

Beeldvorming in de oogheelkunde

Jaco Bleeker



Patient C. Omplex 55 jaar man

Visus daling en metamorfopsie OD bij DM en glaucoom in de familie anamnese, bij de opticien een flink astigmatisme
Visus cc OD met forse cylinder 0,4 Visus OS 1/300 LP niet intact.

Beleid:

Pentacam, IOL meting, OCT papil en macula OD, USG OS, FAG OD

Keratoconus

Fors astigmatisme

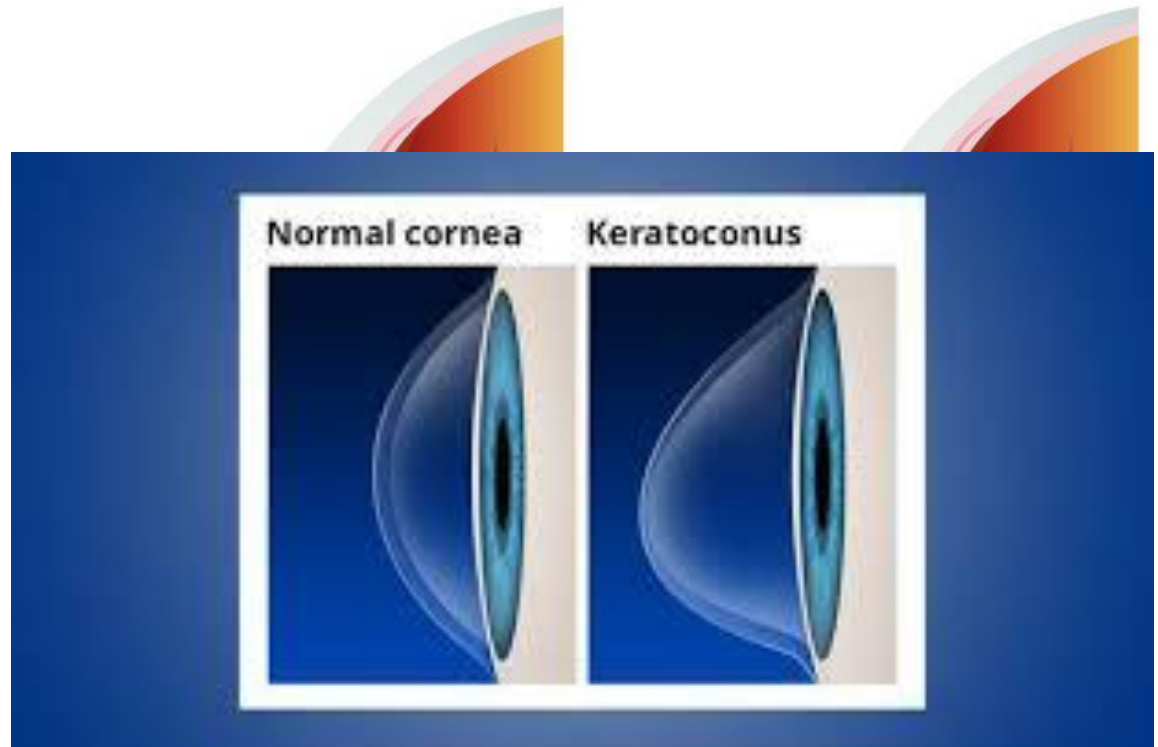
DD,

Congenitaal

Keratoconus

Pellucide degeneratie

Post traumatisch



Vorsegment

Placidoschijf



Topograaf



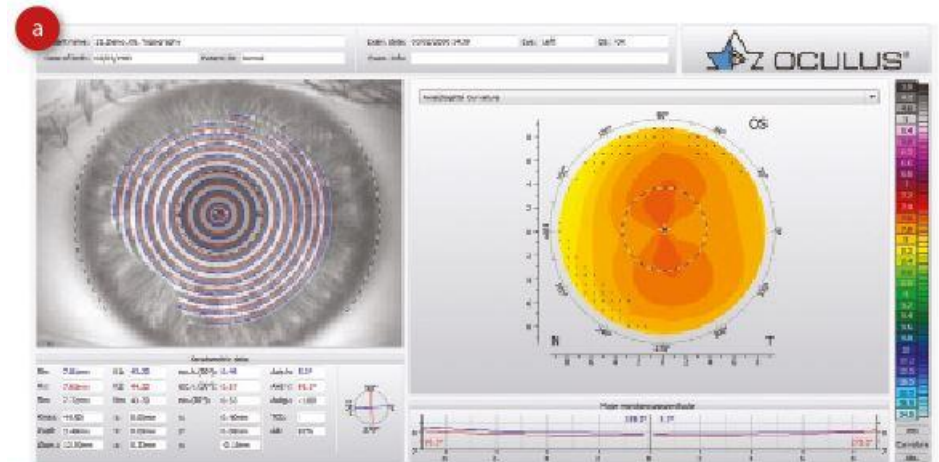
Vorsegment

Pentacam

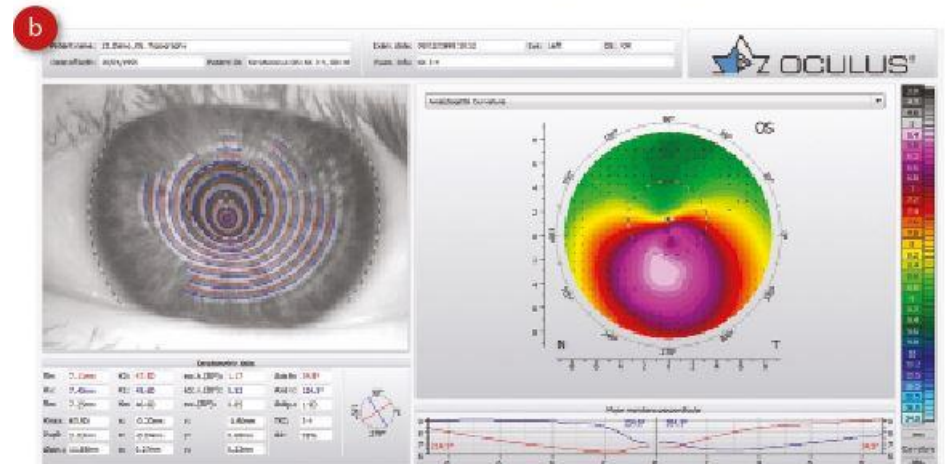


