

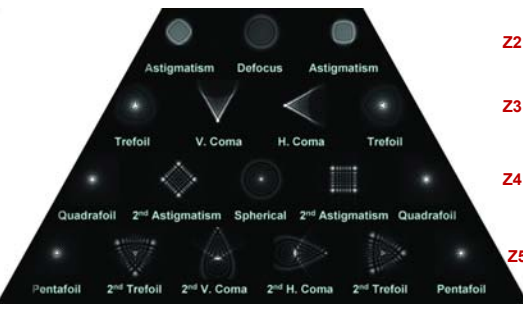
Klinische Ergebnisse mit der AcrySof Toric SN60TT



Peter Szurman, Katrin Petermeier, Charlotte Frank
 Universitäts-Augenklinik, Department für Augenheilkunde
 Eberhard-Karls Universität Tübingen

Warum Astigmatismus-Korrektur?


Wellenfront - Aberration



Z2
 Z3
 Z4
 Z5

AcrySof Toric SN60TT

- AcrySof Plattform
 - Einstückig
 - Acryl
 - Injektor-Implantation
- Rückflächentorisch
 - Sphäre +10 - +30 dpt
 - Zylinder in 3 Stärken



AcrySof Toric

AcrySof Toric SN60TT

IOL	Zylinder auf IOL Ebene	Zylinder auf HH Ebene	zu korrigierender Bereich
SN60T3	1.50 Dpt	1.03 Dpt	0.75 – 1.50 Dpt
SN60T4	2.25 Dpt	1.55 Dpt	1.50 – 2.00 Dpt
SN60T5	3.00 Dpt	2.05 Dpt	> 2.00 Dpt

Sind 3 (4) Zylinderstärken ausreichend ?

Wie viele Patienten?

Verteilung des Korrepten Astigmatismus

<1 dpt	≥1 <2 dpt	≥2 <3 dpt	≥3 <4 dpt	≥4 <5 dpt	≥5 <6 dpt	≥6 dpt
63,96%	27,95%	5,44%	1,66%	0,56%	0,25%	0,18%

33,35%
2,65%

Hoffmann PC Biometrieergebnisse von 23239 Augen DGII 2008 Heidelberg

Aufwendige Berechnung ?

Linsenkalkulation

The screenshot shows a detailed optical calculation interface with multiple data tables, charts, and a central visualization area. Red circles highlight specific fields within the tables.

<http://www.acrysoftoriccalculator.com>

The screenshot shows the Acrysoftoriccalculator website interface. Red arrows point to the 'Spherical Power (D)' and 'Astigmatism (D)' input fields, and another arrow points to the 'Country' dropdown menu.

<http://www.acrysoftoriccalculator.com>

The screenshot shows the Acrysoftoriccalculator website interface with patient information fields. A red circle highlights the 'Astigmatism (D)' field.

<http://www.acrysoftoriccalculator.com>

The screenshot shows the Acrysoftoriccalculator website interface with a review of patient information. A red circle highlights the 'Astigmatism (D)' field.

<http://www.acrysoftoriccalculator.com>

The screenshot shows the Alcon IOLN calculator interface. It includes fields for patient name, age, sex, and refractive error. It also has sections for IOL selection, including axial length, IOL power, and IOL type. Two diagrams of the eye illustrate the IOL placement in the capsular bag.

Klinische Ergebnisse

- Prospektive laufende Studie
- n = 35 implantiert
- Follow-up 3 Monate
 - n = 24 Augen (17 Patienten)
 - Visus sc
 - Visus cc
 - Defokuskurve sc
 - Wellenfrontmessung
 - Myoper Shift
 - Topographie
 - Foto zur Rotationsstabilität
 - Fragebogen zur Zufriedenheit

Wie rotationsstabil ?

Rotationsstabilität

- 1° IOL - Rotation = 3.3% Verlust der Zylinderwirkung
- 30° IOL - Rotation = aufgehobene Zylinderwirkung

Rotationsstabilität

- 1° IOL - Rotation = 3.3% Verlust der Zylinderwirkung
- 30° IOL - Rotation = aufgehobene Zylinderwirkung

The bar chart displays the postoperative rotation for 24 eyes. The y-axis is labeled 'Nachrotation [°]' and ranges from 0 to 20. The x-axis represents individual patients from 1 to 24. A single bar for patient 1 shows a rotation of approximately 10 degrees. A text box within the chart area states 'Geplant 110° Postop 100°'.

