

Besonderheiten bei der Kontaktlinsenanpassung nach Crosslinking und anderen chirurgischen Eingriffen

Alexander Starfinger
Contactlinsen Institut Haußer Düsseldorf



Ich habe keine bestehende oder künftige finanzielle
Verbindung oder geschäftliche Zugehörigkeit anzugeben.

Ich versichere, die Darstellung meiner Beiträge
produkt- und firmenneutral zu halten.



- 25 Jahre Abteilung an der Universitätsaugenklinik Düsseldorf
- Seit über 15 Jahren Institut in Düsseldorfer Innenstadt
- Großteil der Versorgungen aufgrund medizinischer Indikationen – insbesondere bei Keratokonus und nach Keratoplastiken

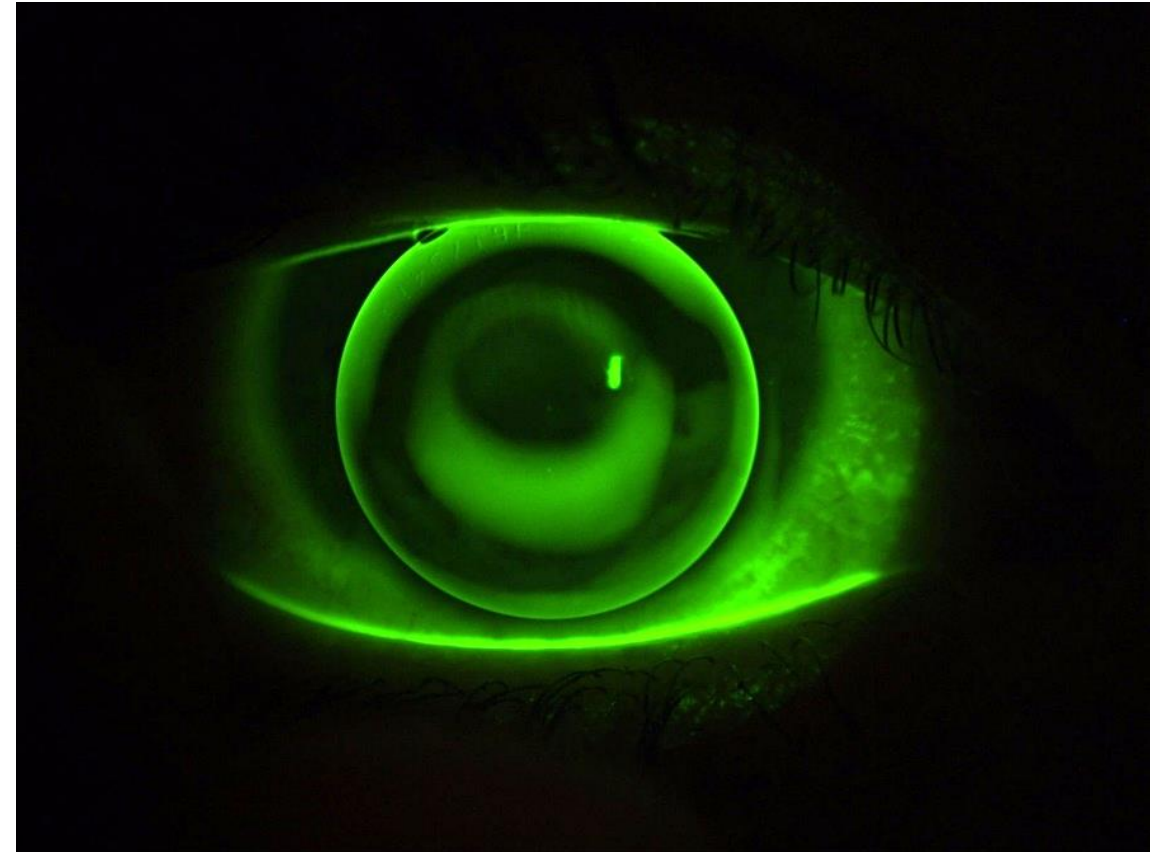
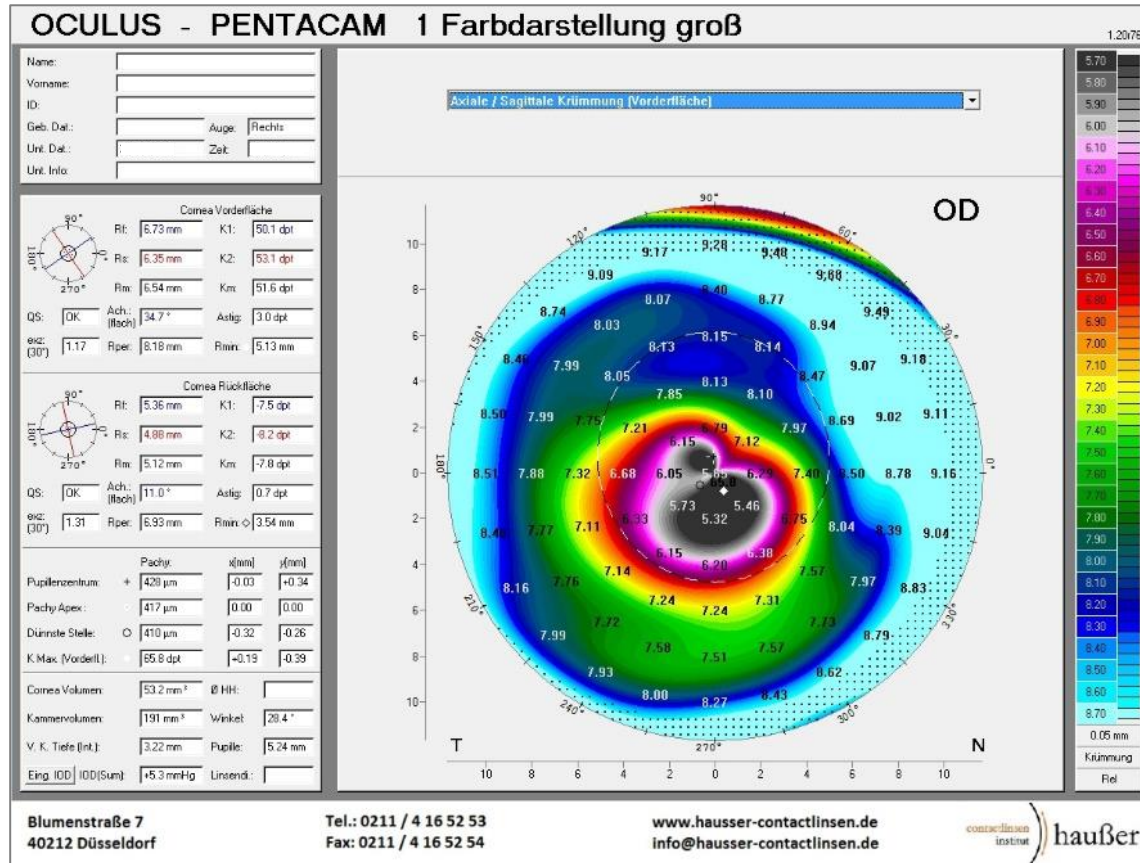
UKD Universitätsklinikum
Düsseldorf



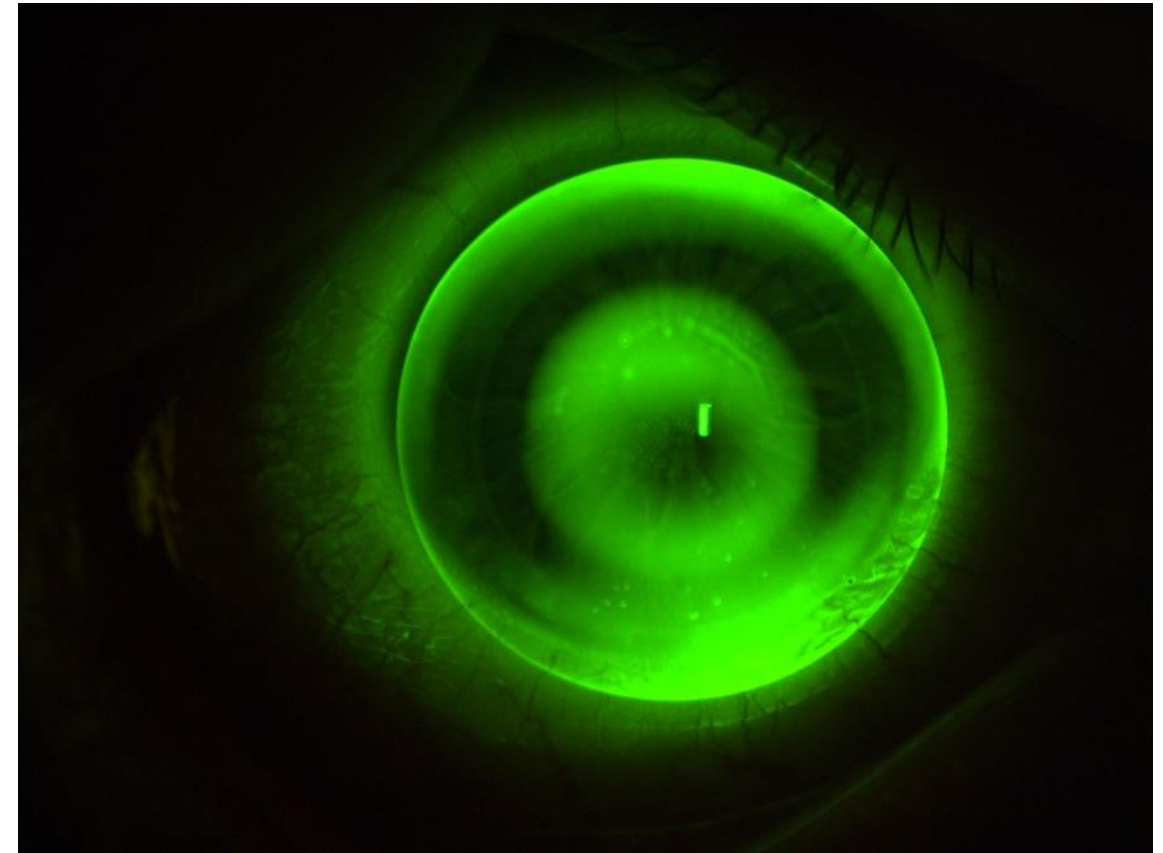
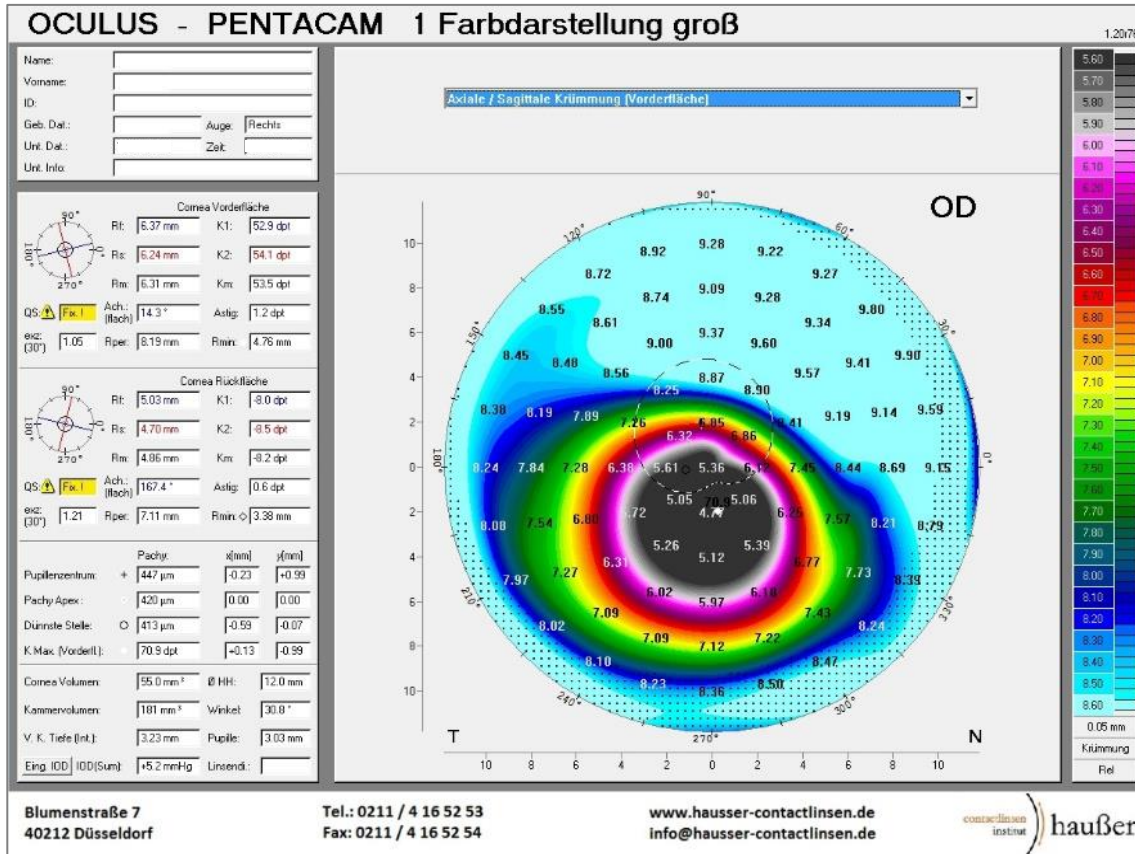
- Keratokonus
 - akuter Keratokonus
- Zustand nach Keratoplastik
 - perforierende Keratoplastik
 - DALK
(Deep Anterior Lamellar Keratoplasty)
 - DMEK
(Descemetmembran-Endotheliale Keratoplastik)
- Hornhautnarben bei Zustand nach Trauma oder Infektionen
- HH-Dystrophien und – Degeneration
 - Map-Dot-Fingerprint-Dystrophie
 - Degeneration nach Salzmann
 - granuläre Dystrophien



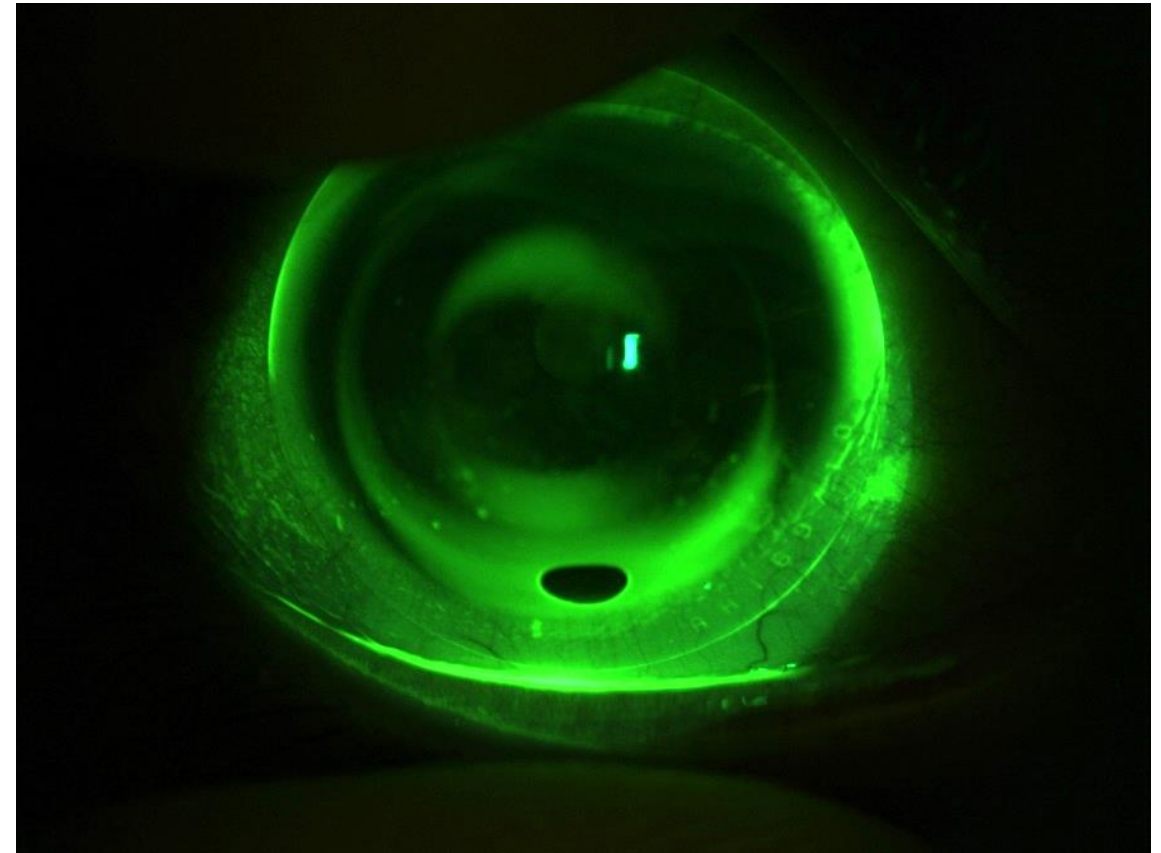
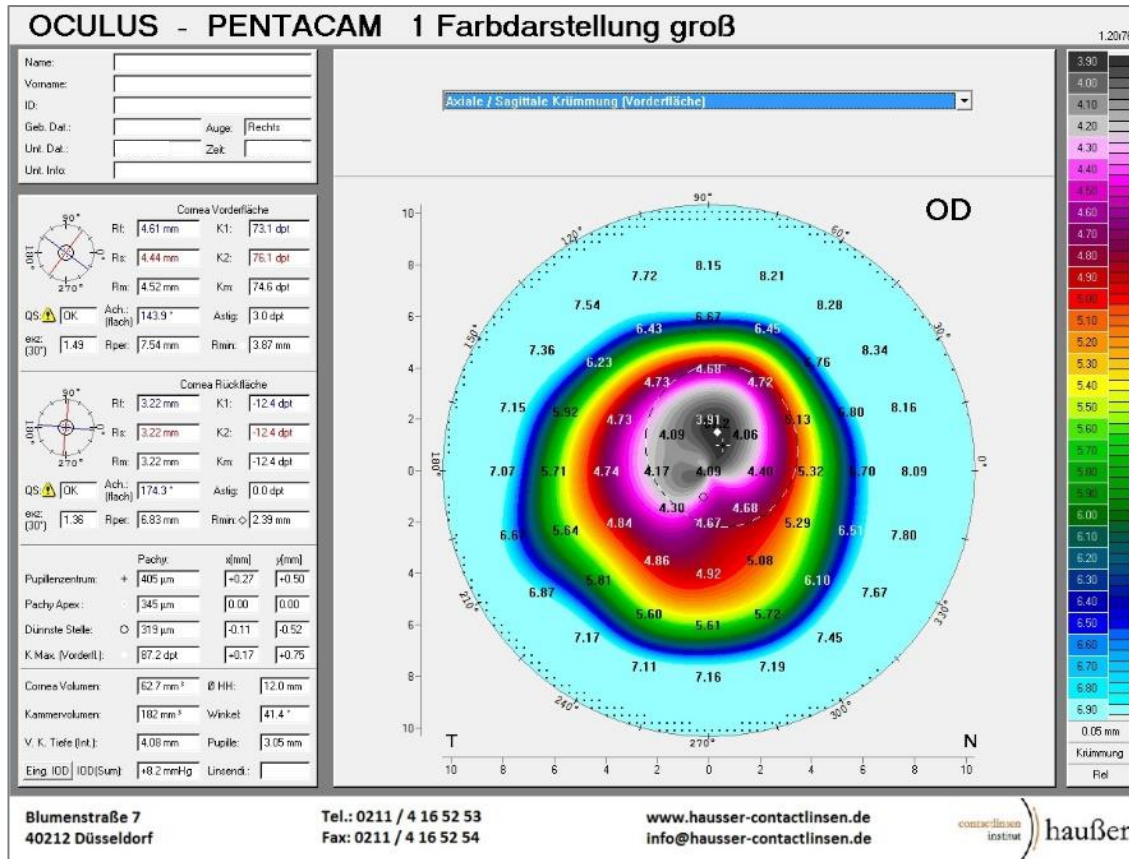
corneale Anpassung



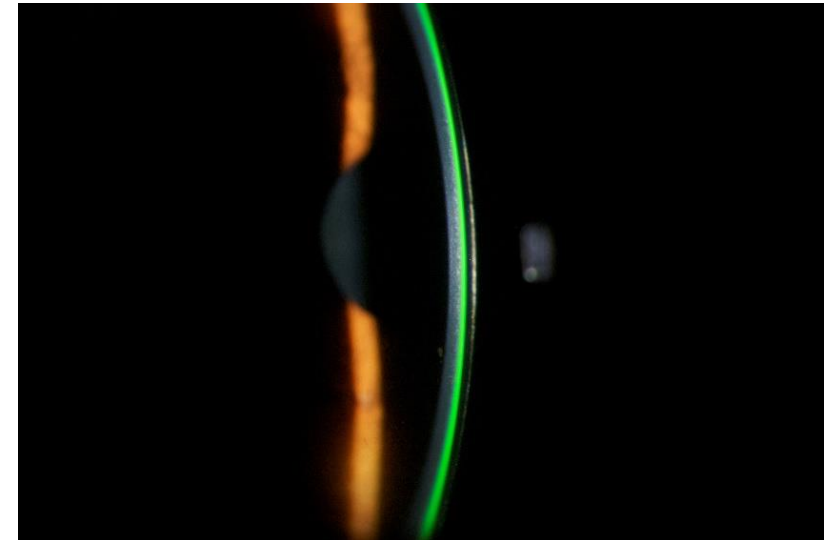
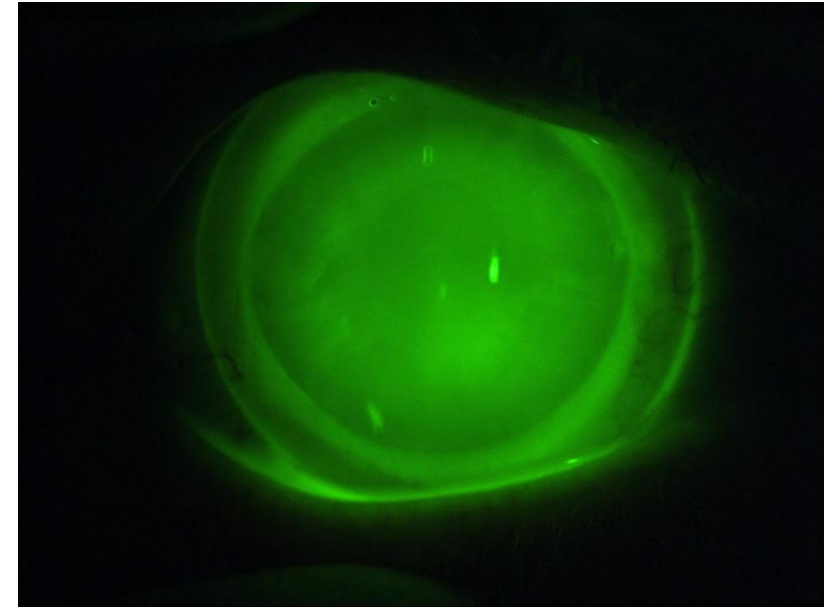
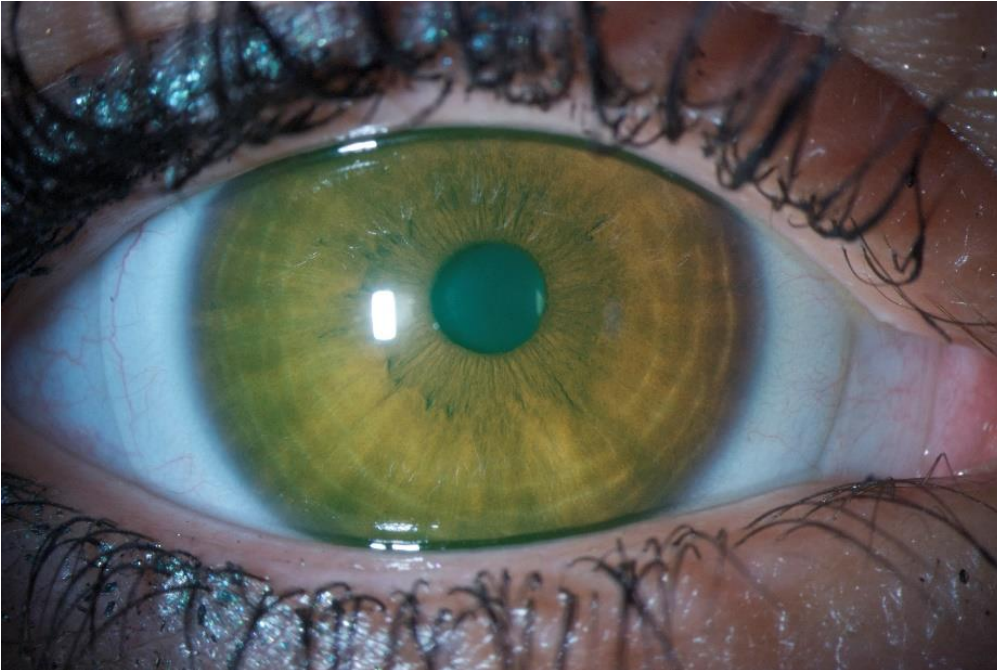
grenzlimbale Anpassung



corneosklerale Anpassung



sklerale Anpassung



OCULUS - PENTACAM 1 Farbdarstellung Groß

1.21/59

Name: _____
Vorname: _____
ID: _____
Geb. Datum: _____ Auge: Rechts
Unt. Datum: 11.09.2014 Zeit: 10.25.10
Unt. Info: _____

Cornea Vorderfläche

Rf: 6.84 mm K1: 43.4 dpt
Rs: 6.37 mm K2: 53.0 dpt
Rm: 6.60 mm Km: 51.1 dpt

QS: OK Ach: (flach) 22.2° Asti: 3.6 dpt
exz (30°) 1.05 Rper: 7.93 mm Rmin: 5.38 mm

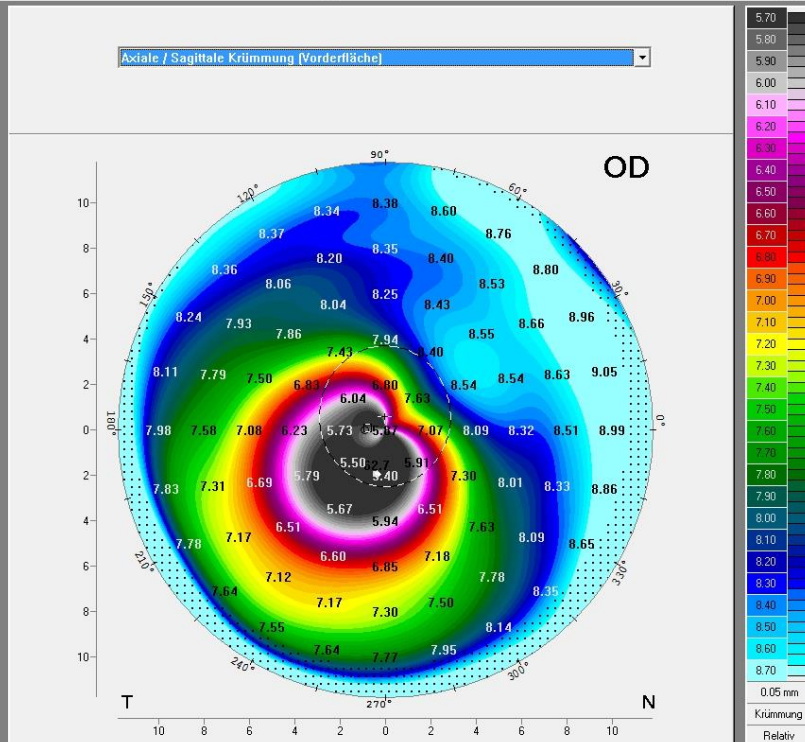
Cornea Rückfläche

Rf: 5.17 mm K1: -7.7 dpt
Rs: 4.90 mm K2: -8.2 dpt
Rm: 5.04 mm Km: -7.9 dpt

QS: Model Ach: 160.0° Asti: 0.4 dpt
exz (30°) 1.27 Rper: 6.66 mm Rmin: 3.72 mm

Pupillenzentrum: + 482 µm x[mm] -0.01 y[mm] +0.30
Pachy Apex: 476 µm 0.00 0.00
Dünkste Stelle: 472 µm -0.46 0.00
K Max (Vorderfl.): 62.7 dpt 0.20 -0.98