Placido rings en pentacam meneer C.Omplex

Normale cornea

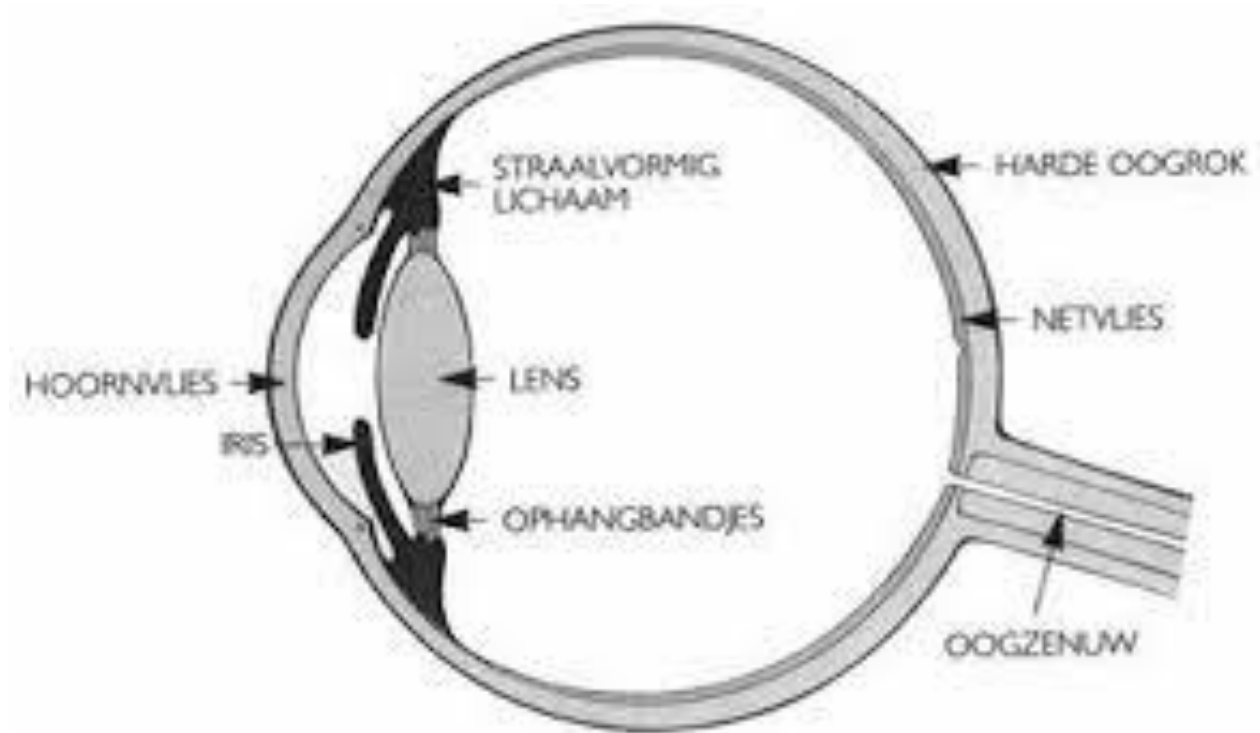


Keratoconus



Lens

Glasvocht



Lens



All images: Steven C. Schallhorn, MD

(a to b): Corneal Thickness (cm)

Human: 0.05

Rhesus: 0.05

Rabbit: 0.04

(b to c): Aqueous Humor Thickness (cm)

Human: 0.31

Rhesus: 0.31

Rabbit: 0.29

(c to d): Lens Thickness (cm)

Human: 0.36

Rhesus: 0.40

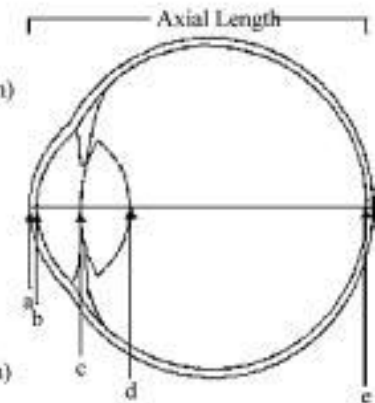
Rabbit: 0.79

(d to e): Vitreous Humor Thickness (cm)

Human: 1.72

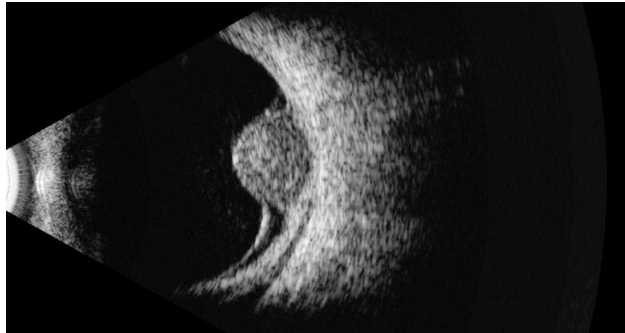
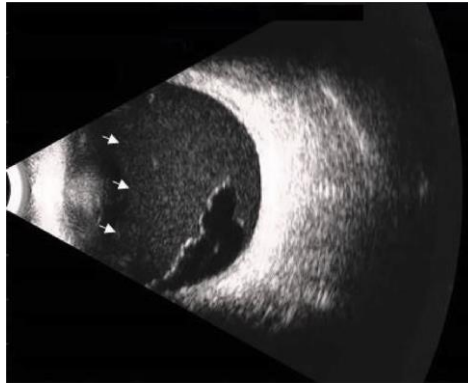
Rhesus: 1.23

