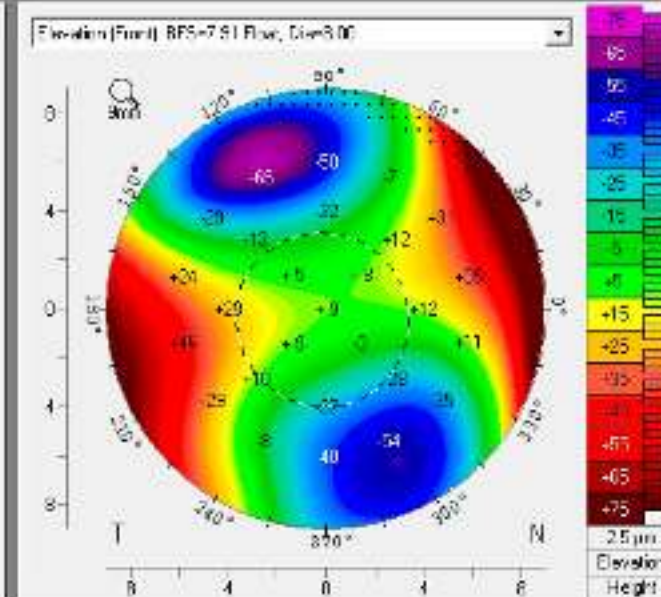
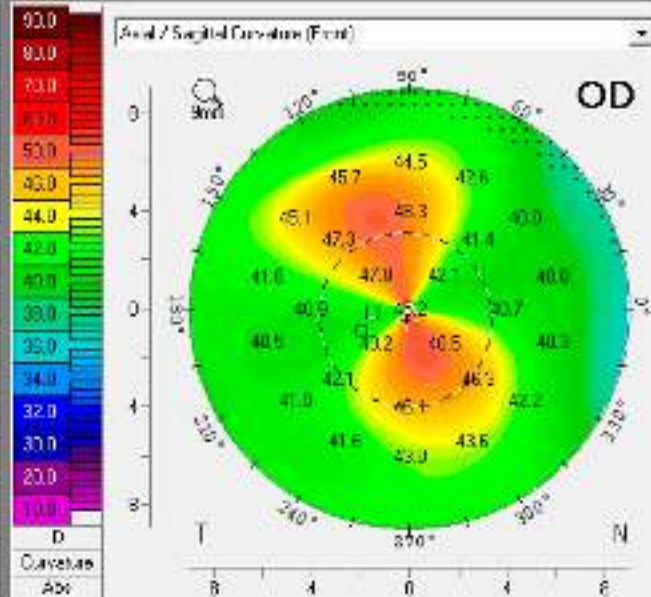
Post Op High Astigmatism

OCULUS - PENTACAM 4 Maps Selectable

Last Name: [REDACTED]
 First Name: [REDACTED]
 ID: [REDACTED]
 Date of Birth: 04/02/1991 Eye: Right
 Exam Date: 04/10/2023 Time: 13:42:37
 Exam Info:



Pupil Center:	+ 495 µm	x (mm)	-0.07	y (mm)	-0.23
Pachy Value H:	499 µm	x (mm)	0.00	y (mm)	0.03
Thinnest Locat:	○ 497 µm	x (mm)	0.97	y (mm)	-0.45
K Max (Front):	50.5 D	x (mm)	-0.13	y (mm)	-0.50
Cornea Volume:	56.2 mm³	Hv/Tw:	11.0 mm		
Chamber Volume:	115 mm³	Angle:	29.3°		
A.C. Depth (mm):	2.58 mm	Pupil Dia:	3.54 mm		
Enter IOP / IOP(Sun):	13.3 mmHg	Corneal Thk:			