Cornea Volumen: 59.2 mm³ Hw/Tw: 12.1 mm
Kammervolumen: 194 mm³ Winkel: 43.5°
VK Tiefe (Int.): 3.38 mm Pupille: 2.99 mm
Eing. IOD IOD(Sum): +3.0 mmHg Linsendf: _____



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1.21/59

Name: _____
Vorname: _____
ID: _____
Geb. Datum: _____ Auge: Links
Unt. Datum: 11.09.2014 Zeit: 10.25.43
Unt. Info: _____

Cornea Vorderfläche

Rf: 7.65 mm K1: 44.1 dpt
Rs: 7.44 mm K2: 45.4 dpt
Rm: 7.54 mm Km: 44.7 dpt

QS: OK Ach: 161.2° Asti: 1.3 dpt
exz (30°) 0.69 Rper: 8.00 mm Rmin: 7.18 mm

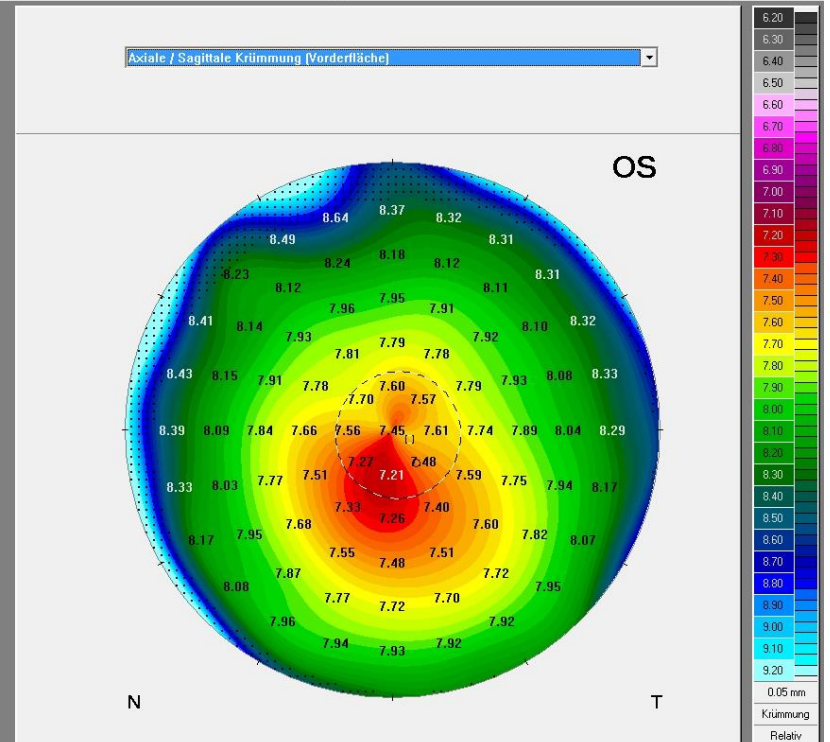
Cornea Rückfläche

Rf: 6.31 mm K1: -6.3 dpt
Rs: 5.98 mm K2: -6.7 dpt
Rm: 6.14 mm Km: -6.5 dpt

QS: OK Ach: 162.6° Asti: 0.4 dpt
exz (30°) 0.64 Rper: 6.58 mm Rmin: 5.50 mm

Pupillenzentrum: + 535 µm x[mm] +0.13 y[mm] -0.12
Pachy Apex: 538 µm 0.00 0.00
Dünkste Stelle: 528 µm +0.54 -0.74
K Max (Vorderfl.): 47.0 dpt 0.27 -1.08

Cornea Volumen: 61.2 mm³ Hw/Tw: 12.2 mm
Kammervolumen: 200 mm³ Winkel: 49.0°
VK Tiefe (Int.): 3.49 mm Pupille: 2.86 mm
Eing. IOD IOD(Sum): +0.5 mmHg Linsendf: _____



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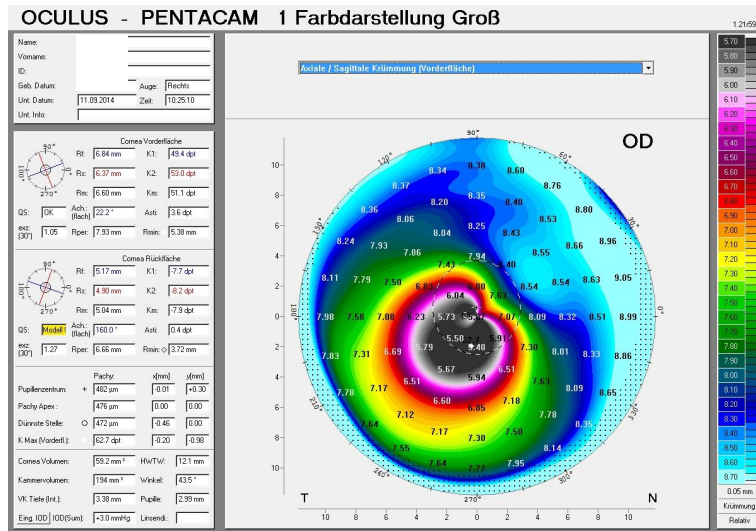
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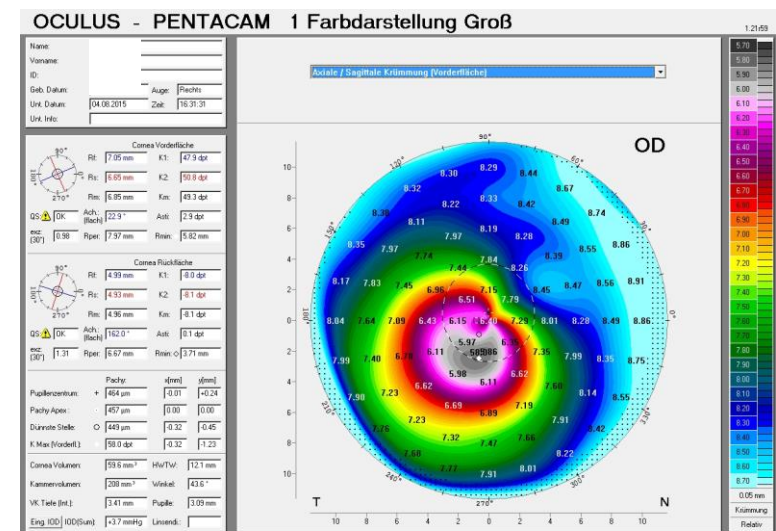
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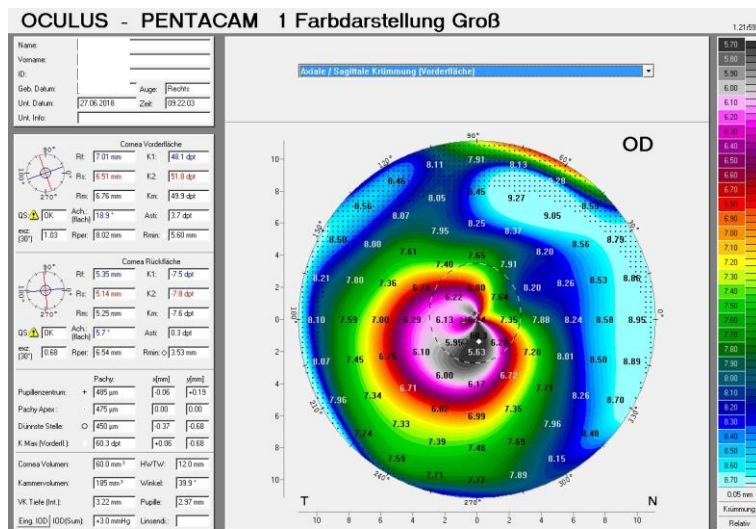
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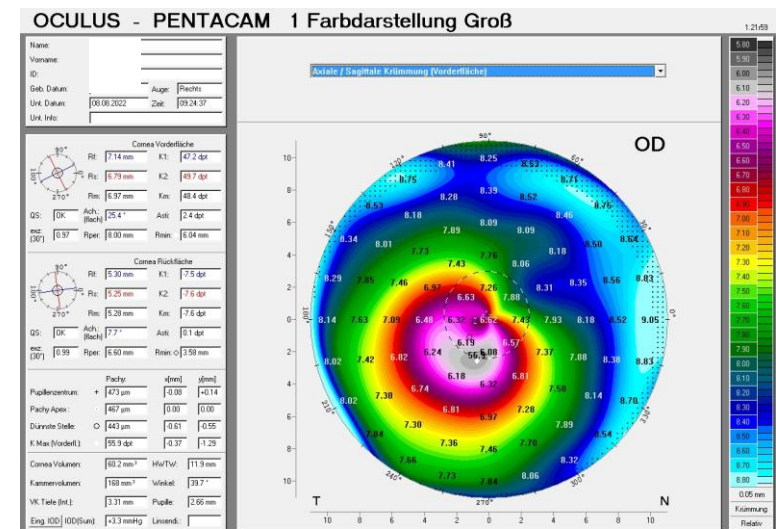
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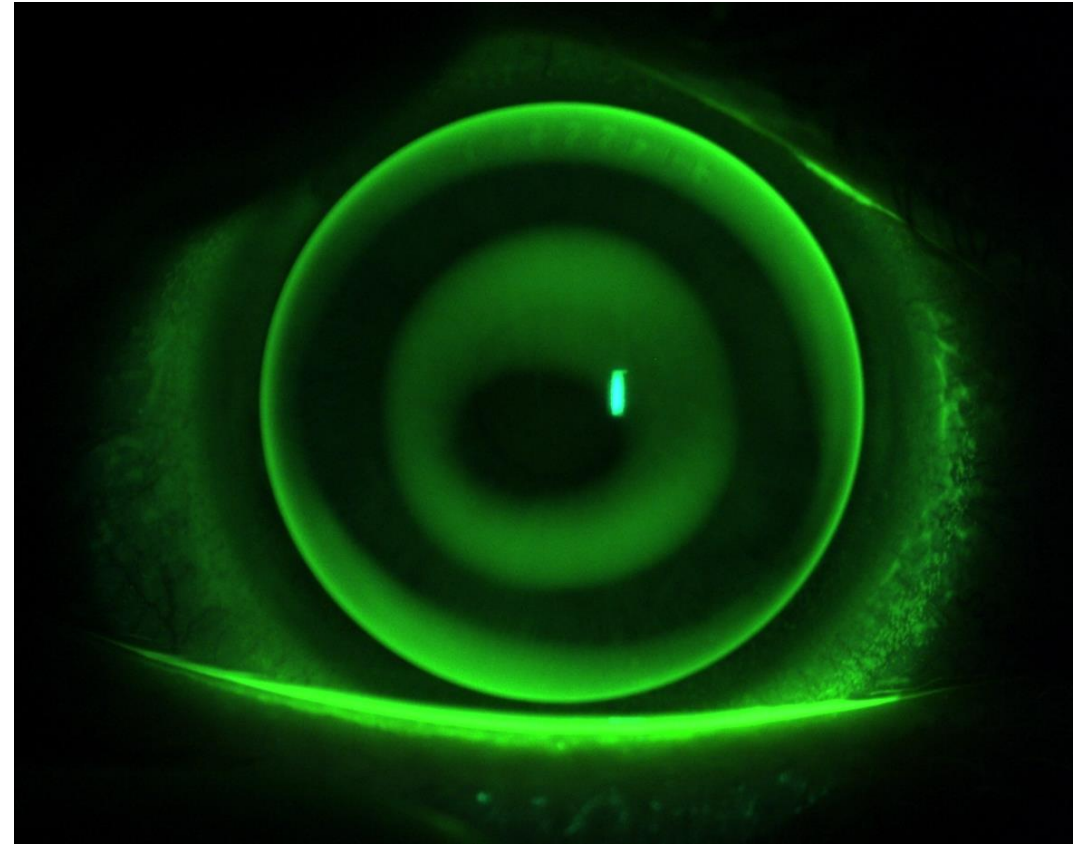
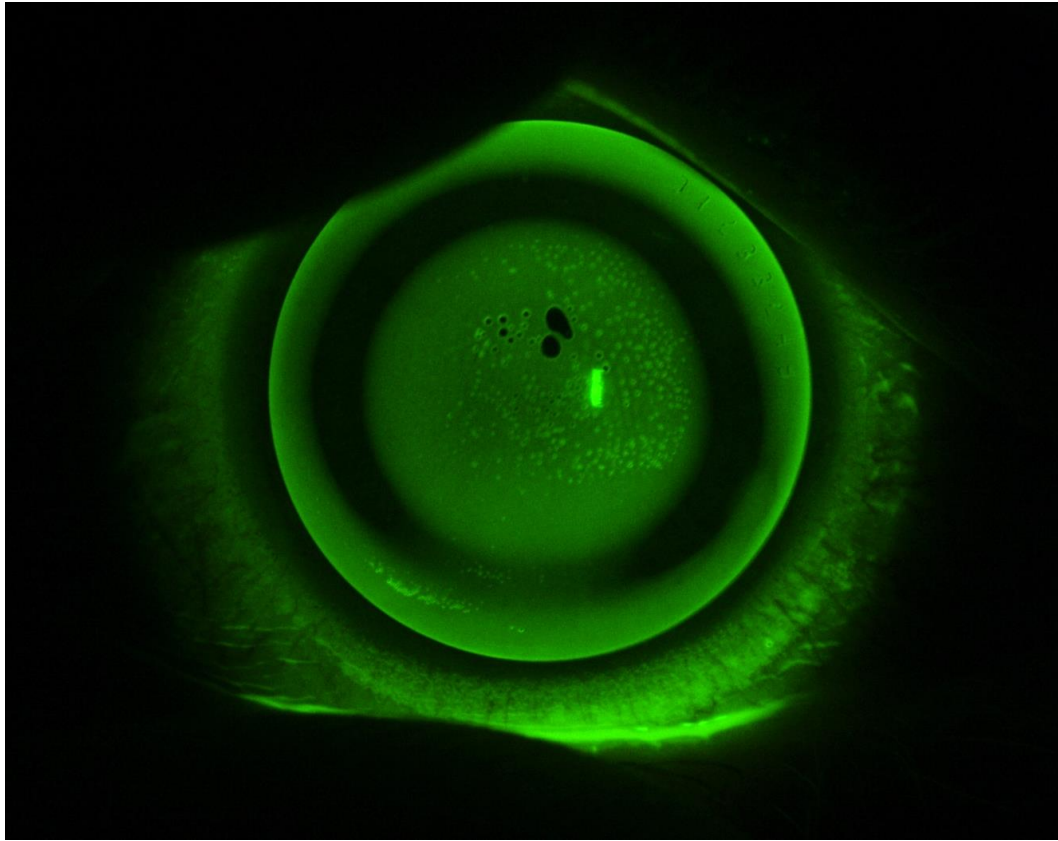
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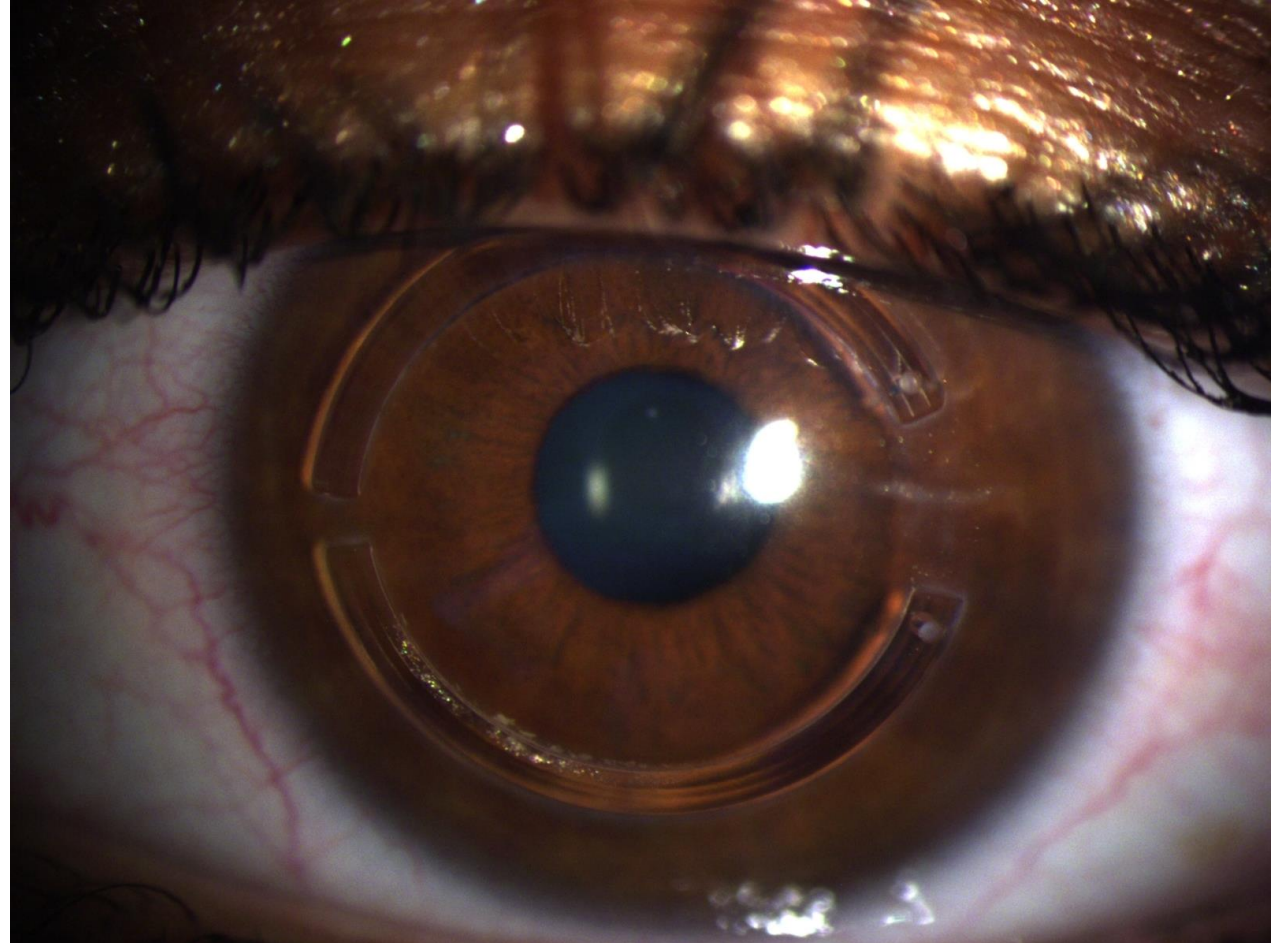
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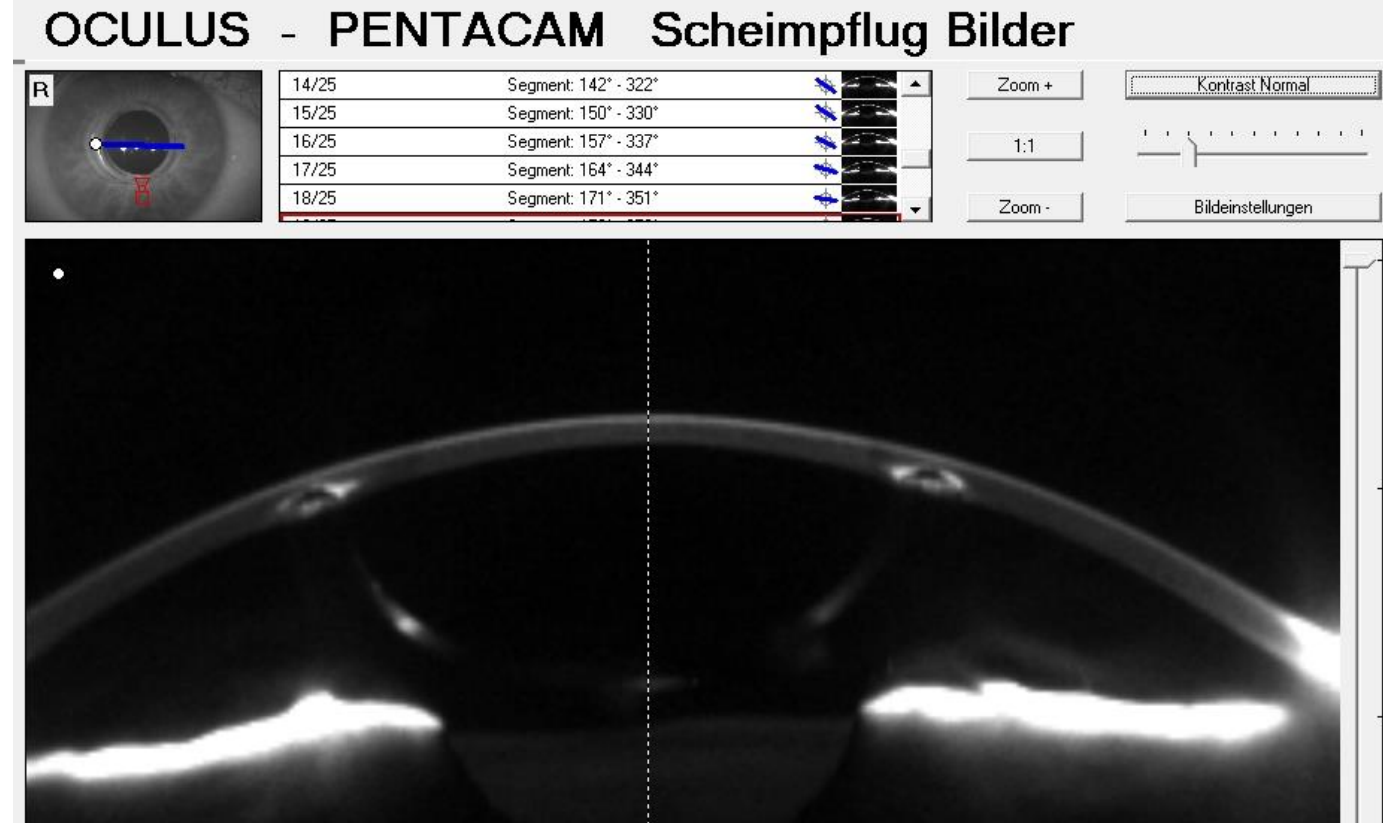
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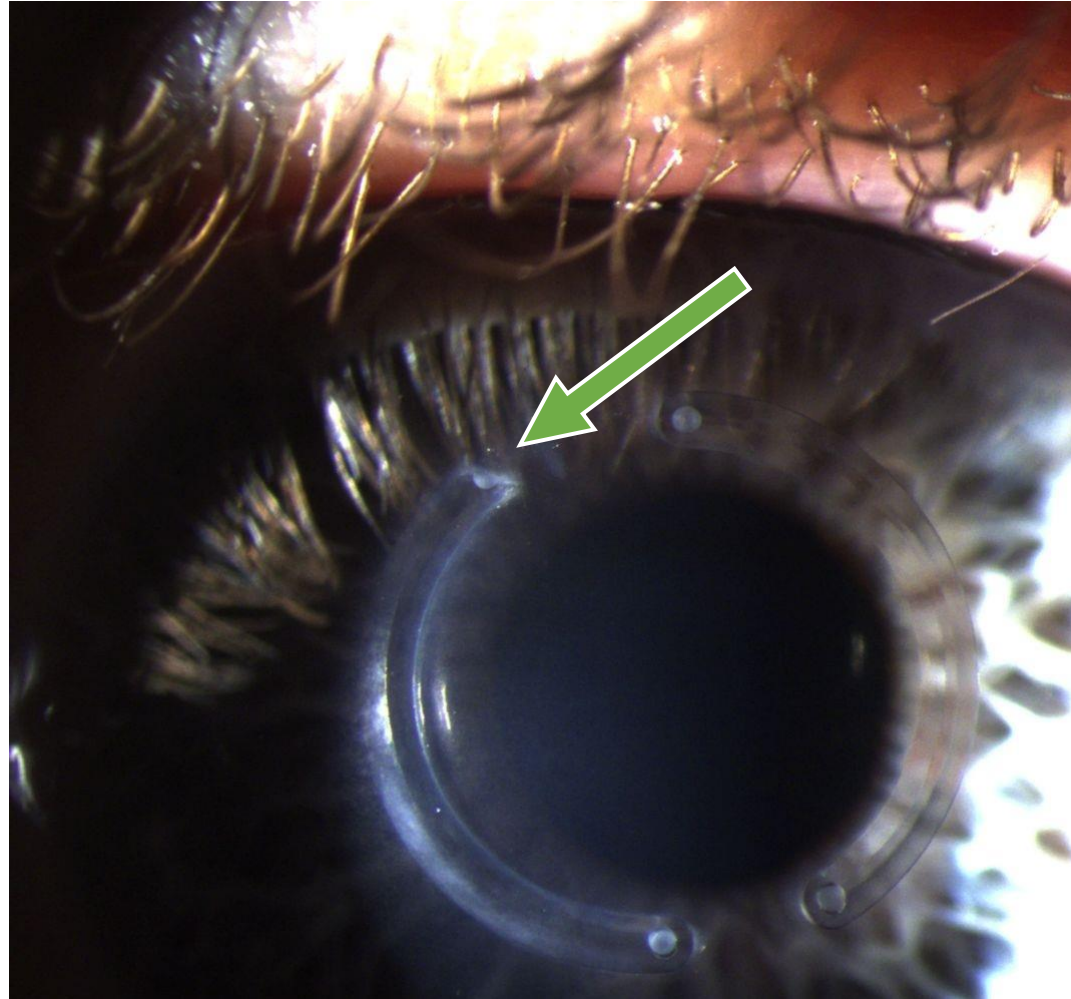




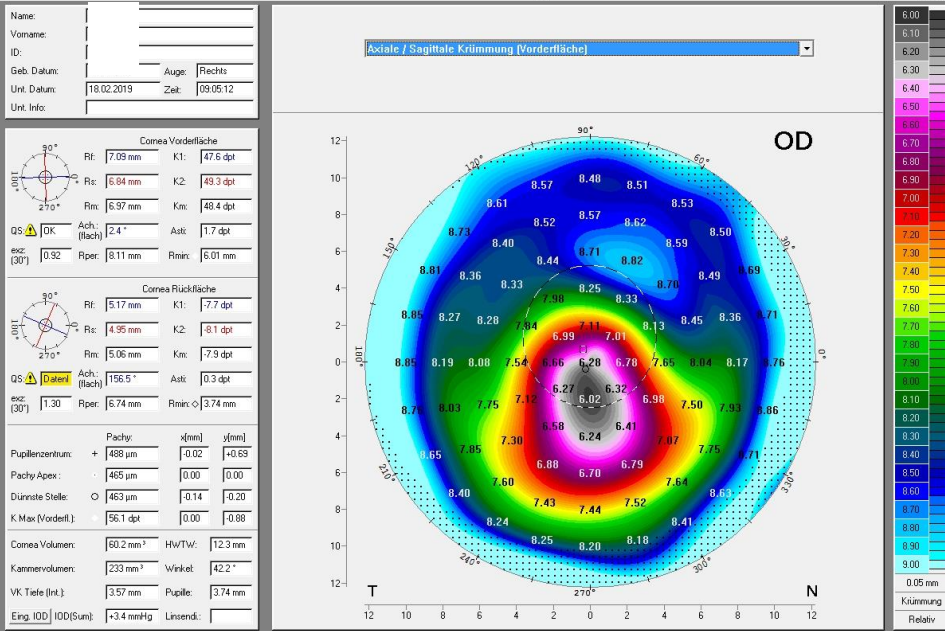
- Tunnel mittels Femtosekundenlaser
- PMMA-Ringsegmente in einer Tiefe von ca. 300 µm
- Ø 6-7 mm um Apex
- unterschiedliche Profile







