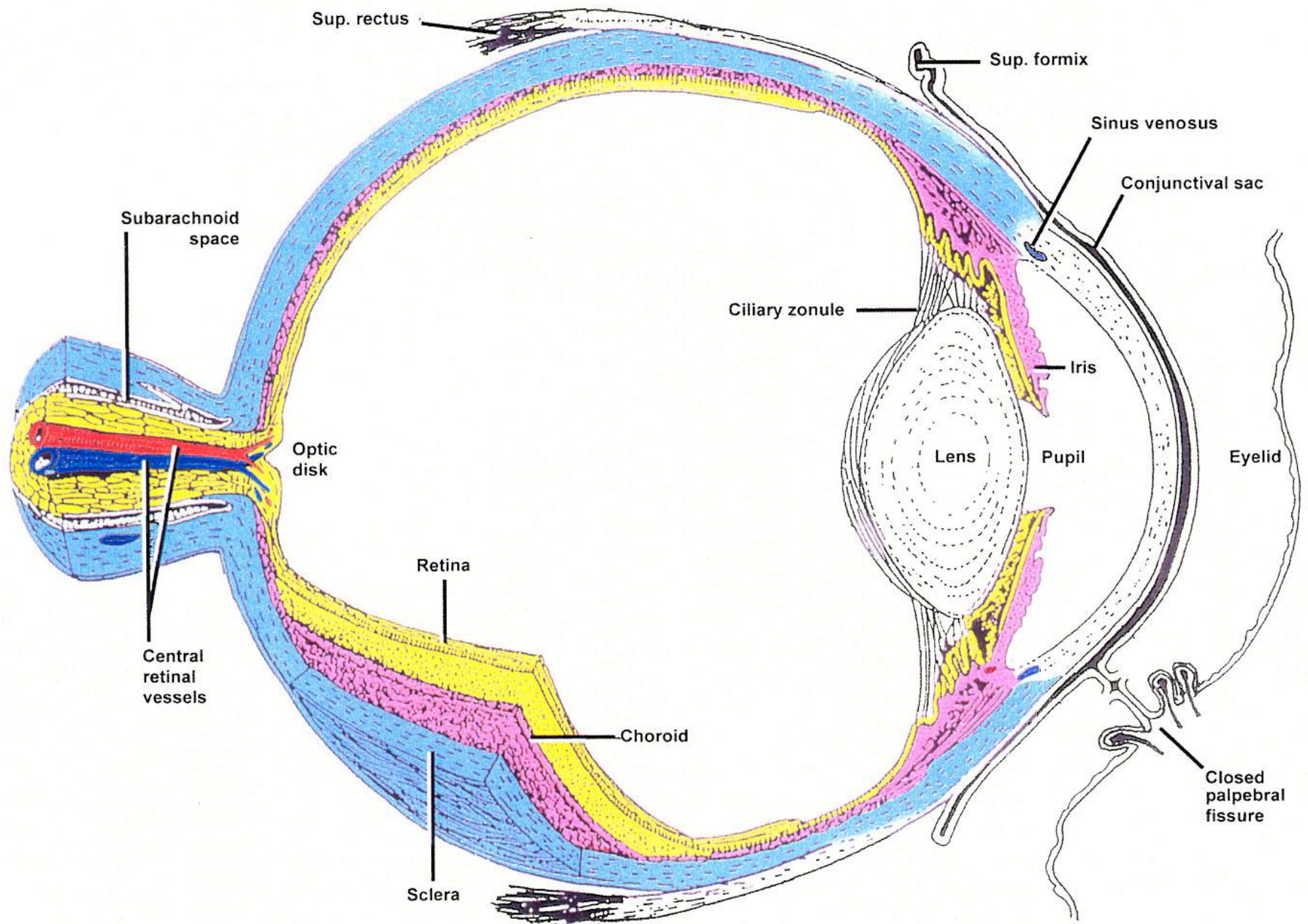


Súčasné možnosti chirurgickej liečby v oftalmológii



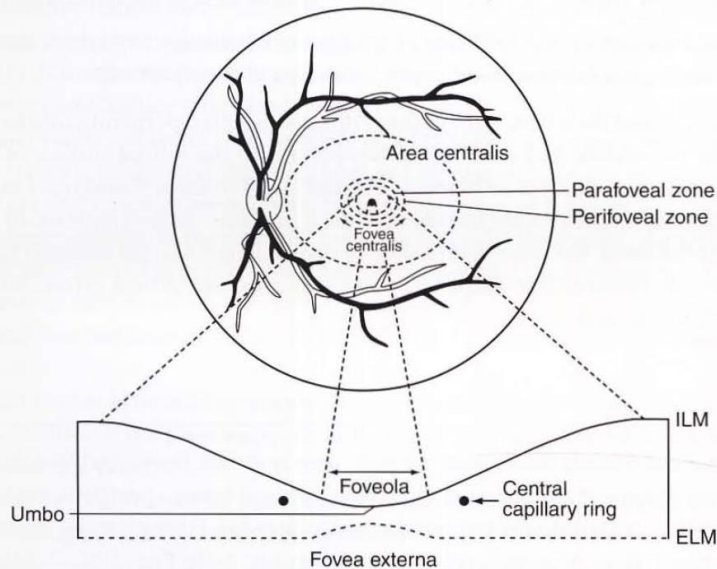


Figure 2-33 Anatomical macula; also called *area centralis*. The anatomical fovea and foveola are contained within the center of the macula. *ELM* = external limiting membrane, *ILM* = internal limiting membrane.

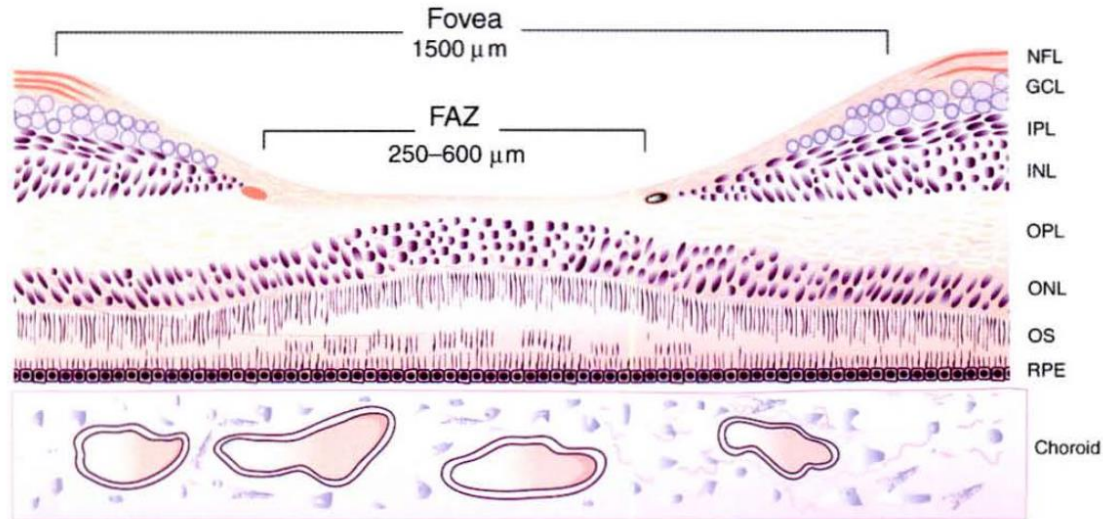
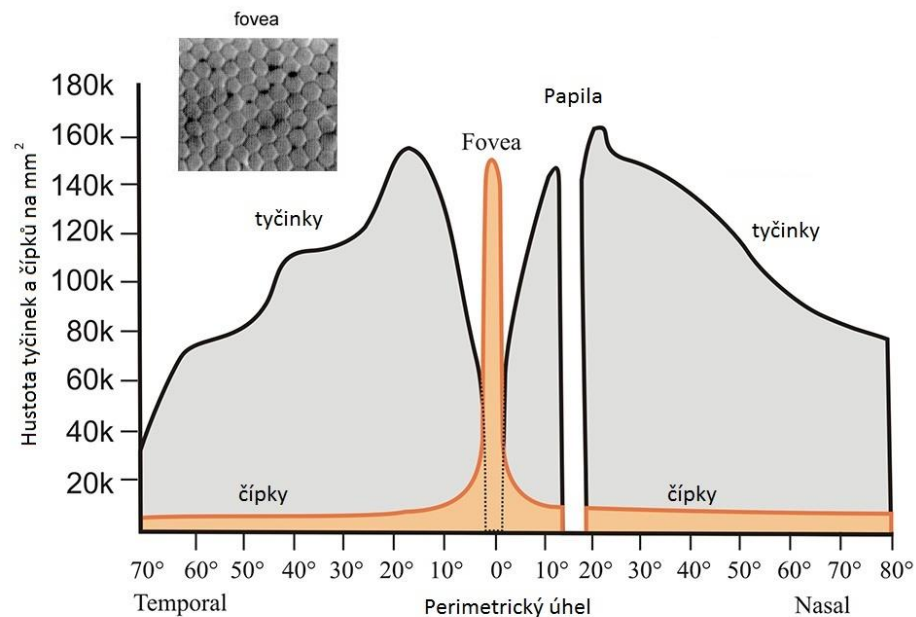


Figure 2-31 Schematic section through the fovea. *FAZ* = foveal avascular zone, *GCL* = ganglion cell layer, *INL* = inner nuclear layer, *IPL* = inner plexiform layer, *NFL* = nerve fiber layer, *ONL* = outer nuclear layer, *OPL* = outer plexiform layer/Henle fiber layer, *OS* = outer segments of the photoreceptors, *RPE* = retinal pigment epithelium. (Illustration by Sylvia Barker.)

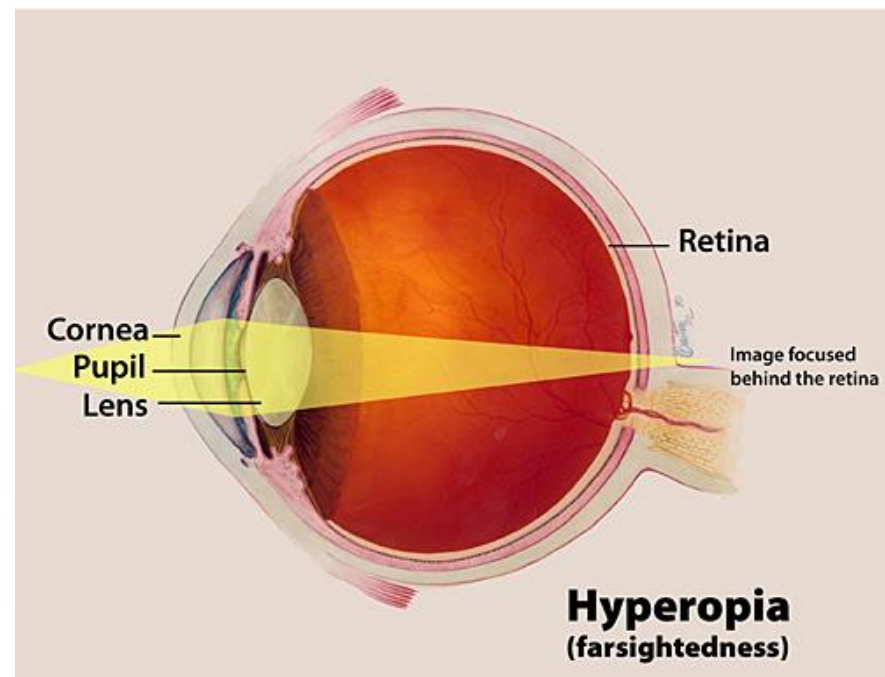
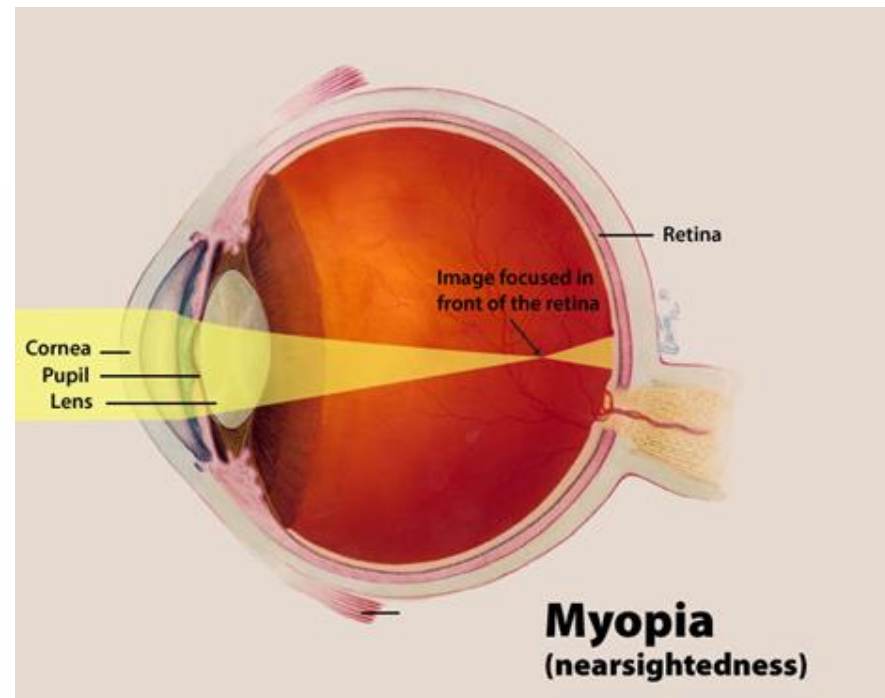
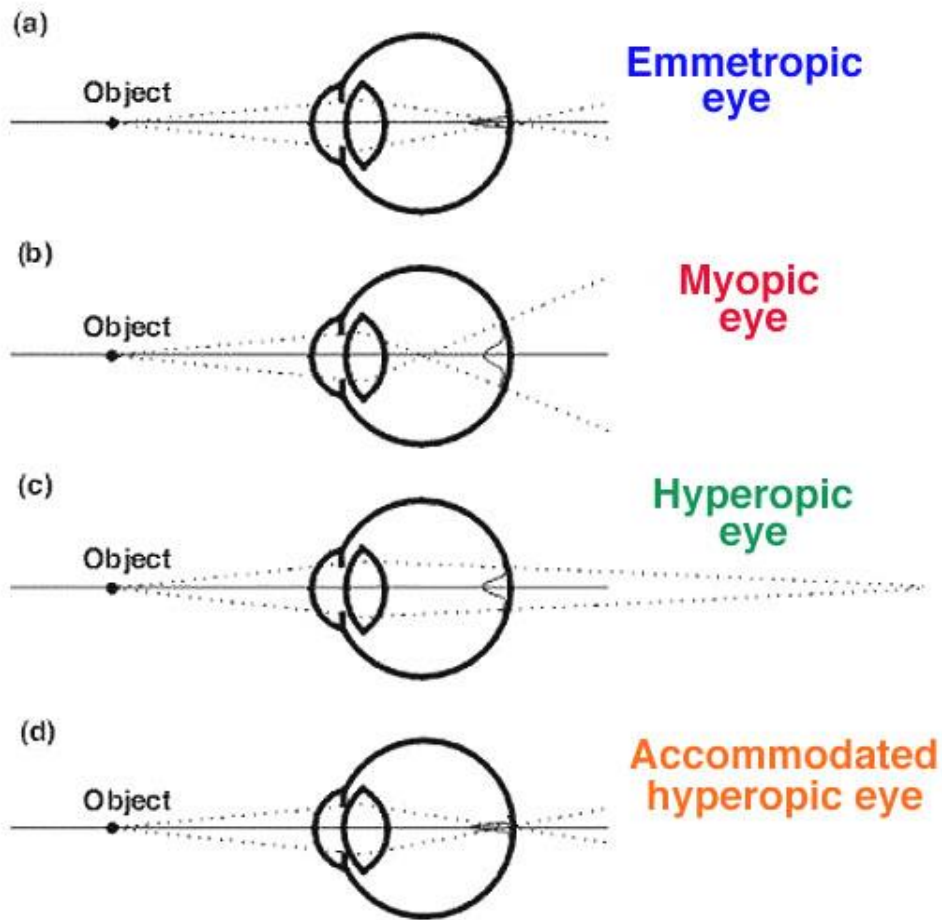