Rabbit: 0.67



Glasvocht en netvlies

echografie



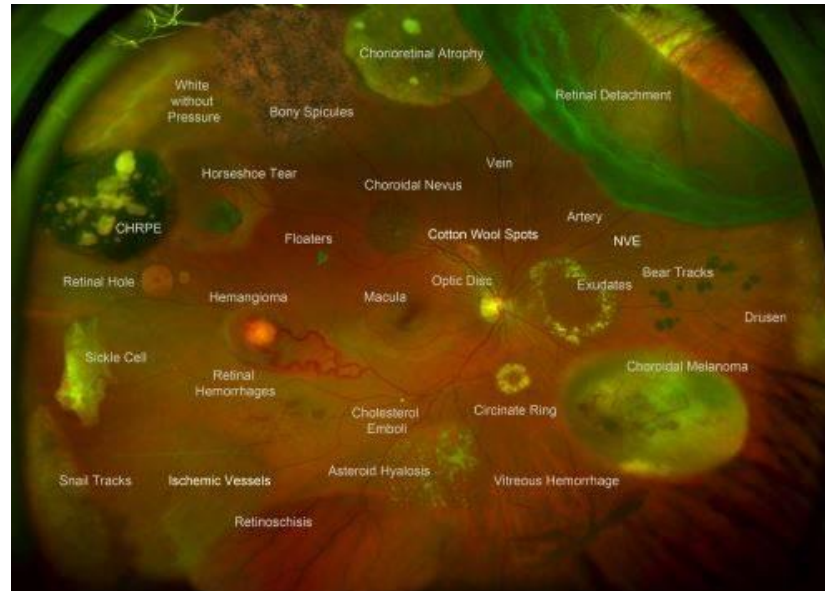
Achtersegment

Fotografie

Normaal

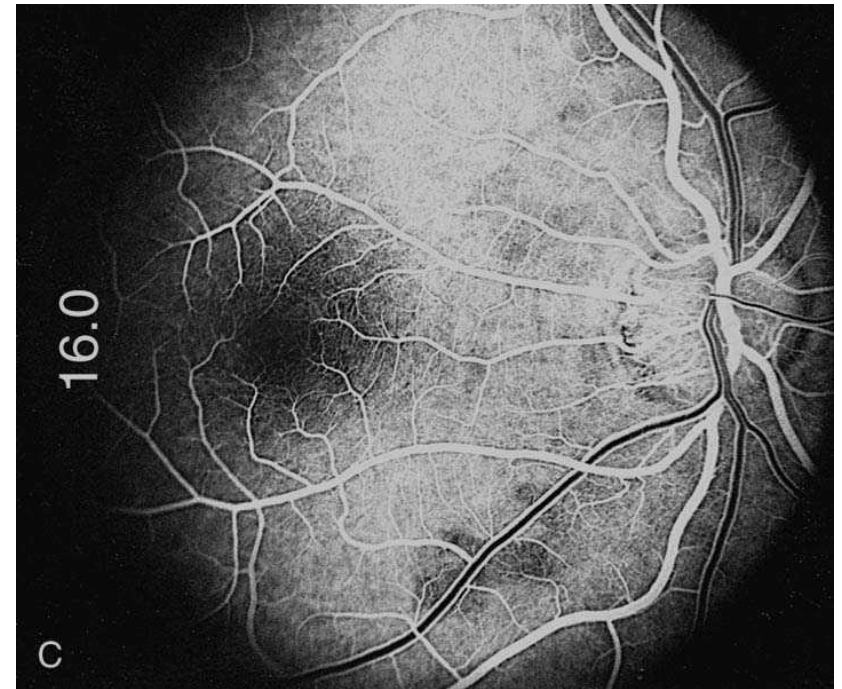
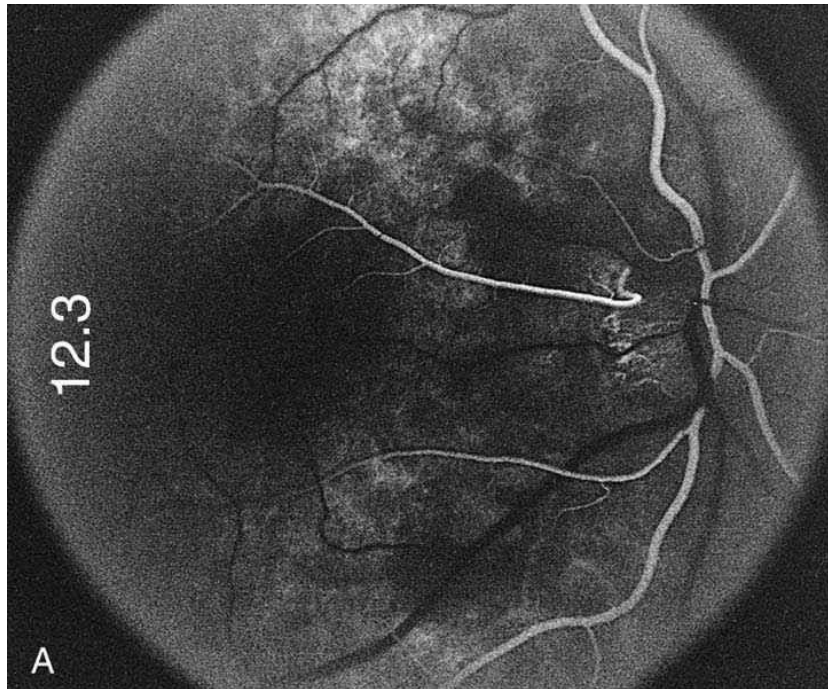


