Casuïstry rigid contact lenses

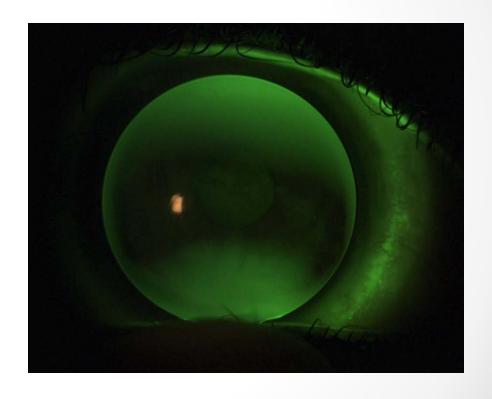
Henri Eek - Hogeschool Utrecht - The Netherlands

July 2017

Lens evaluation

Watch the image and answer the following questions:

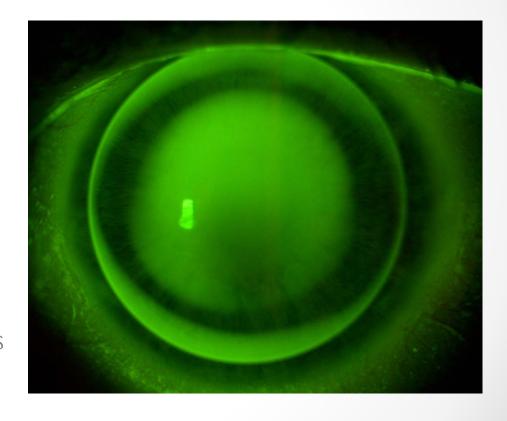
- What are the two main directions of the cornea?
- In which direction do you find the flat curve of the cornea?
- Evaluate the lens fitting in both directions.
- Given is that the aspheric lens has a diameter of 9,60 and a radius of 7,70. What will be your next lens choice?



Lens evaluation

Watch the image and answer the following questions:

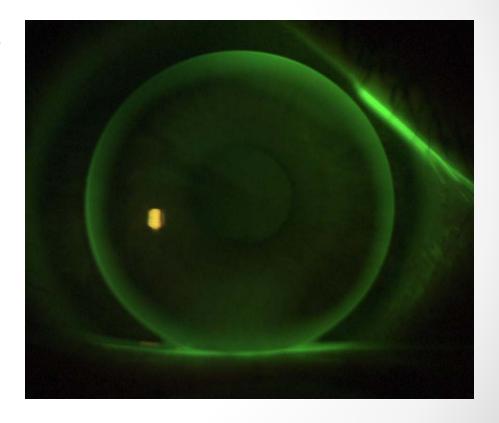
- What are the two main directions of the cornea?
- In which direction do you find the flat curve of the cornea?
- Evaluate the lens fitting in both directions.
- Given is that the aspheric lens has a diameter of 9,60 and a radius of 8,00. What will be your next lens choice?



Customer, 44 years old wears spherical rigid lenses. He complains about irritation during blinking.

Questions:

- What do you think might cause the problems?
- What can you do to solve the problems.
- Give two advantages of the solutions that you have chosen.
- Give two disadvantages of the solutions that you have chosen.



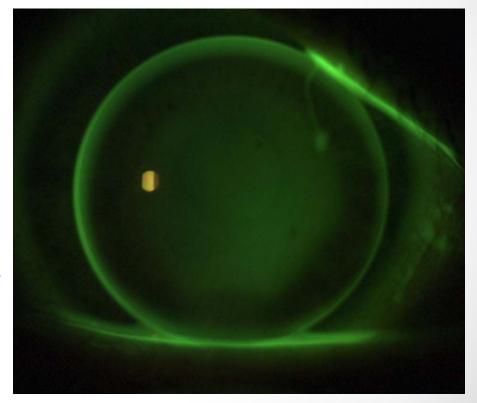
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Casus 2

Customer, 20 years old wears spherical rigid lenses. He complains about irritation at the end of the day.

Questions:

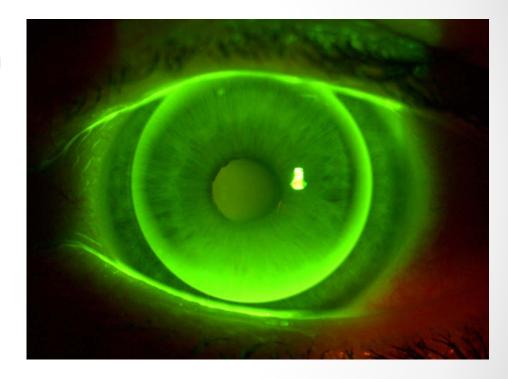
- What do you think might cause the problems?
- What can you do to solve the problems.
- Give two advantages of the solutions that you have chosen.
- Give two disadvantages of the solutions that you have chosen.



Customer wears rigid spherical lenses (-5.00). The lens is situated a little high in the eye. In the evening he sees halo's. Sometimes the lens falls out during blinking.

Questions:

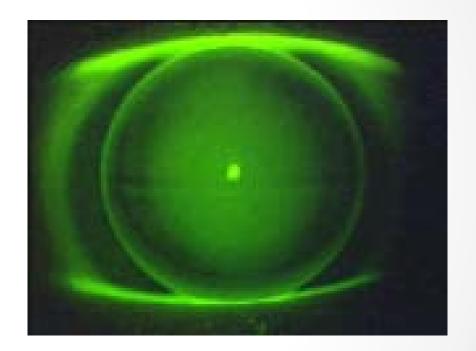
- Give two reasons why the lens is situated high in the eye.
- Give two possible solutions for the problem and give your argumentation for these solutions.