Figure 17. Point spread function at the back of the eye with different refractive errors.

60

36

24

18

12

9

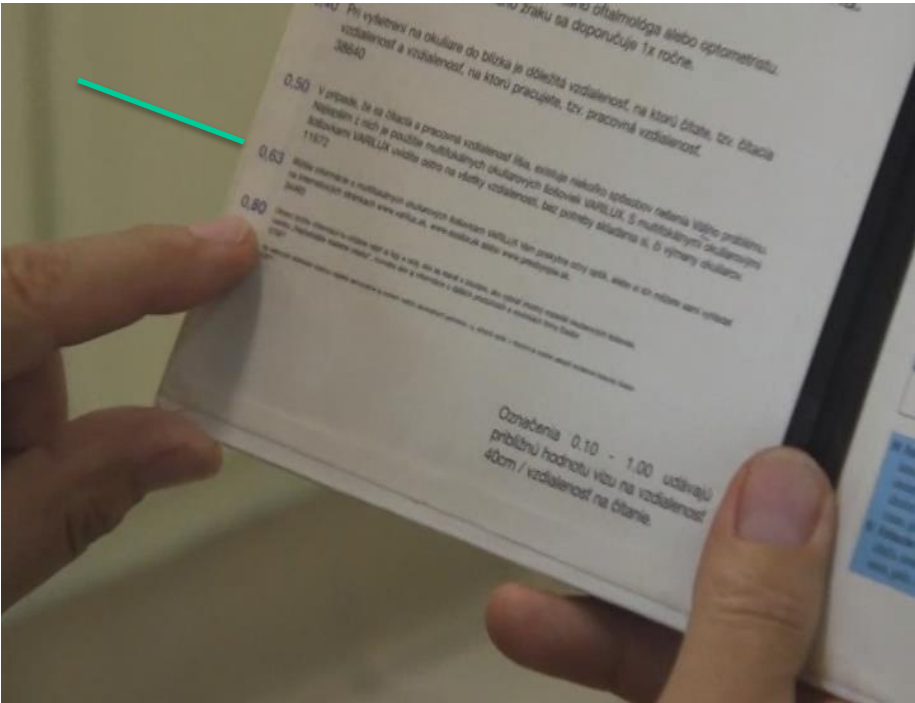
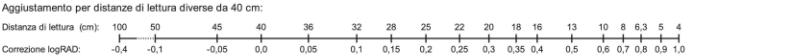
6

5

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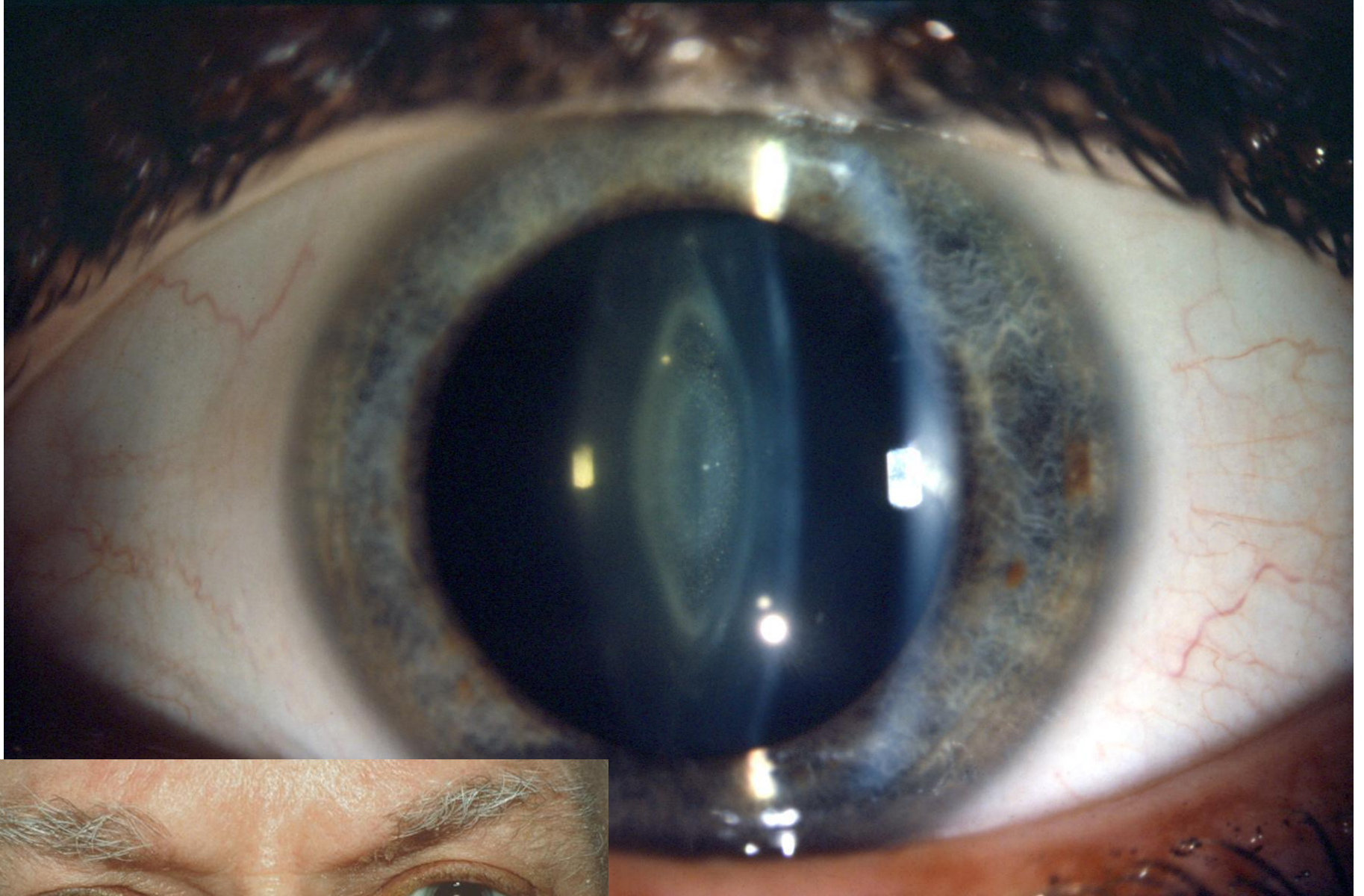
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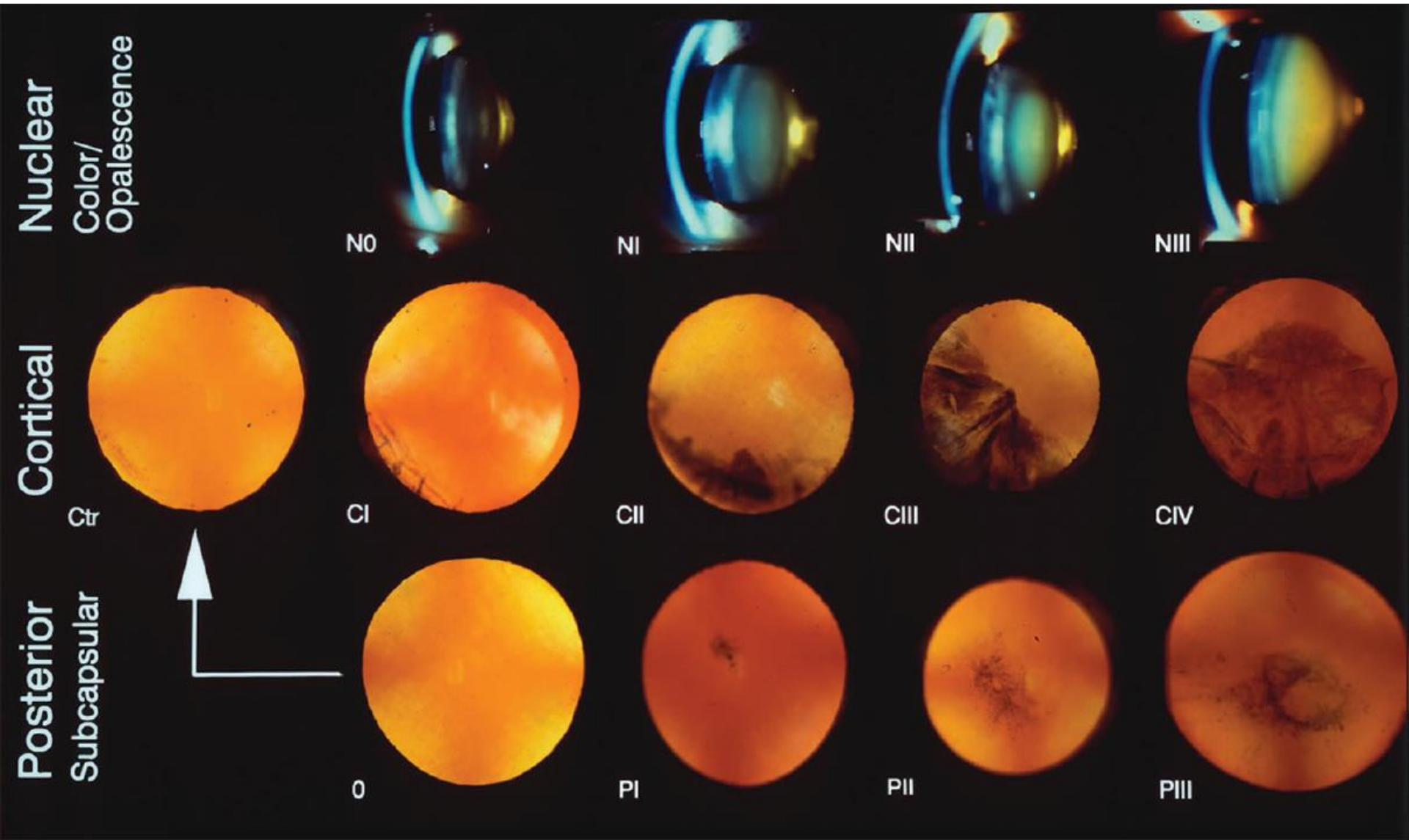
0,9/1,0	3,2	Mi pareva giusto averle detto di rientrare, se non voleva restare fuori nella veranda	0,13/0,10
0,8/0,9	2,5	La ragazza alta aveva perso un orecchino, ma un signore anziano ghielo trovò subito	0,16/0,13
0,7/0,8	2,0	Il turista era davvero stanco di camminare, ma poi voleva scalare quelle alte montagne	0,20/0,16
0,6/0,7	1,6	Il bambino della vicina volle le caramelle, che gli piaceva mangiare dopo aver studiato	0,25/0,20
0,5/0,6	1,26	In giardino Mario aveva visto la tartaruga, che lui aveva perduto nella stessa mattina	0,32/0,25
0,4/0,5	1,0	Il ragazzo era davvero stufo di attendere, ma non poteva lasciare sole quelle persone	0,40/0,32
0,3/0,4	0,8	La regina volle parlare solo al cavaliere, che lei avrebbe voluto nella grande impresa	0,50/0,40
0,2/0,3	0,6	Vi volevo tanto spedire altre tre cartoline, ma il negozio chiudevva prima delle diciotto	0,63/0,50
0,1/0,2	0,5	Mi dispiace tanto vedere tutto in cantedine, che nel lavoro tutto proprio quella mattina	0,8/0,63
0,0/0,1	0,4	La bambina era carina tutta per dentro, che se aveva perso tutto quello che aveva	1,00/0,80
-0,1/0,0	0,32		1,26/1,00
-0,2/-0,1	0,25		1,6/1,26