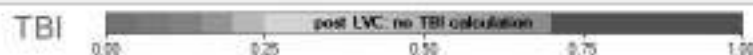
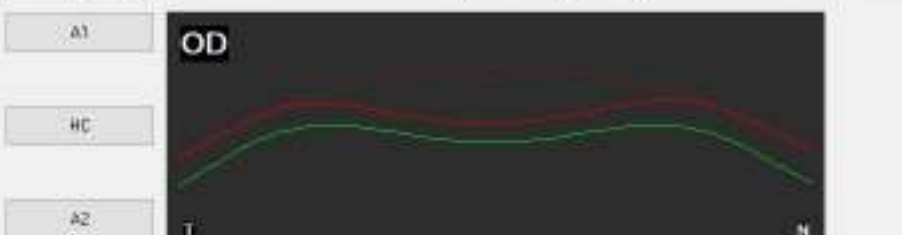
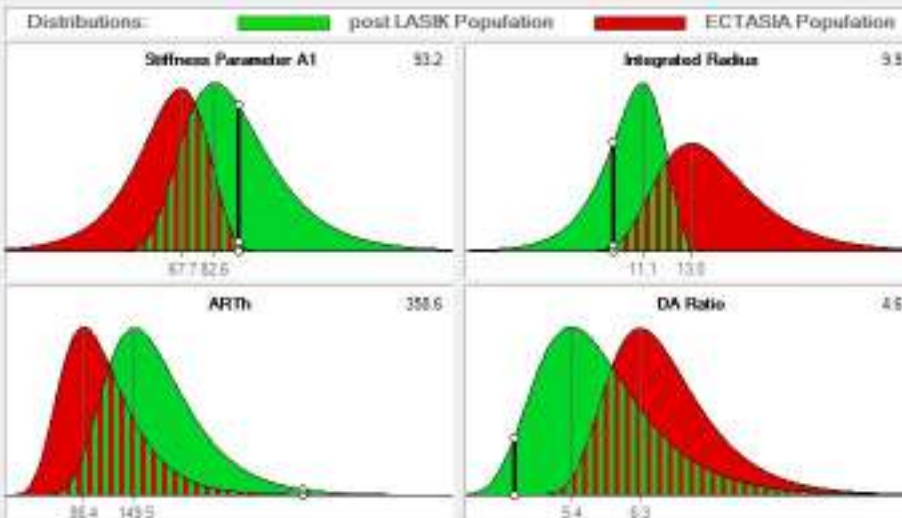
Post LASIK

OCULUS Corvis® ST - Biomechanical/Tomographic Assessment (ARV)

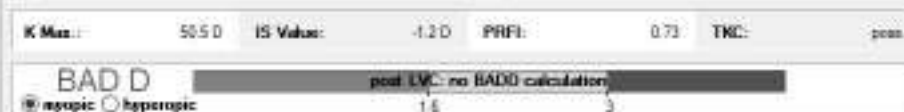
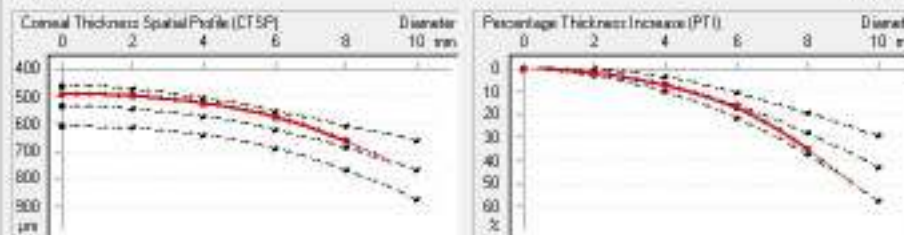
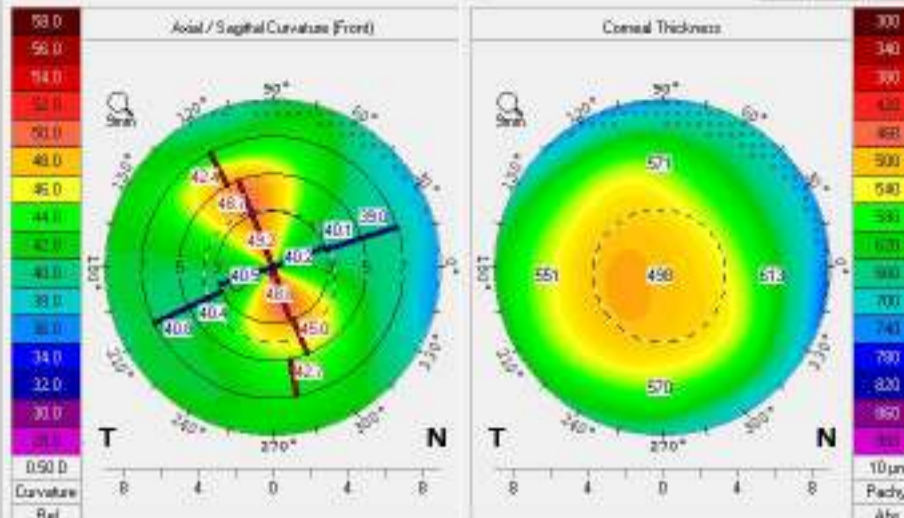
1.62503