Ultrawidefield

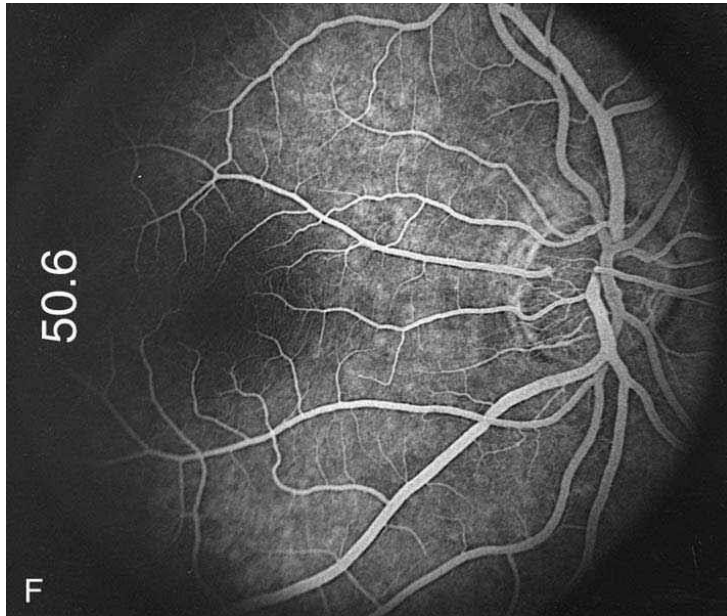




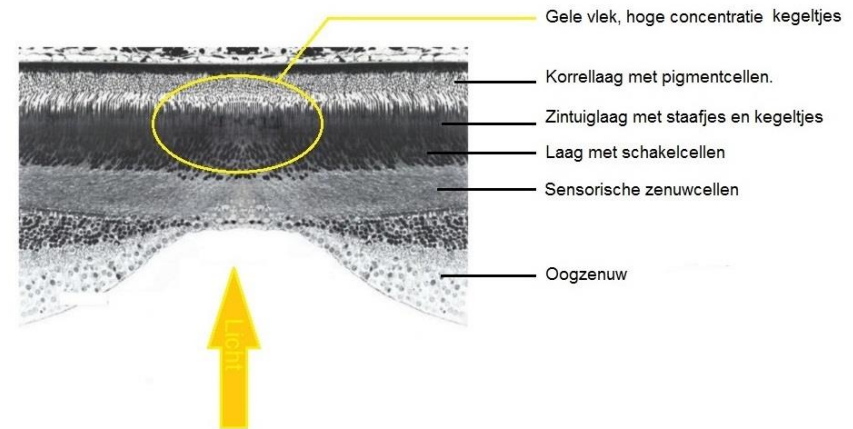
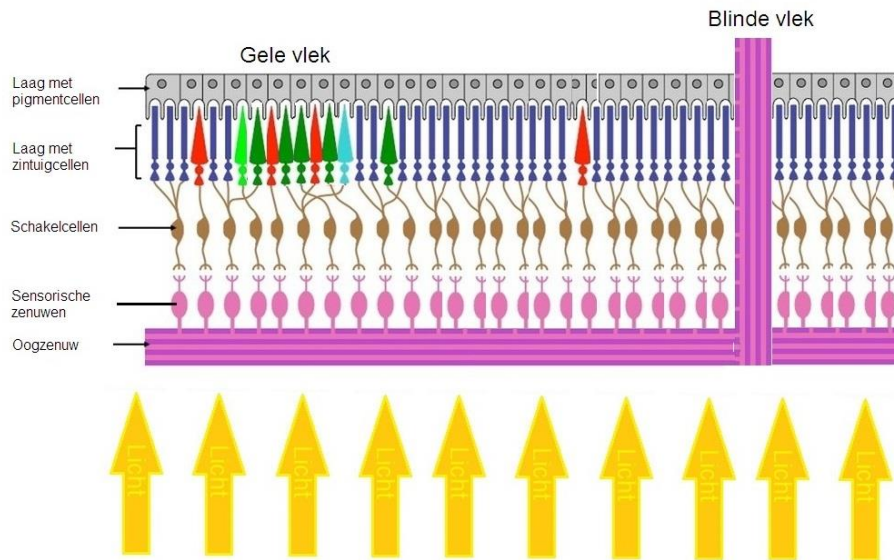
Achtersegment en fluorescentie angiografie