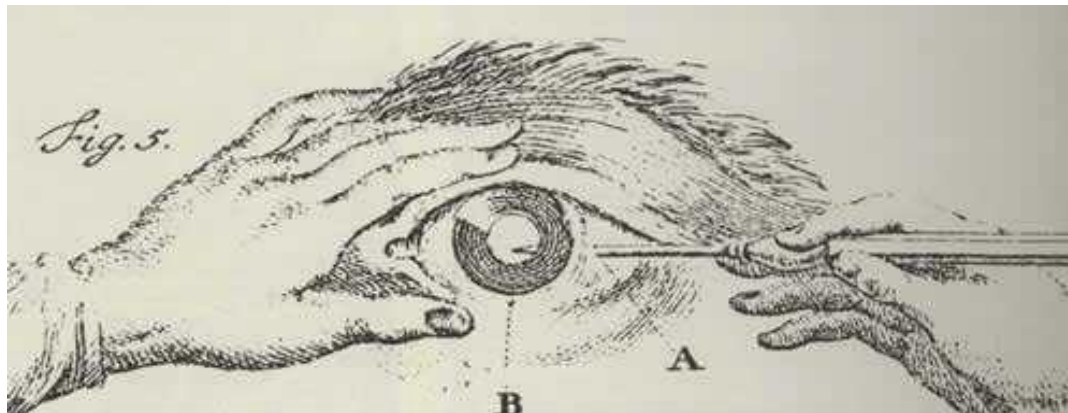
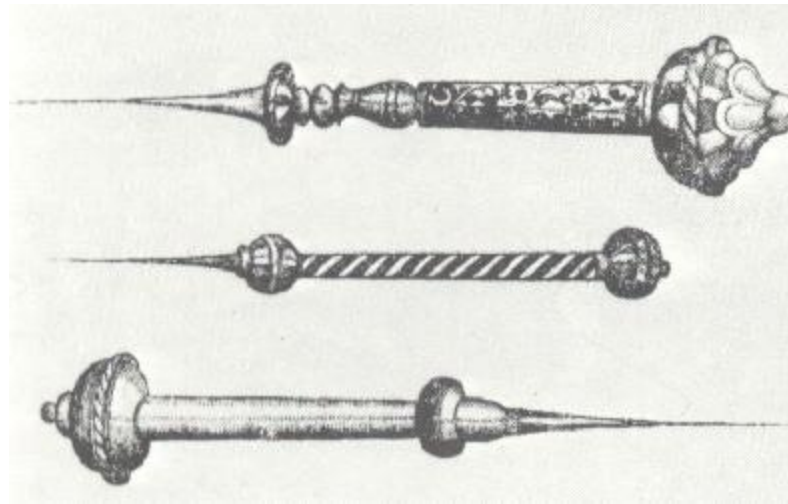


Sivý zákal (cataracta)



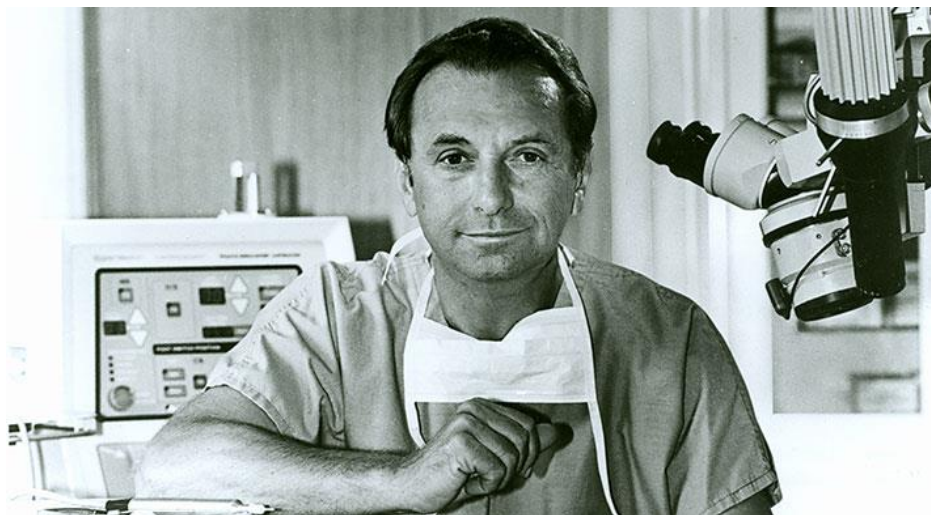


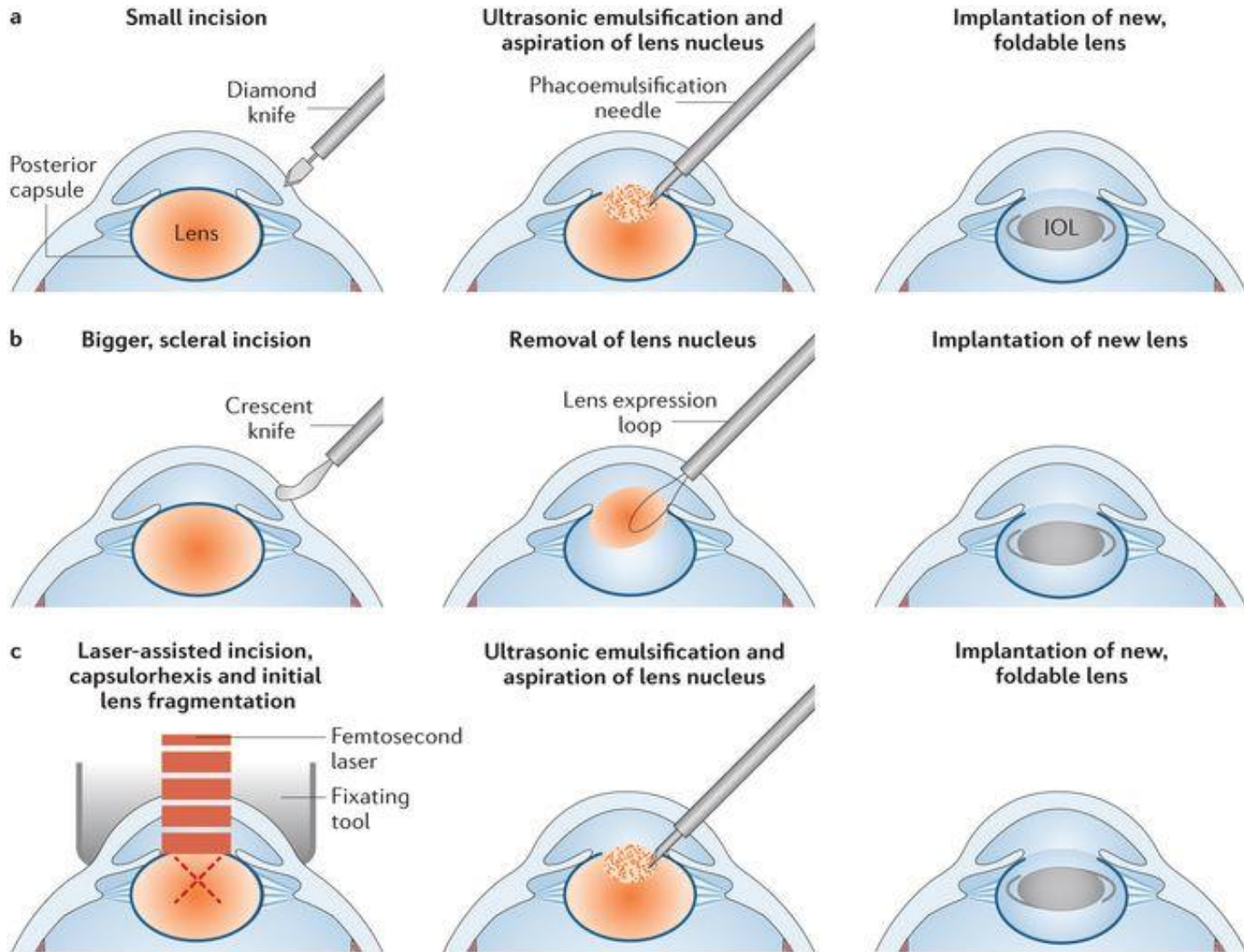


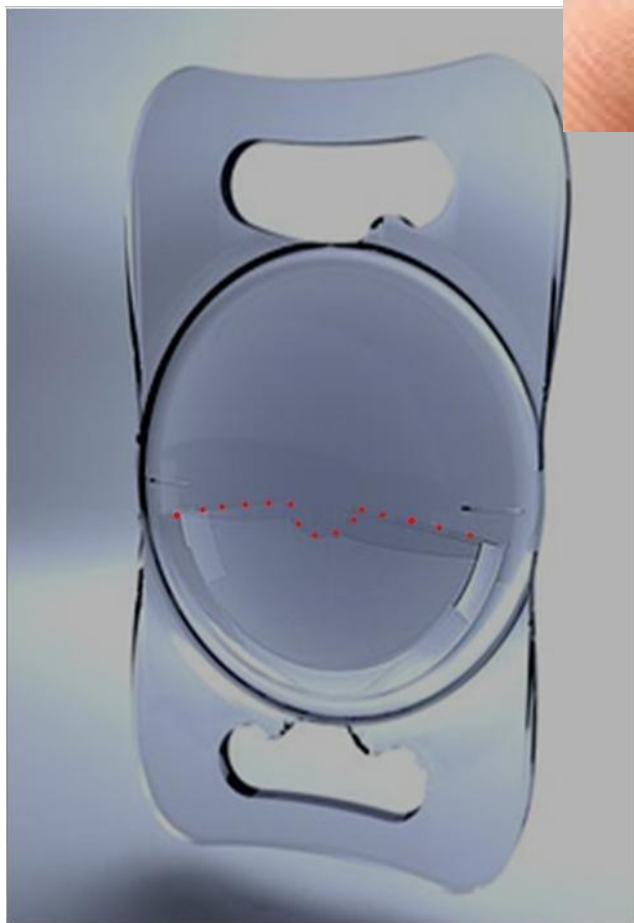


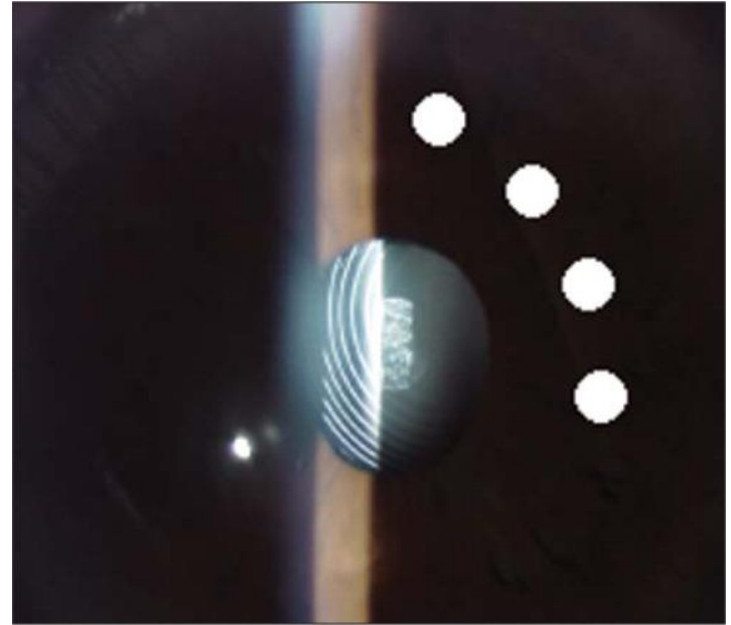
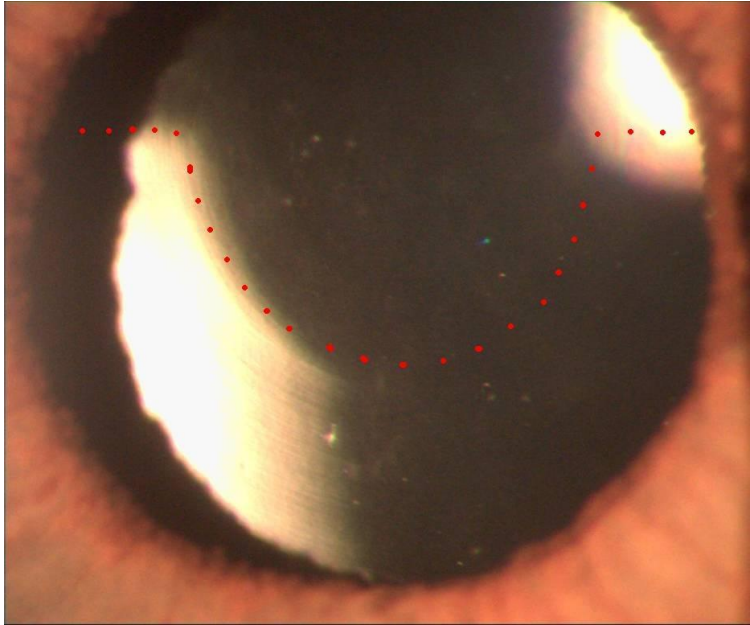
FAKOEMULZIFIKÁCIA