Customer, 48 years old, wears Longline lenses. S -2.00, add. +1.75

Questions:

- Evaluate the lens fitting in both directions.
- Evaluate the inclination.
- Given that the lens inclinates 30⁰ nasaly.
 - o How whould you change the lens fitting?
- Customer tells you that he can wear the lenses maximum 6 hours.
 - o What can be the reason for that?



Customer, 53 years old, wears Longline lenses. (Flexi TC), S -1.50, add. +2.25.

Questions:

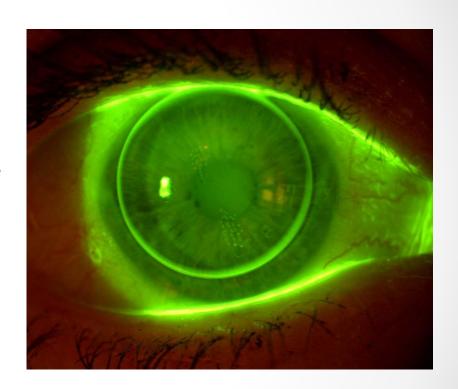
- Given that the diameter is too small and the lens fitting is too flat.
- What happens when we increase the diameter?
- What do you expect regarding inclination then?
- Customer tells you that his vision at distance is ok but reading is a problem.
 - o What might be the most probable reason for the problem?
 - o What could you do to solve this problem?
 - o Do you think that fiting aspheric lenses might be a solution?

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Customer, 49 years old, wears aspheric lenses.
Watch the image:

Questions:

- Evaluate the diameter and the centration of the lens.
- Evaluate the lens fitting in both main directions.
- What do you see underneath the lens?
- What might have caused this?
- What problems might be experienced by the customer?
- What would you do to solve the problem?

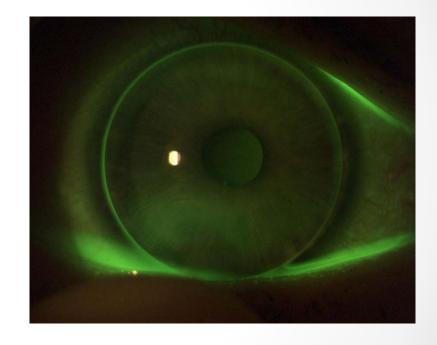


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 Juli 2017

Customer, 23 years old, wears aspheric lenses. Watch the image:

Vragen:

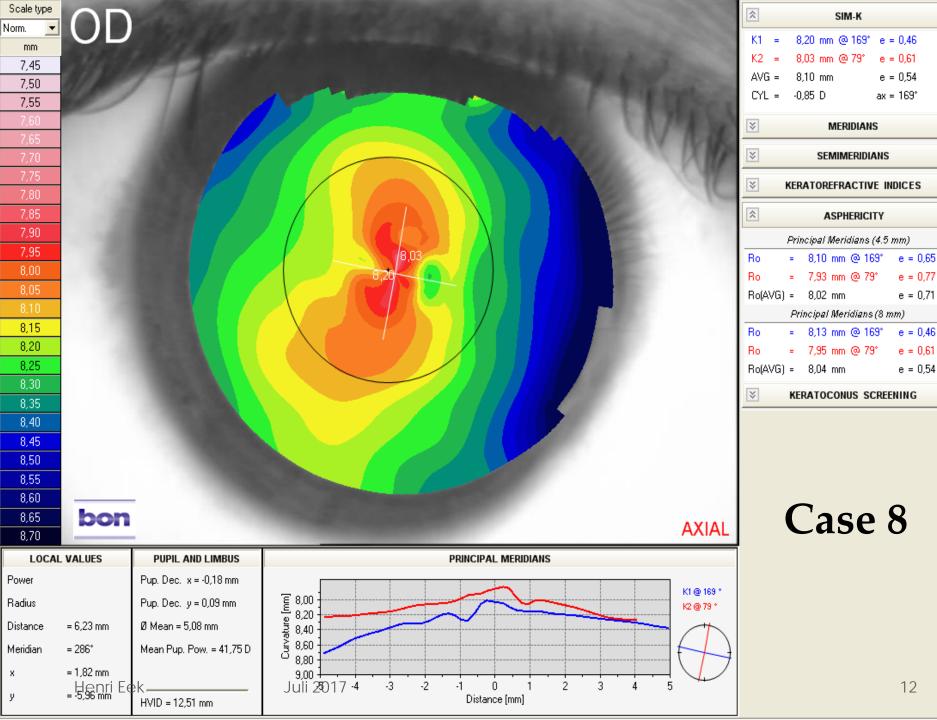
- Evaluate the diameter and the centration of the lens.
- Evaluate the lens fitting in both main directions.
- What problems might be experienced by the customer?
- What would you do to solve the problem?



Watch the image on the next slide and give an answer to the following questions.

- What is the advantage of a corneal topgrapher when compared to a keratometer?
- What is the difference between 'tangential' en 'saggital' values?
- What is the difference between 'absolute' and 'relative' presentation of values?
- When is each kind of value preferably used?
- Which kind of astigmatism is presented by the image?
- In which direction is the flat curve of the cornea?
- How high is the cilinder of this cornea?
- What is presented by the blue and the red line?

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About the author

- This resource has been donated from FIACLE Henri Eek from Hogeschool Utrecht, The Netherlands.
 Henri is also affiliated with Deltion College in The Netherlands.
- Henri is a proud IACLE member 'IACLE has given me the opportunity to get in contact with contact lens involved people from all over the world. They've also provided me a lot of tools for improving my way of teaching contact lens education to students at both the institutes that I work for.'