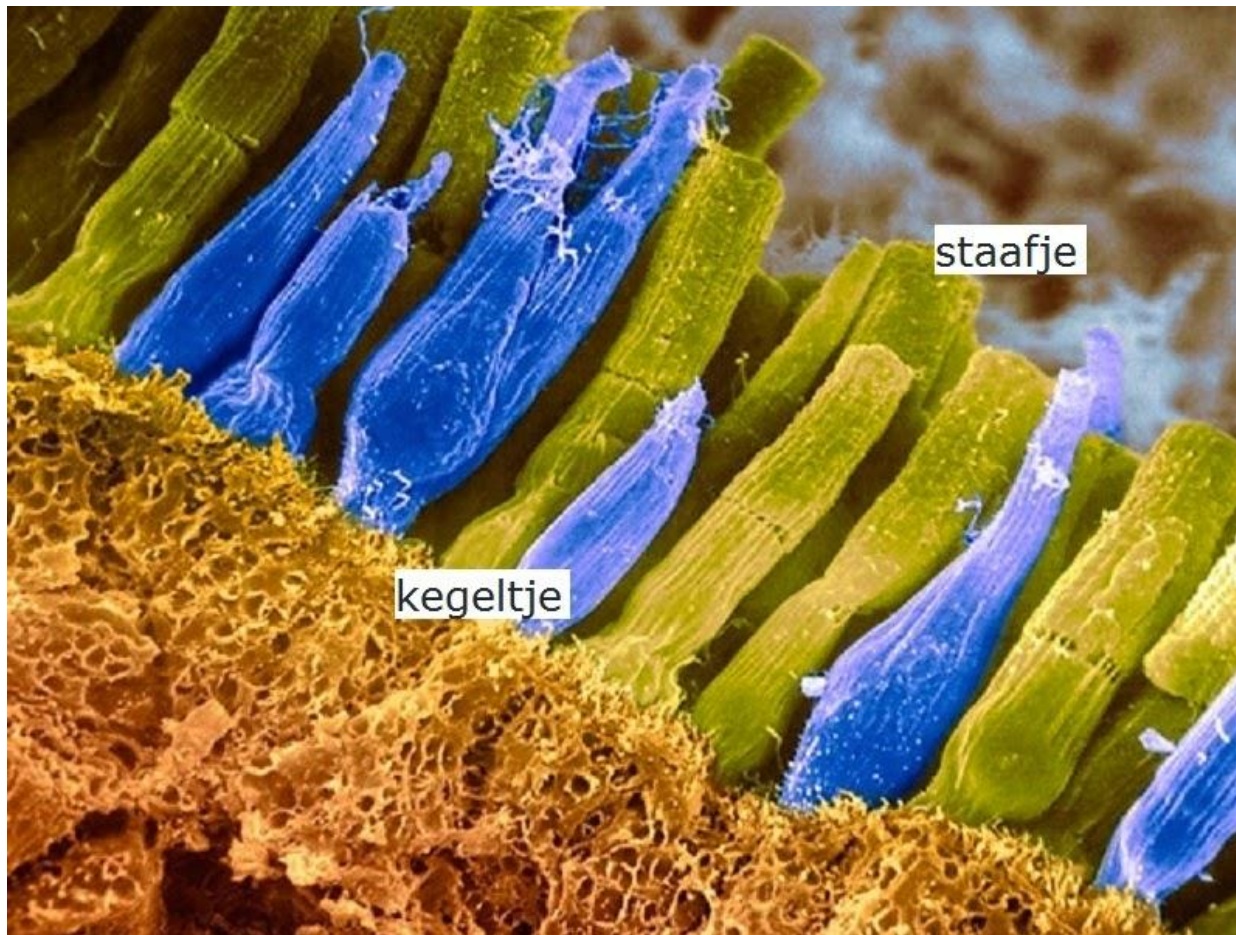
Normal FA



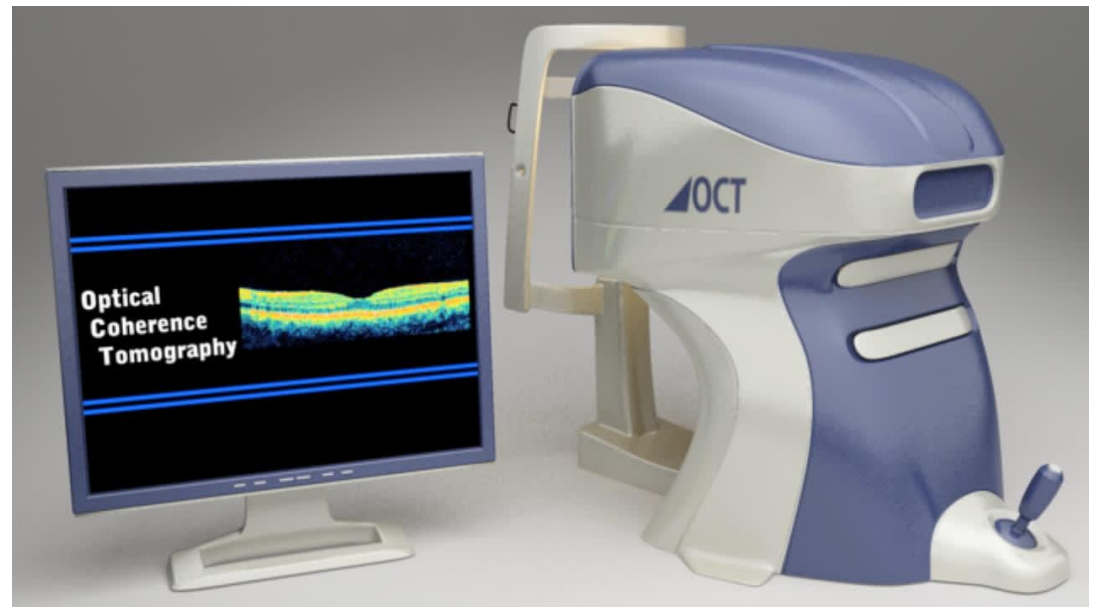
Het netvlies met gele vlek en blinde vlek



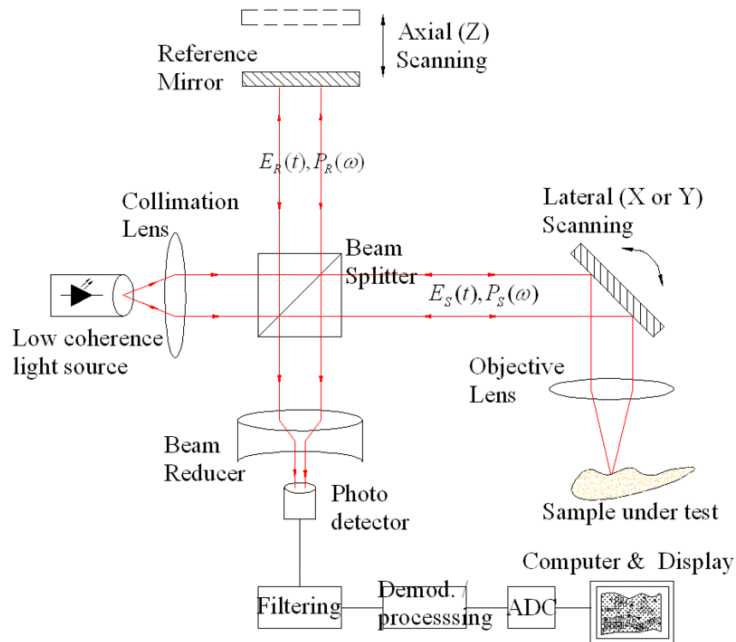
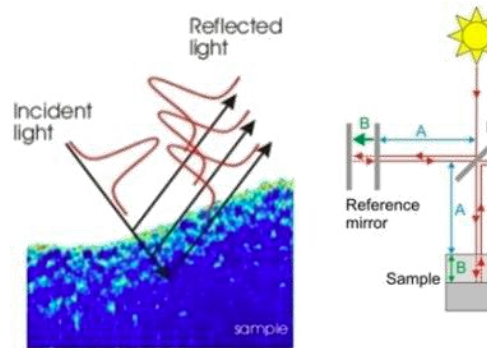
Achtersegment