r.1967 Charles Kelman

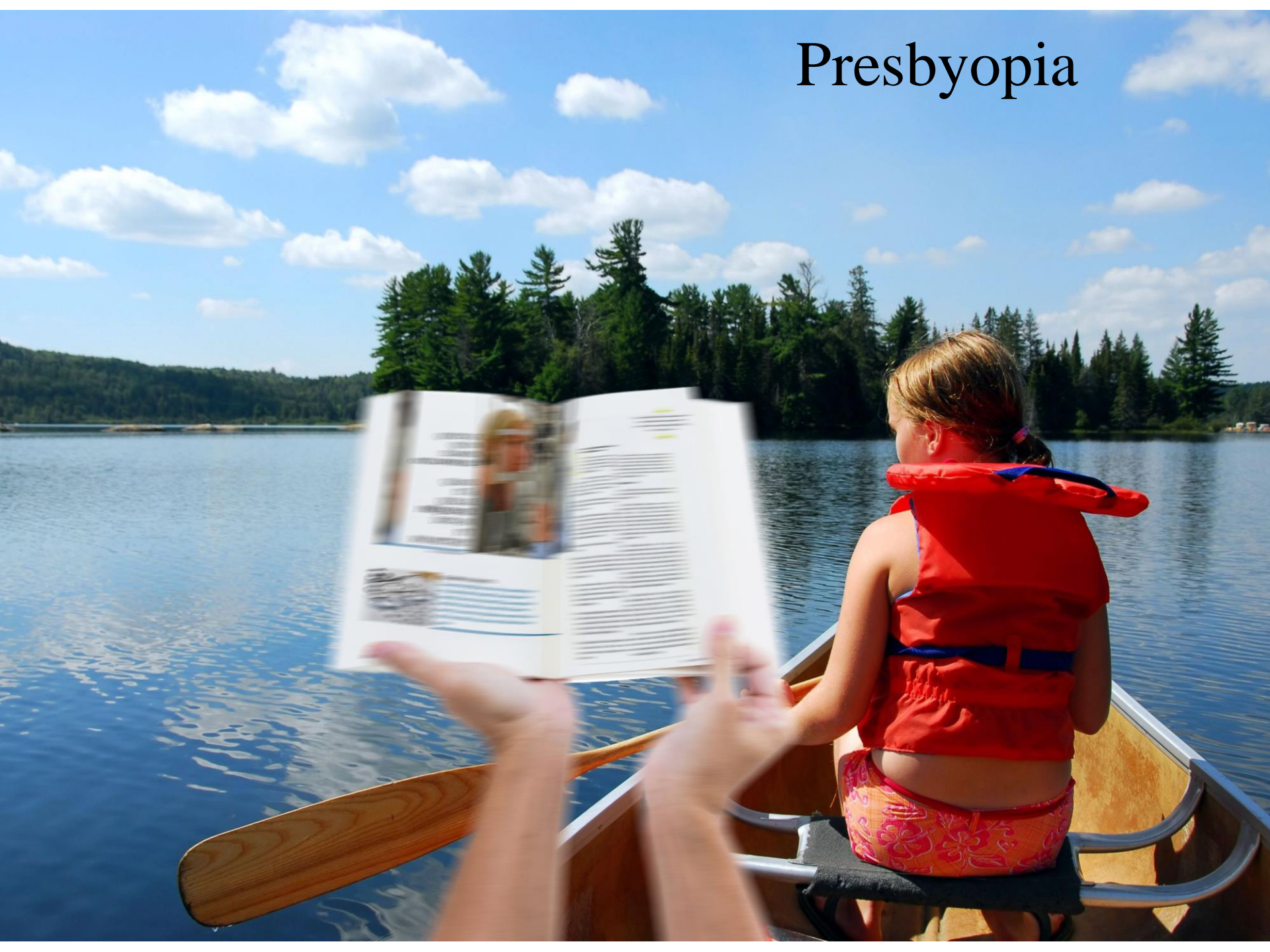


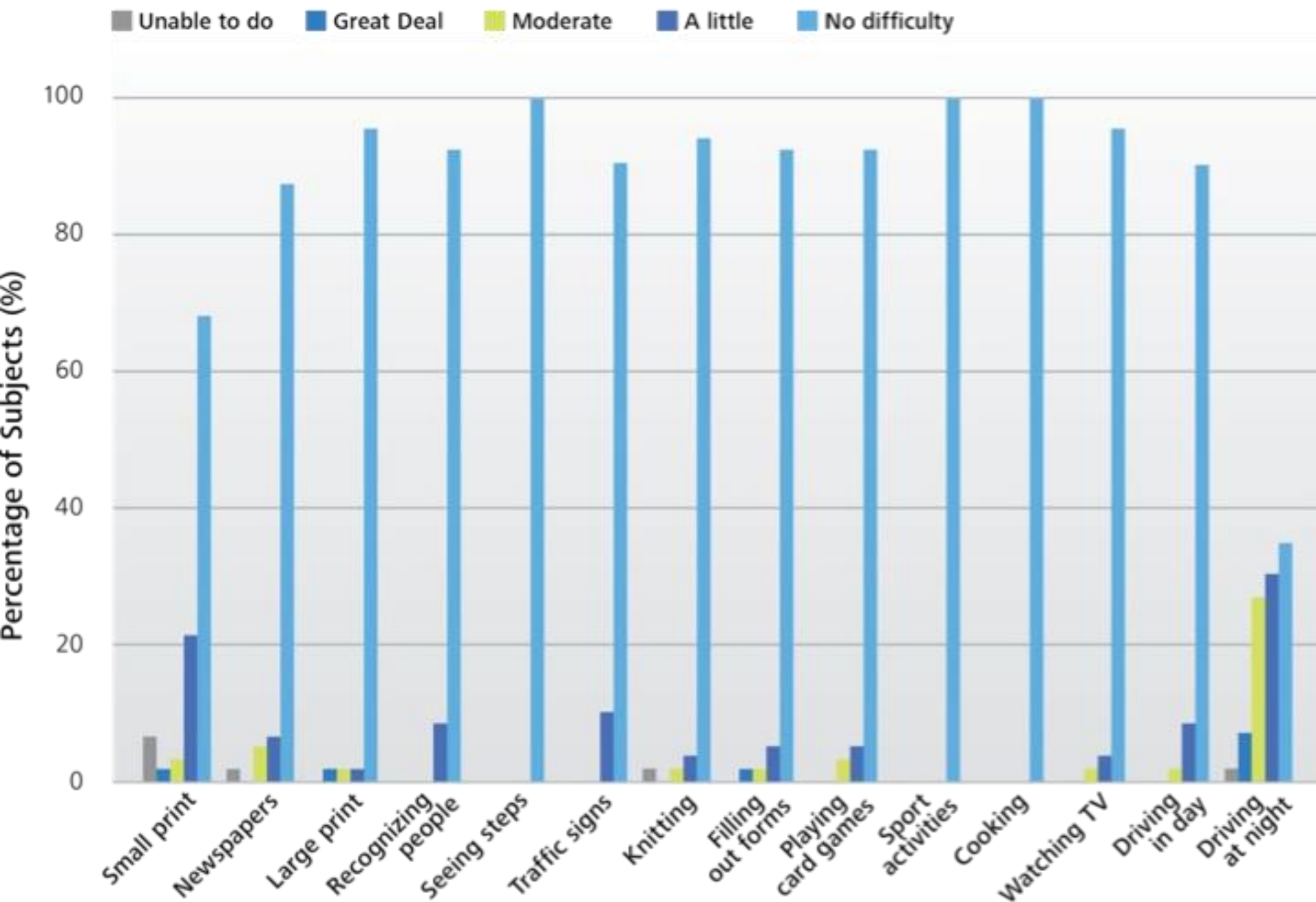






Presbyopia

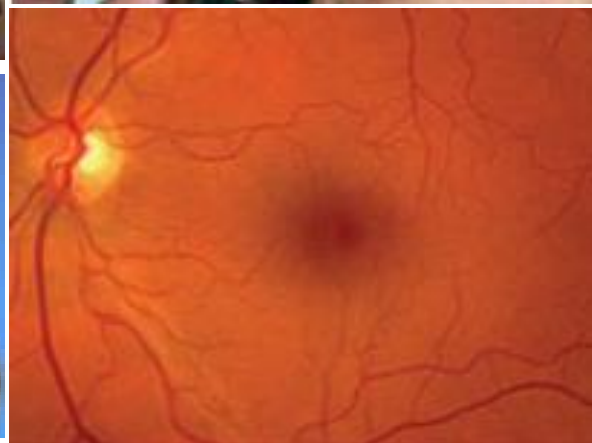
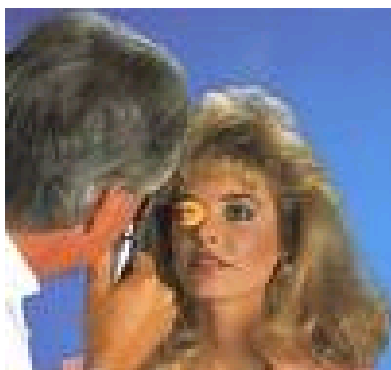
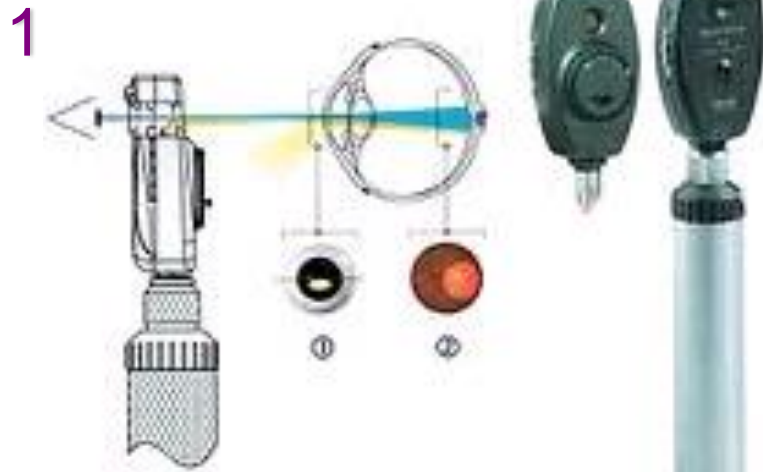




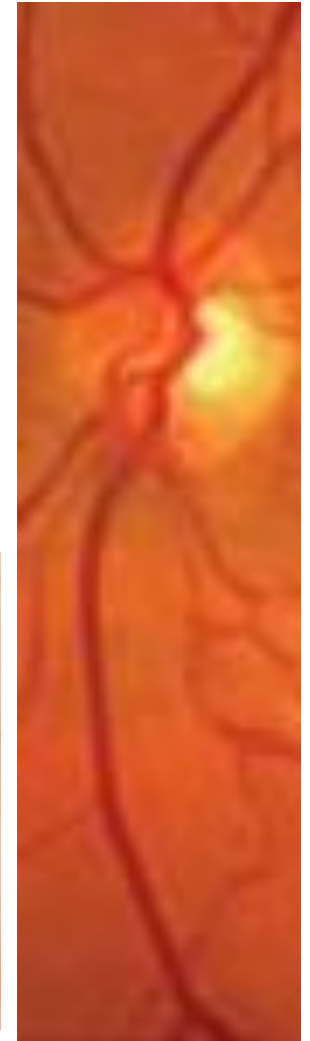
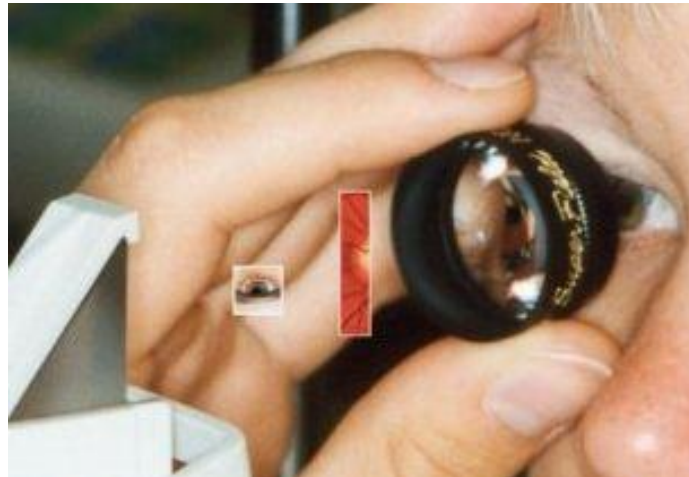
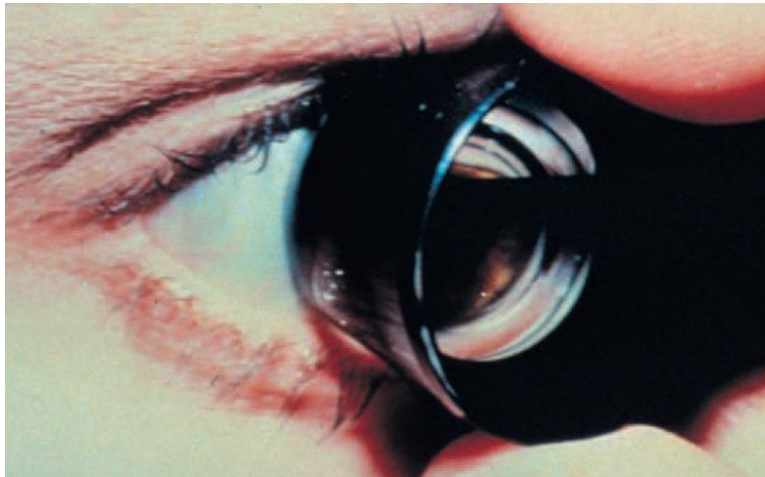
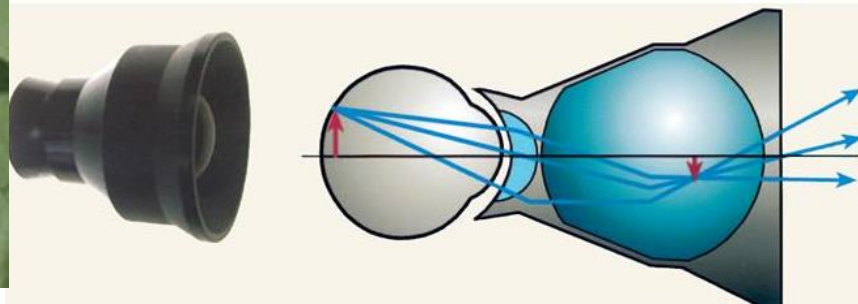
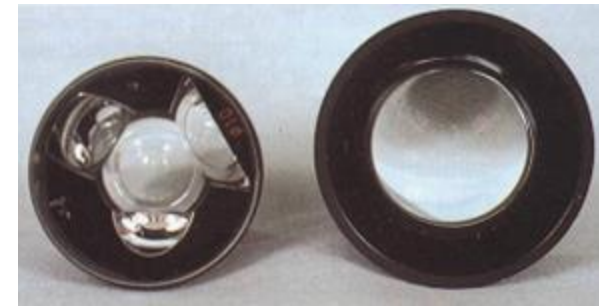
SIETNICA