OCULUS - PENTACAM 1 Farbdarstellung Groß



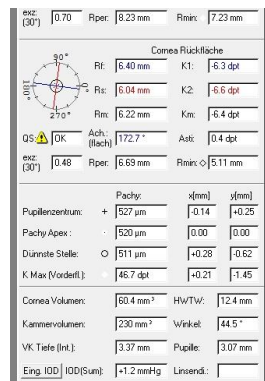
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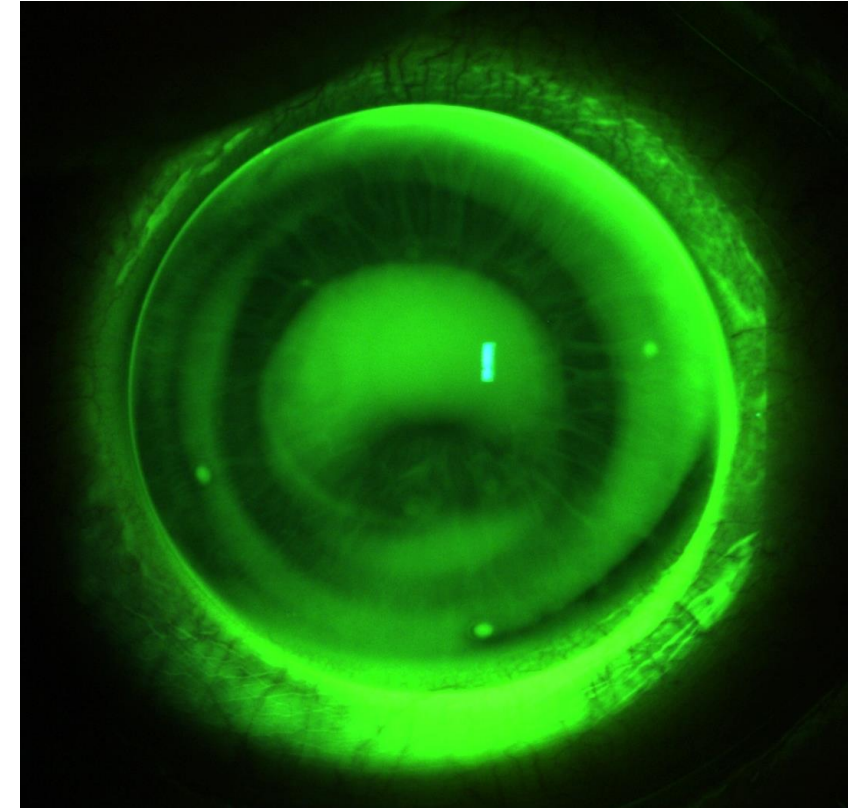
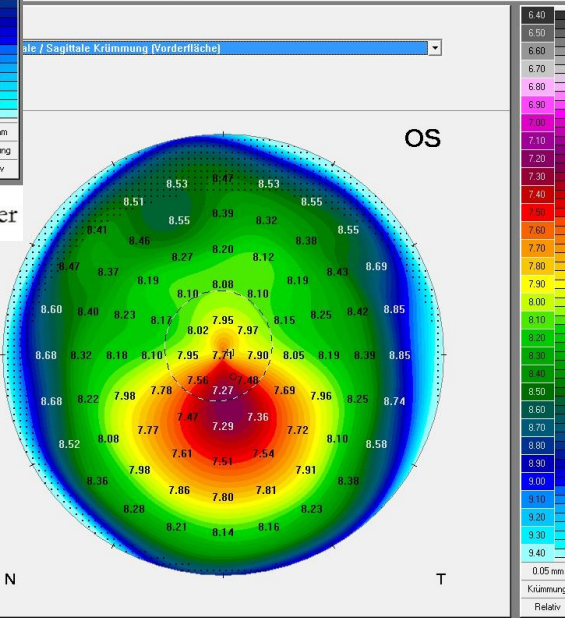
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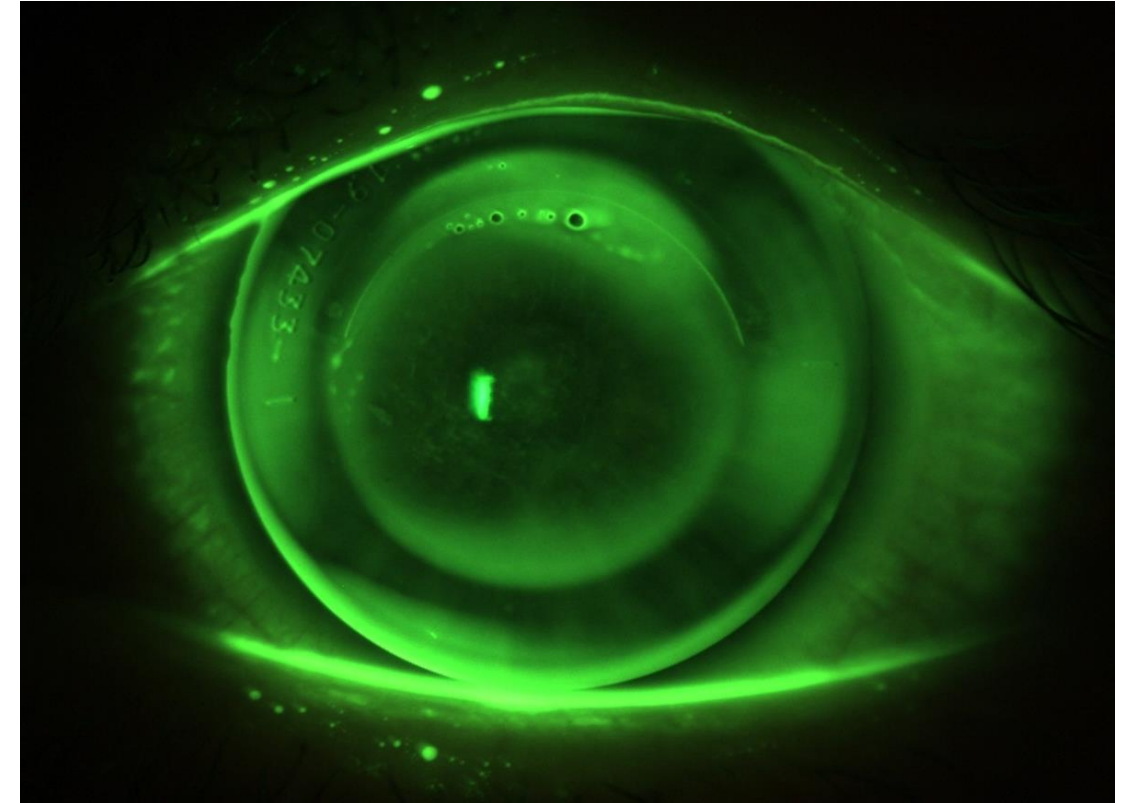
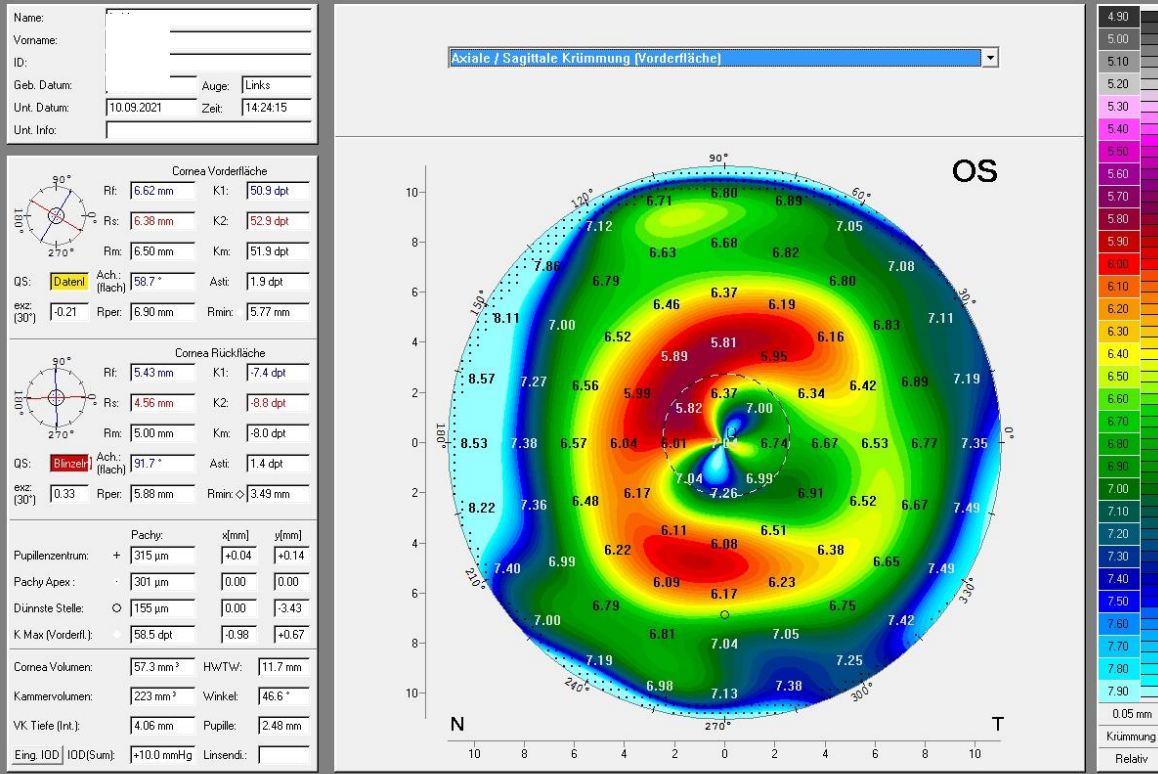
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Farbdarstellung Groß



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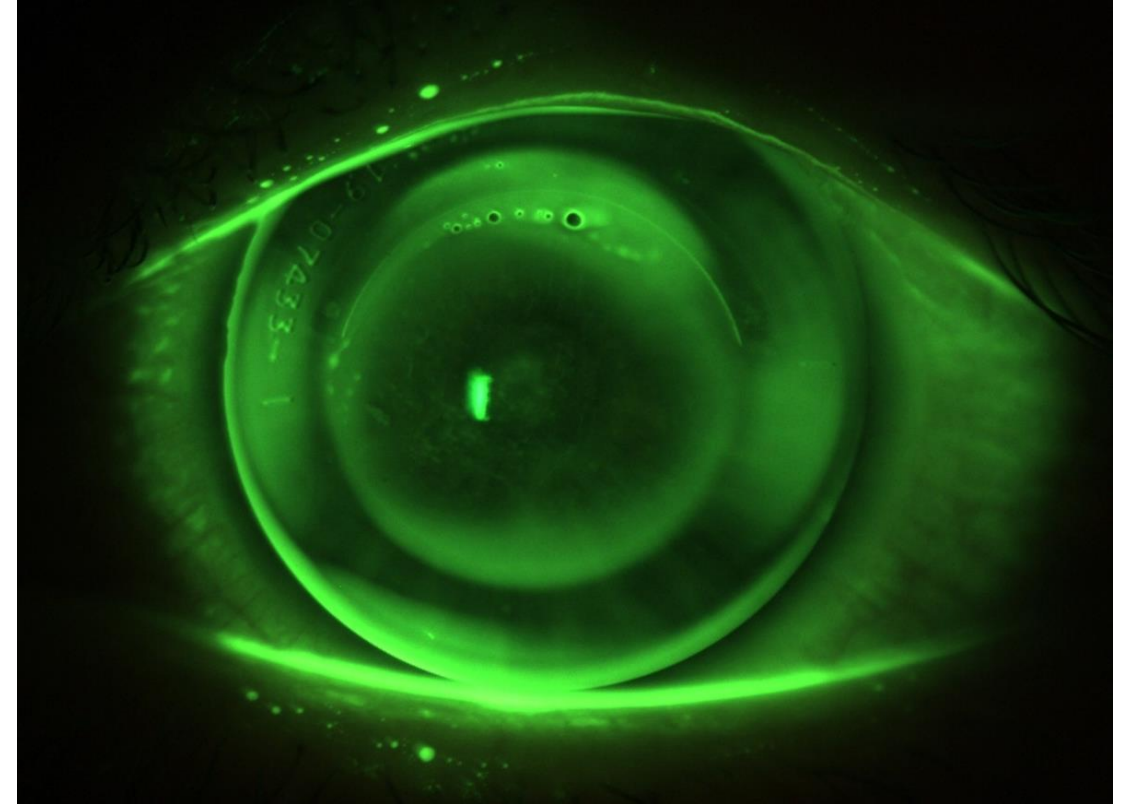
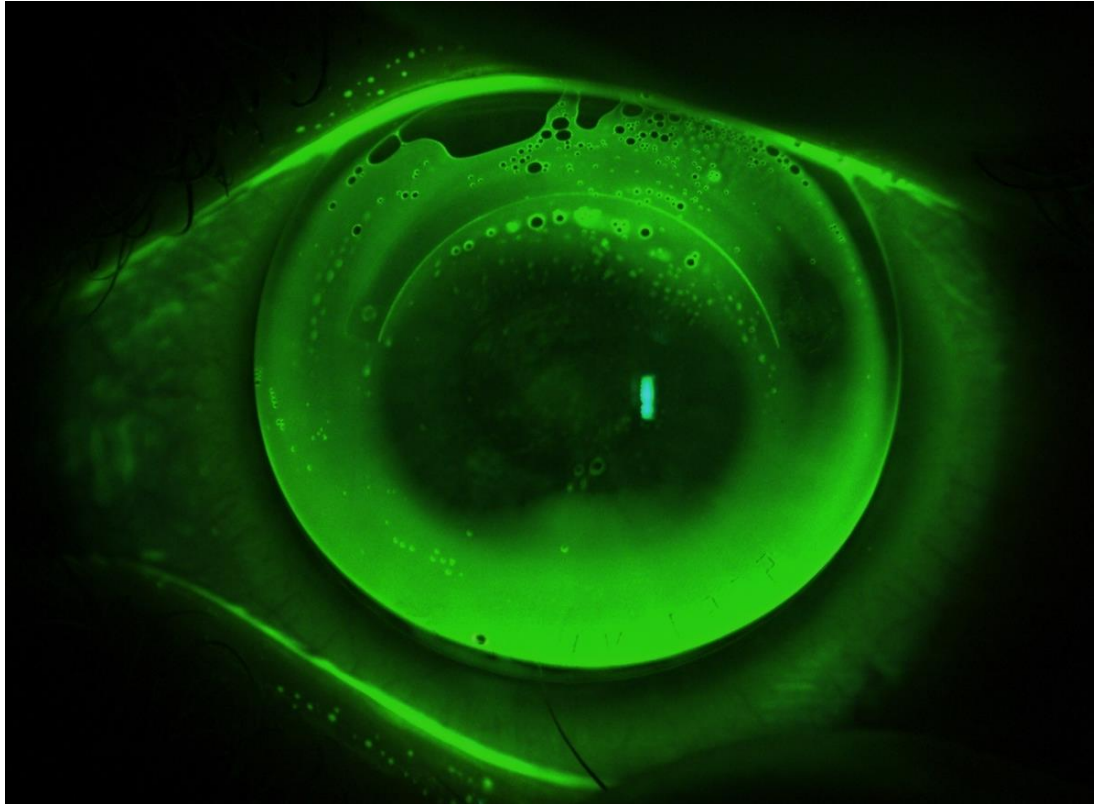


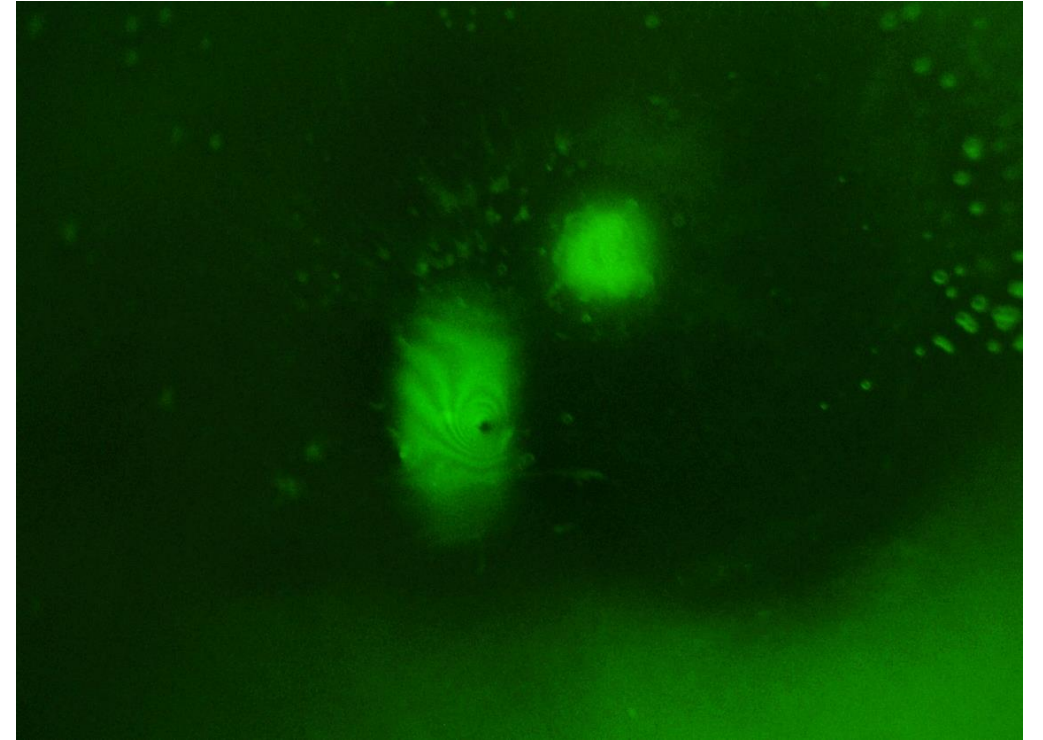
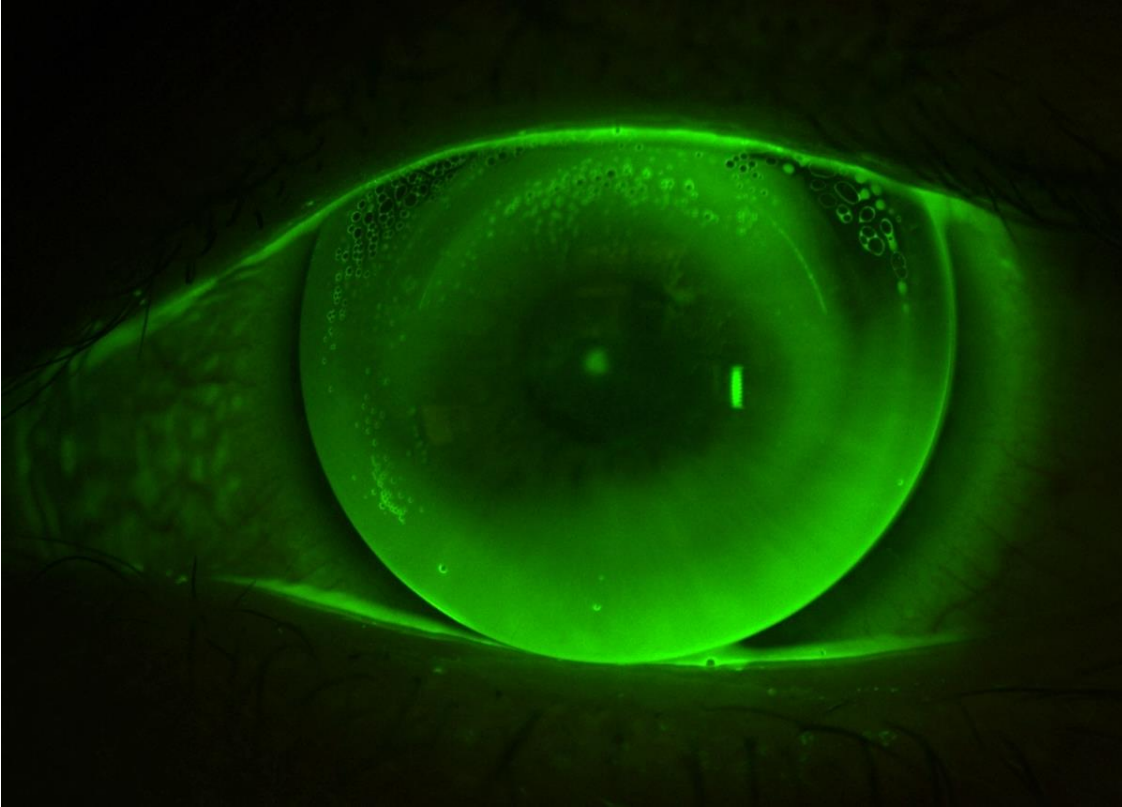
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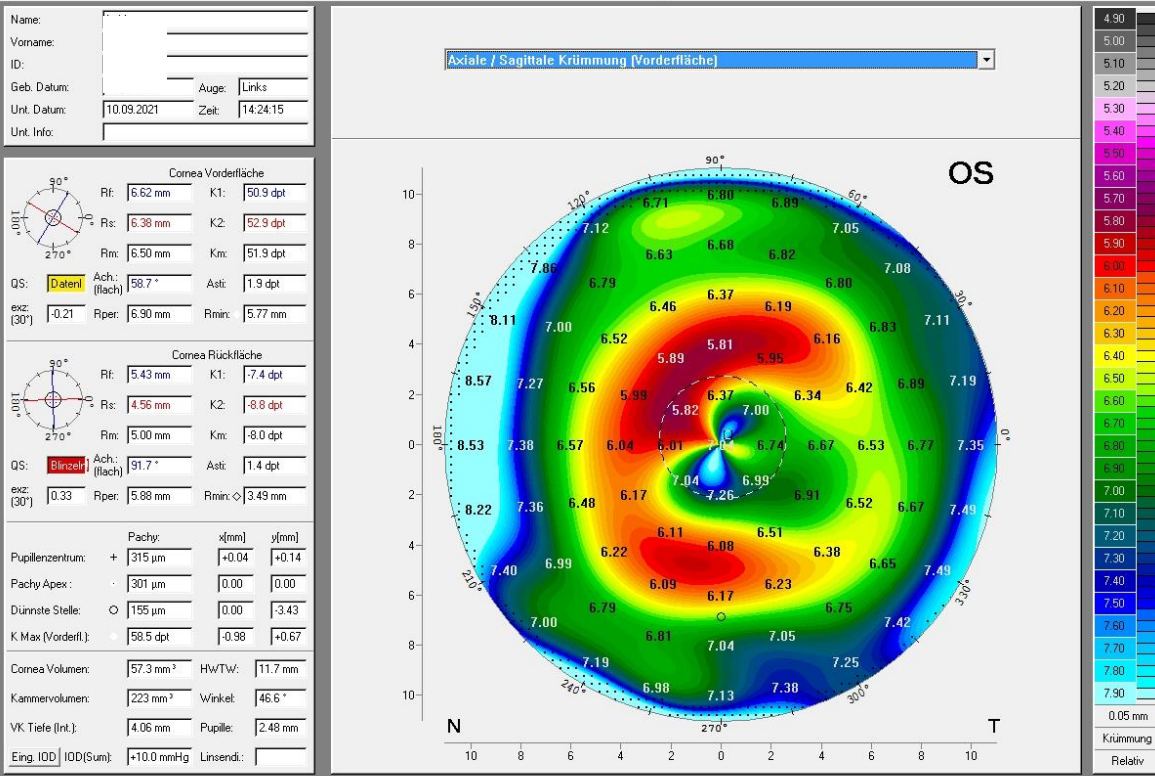
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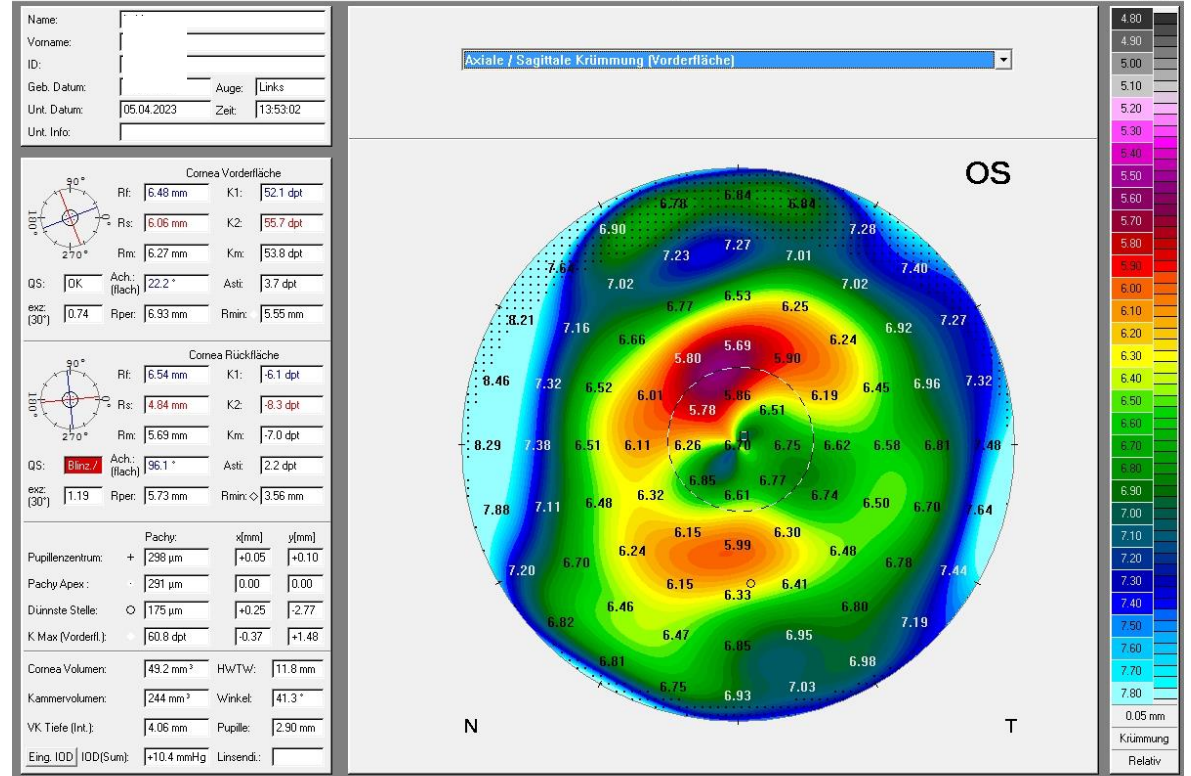