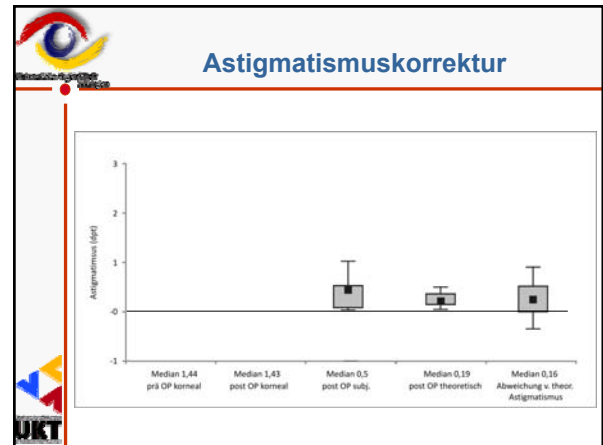
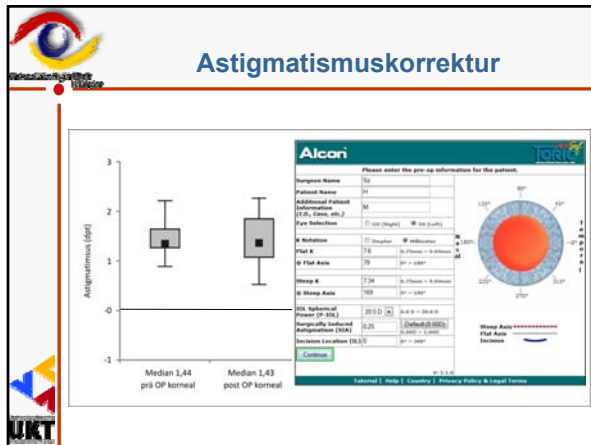
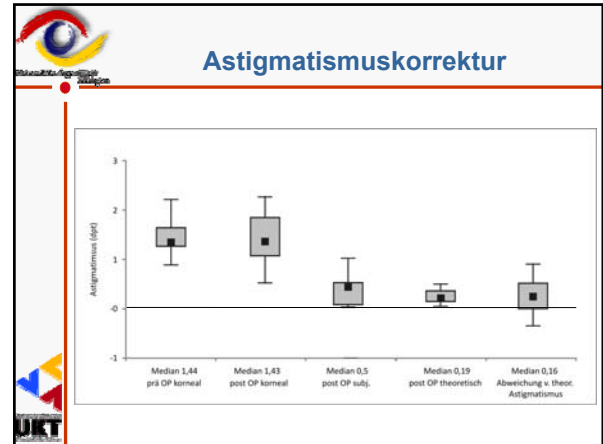
Rotationsstabilität

- Rotationsstabil
- Kapseladhäsion
 - Hydrophobes Acryl
 - Keine Methylzellulose
- Nachstar

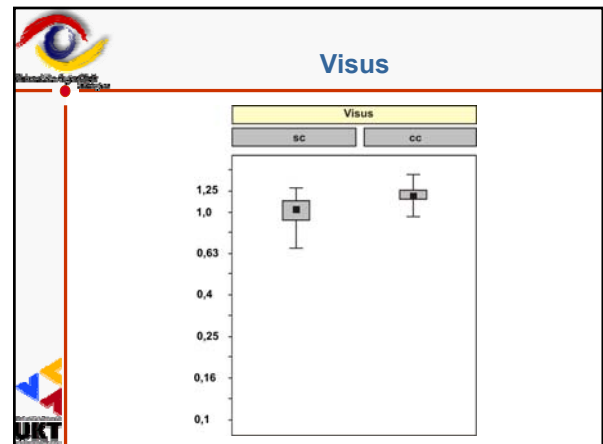
Three photographs of the IOL are shown. The top right image shows the lens in a dish. The bottom left image shows the lens implanted in the eye. The bottom right image shows the lens with a star-shaped opacity (Nachstar) on its surface.