OCT-scan

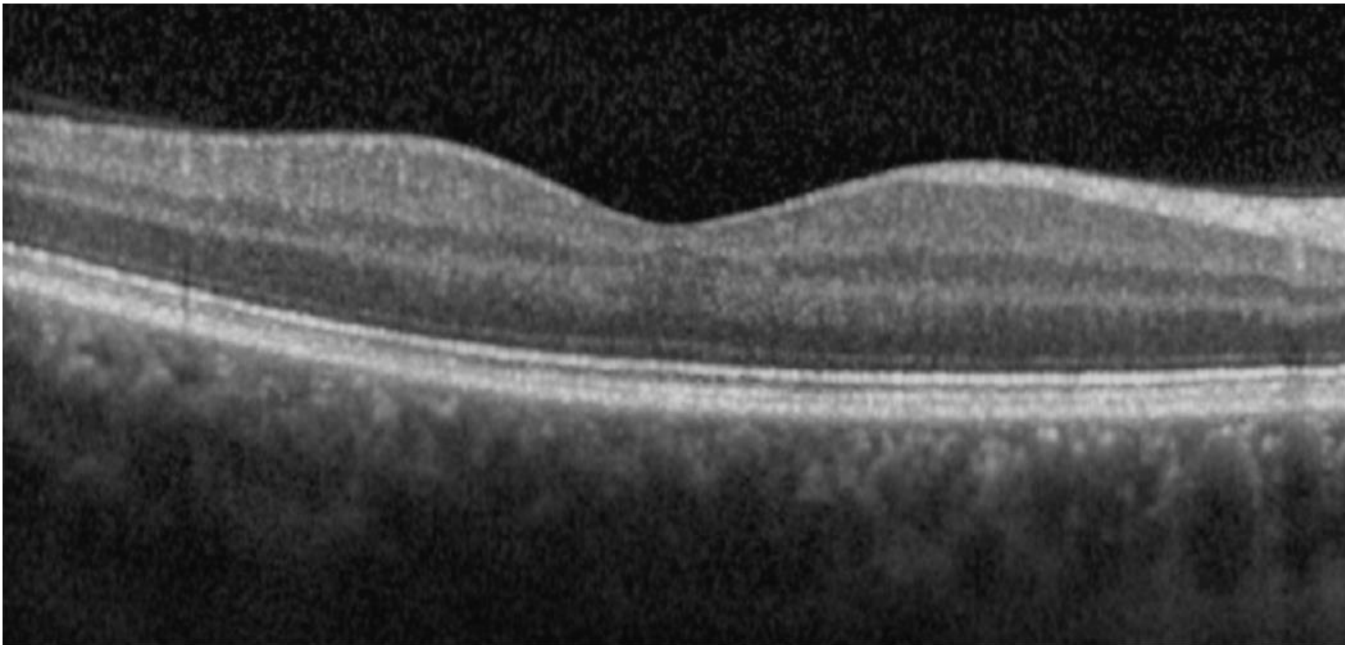


Optical coherence tomography

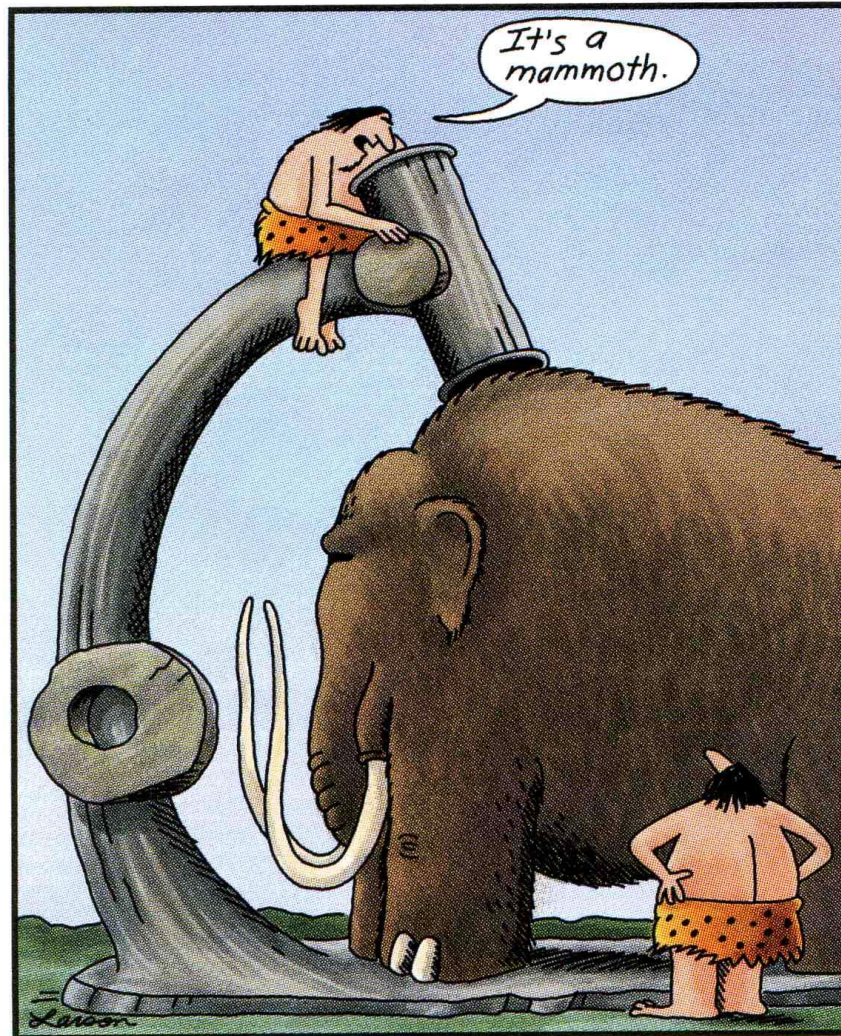


$$\frac{\rho}{4} [S(k) \sum_{n \neq m=1}^{n=1} \sqrt{R_{Sn} R_{Sm}} (e^{i2k(z_{Sn} - z_{Sm})} + e^{-i2k(z_{Sn} - z_{Sm})})]$$

Achtersegment, OCT

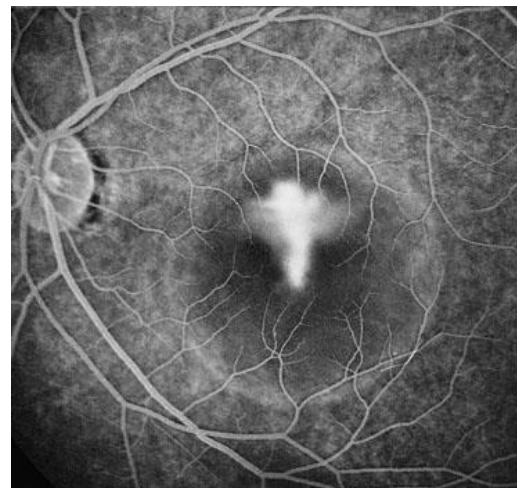
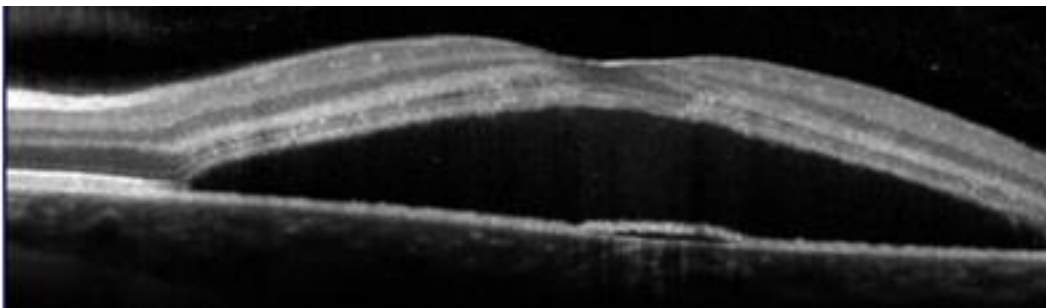
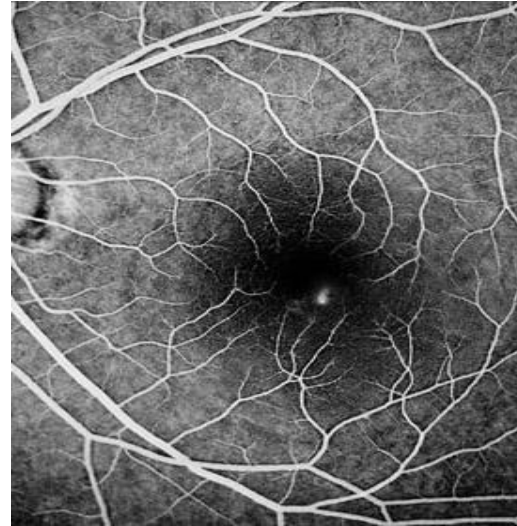


OCT basics: what are we looking at?



