Large Diameter and Scleral GP Designs for Keratoconus

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Relevant Financial Relationship

- I will not discuss off label use or investigational use of drugs/devices in my presentation
- Related to my role in this session, there are no relevant financial relationships to disclosure

Fitting options and approach



Fitting options and approach

 Use all your fantasy and skills, going beyond traditional thinking and fitting

 Every irregular cornea is individual and different from any cornea before

Large diameter for central location and more stable vision

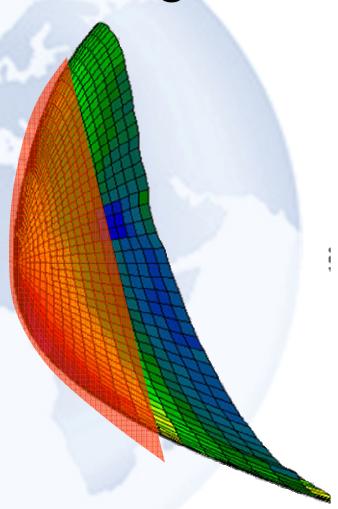
Fitting options and approach

- Over-passing irregular areas and fitting on more regular and stable areas are often the way to go for long-term success
- High DK material and an adequate lens care system are essential for physiological acceptance

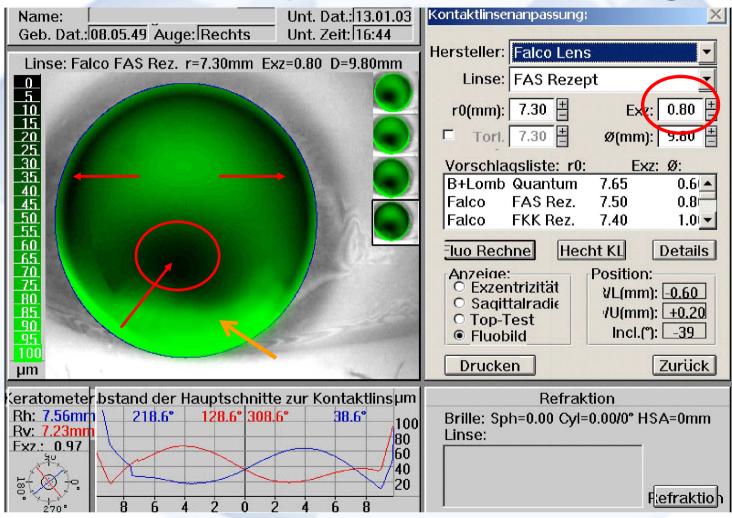
Rotation symmetric Design

 Rotation symmetric Design

 Pay attention to the edge lift in 270°



Rotation symmetric Design

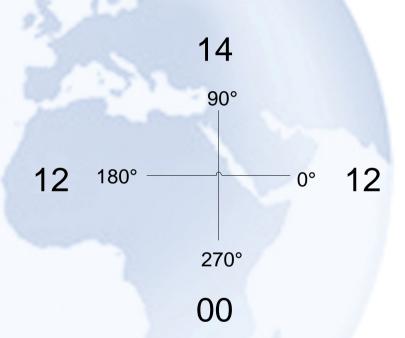


Quadrant-specific FKQ Design

- Falco, Switzerland
 - 1. Generation since 1991
 - 2. Generation since 2001

 Falco Keratoconus **Q**uadrant-specific

 12 12 14 00 are the eccentricitys in each quadrant





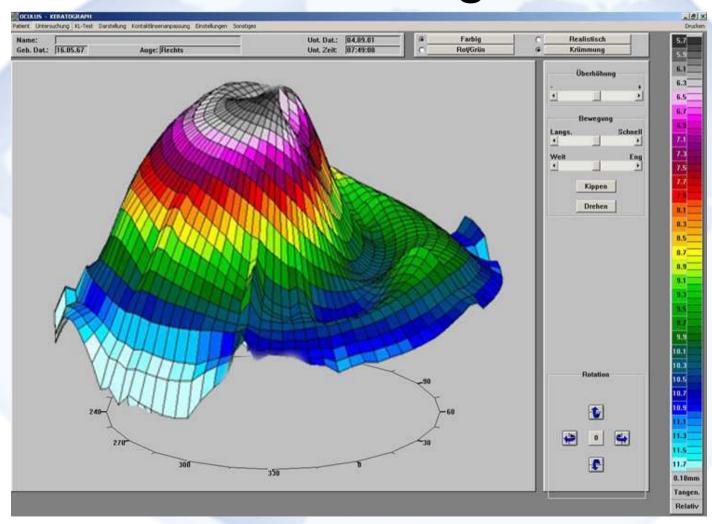
 The idea is to fit the lens in every quadrant as good as possible to the origin cornea curvature