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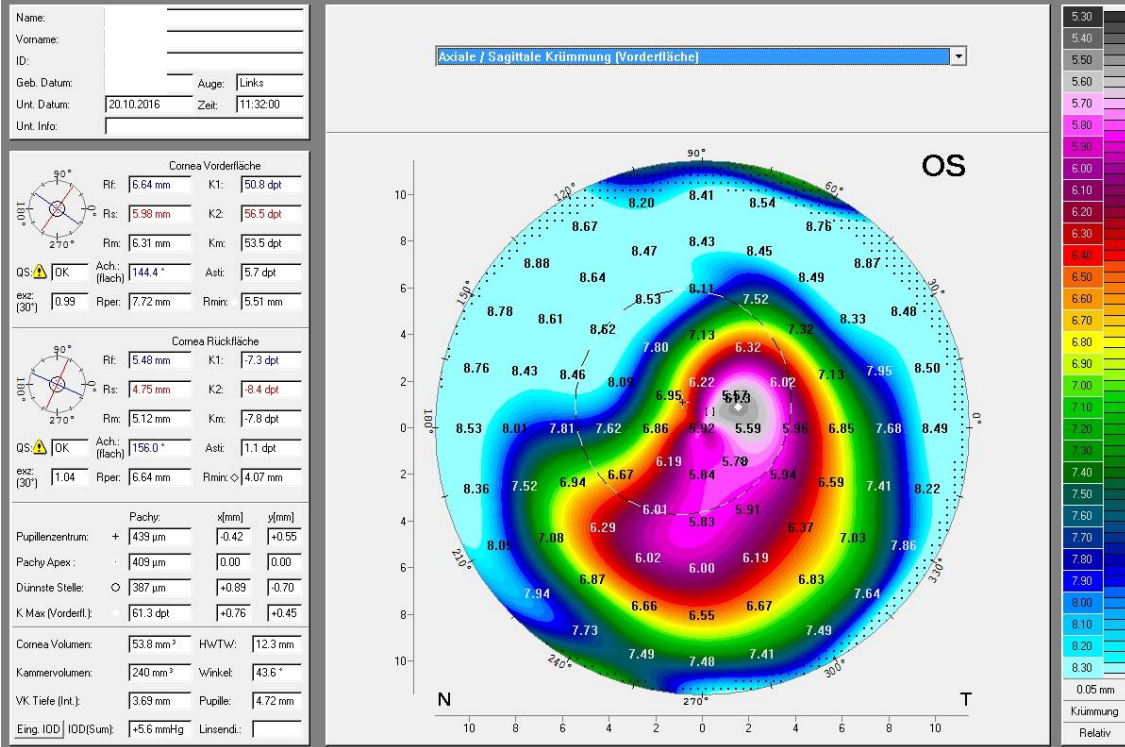
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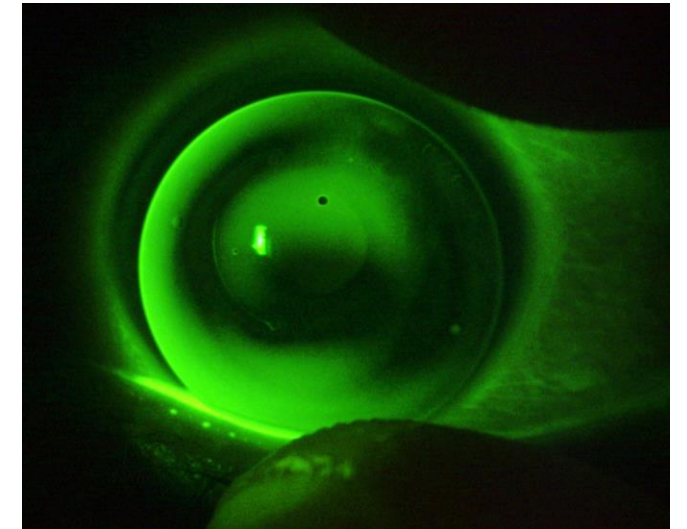
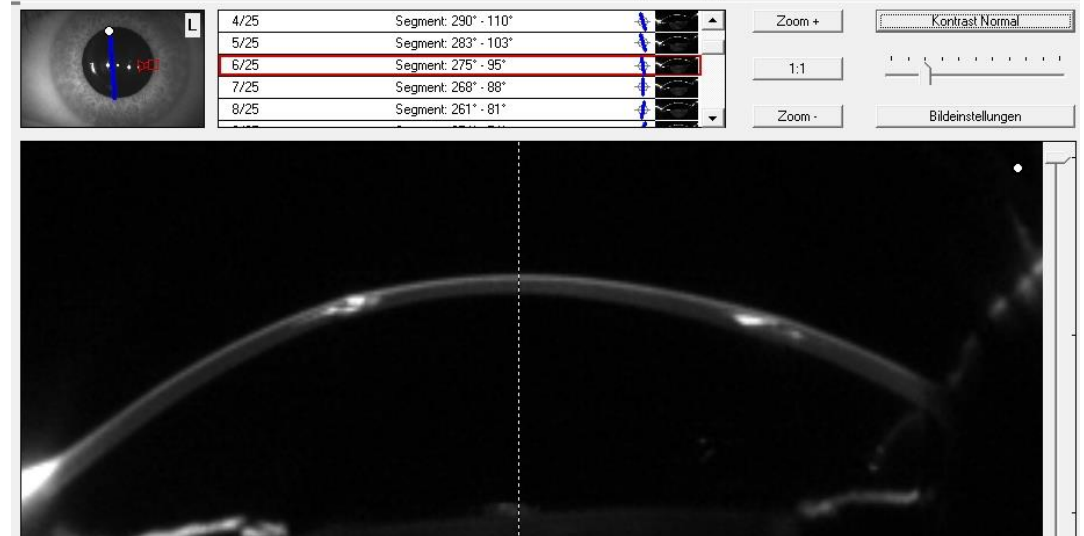


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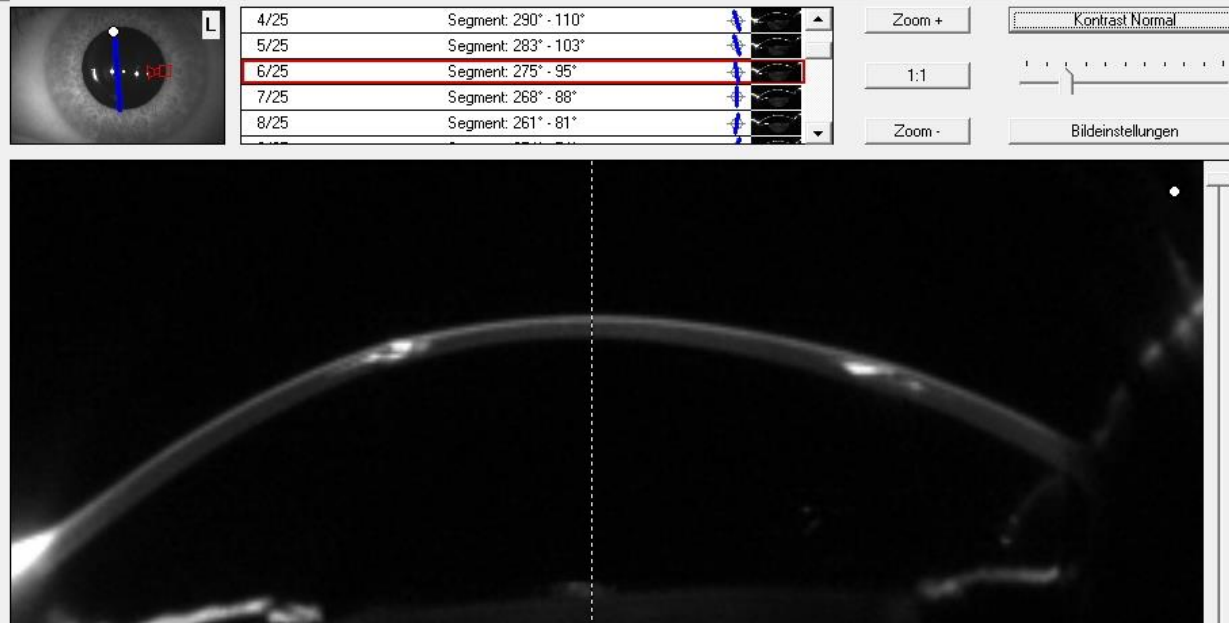
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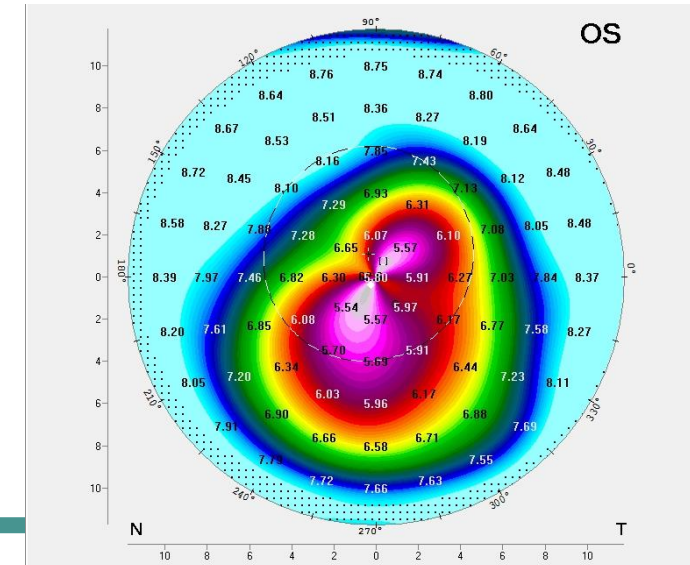
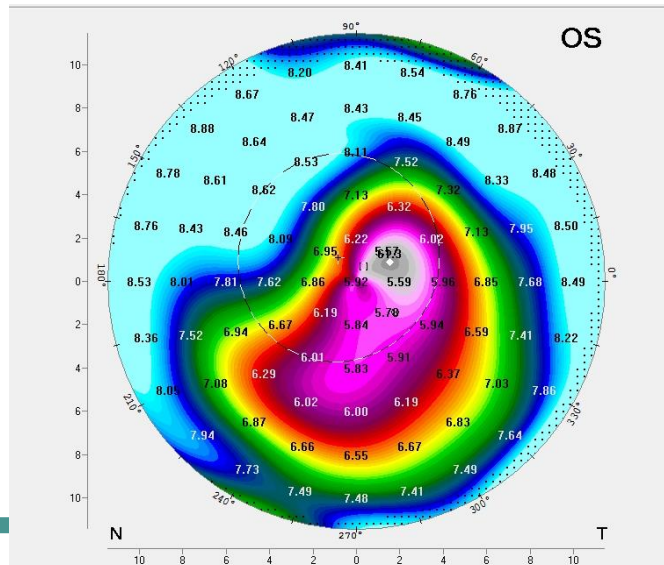
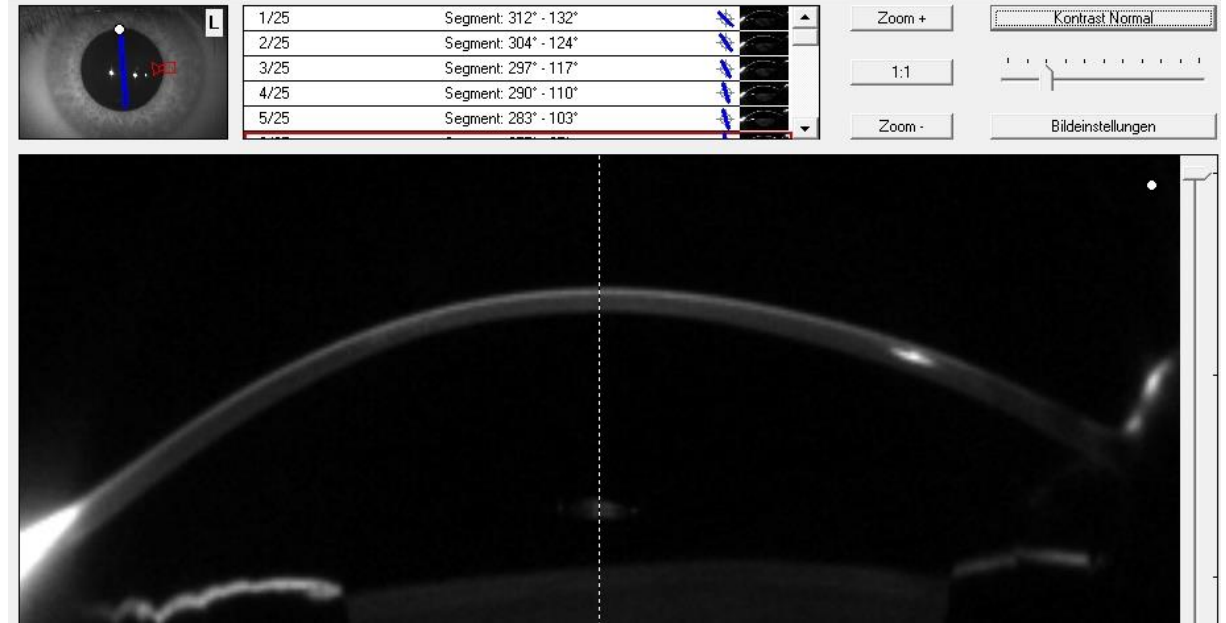
OCULUS - PENTACAM Scheimpflug Bilder



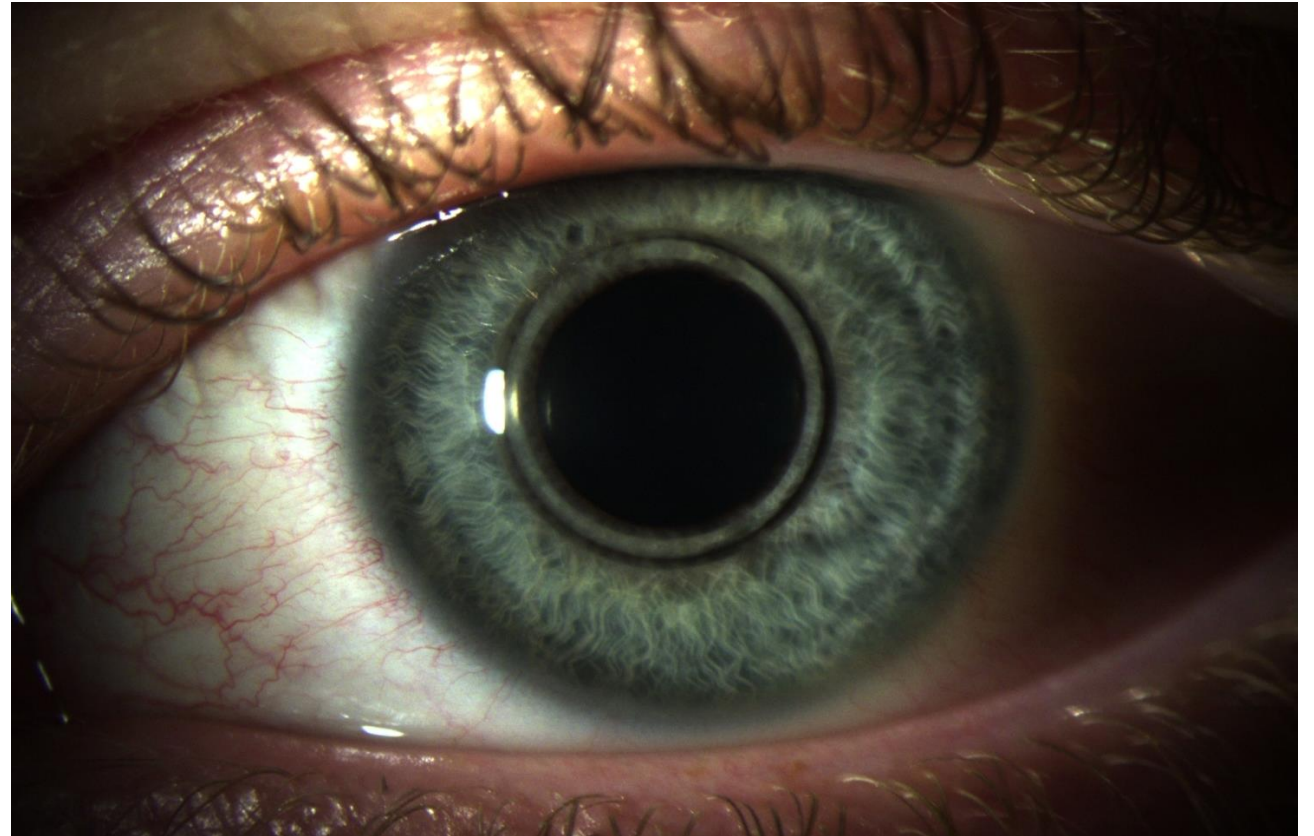
OCULUS - PENTACAM Scheimpflug Bilder

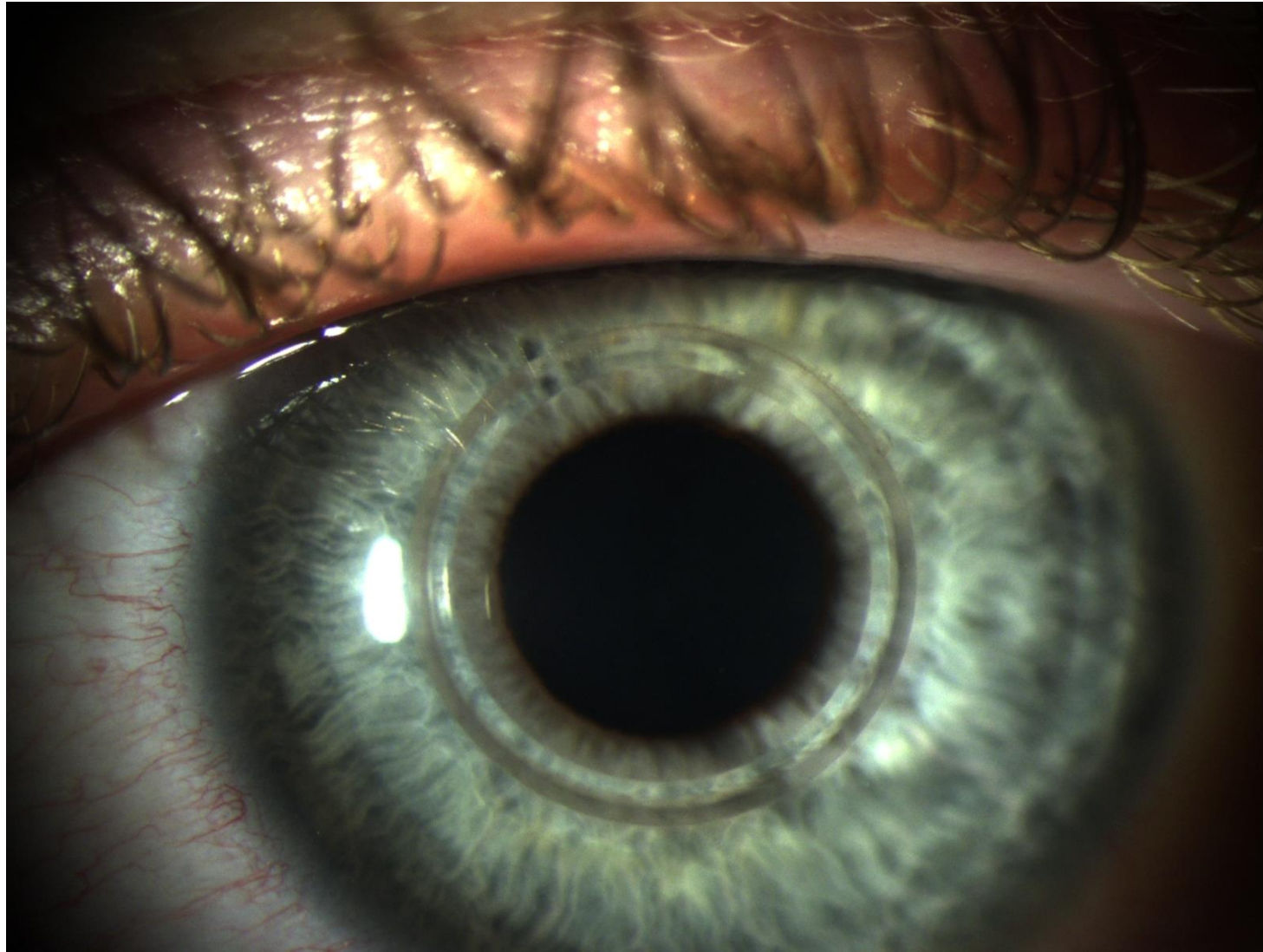


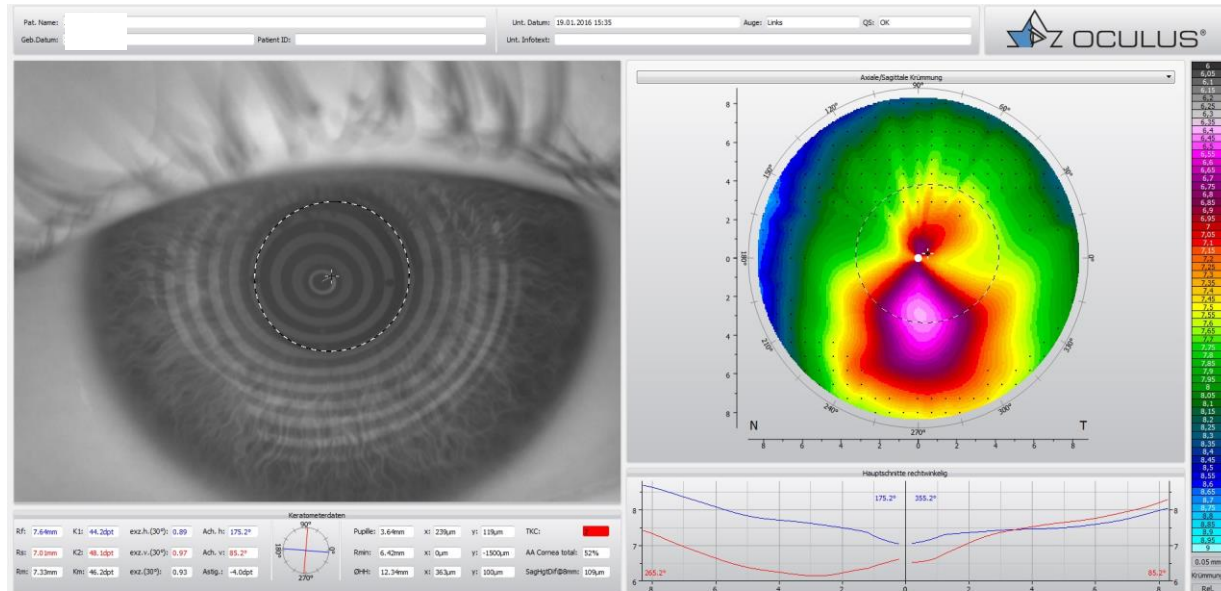
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- Hornhaut-„Tasche“ mittels Femtosekundenlaser oder Spezialinstrument
- implantierter PMMA-Ring in einer Tiefe von ca. 300 μm
- zur „Straffung“ der zentralen Cornea



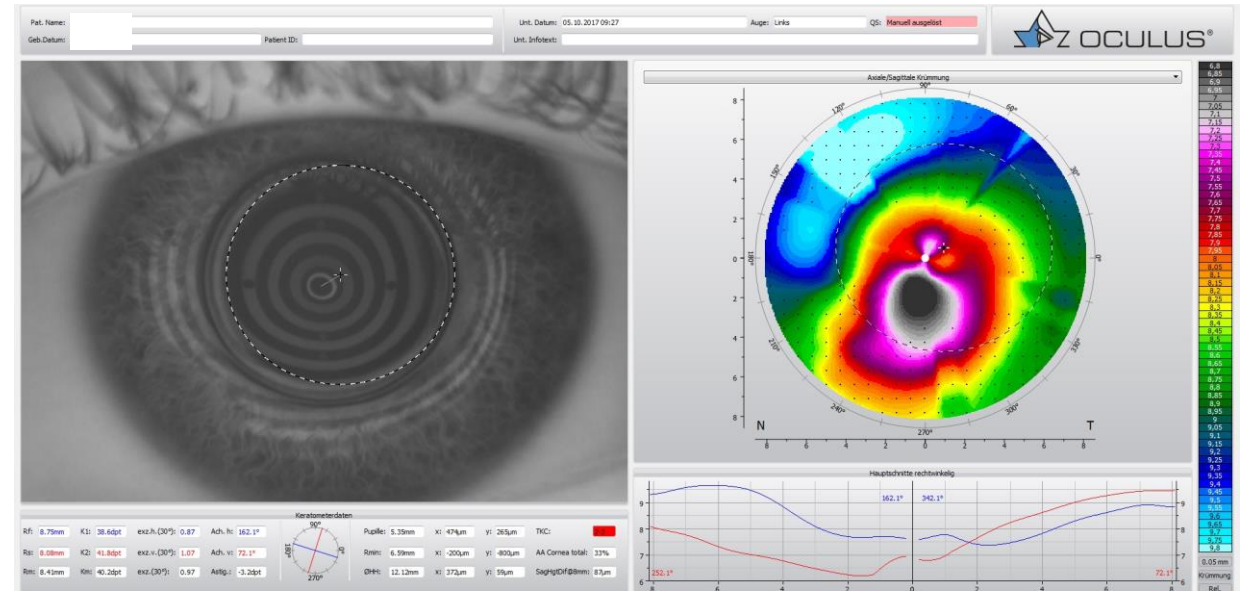




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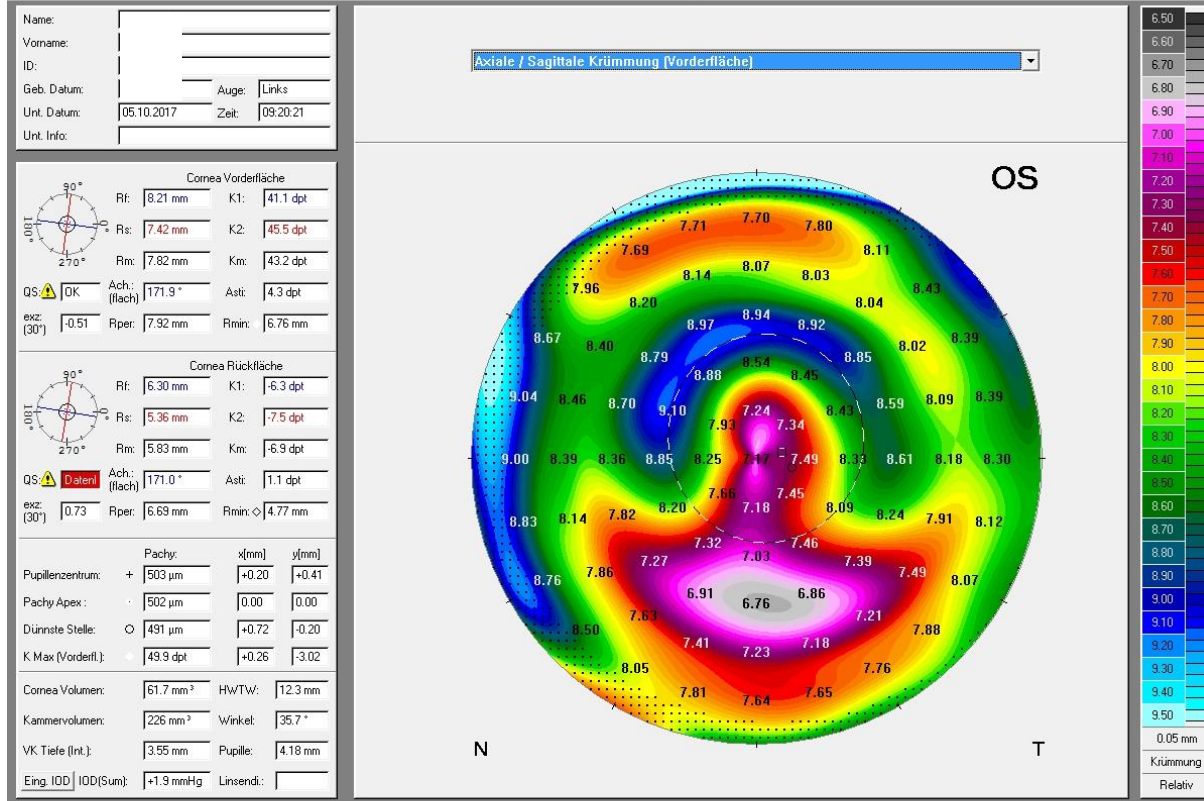
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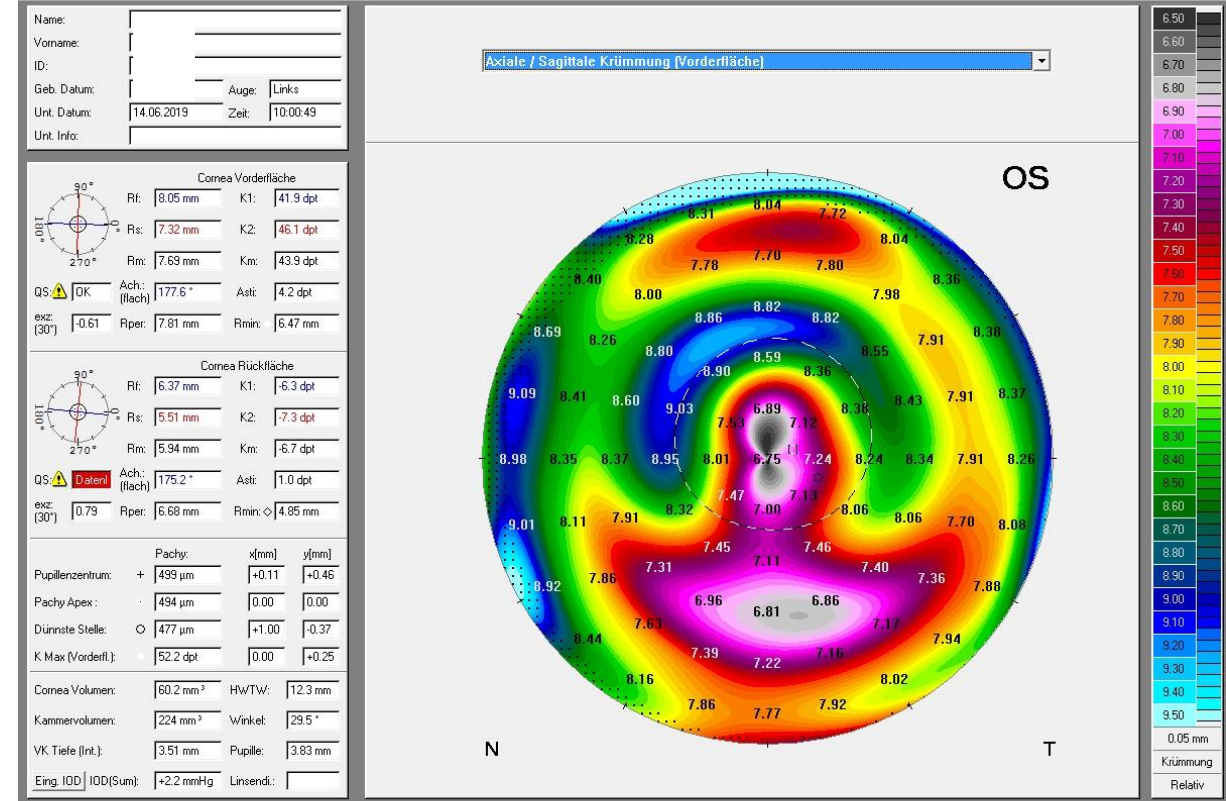