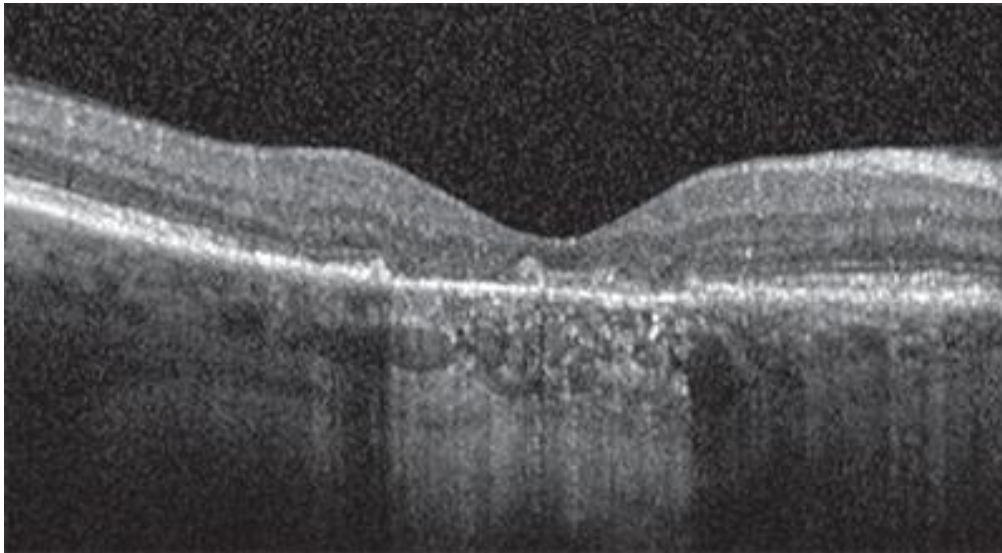
Early microscope

Centrale sereuze retinopathie



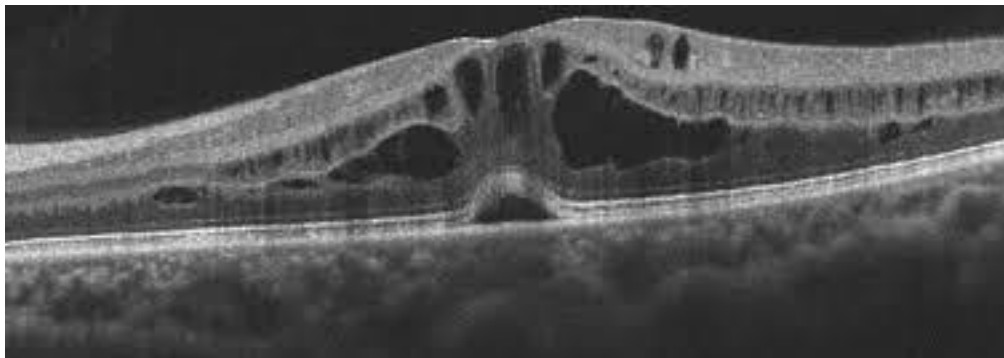
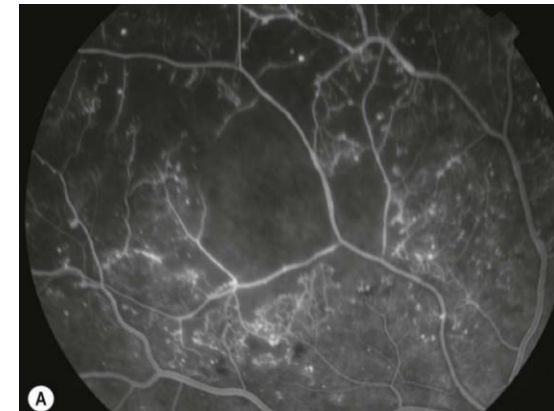
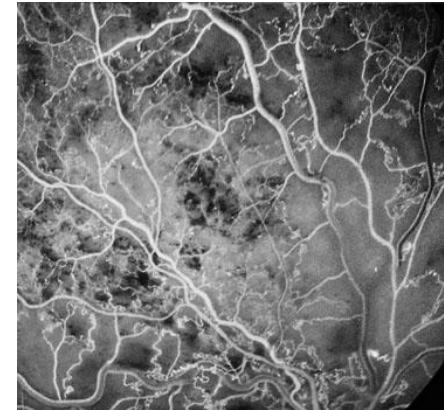
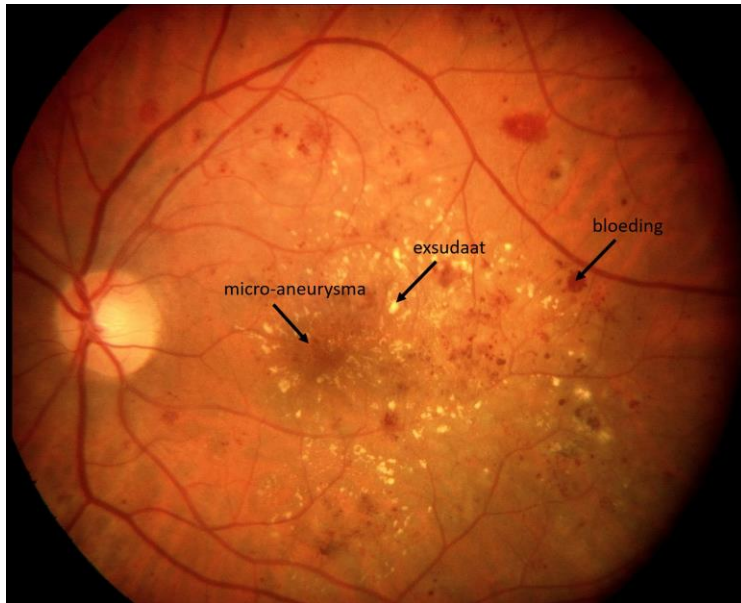
Atrofische macula degeneratie