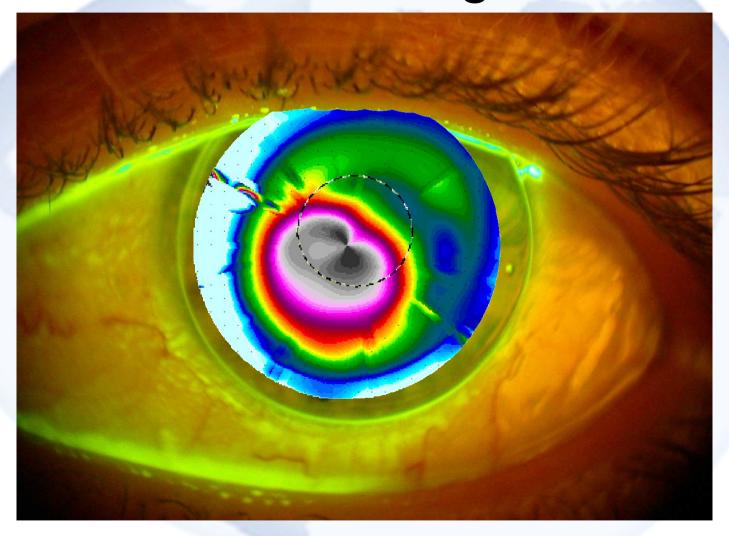
 The lens has inferior a black colored engraved point which must be inserted in 270°. The lens then will be click-in the cornea curvature

All parameters can be manipulated individually

 Design includes a hollow in the back curve center to relieve the apex

 Makes the fluorescein pattern looks like slightely steep fitted

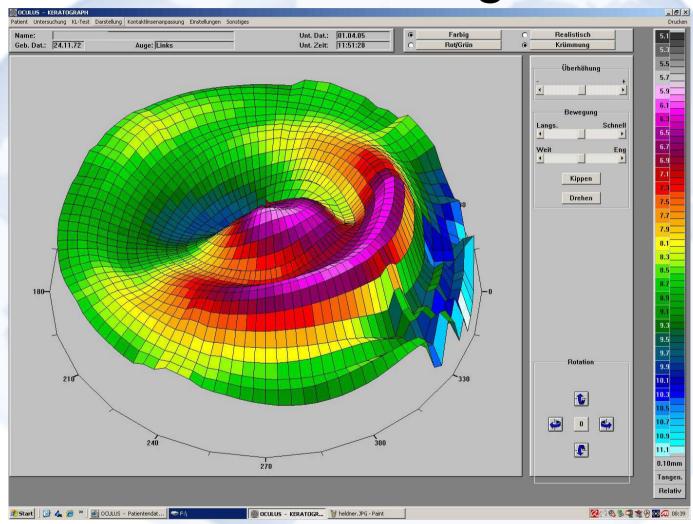


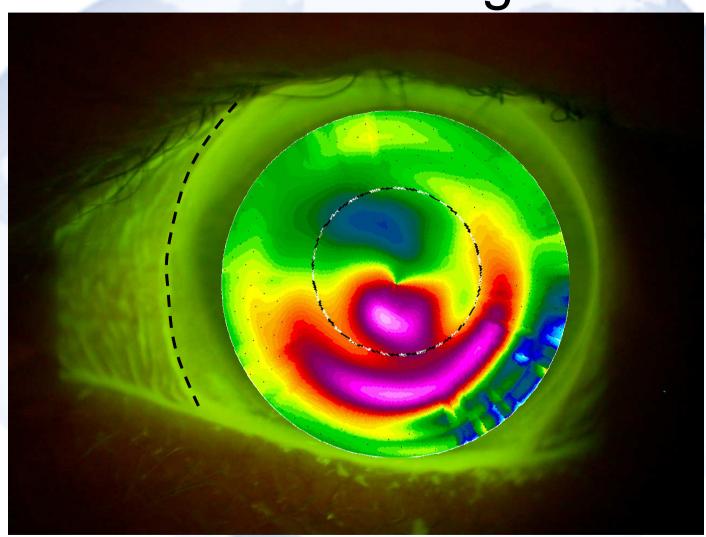


- Lots of different types and shapes are on the market available
 - Rotation Symmetric Designs with "normal" central radius
 - Peripheral-Toric Design: only Toric shape over scleral area
 - Keratoconus Specific Design with a very steep center, additionally with a hollow

- Diameter:
 - Mini or Semiscleral 12.00mm to 16.00mm
 - Scleral 16.00mm to 25.00mm

- No Topographer data's available
 - Fitted by interpreting fluorescein pattern
- Adhering, but no sticking allowed





Enjoy the meeting!



Bachalpsee, Berner Oberland, Switzerland