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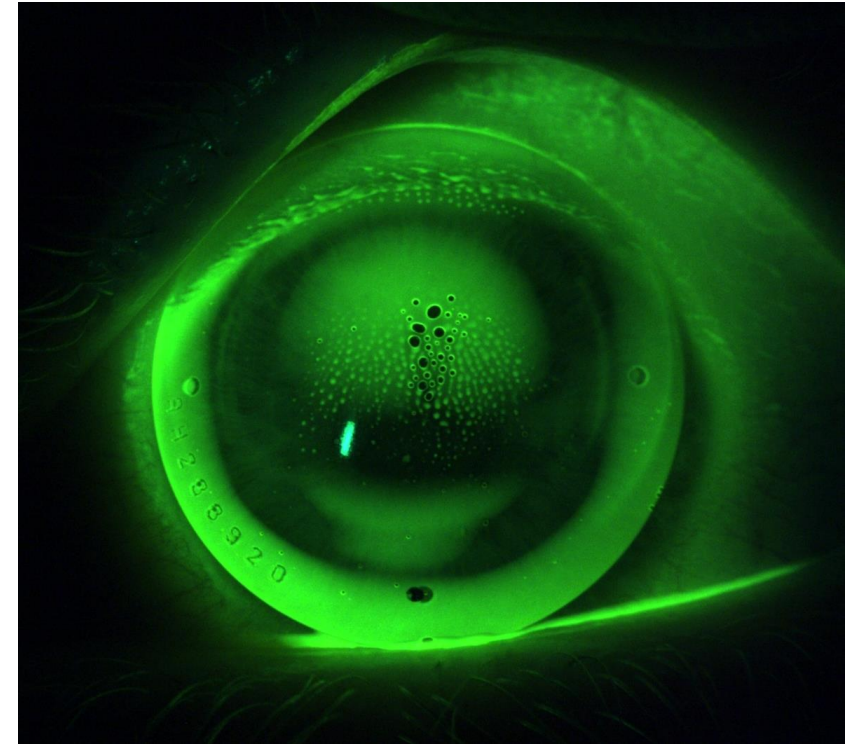
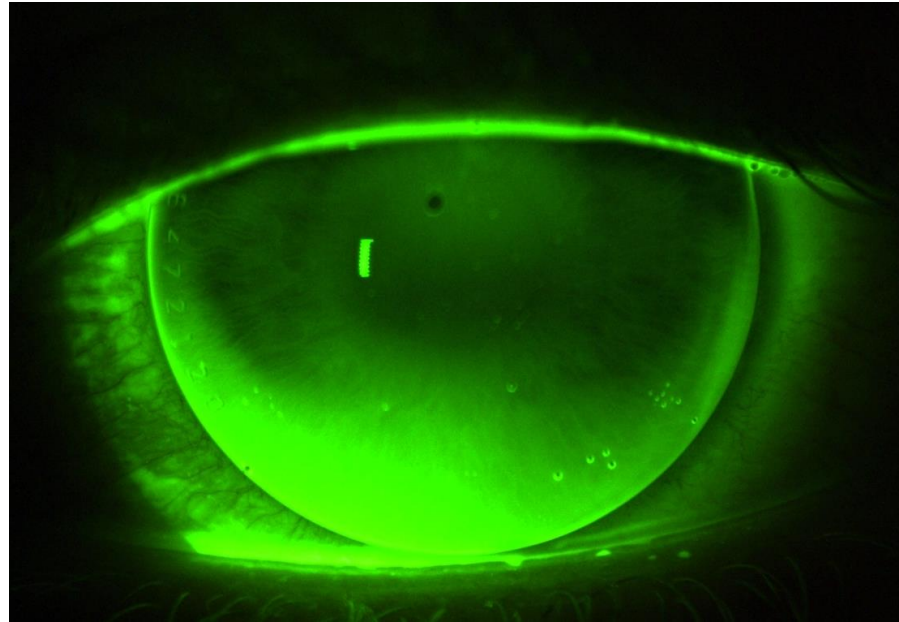


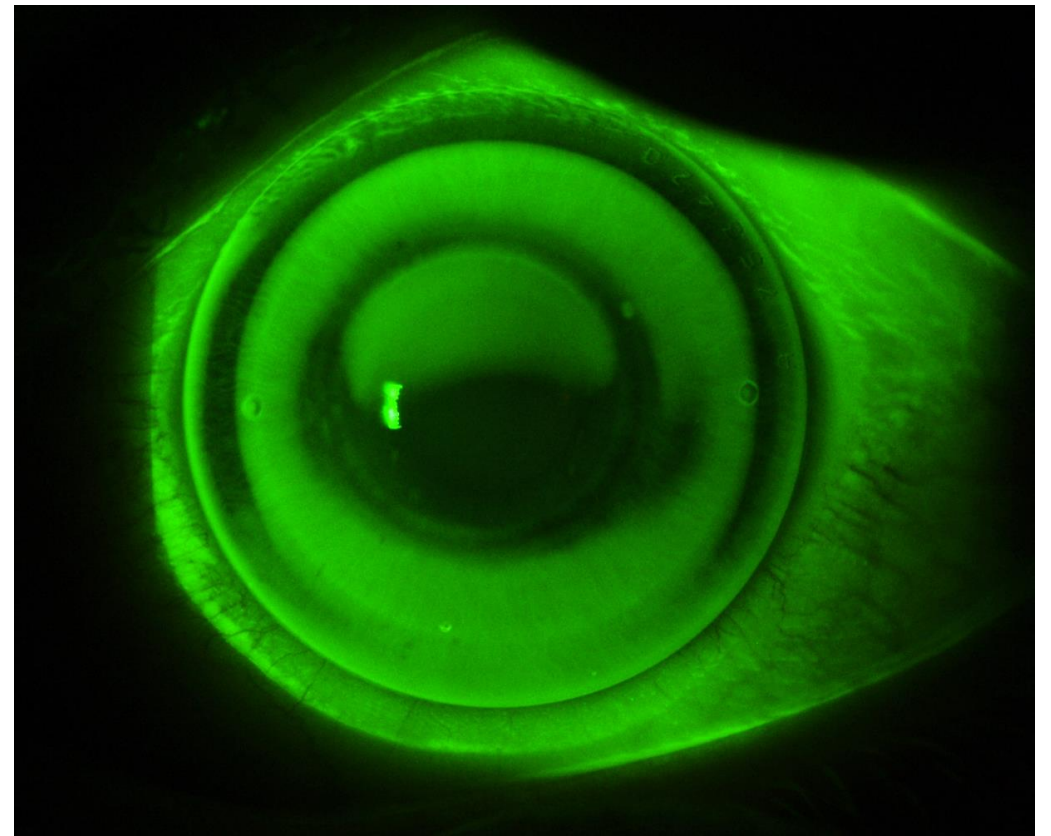
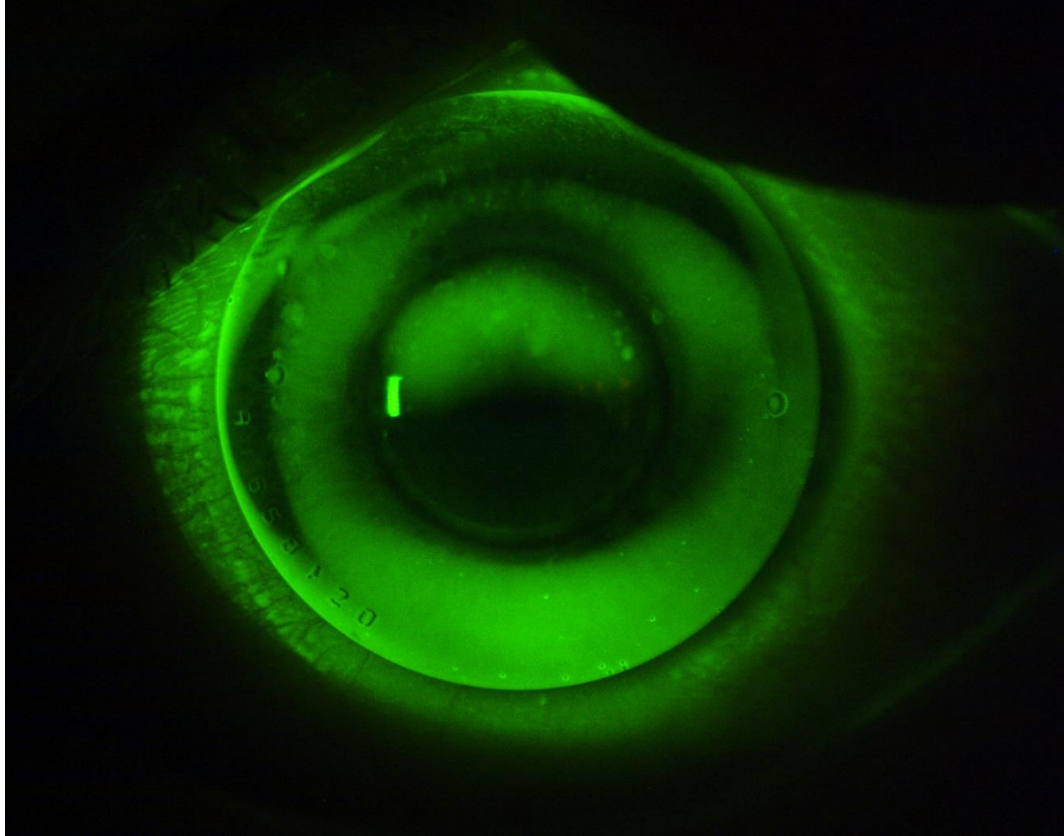
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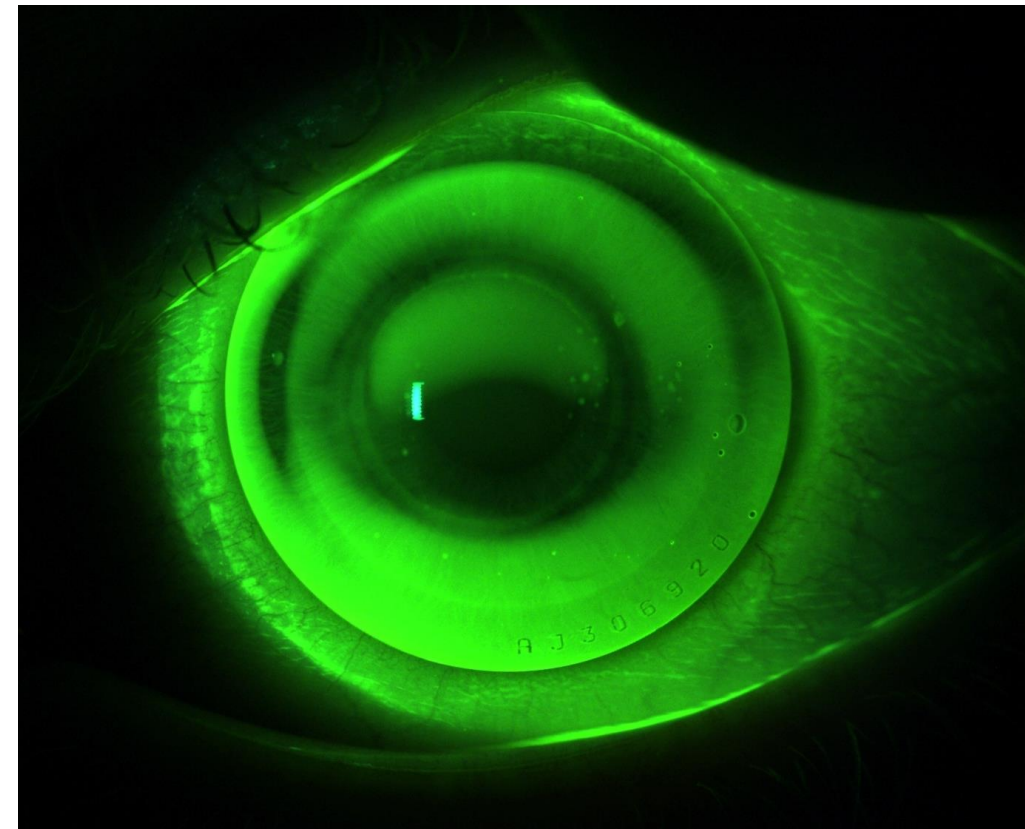
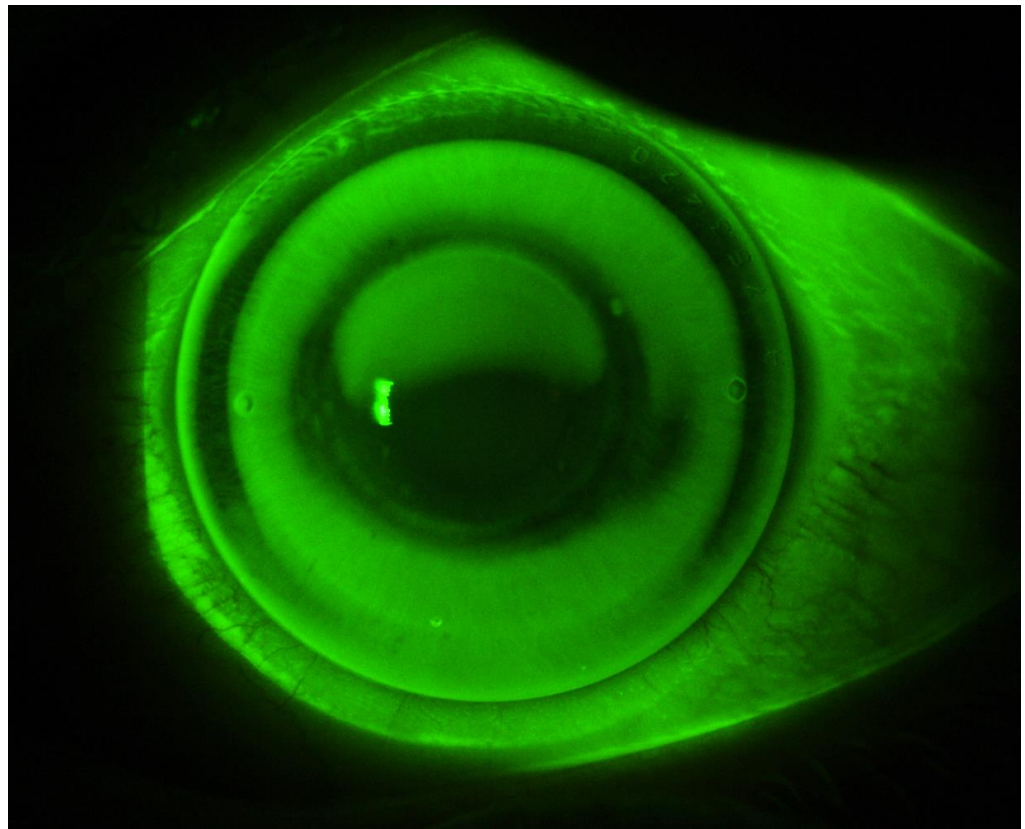
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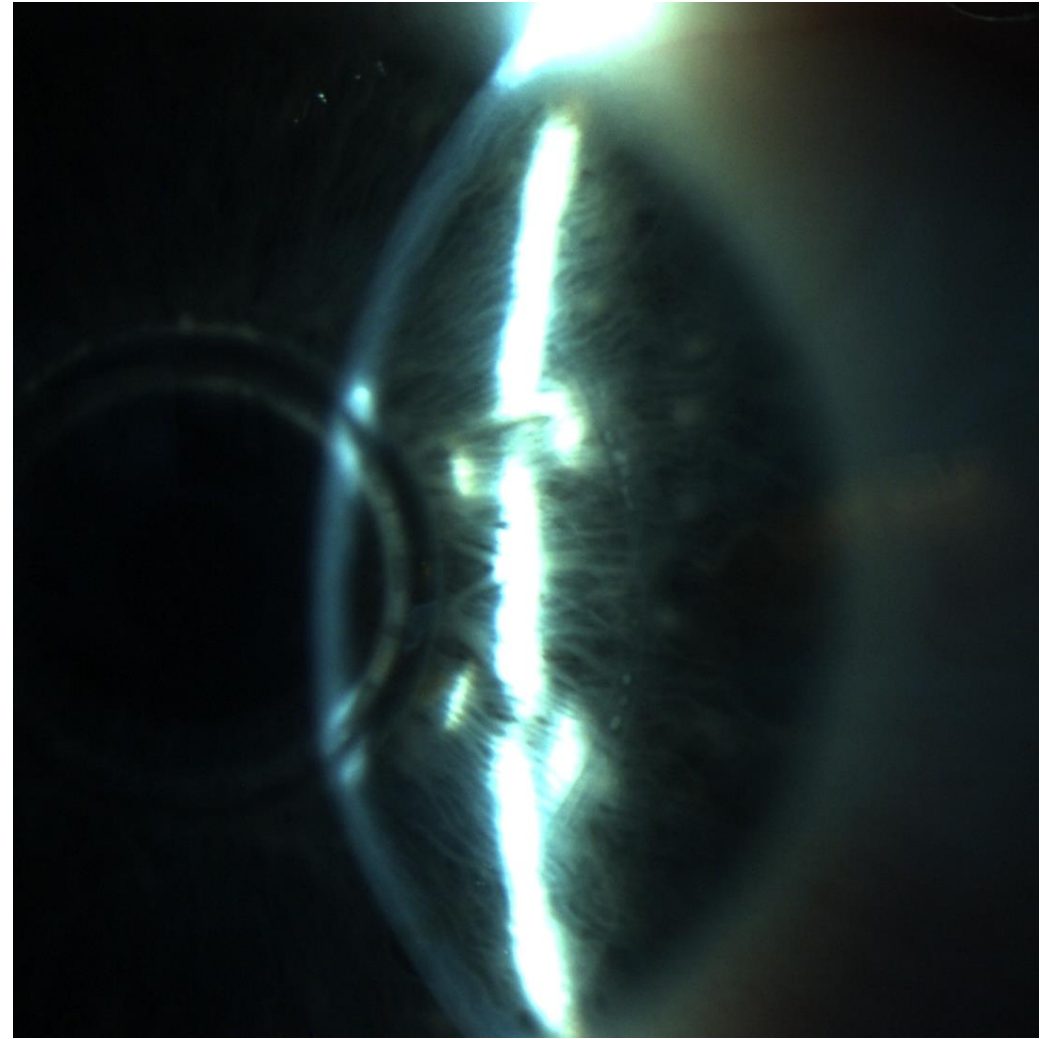
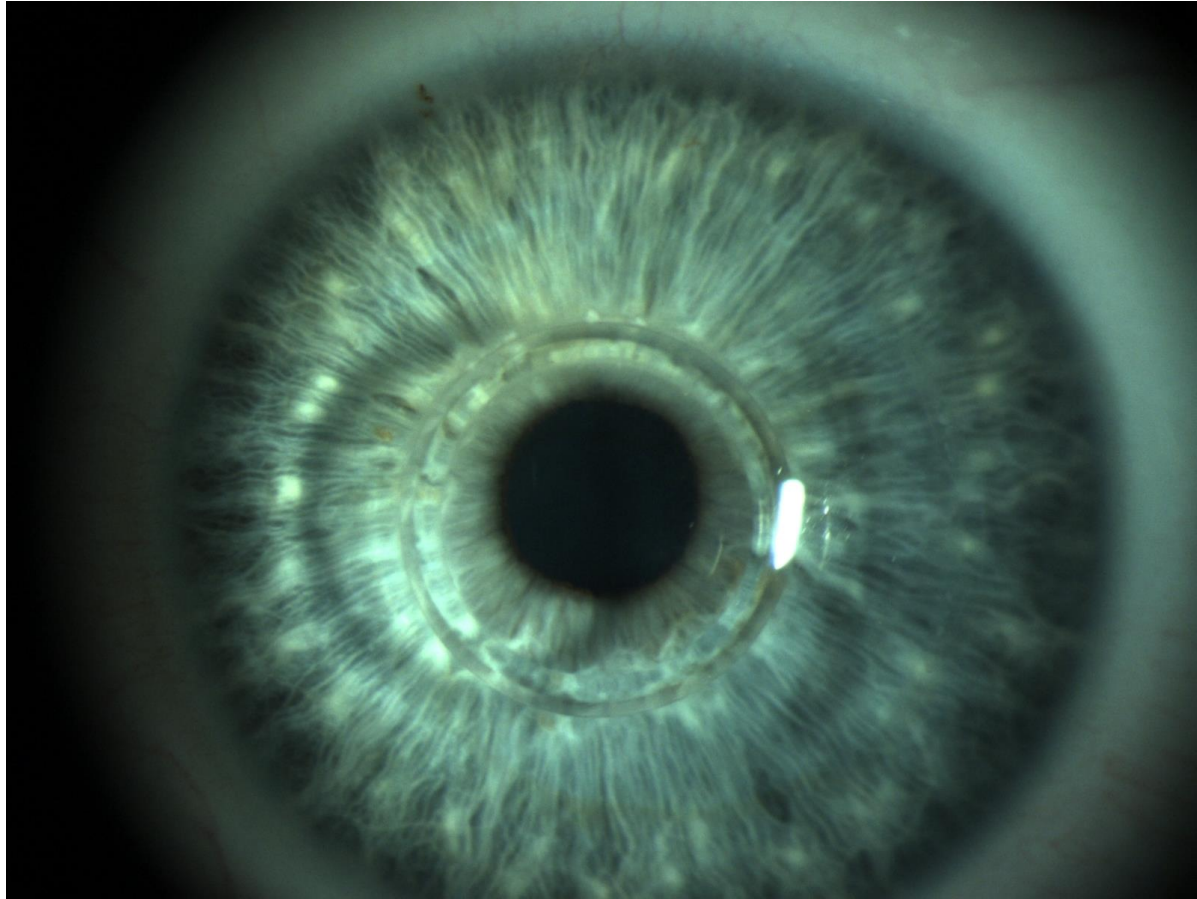
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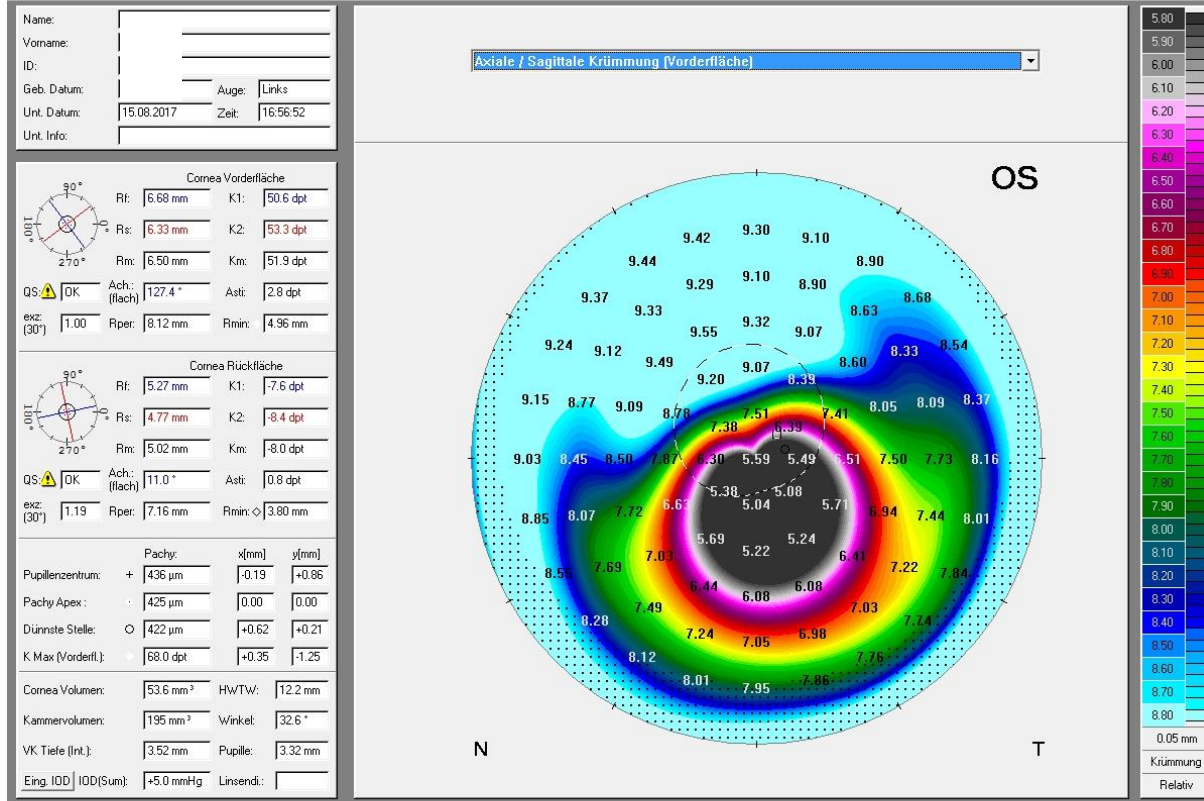