Name: [REDACTED] ID: pos femtolasik ou then post p Date of birth: 02.04.1991 Age: 32
 Exam. Date: 10.04.2023 Time: 13:44:18 Eye: Right (OD) Exam. Date: 10.04.2023 Time: 13:42:32 Eye: Right (OD)
 Info: [REDACTED] QS: OK Info: [REDACTED] QS: OK

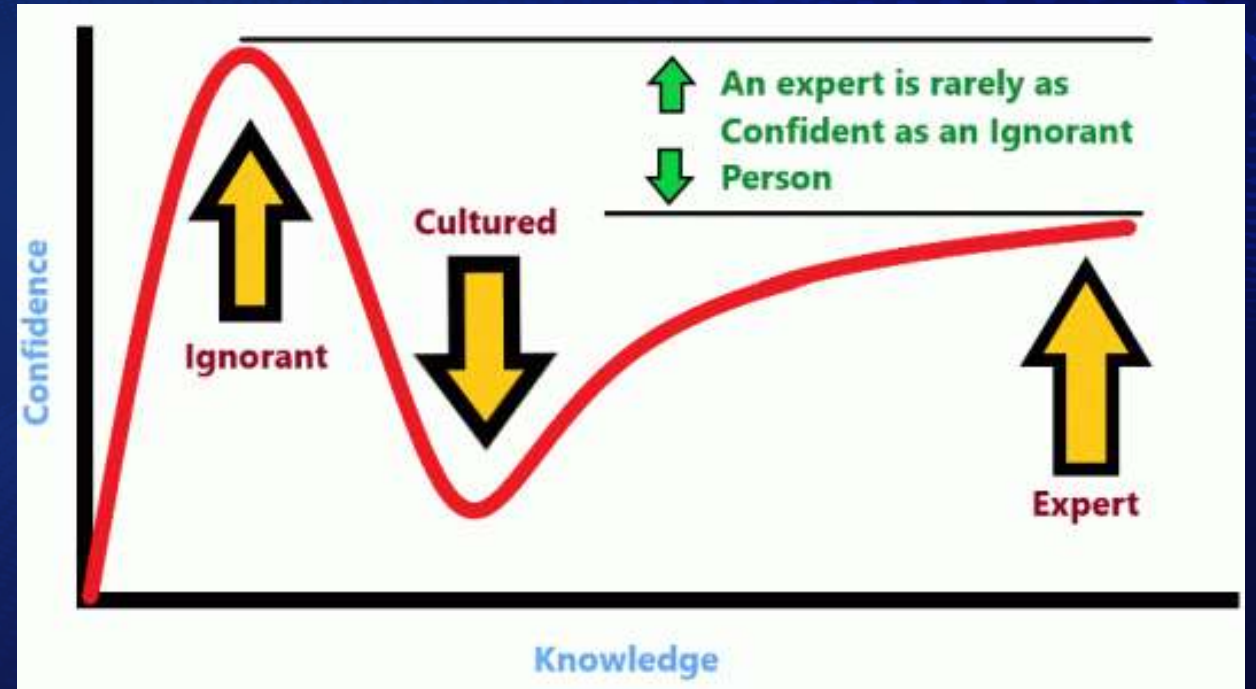
Corvis ST - Biomechanical Assessment



Pentacam - Tomographic Assessment



Take Home Message



The more knowledge you get, the better decision you can make

Thank you