VYŠETRENIE SIETNICE

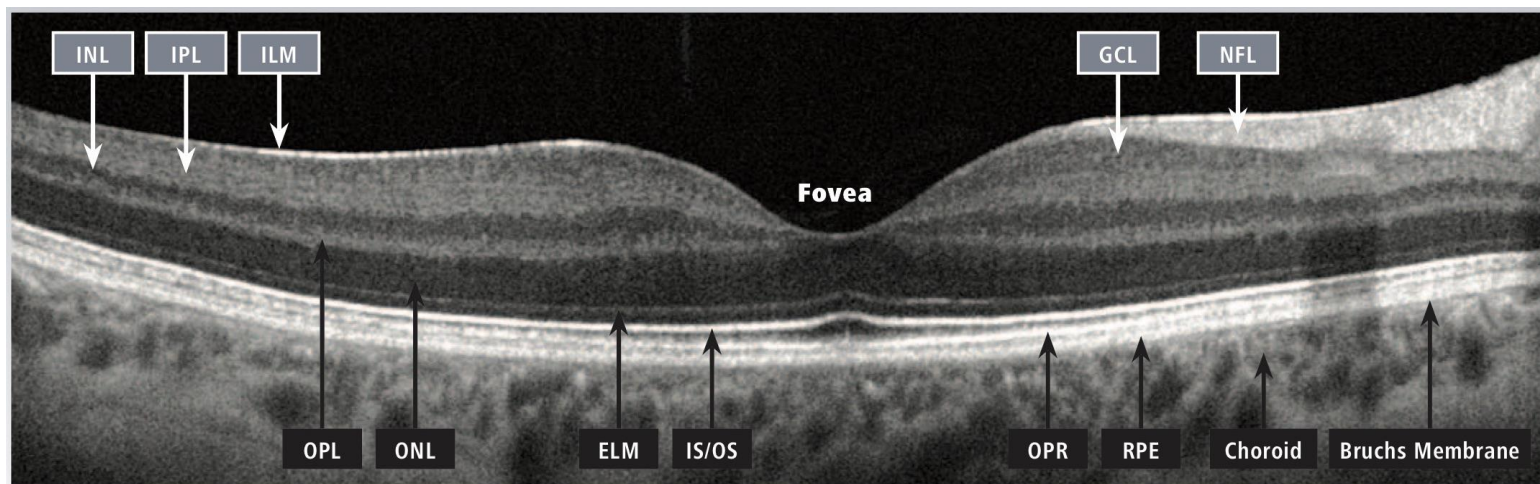
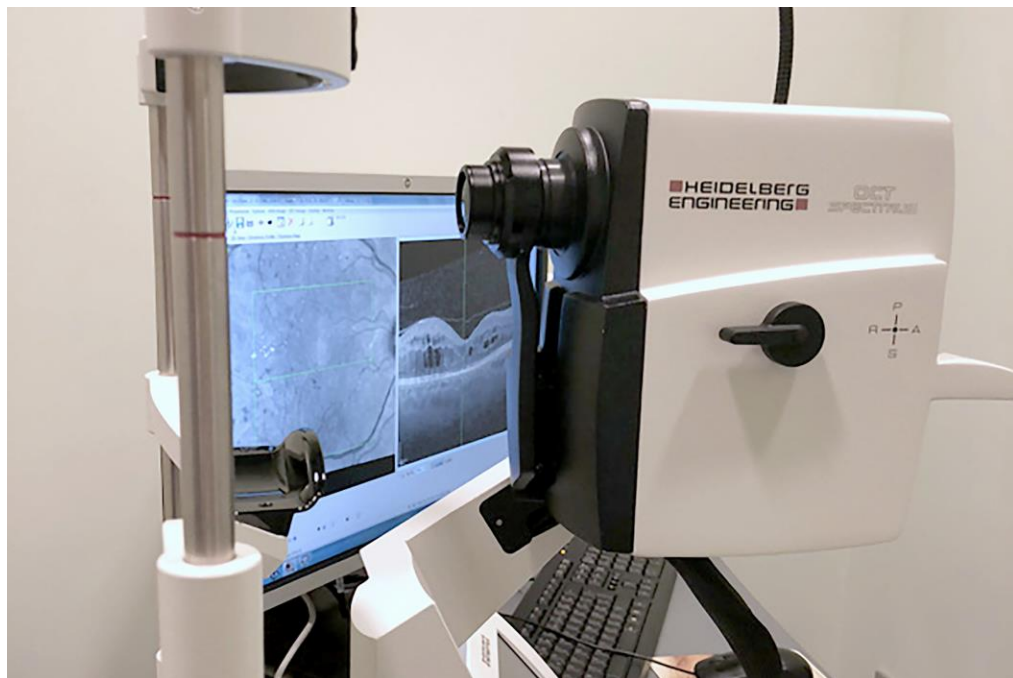
Priama oftalmoskopia



Nepriama oftalmoskopia



Optická koherentná tomografia



Najčastejšie ochorenia sietnice

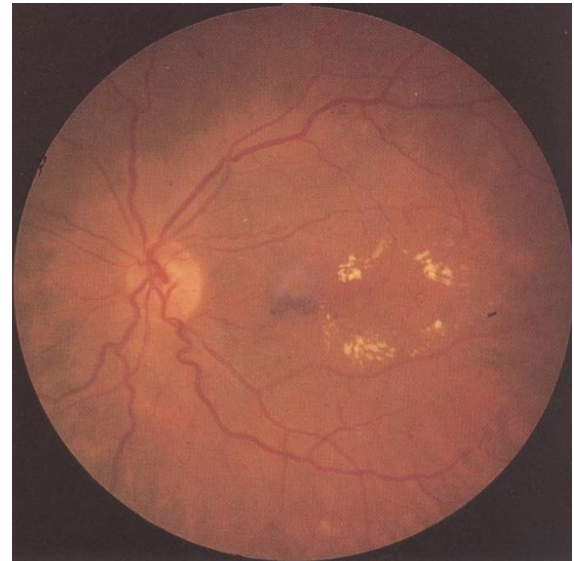
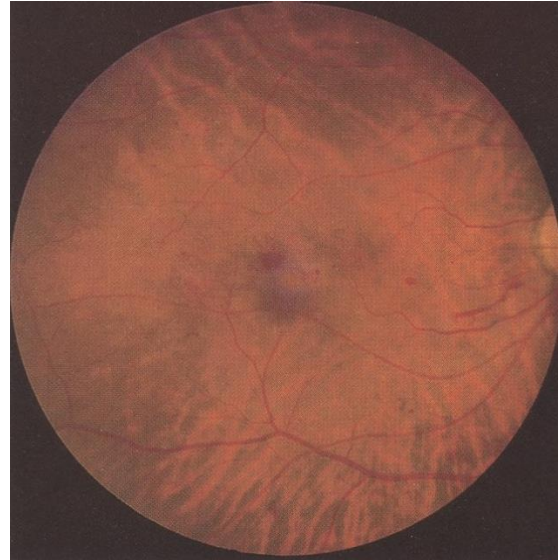
Cievne a metabolické ochorenia

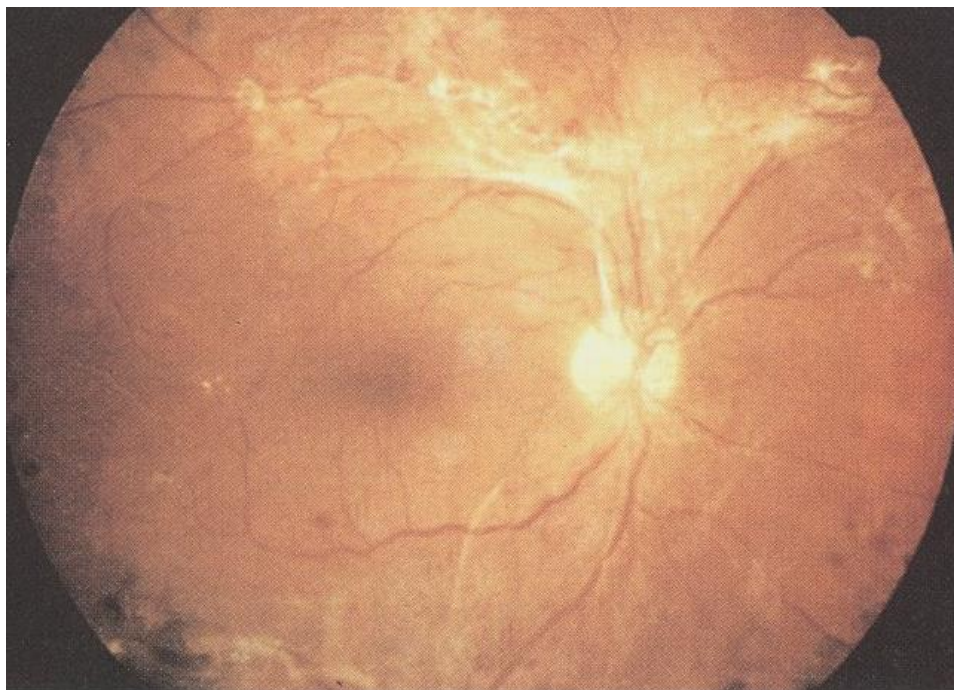
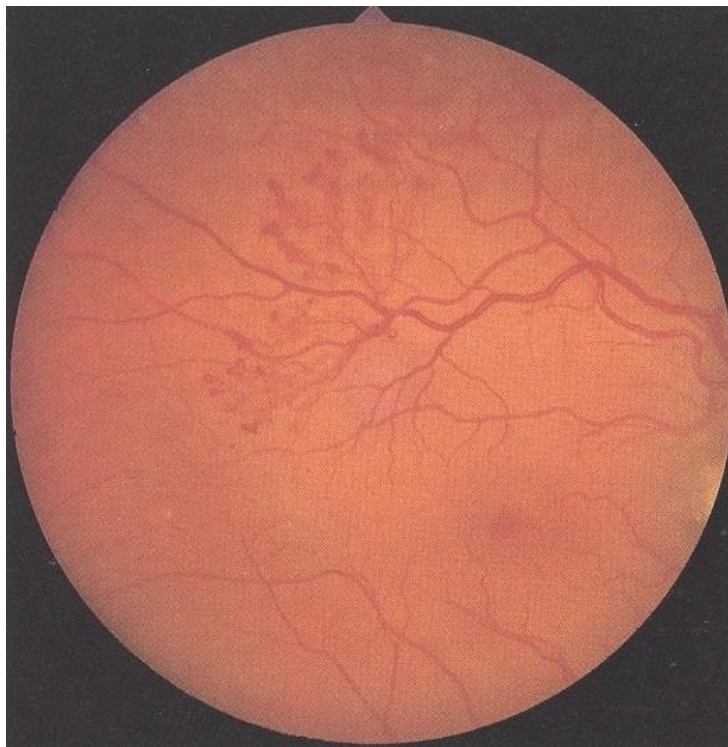
Degeneratívne a dystrofické ochorenia

Cievne a metabolické ochorenia

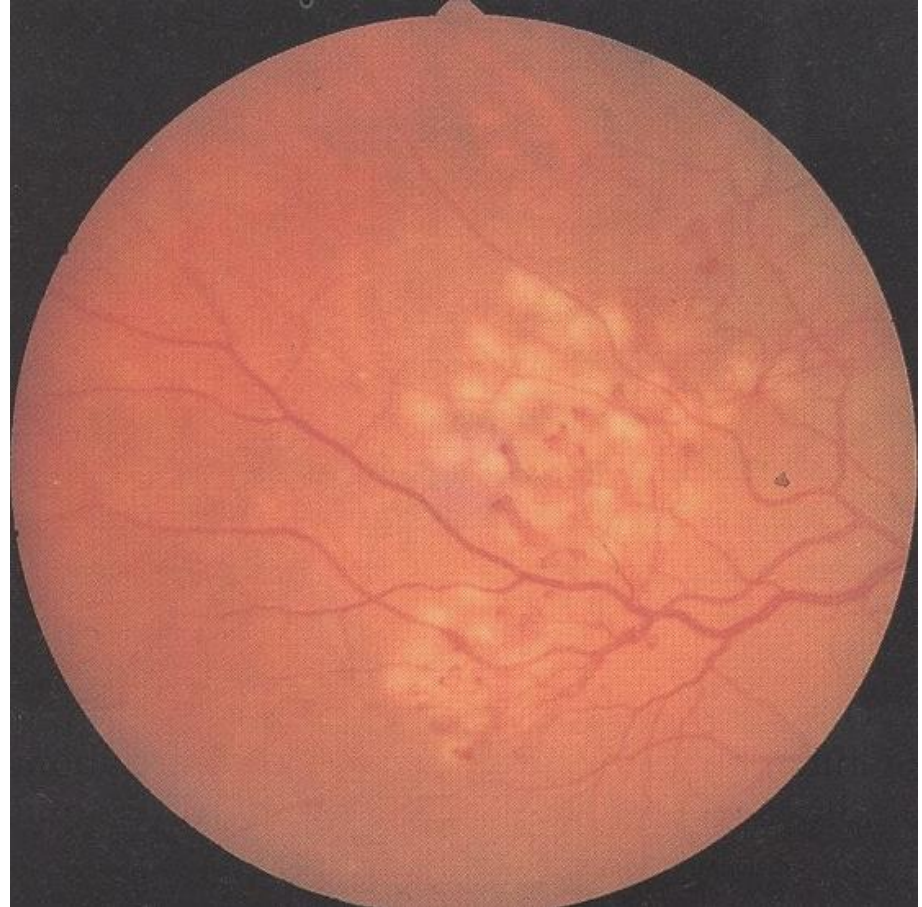
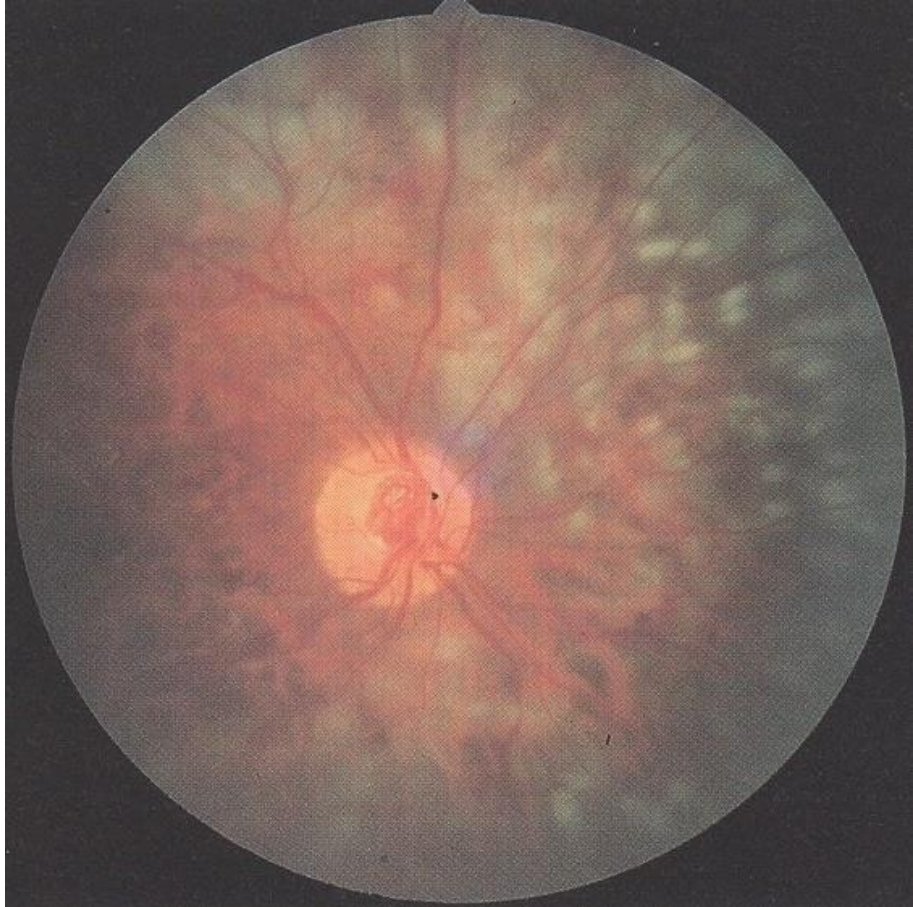
- a. diabetická retinopatia**
- b. oklúzie sietnicových vén**
- c. oklúzie sietnicových artérií**
- d. hypertonická retinopatia**
- e. retinopatie pri krvných ochoreniach**
- f. retinopatia nedonosených**
- g. iné cievne ochorenia sietnice**