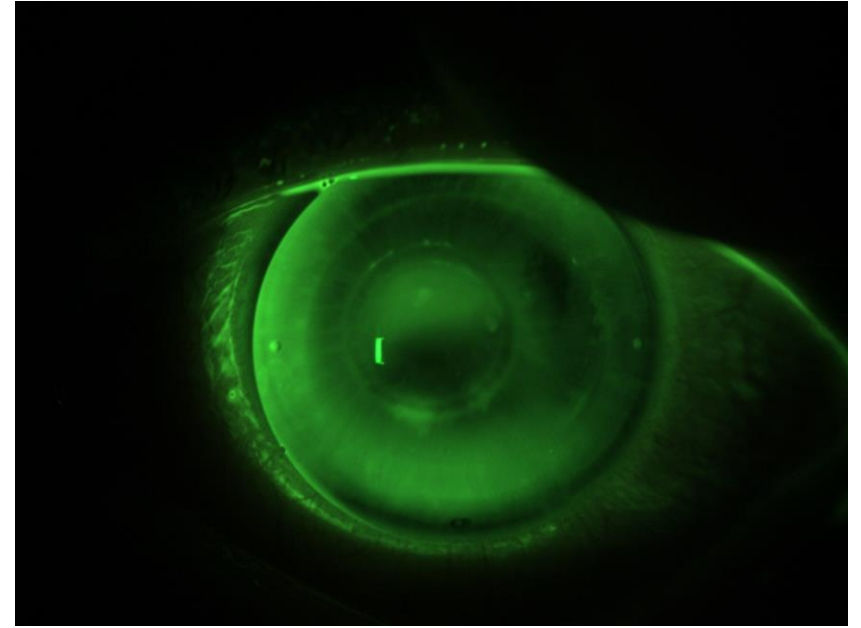
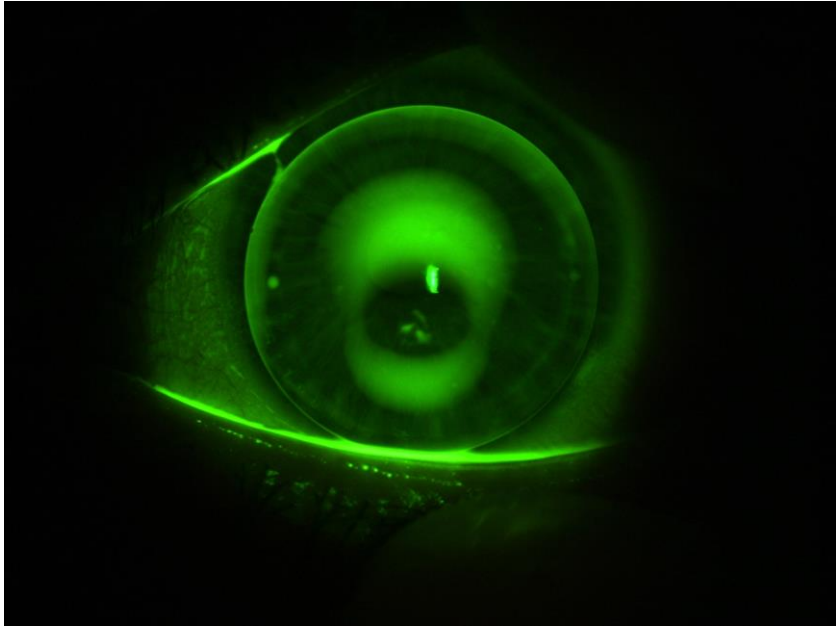




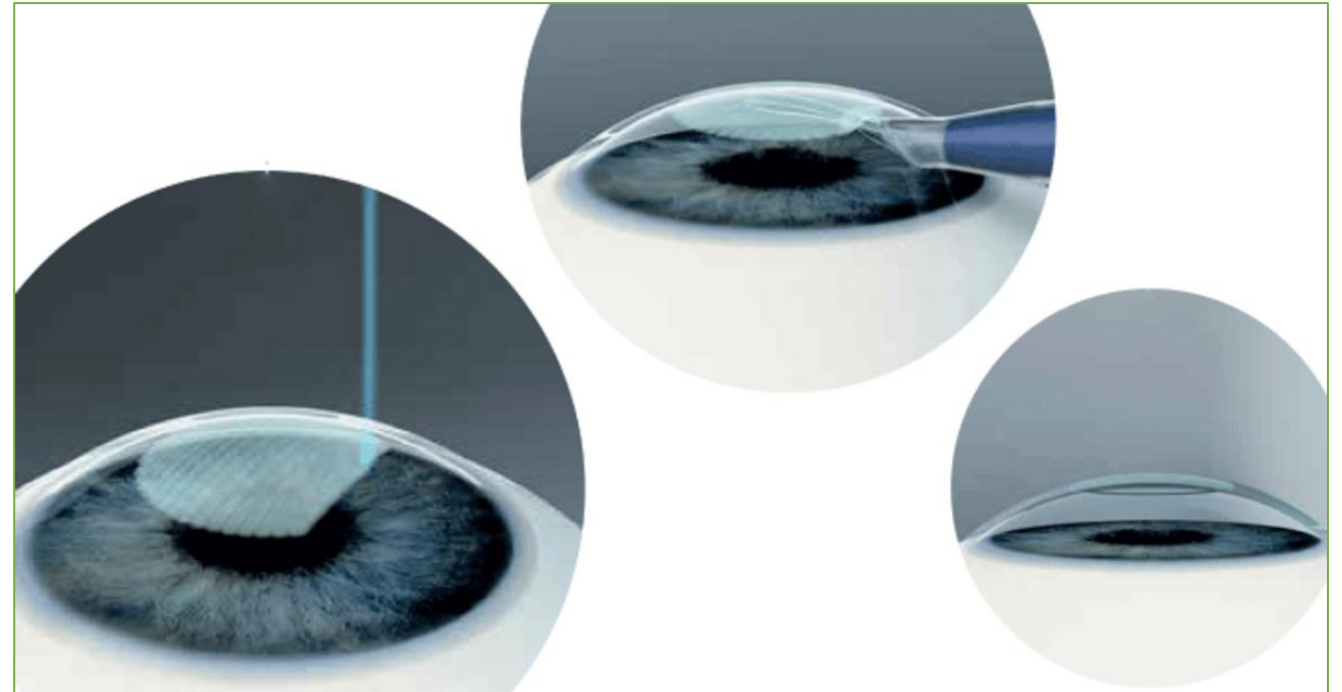


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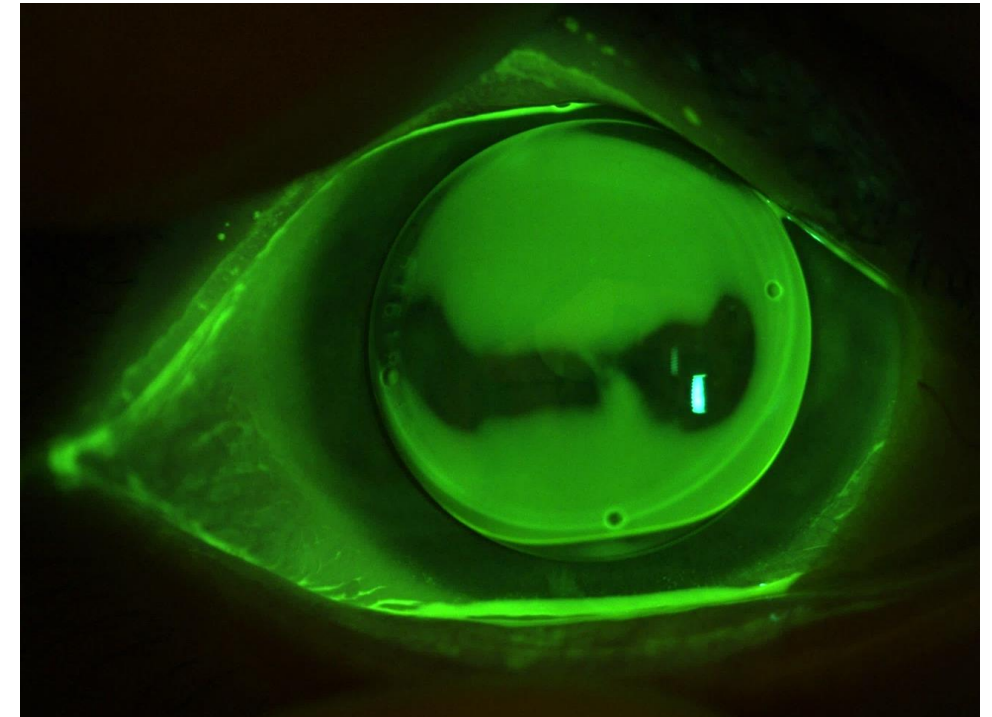
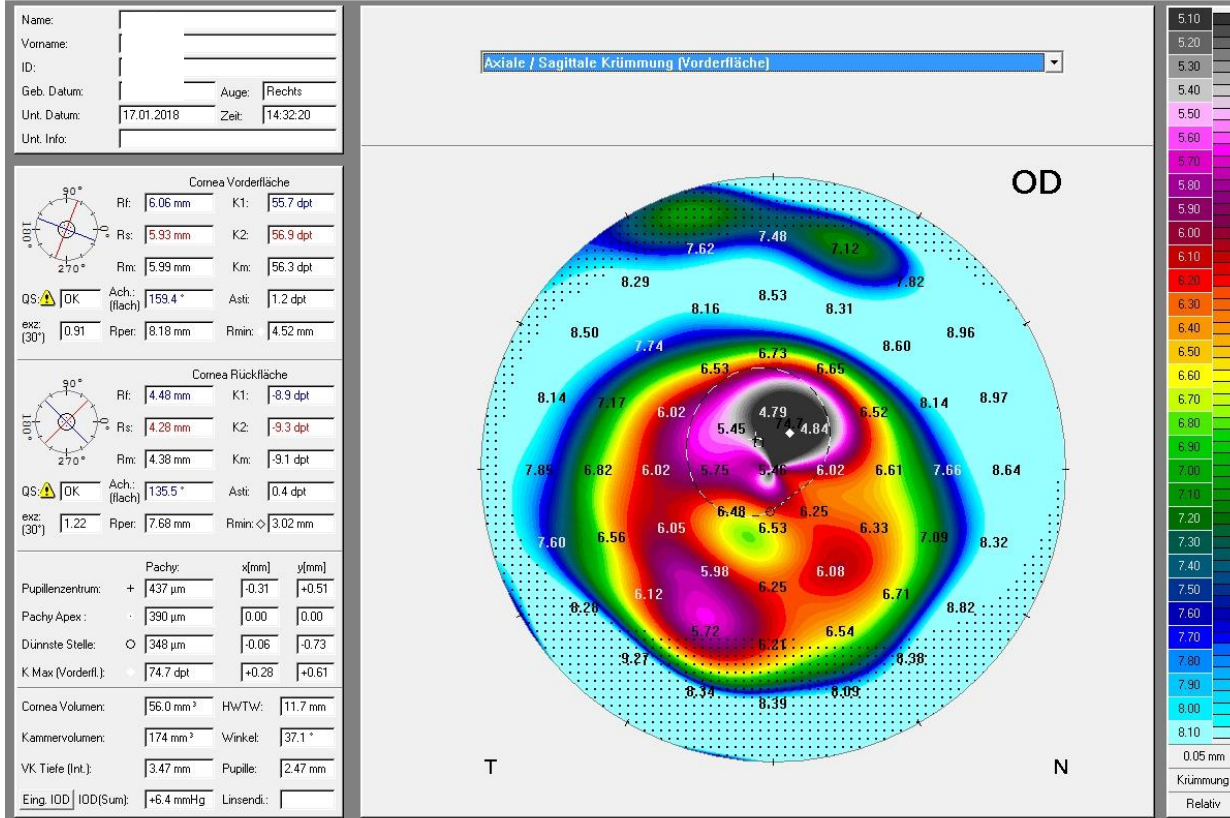
- Hornhaut-„Tasche“ mittels Femtosekundenlaser
- Linse aus Schweine-Kollagen
- zur Stabilisierung / Shaping der zentralen Cornea



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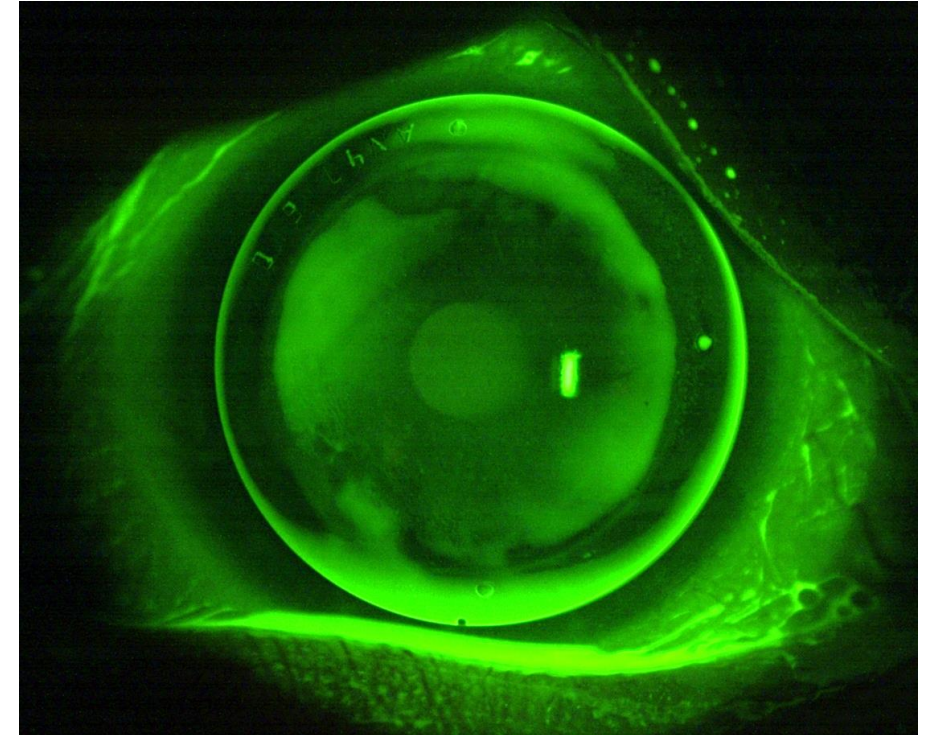
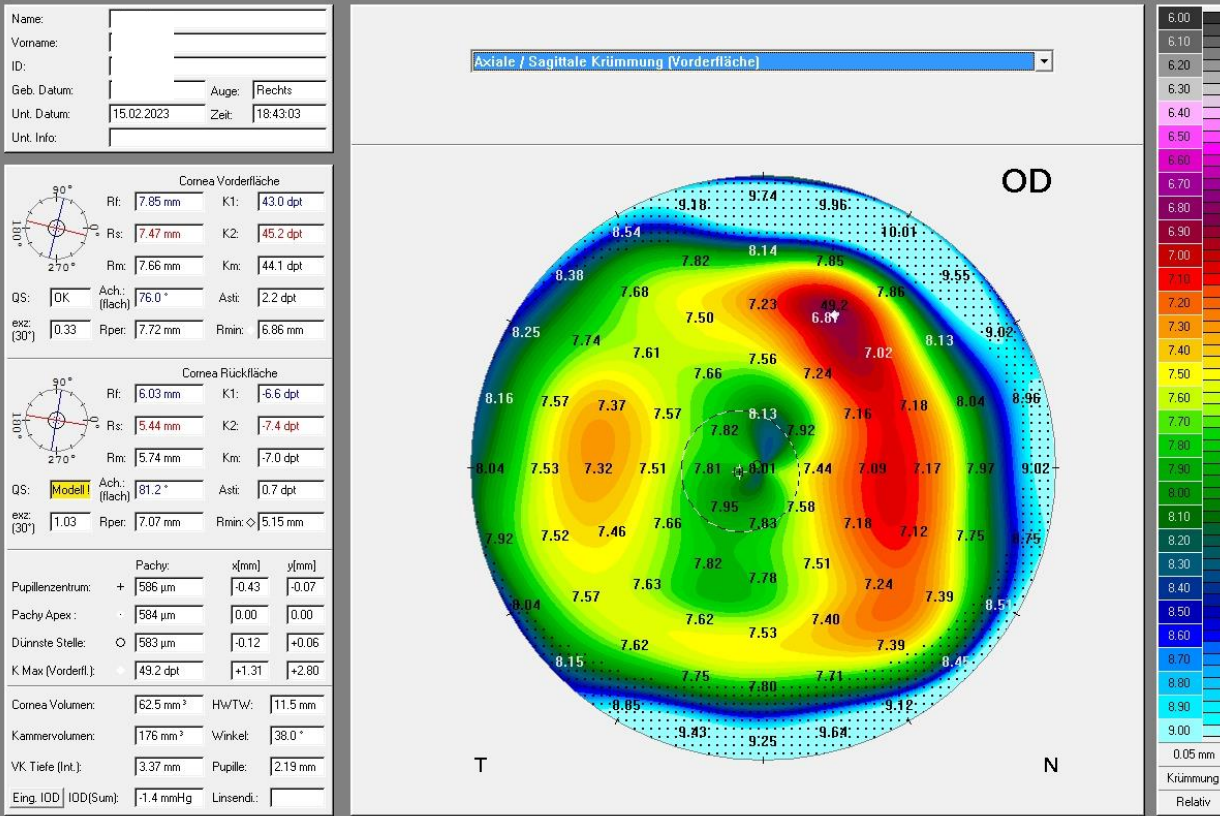
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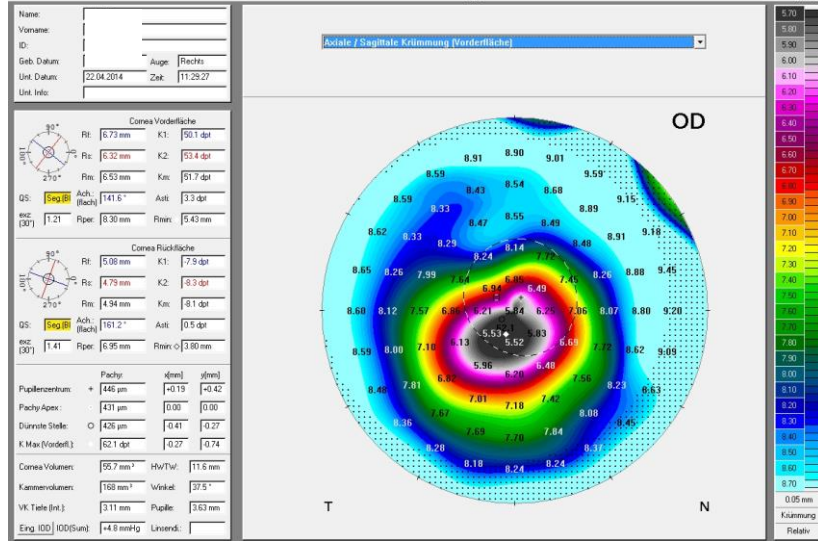


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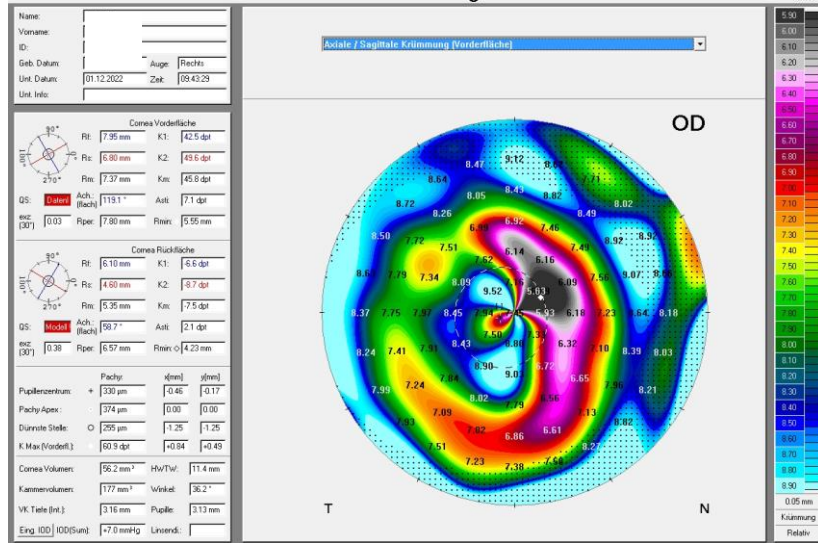
- plötzlicher Visusabfall
- Schmerzen
- Photophobie
- Hyperphoria
- Ödem / Trübung
- ausgeprägte Versteilung
- Quellung
- durch eindringendes Kammerwasser
infolge von Rissen im Endothel und
Descement-Membran

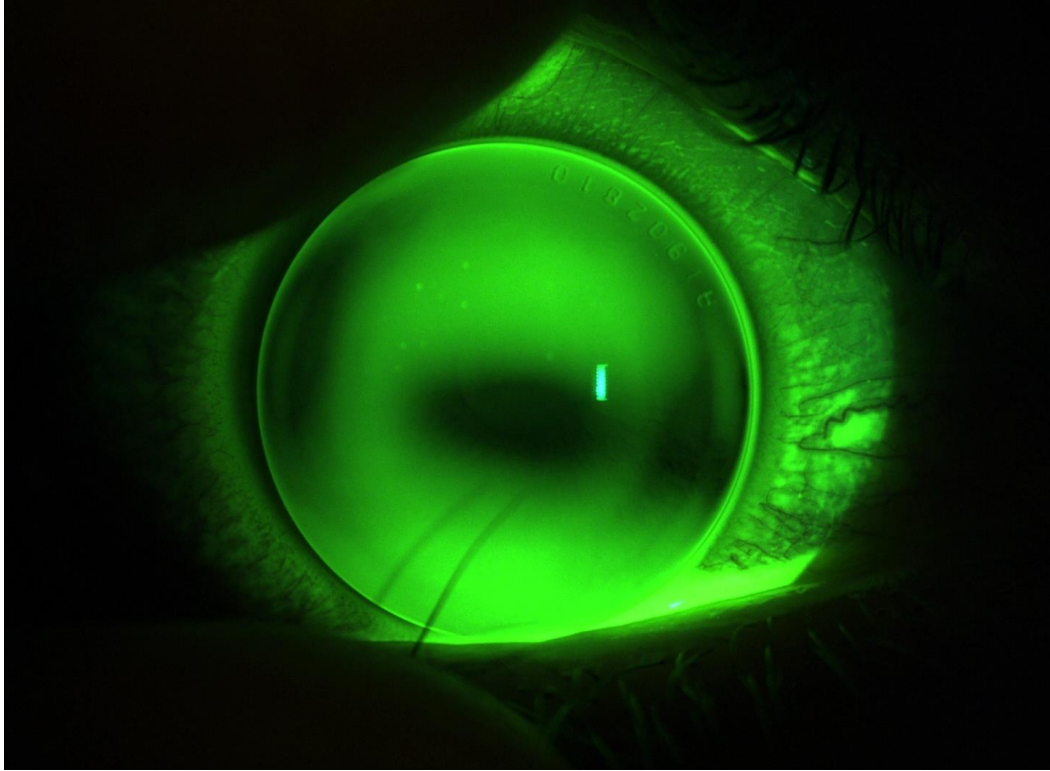


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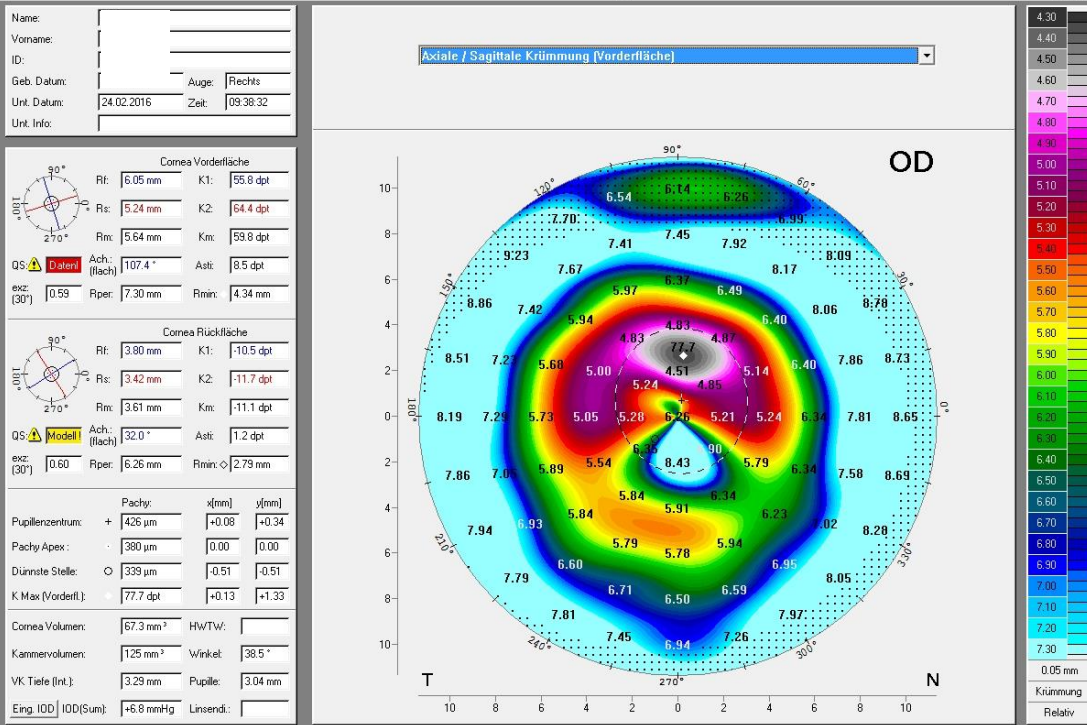


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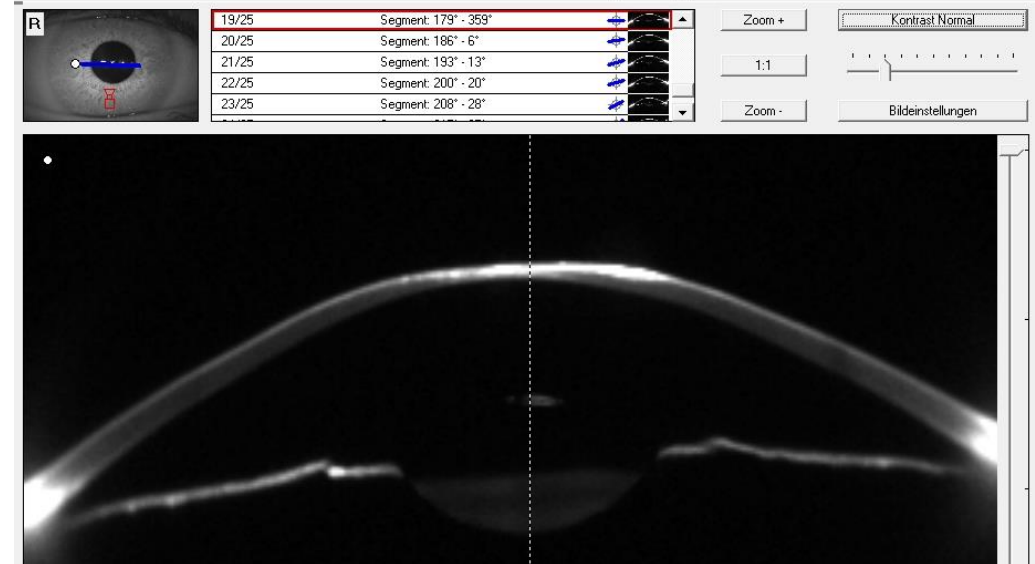