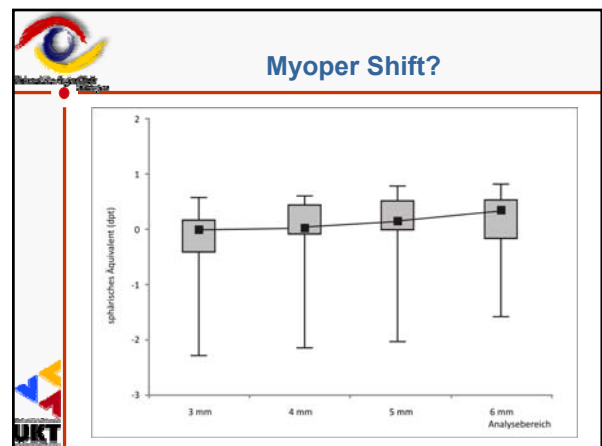
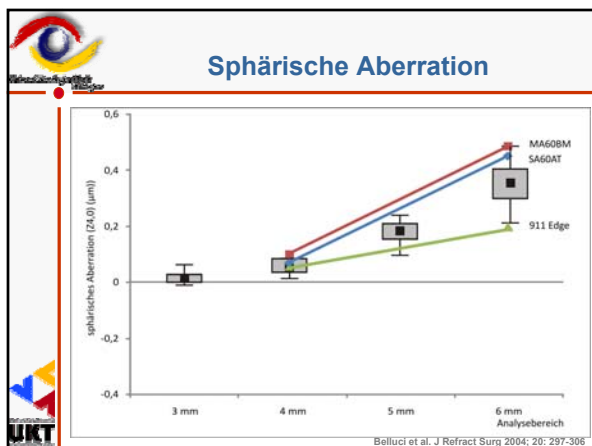
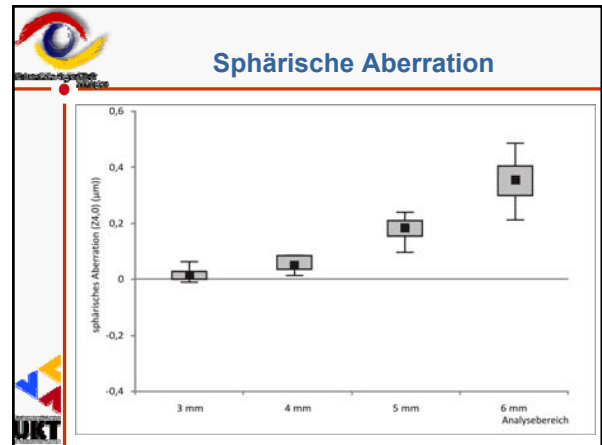
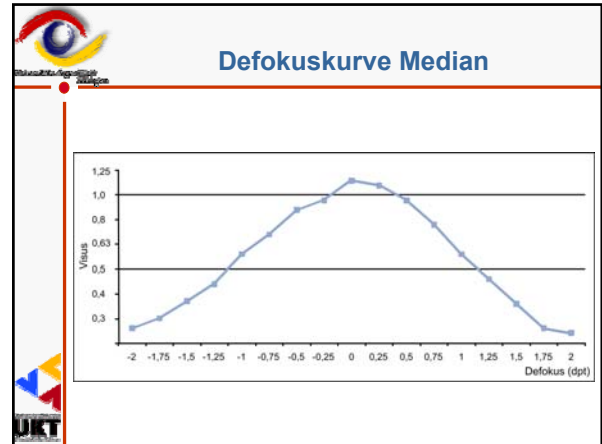
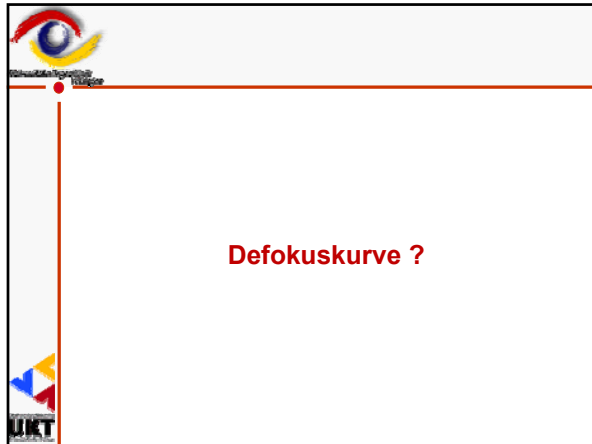