Diabetická retinopatia

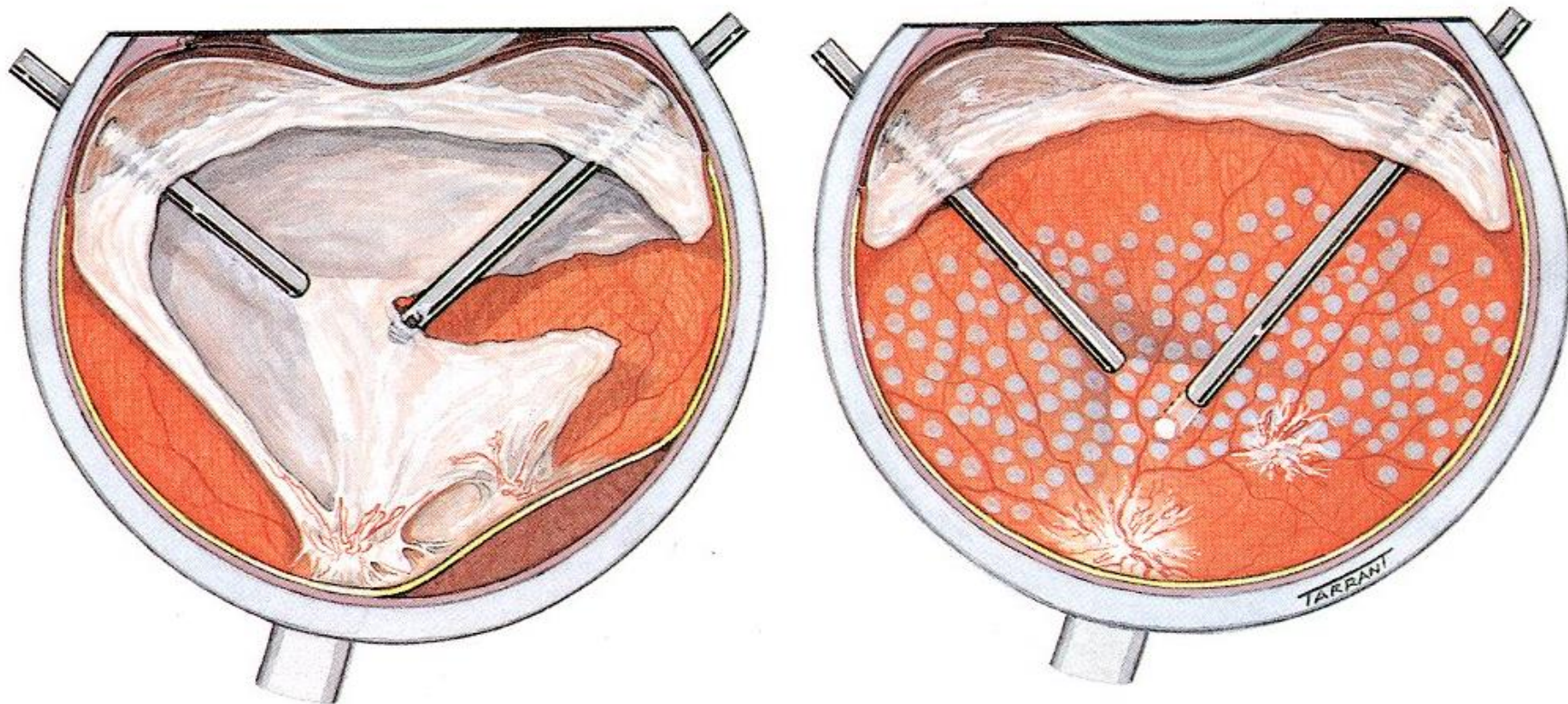


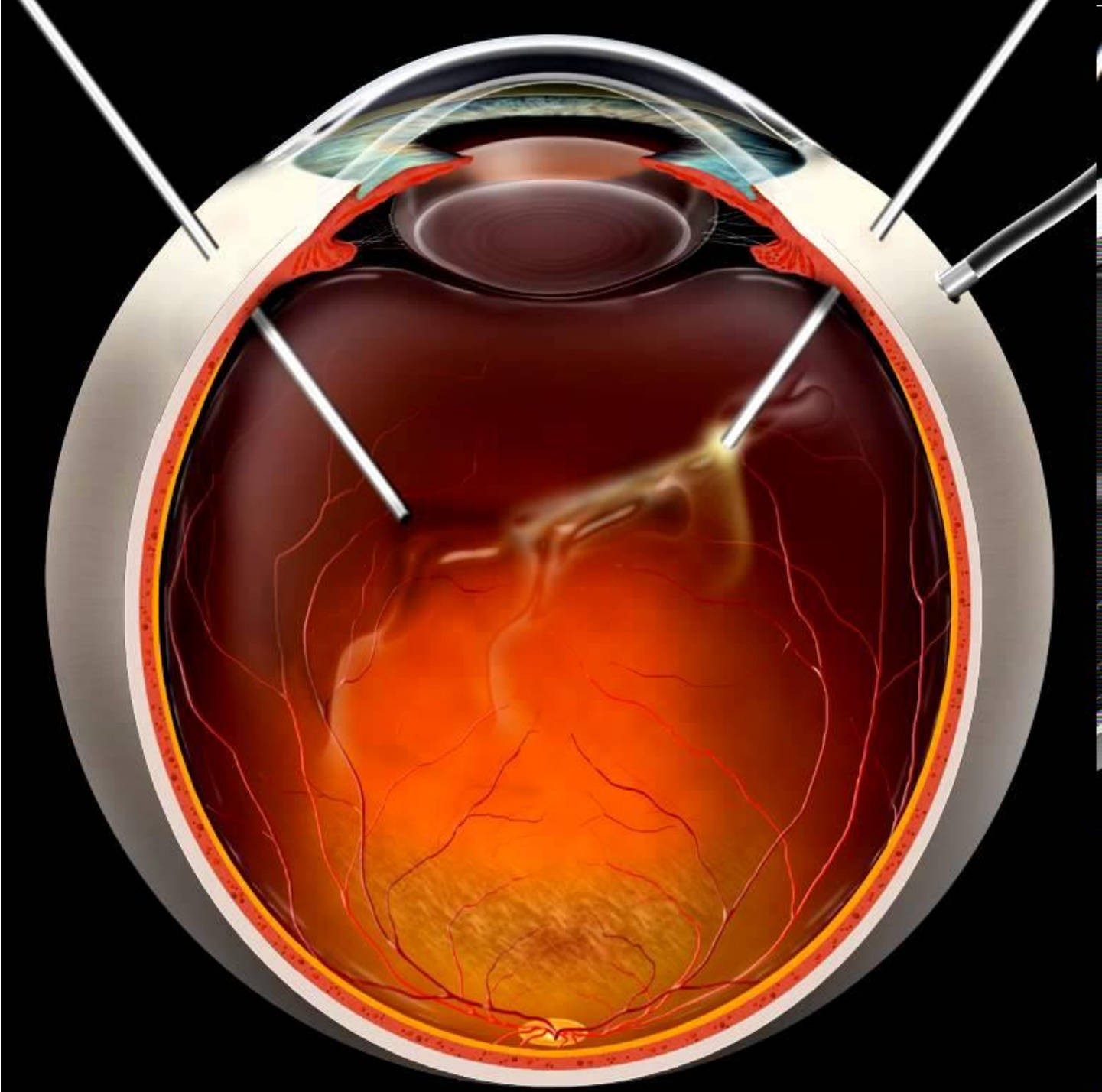


Laserová liečba DR



Chirurgická liečba DR - PPV





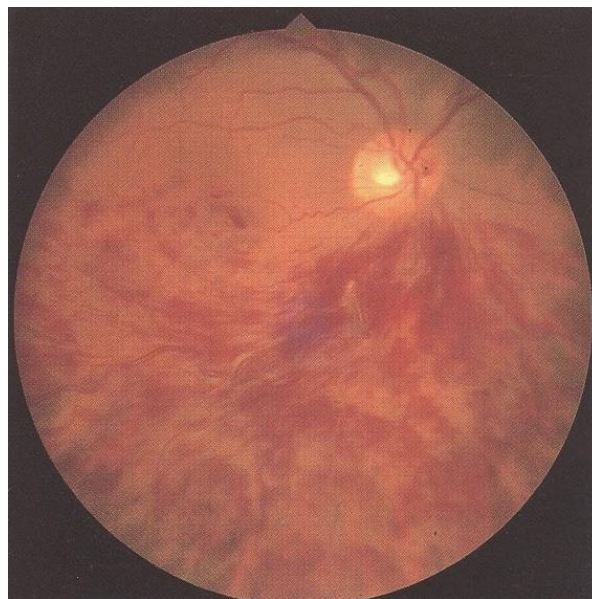
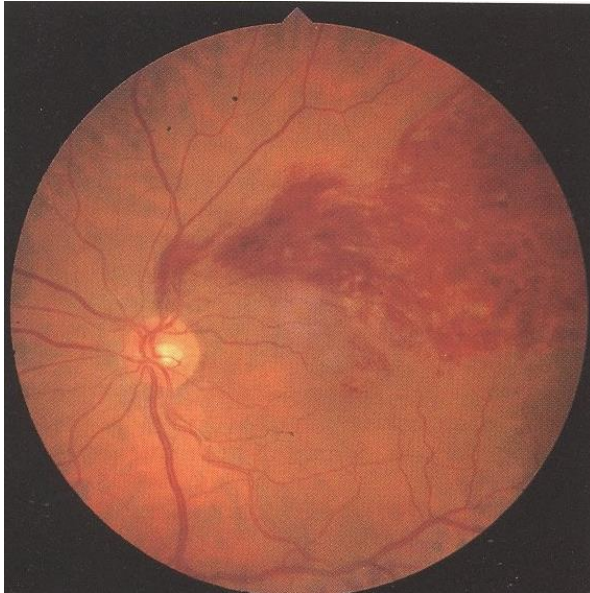
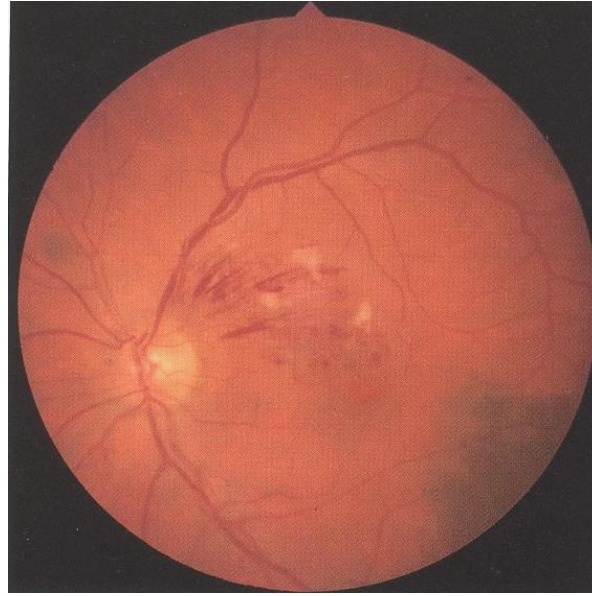
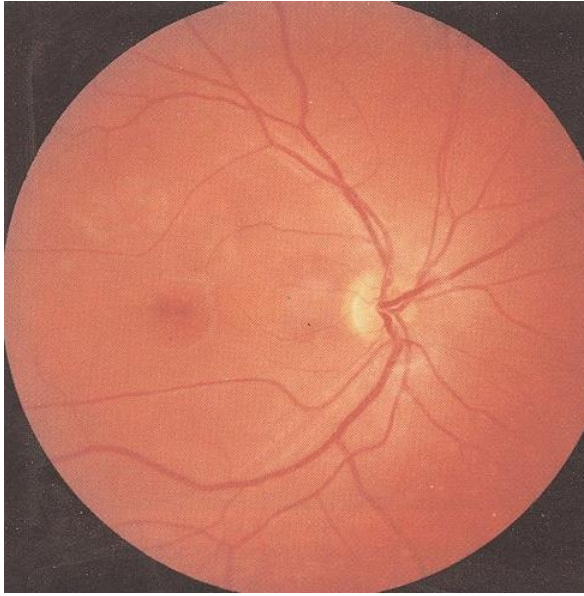
Oklúzia sietnicových vén