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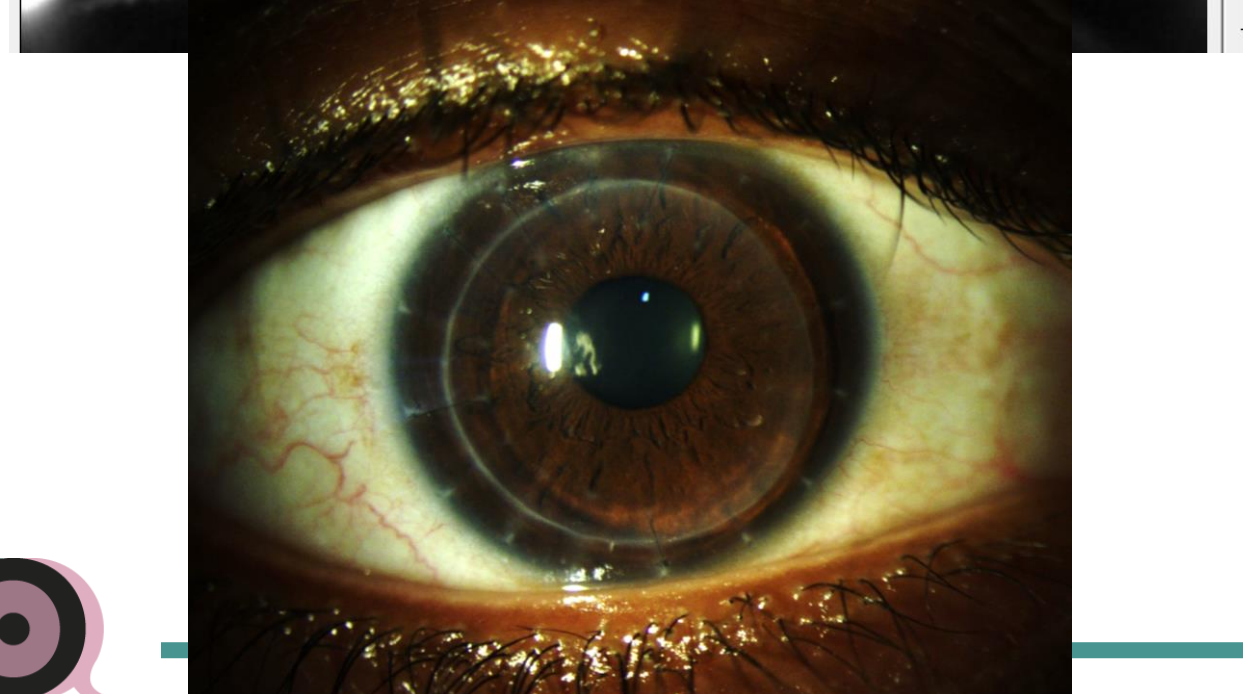
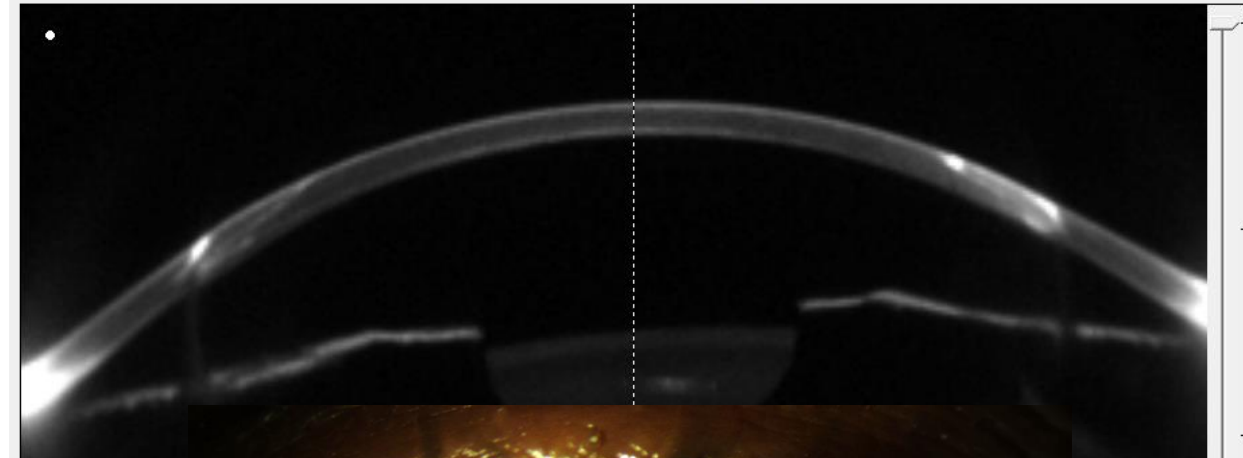
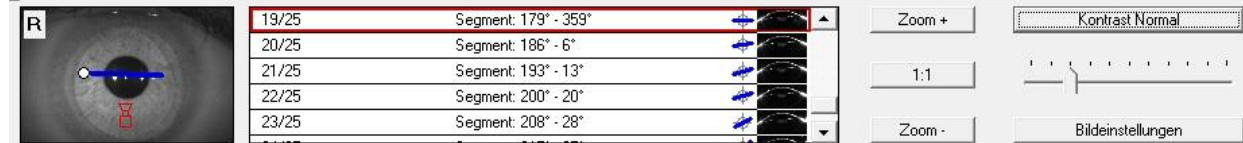
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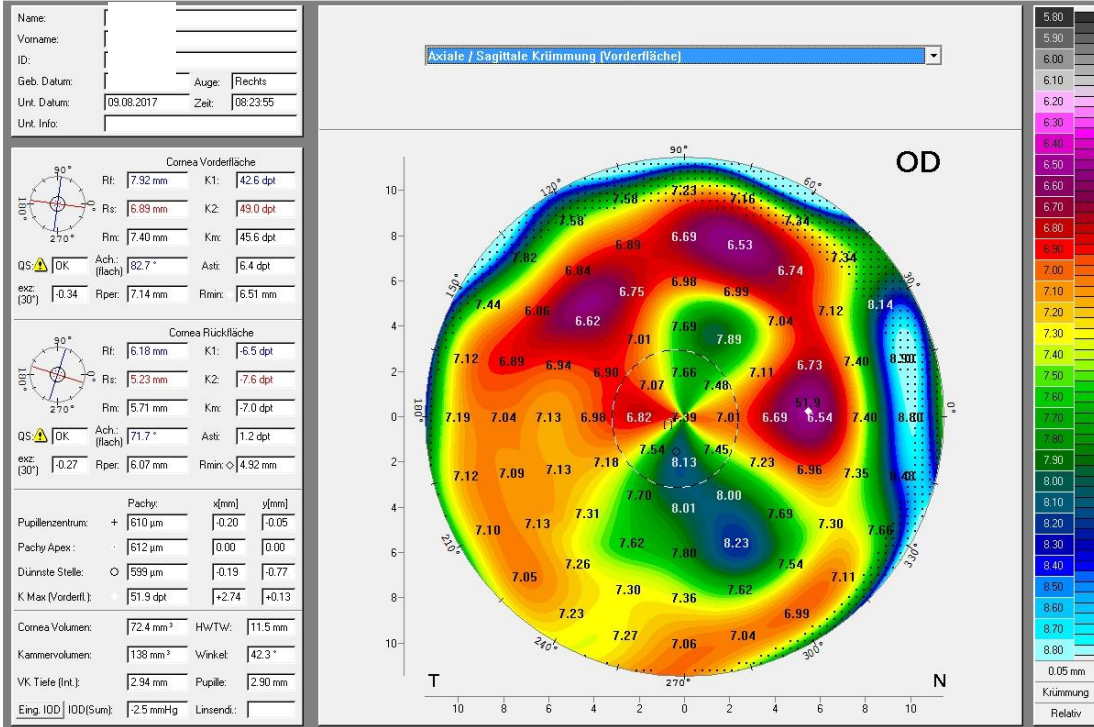


DALK (Deep Anterior Lamellar Keratoplasty)

OCULUS - PENTACAM Scheimpflug Bilder



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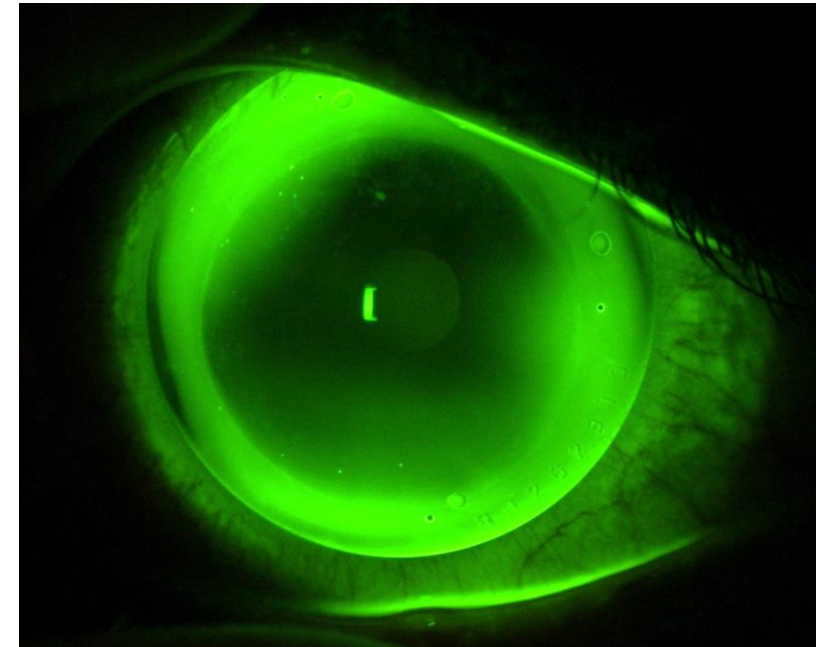
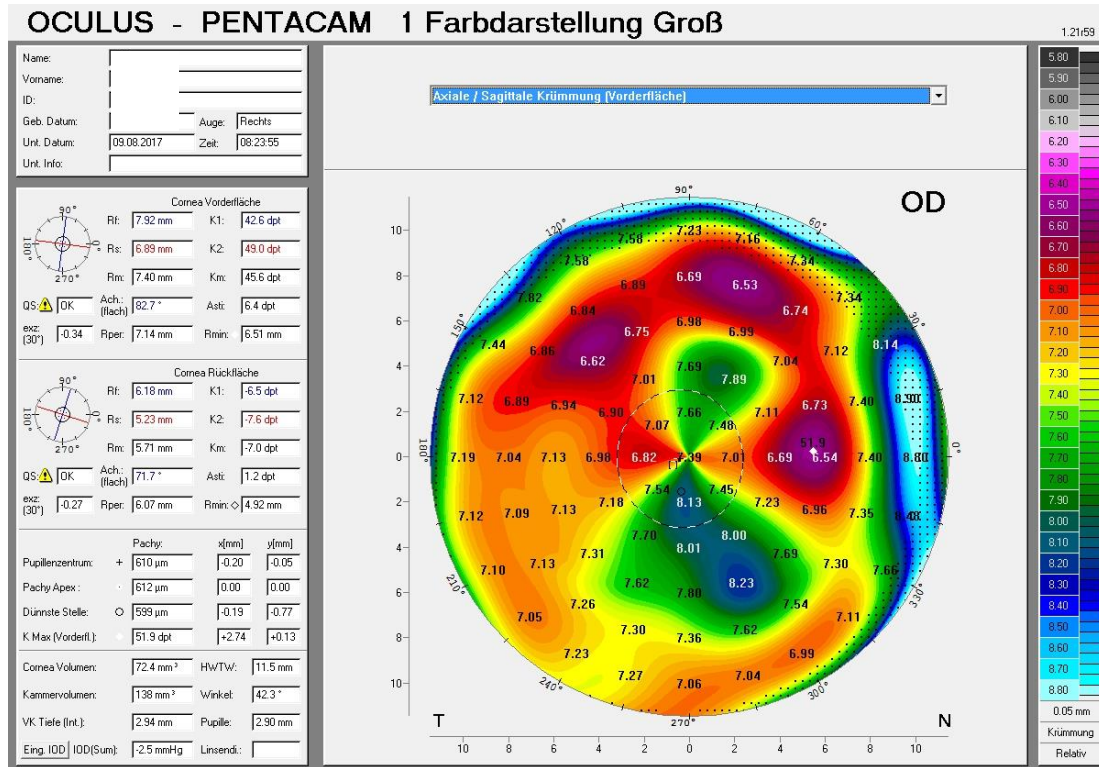


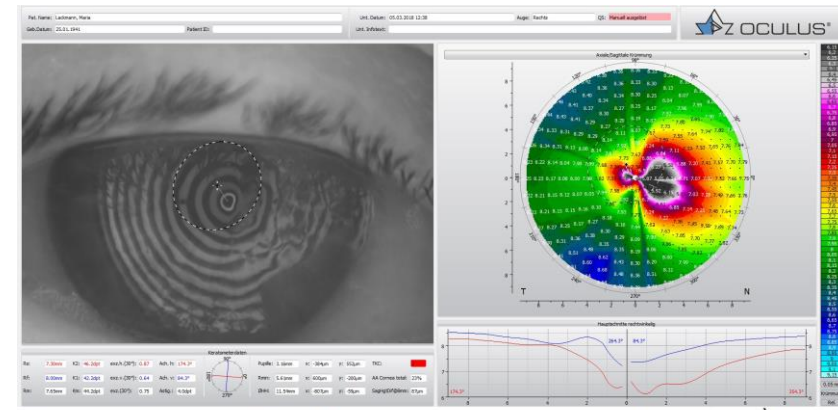
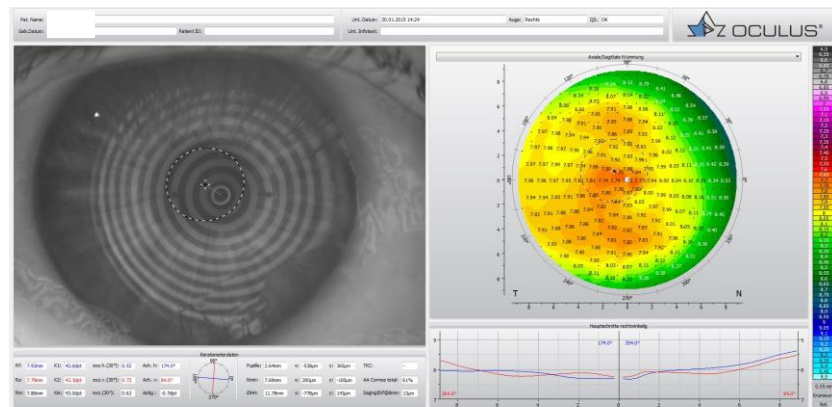
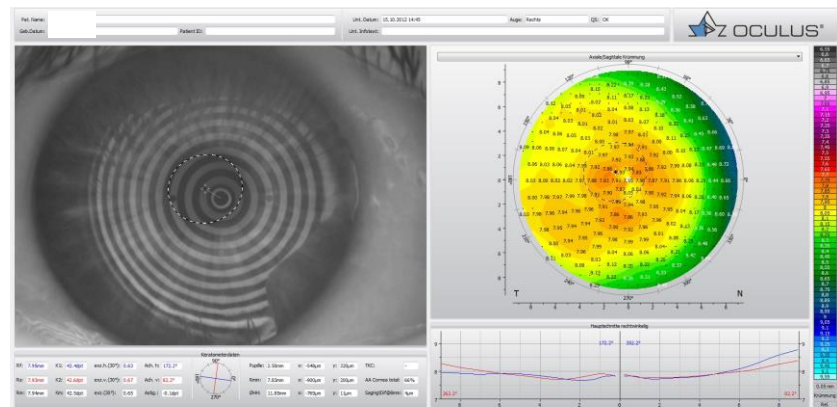
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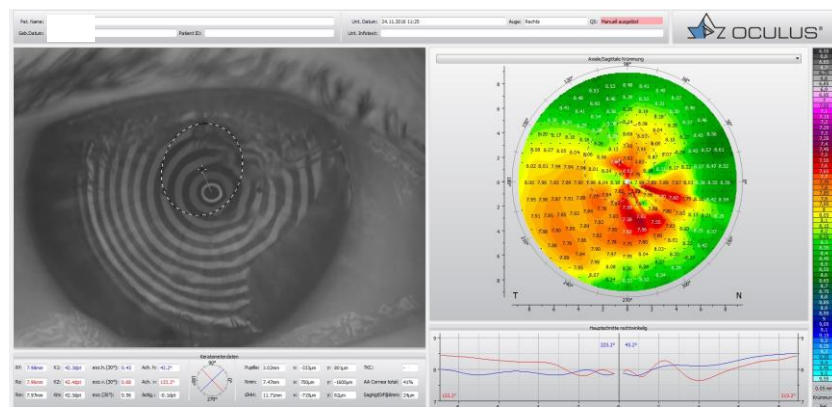
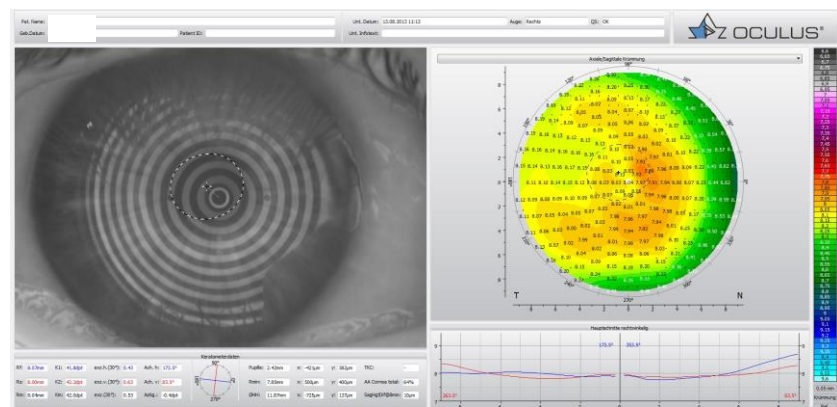
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10/2012

01/2015

03/2018



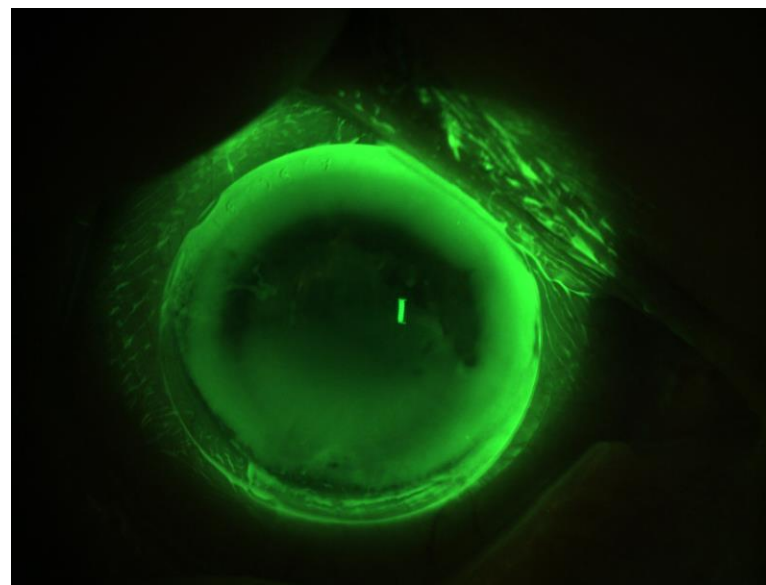
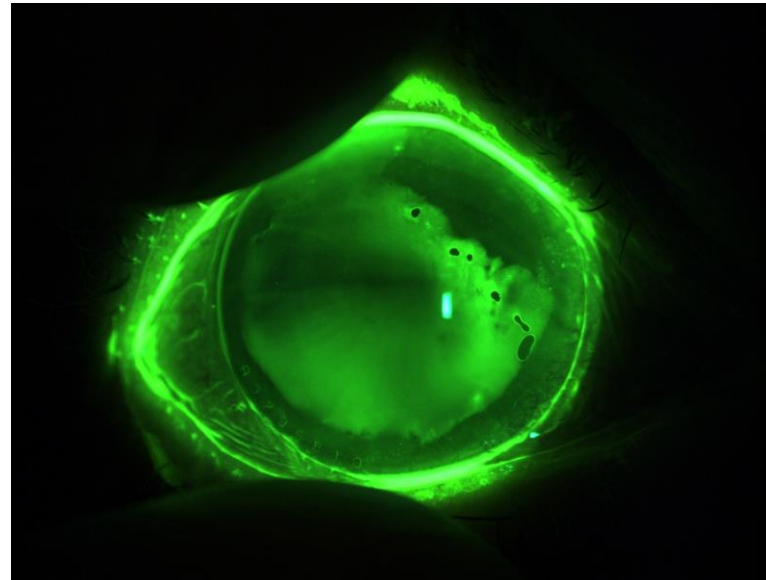
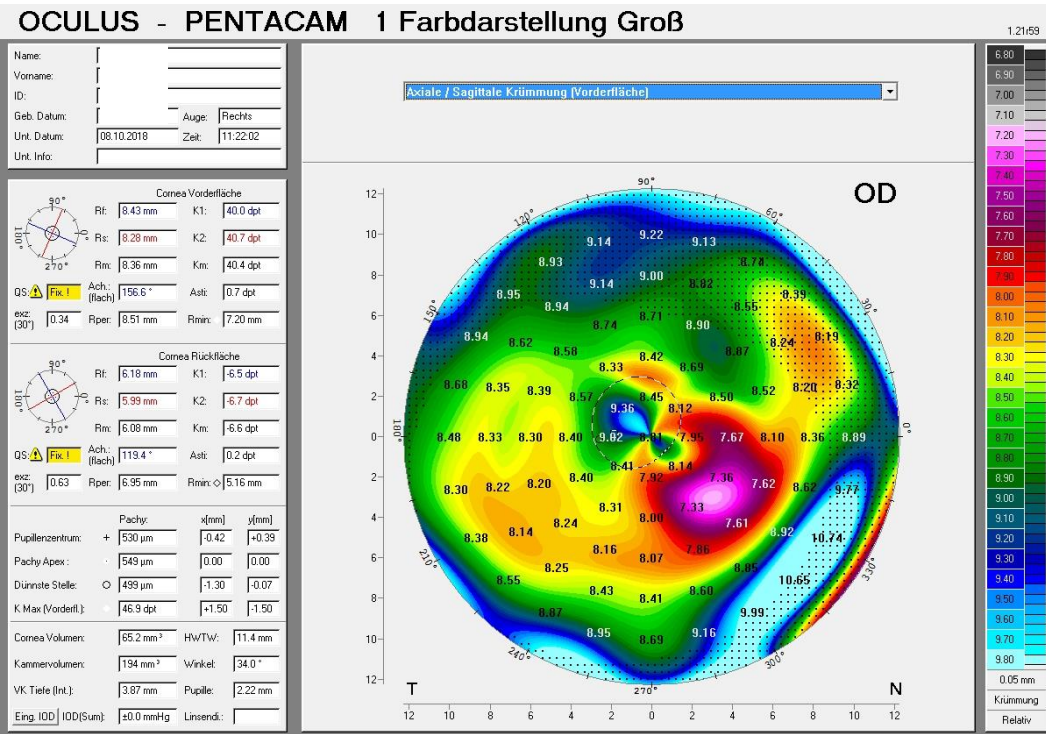
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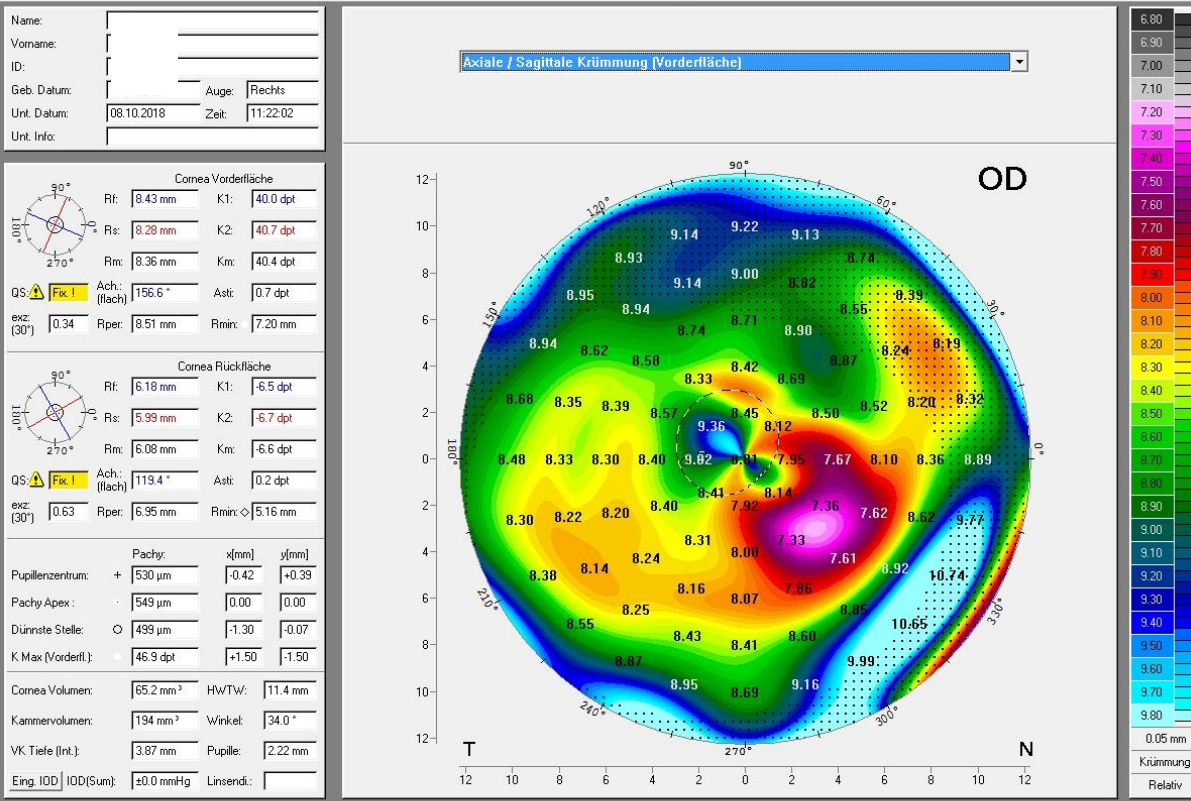
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11/2016





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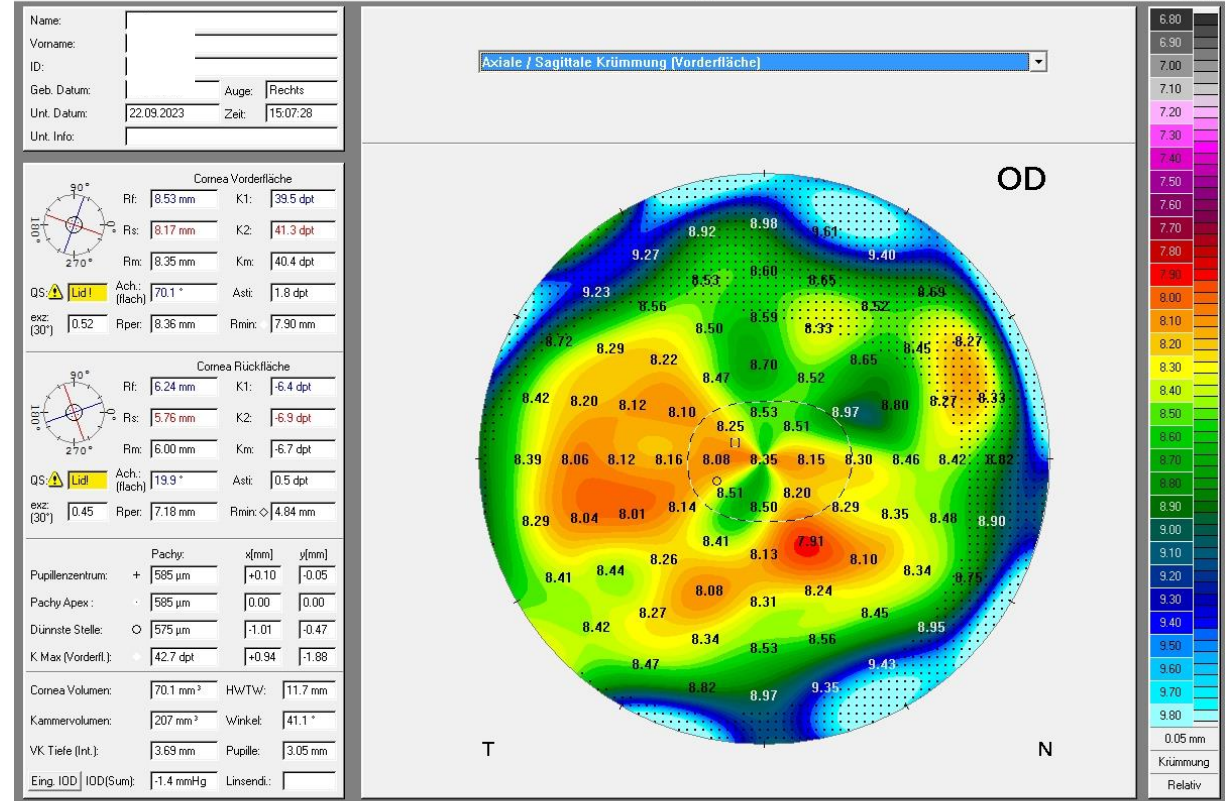