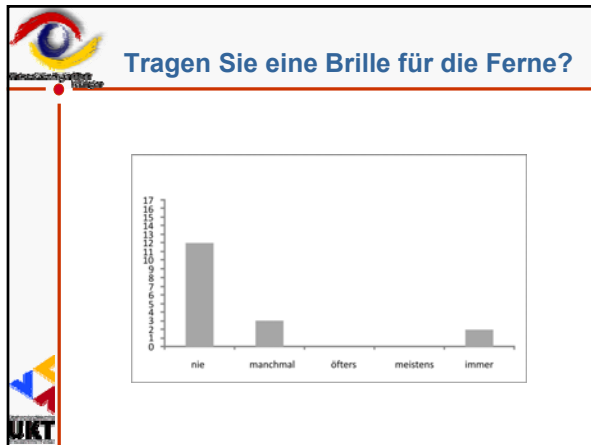
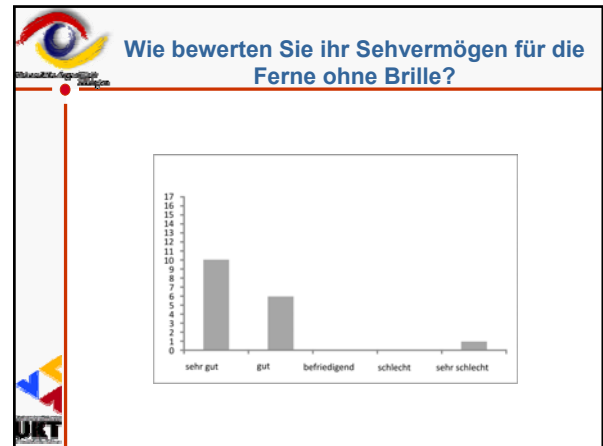
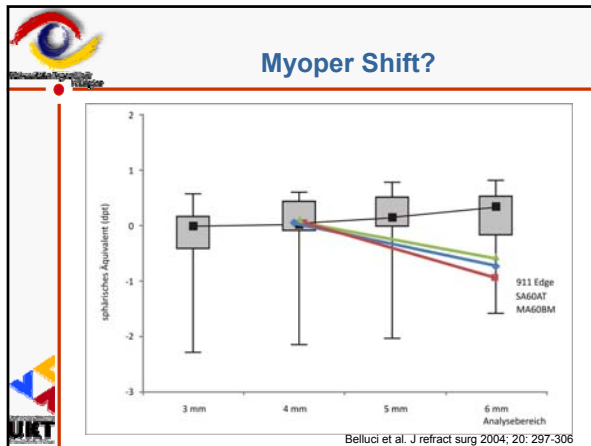
Astigmatismus korrigiert ?



Visus ?





- ### Schlussfolgerung
- Vorteile der Acrysof Plattform
 - Nachstar
 - Implantation
 - Einfaches Handling
 - Berechnung
 - IOL-Master + Toriccalculator
 - Präzise Astigmatismuskorrektur
 - Sehr gute Rotationsstabilität
 - Kapseladhäsion
 - Keine Nachrotation
 - Hohe Fernbrillenunabhängigkeit
 - Sehr guter sc Fernvisus
 - Guter sc Intermediävisus
- 97% aller Patienten**
- UKT



Was wünschen wir uns ?

Model	IOL Zyl.	Kornealer Astigmatismus
SN60T3	1.50 D	$\geq 0.75 - 1.50$ D
SN60T4	2.25 D	$\geq 1.50 - 2.00$ D
SN60T5	3.00 D	$\geq 2.00 - 2.50$ D
SN60T6	3.75 D	$\geq 2.50 - 3.00$ D
SN60T7	4.50 D	$\geq 3.00 - 3.50$ D
SN60T8	5.25 D	$\geq 3.50 - 4.00$ D
SN60T9	6.00 D	> 4.00 D