Subjektívne ťažkosti

- Chmáry pred okom
- Relatívny výpad časti zorného poľa
- Metamorfopsia (pri edéme MK)

Objektívny nález

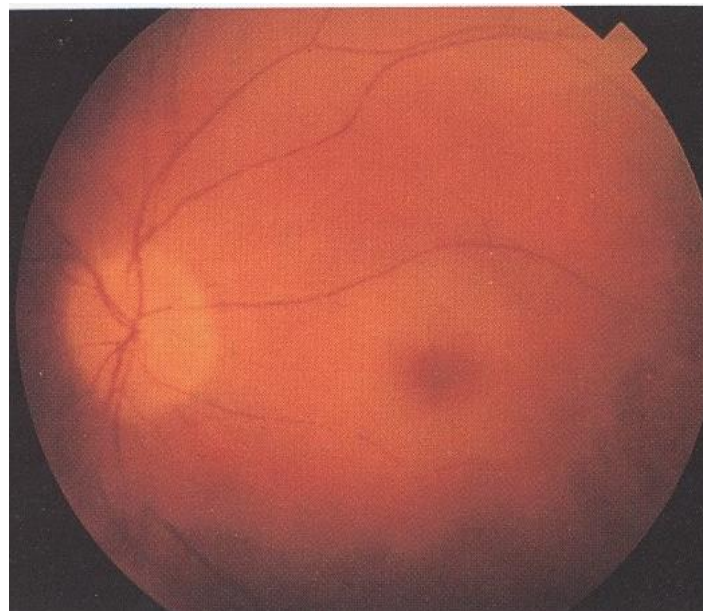
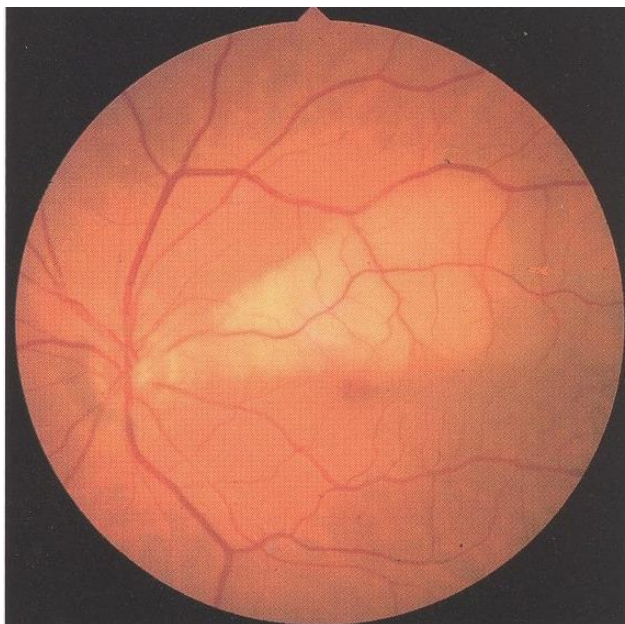
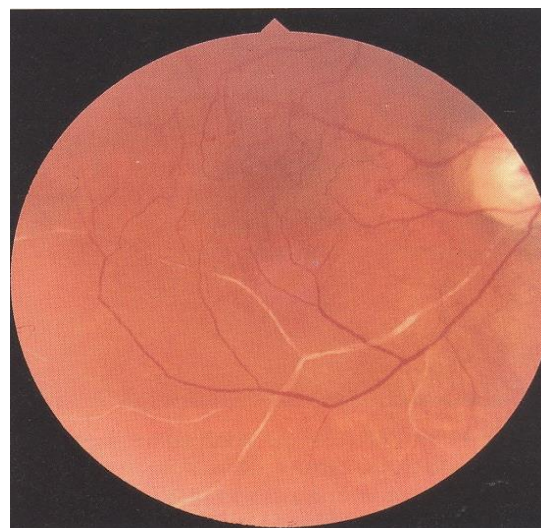
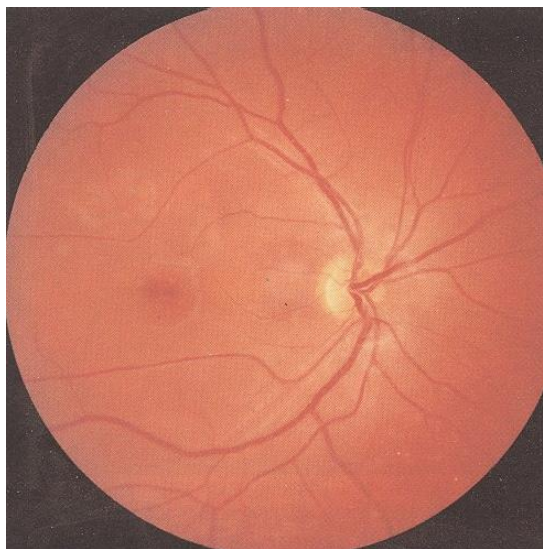
- Edém časti TZN pri vetvovej, celého TZN pri kmeňovej oklúzii
- Dilatovaná a tortuózna vetva v.c.retinae
- Hemorágie v povodí okludovanej vetvy, alebo po celom funde
- Rôzne veľký edém makuly
- Vatovité ložiská



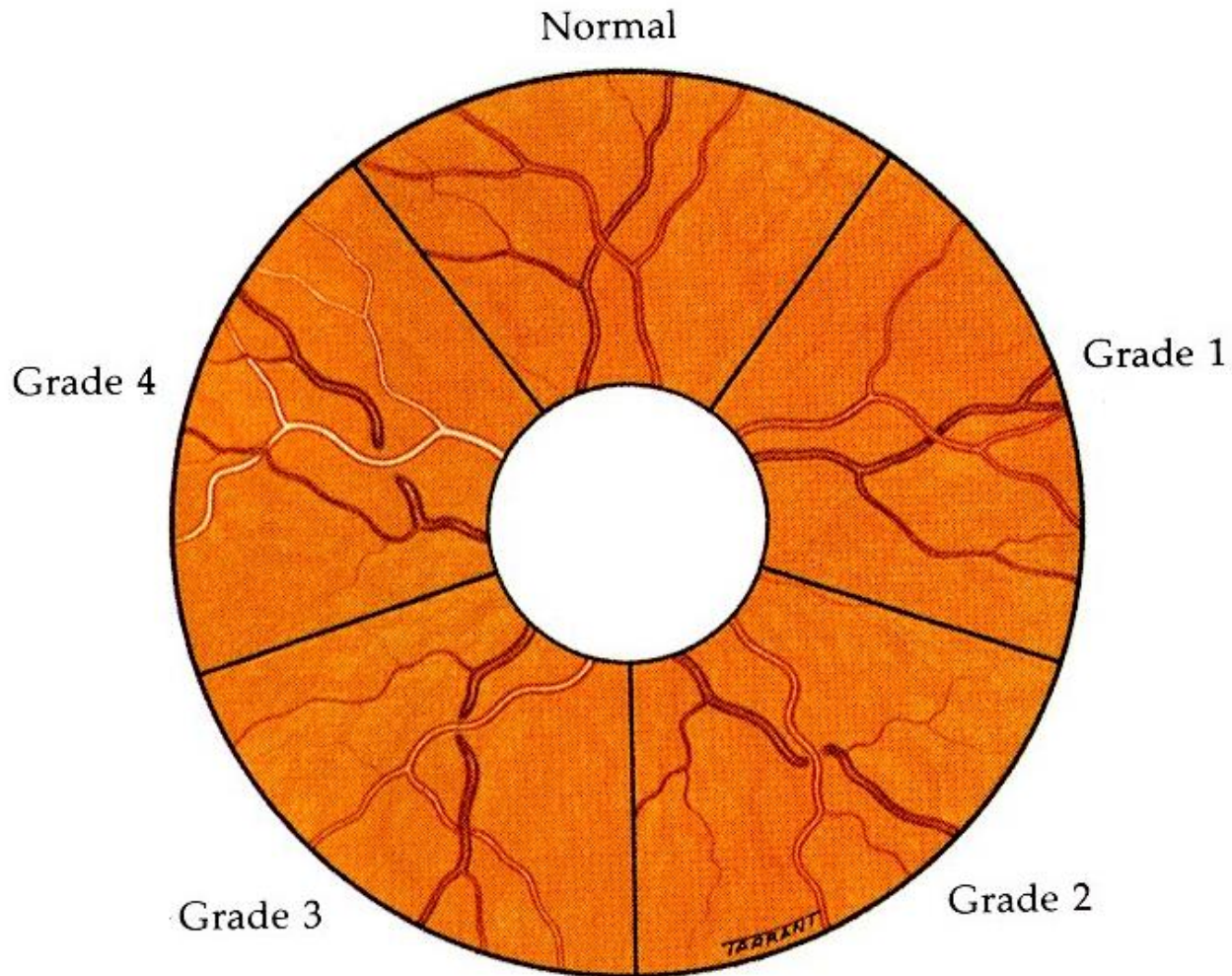
Oklúzia sietnicových artérií

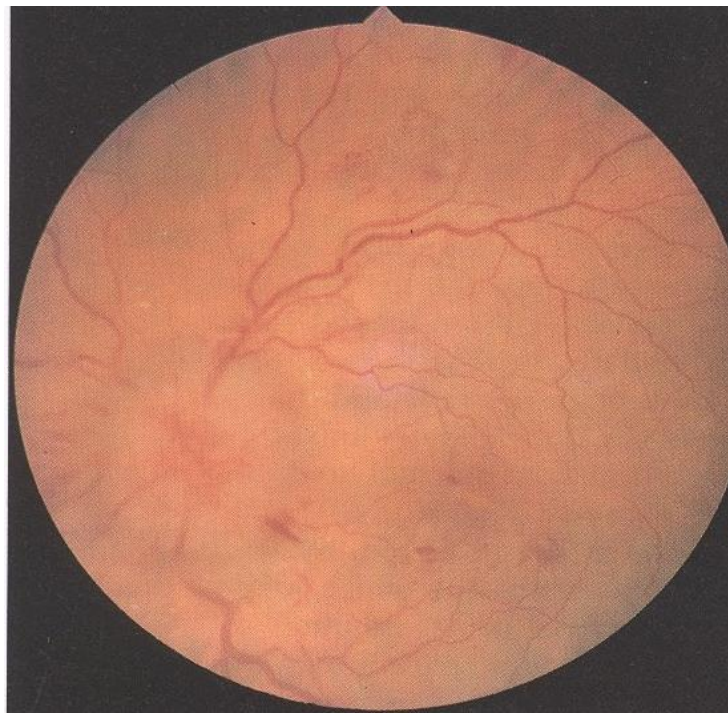
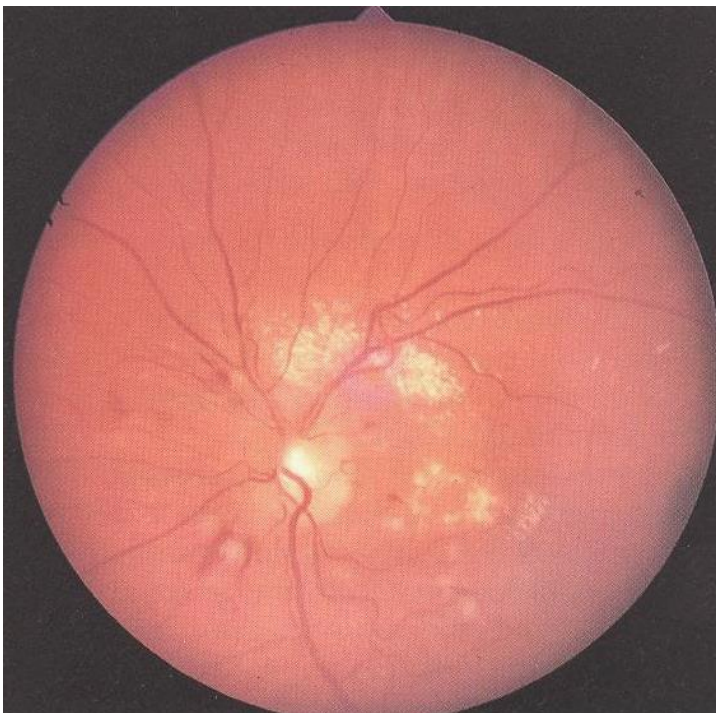
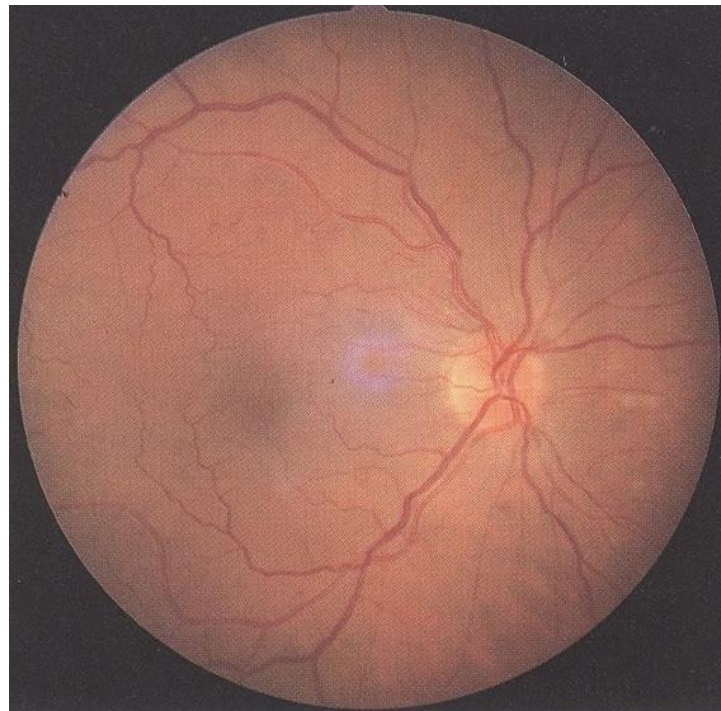
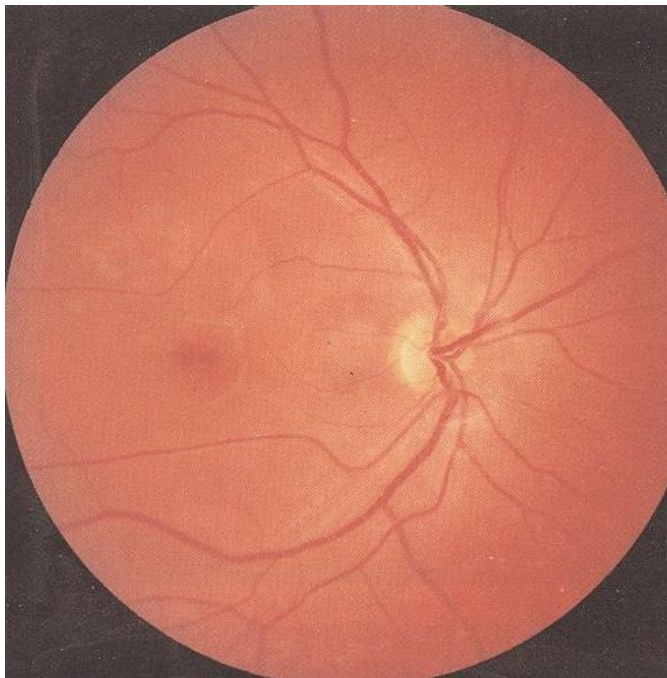
Embolizácia zo srdca