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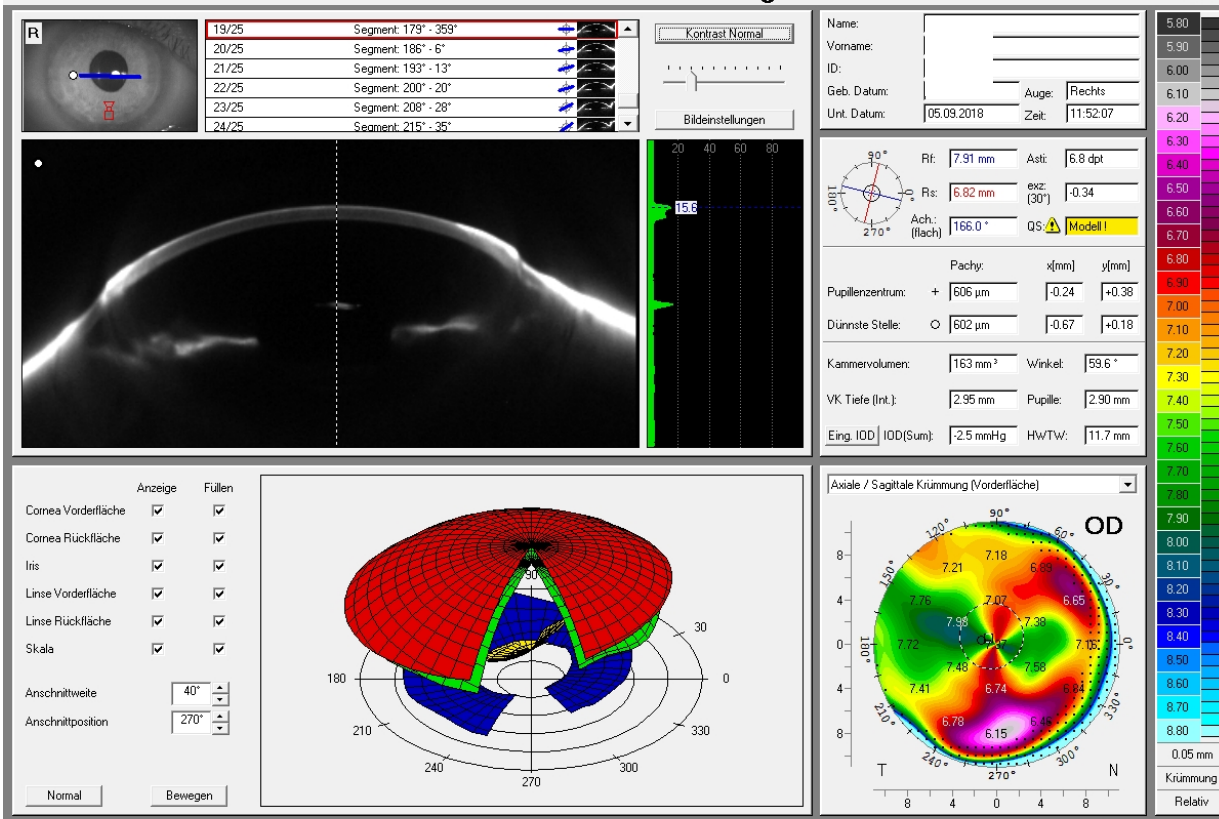
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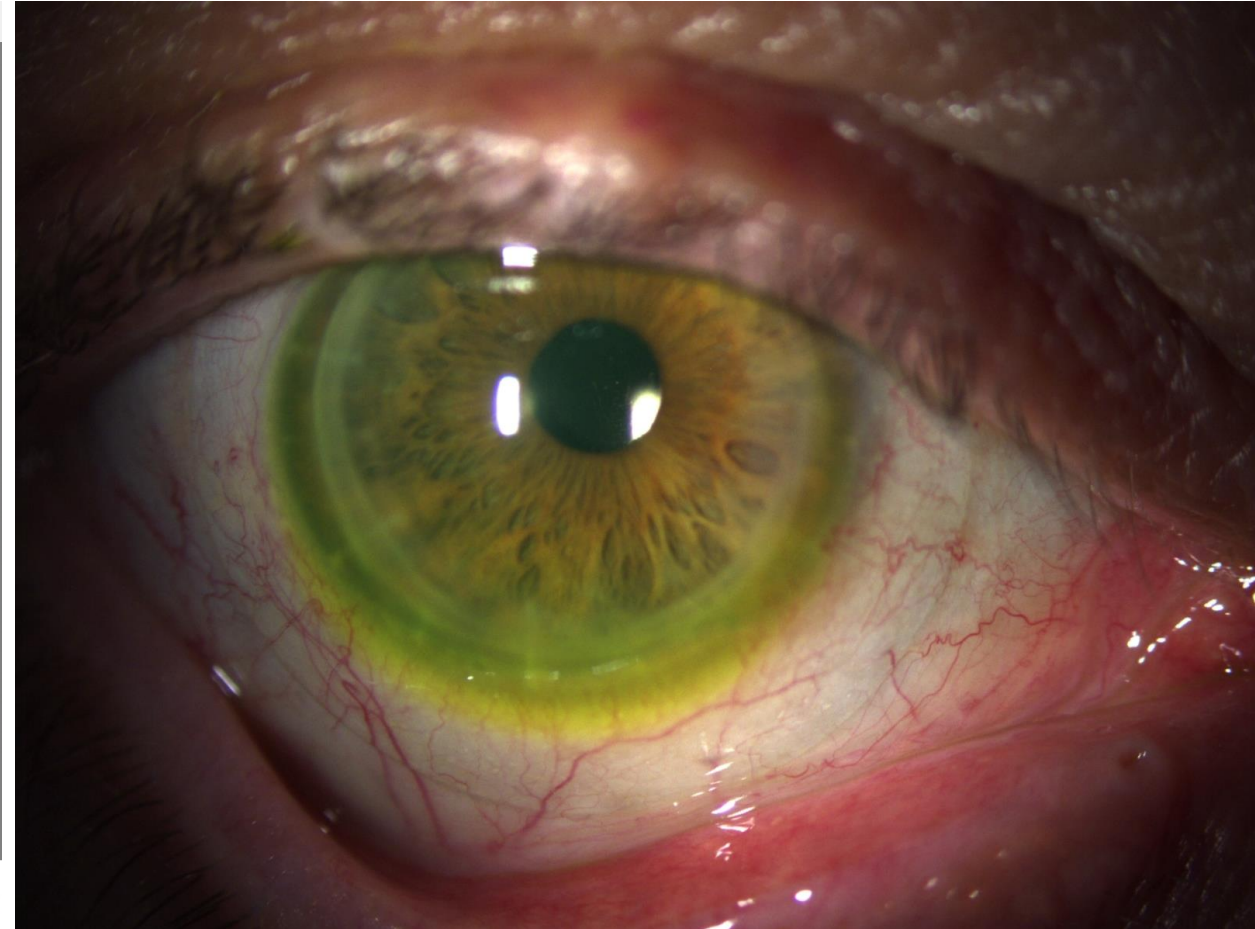
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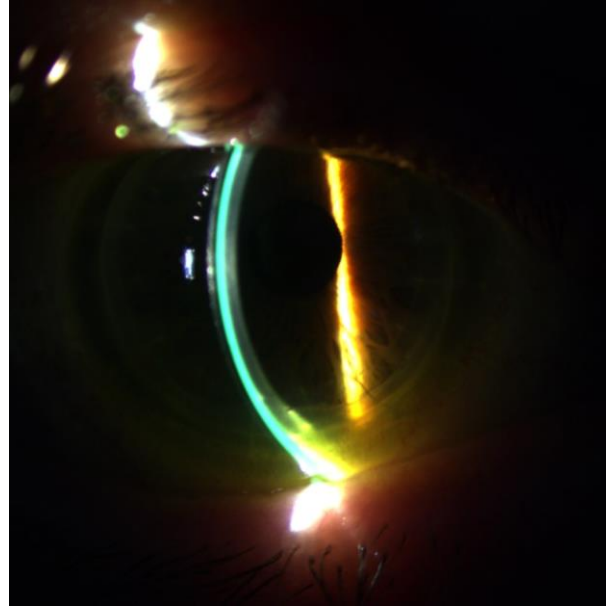
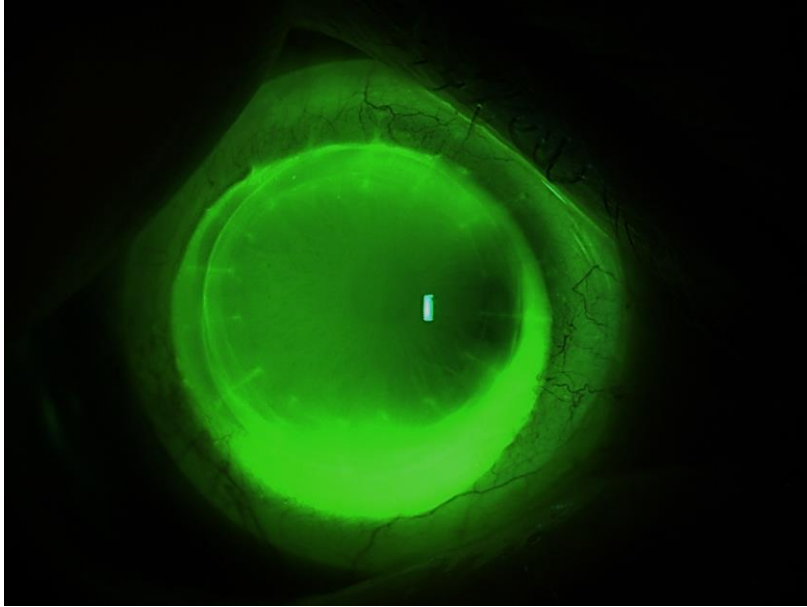


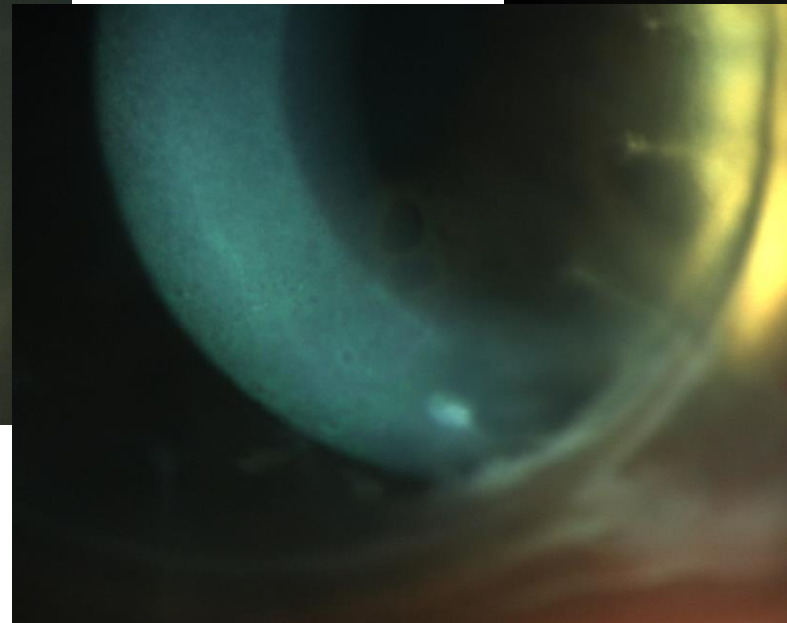
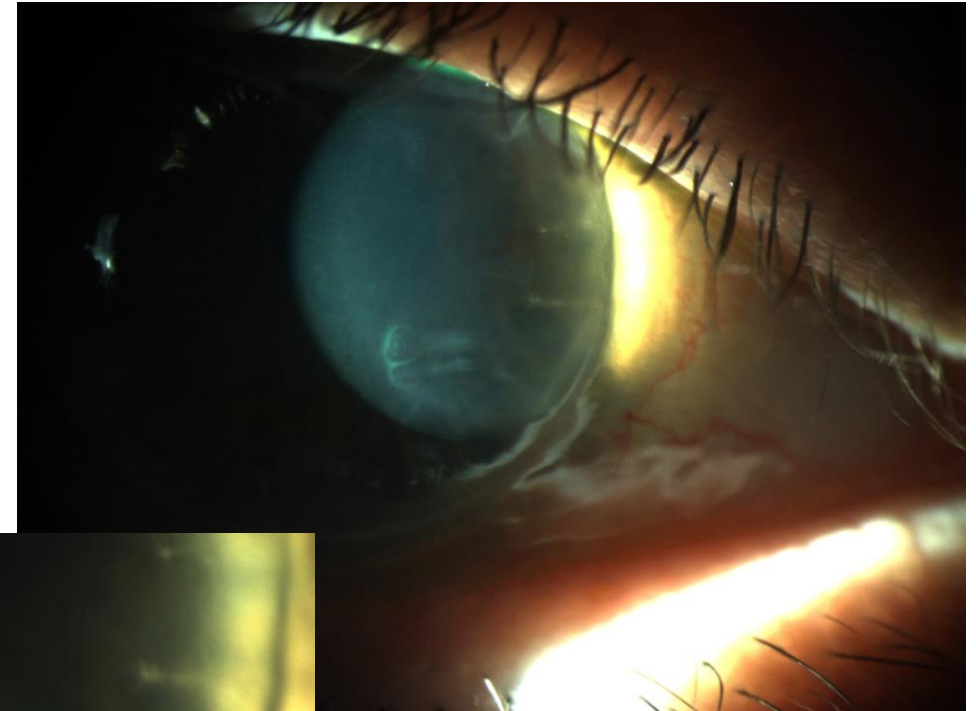
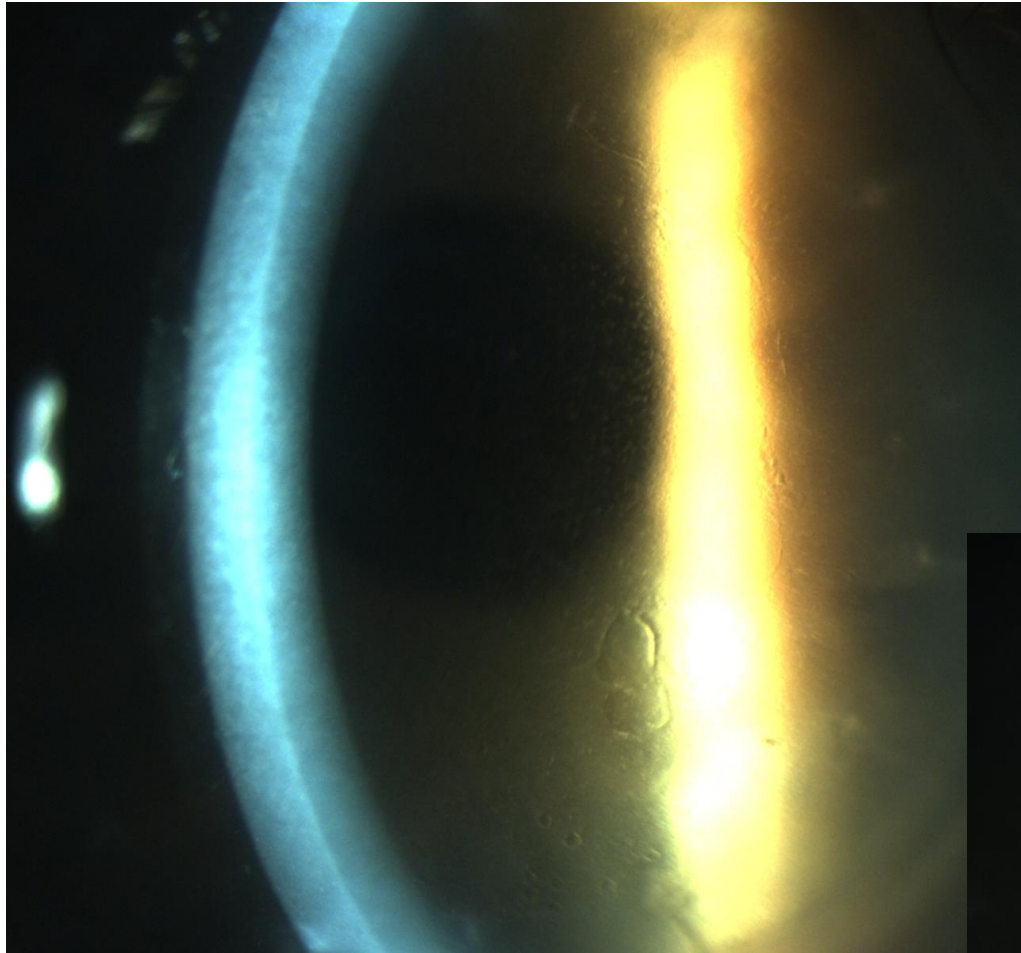
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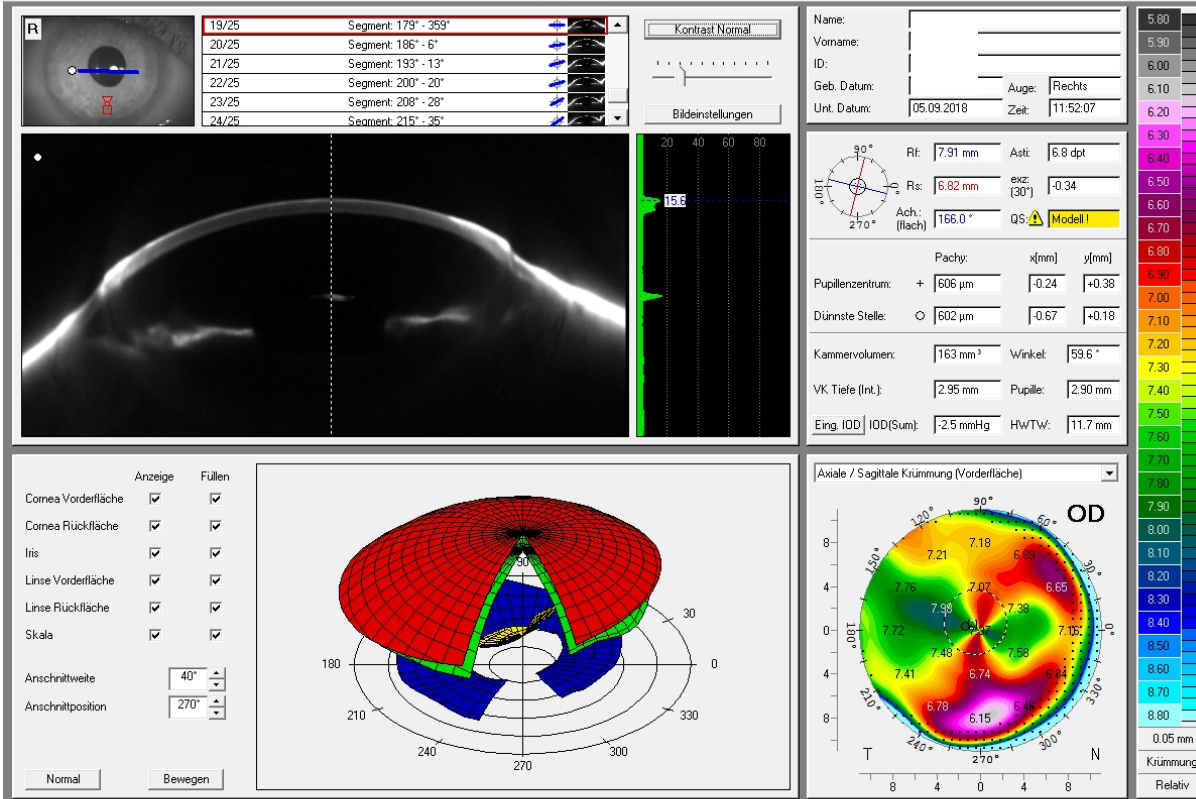
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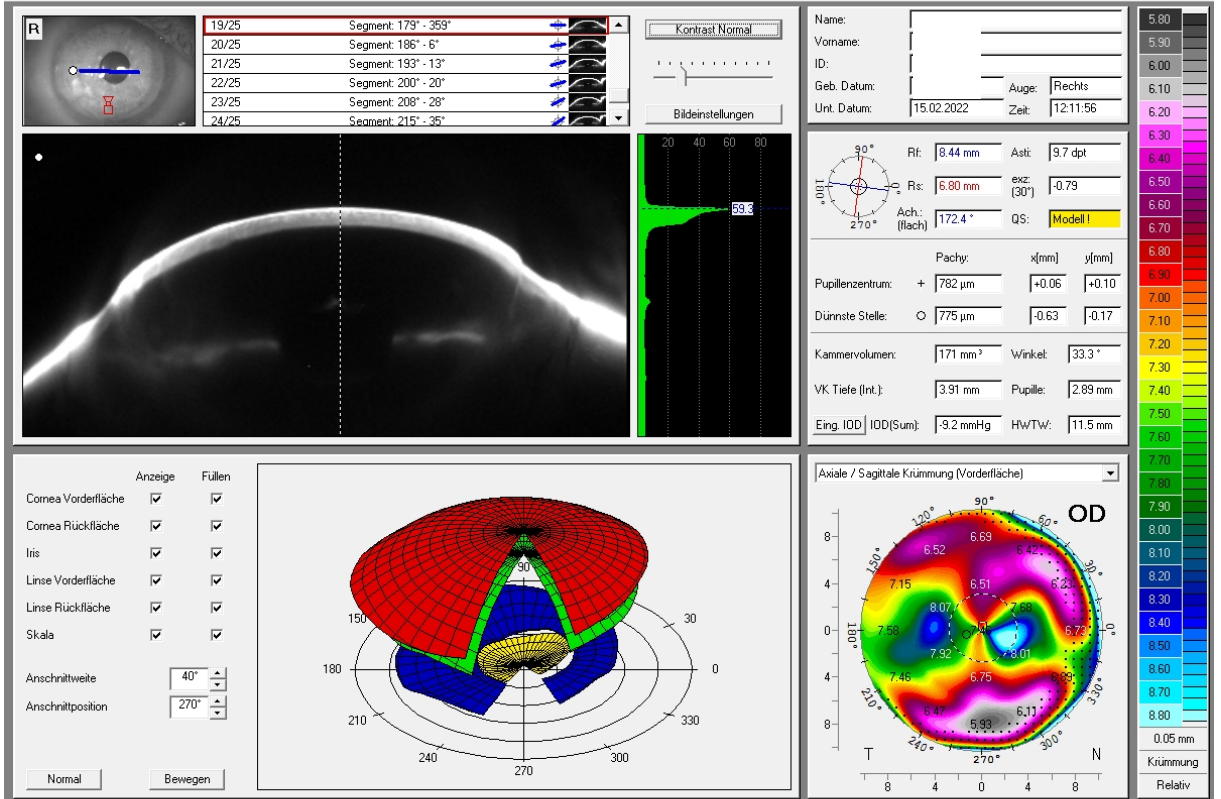


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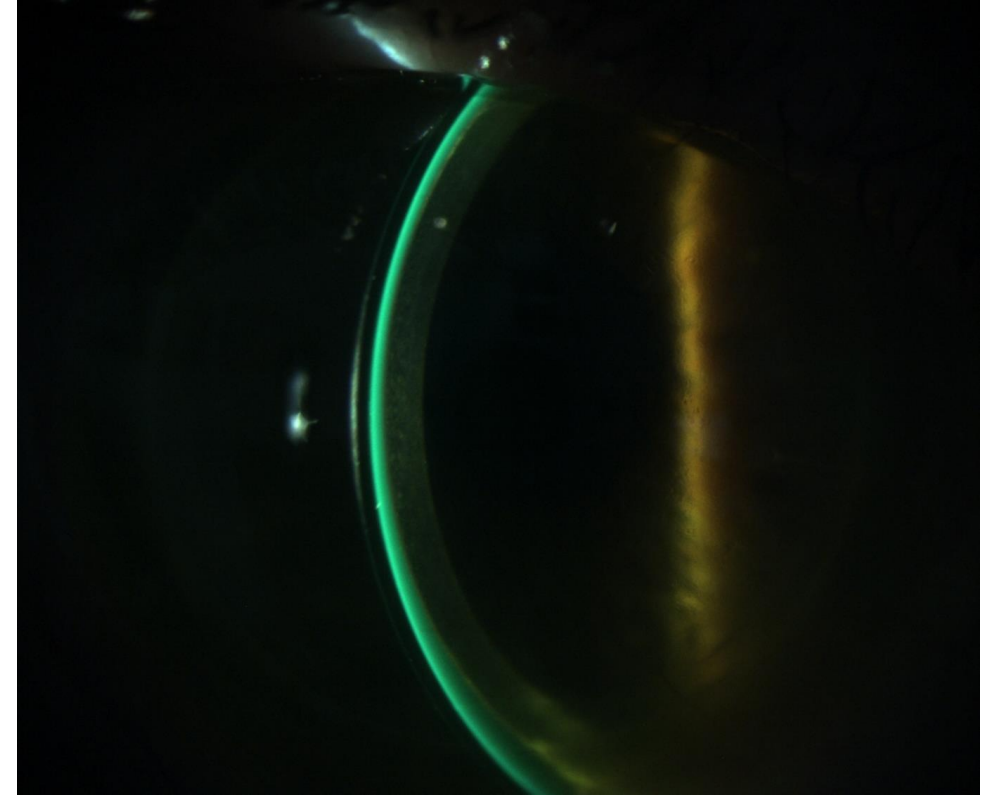
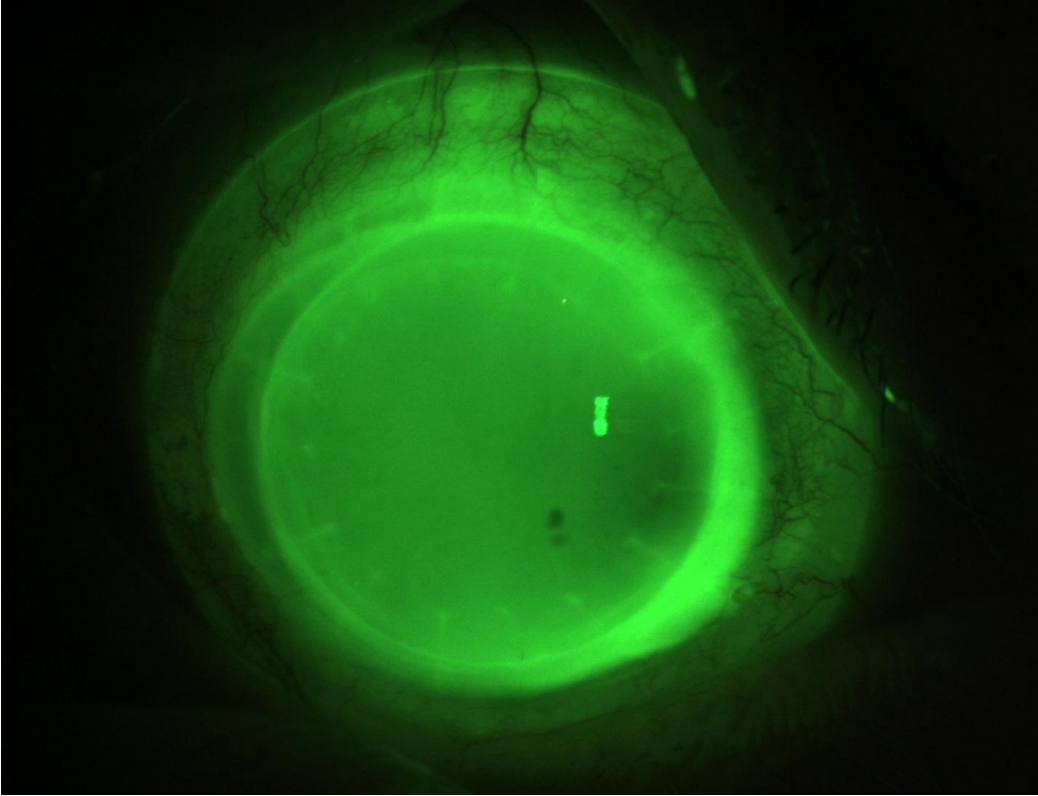


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Vielen Dank für Ihre Aufmerksamkeit!