- *Transmission (window) defect*



Abnormal FA: hypofluorescence

Diabetes



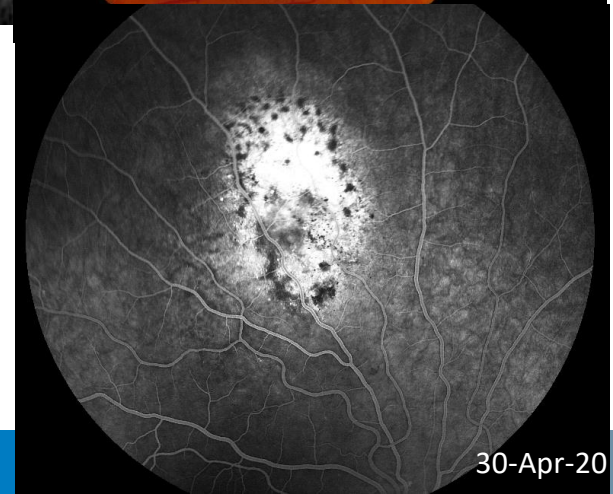
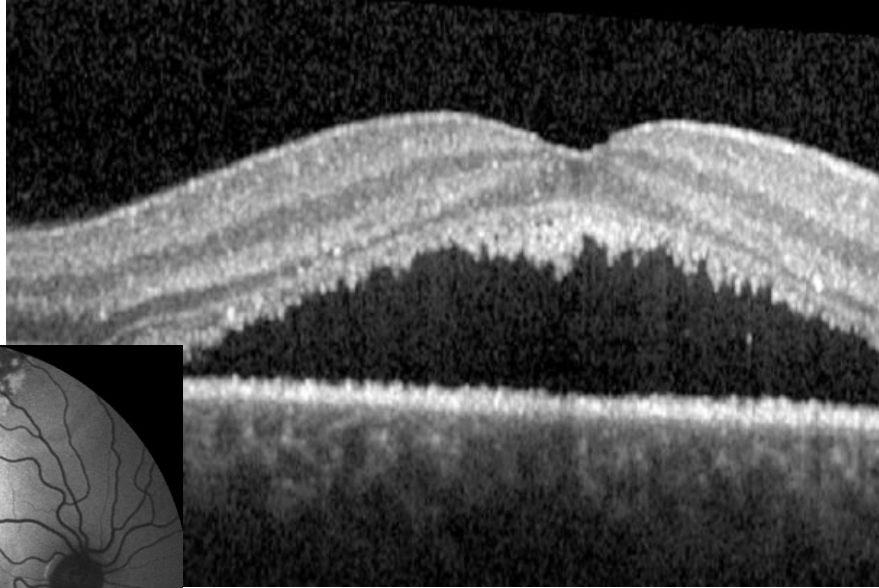
Achtersegment

- *Fundoscopy first!*



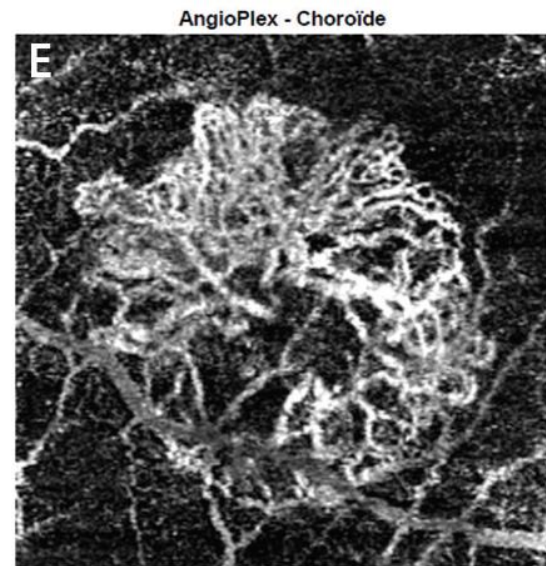
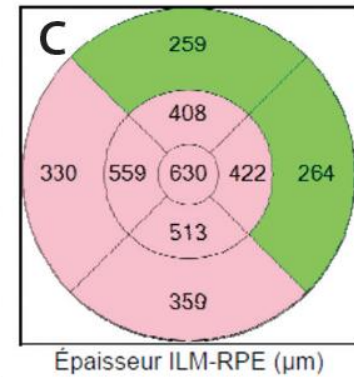
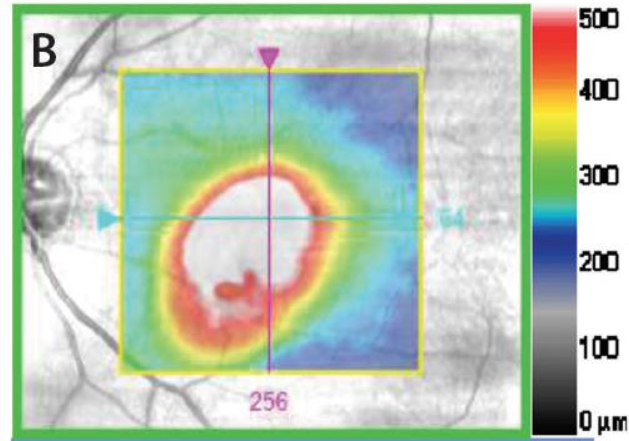
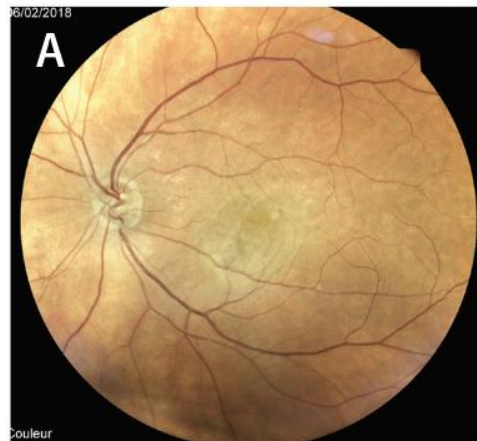
Interpreting OCT: a systematic approach

- *Fundoscopy first!*

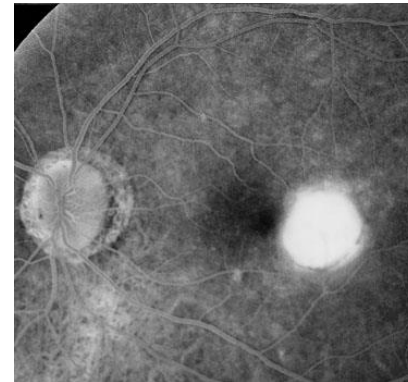
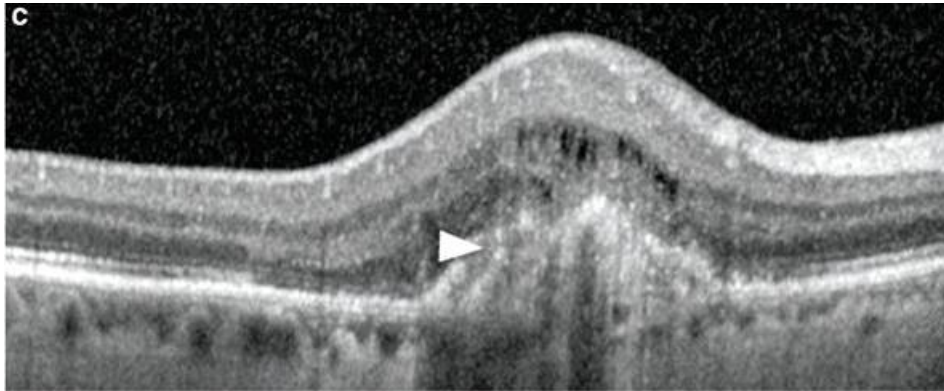


CONTEXT
MATTERS

Achtersegment seniele exsudatieve maculadegeneratie



- *Leakage*



Achtersegment seniele exsudatieve maculadegeneratie





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