- kalcifikáty z aorty alebo pri mitrálnej chlopni
- vegetácie z chlopní pri subakútnej bakteriálnej endokarditíde
- trombus v súvislosti s IM, mitrálnej stenóze, arteriálnej fibrilácii
- myxomatózný materiál- z veľmi zriedkavého atriálneho myxómu

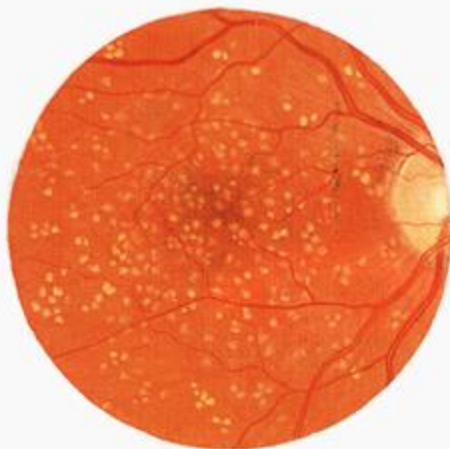


Hypertonická retinopatia

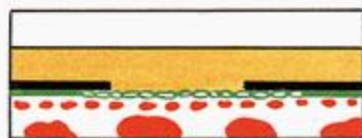




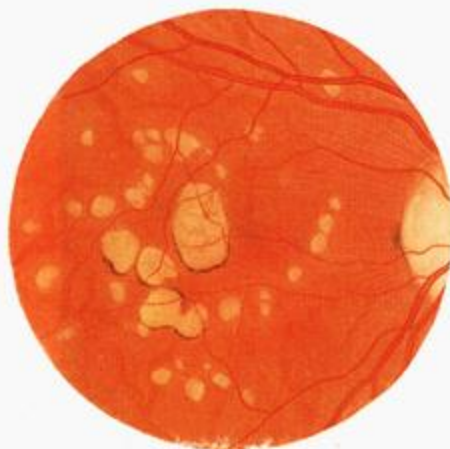
Vekom podmienená degenerácia makuly



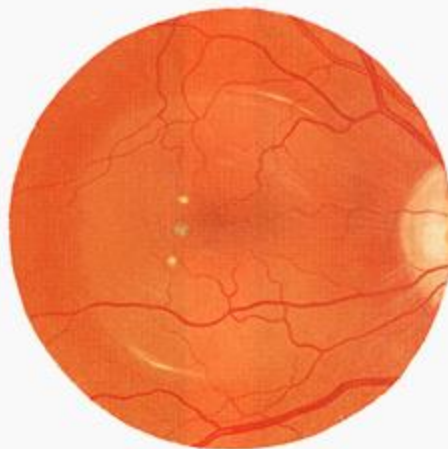
Drusen



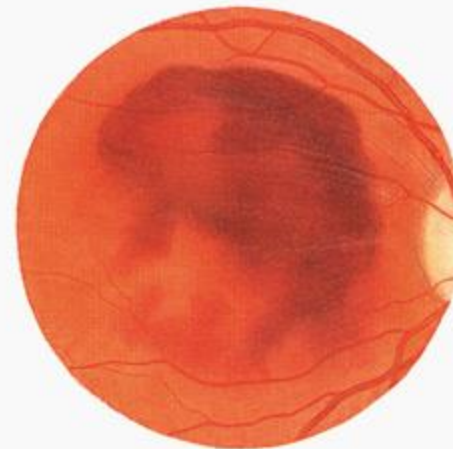
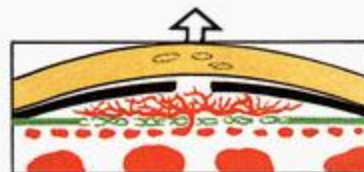
Atrophic



Non-exudative



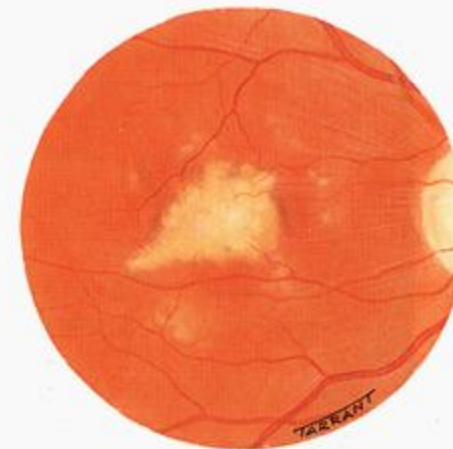
RPE and sensory detachment



RPE and sensory
haemorrhagic detachment



Fibrous disciform scar



Exudative



Normal Vision



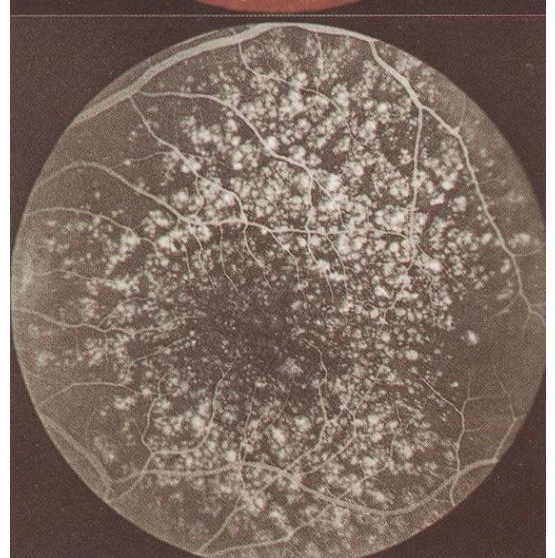
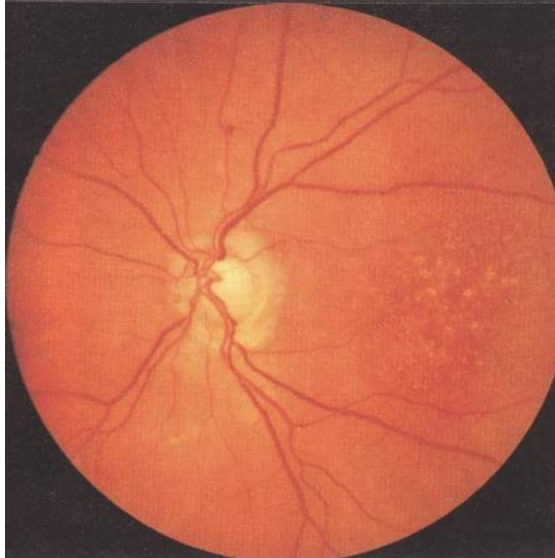
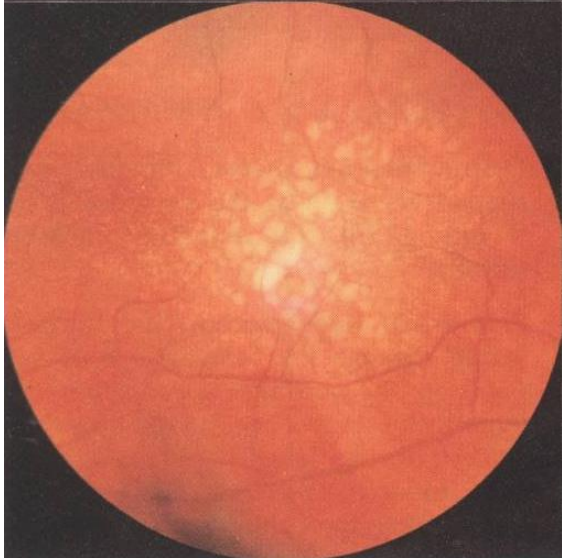
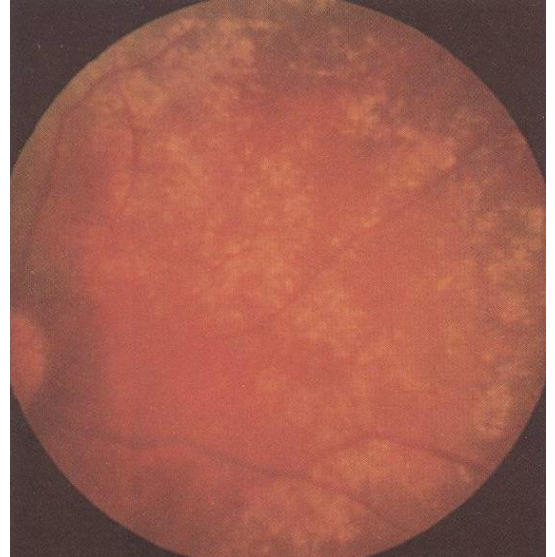
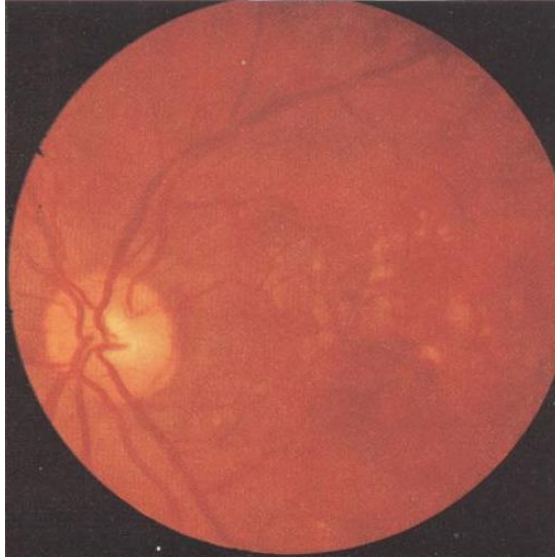
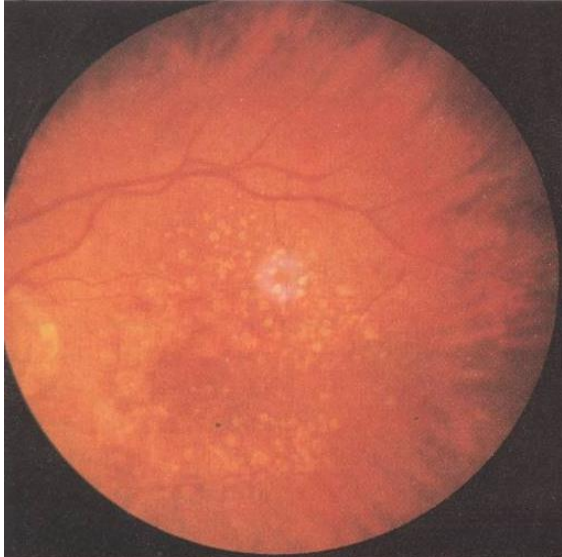
**Vision Distortion
is an early
symptom of Wet
AMD**

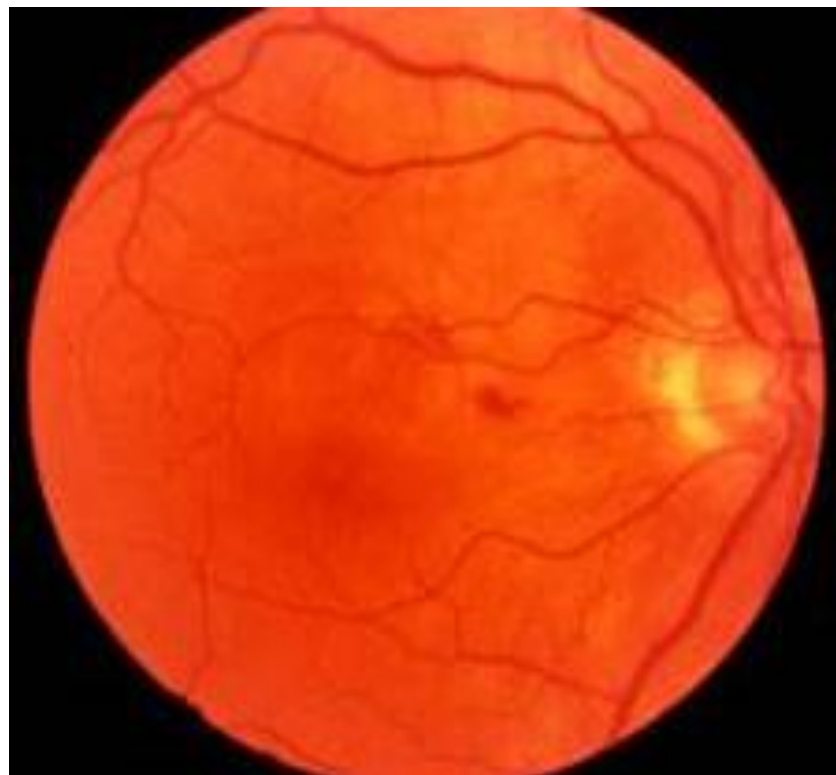


**Wet AMD
decreases
sensitivity to
contrast**



**Advanced Wet
AMD will create a
permanent blind
spot in your
central vision.**





Intravitreálna aplikácia antiVEGF lieku



Edém makuly

Ďakujem za pozornosť