

Kijk op oogmedicatie

OOGZIEKENHUIS

OOG

Medicatie

Routes

Kinetiek

"Medische hulpmiddelen"

tamponades

no financial disclosures















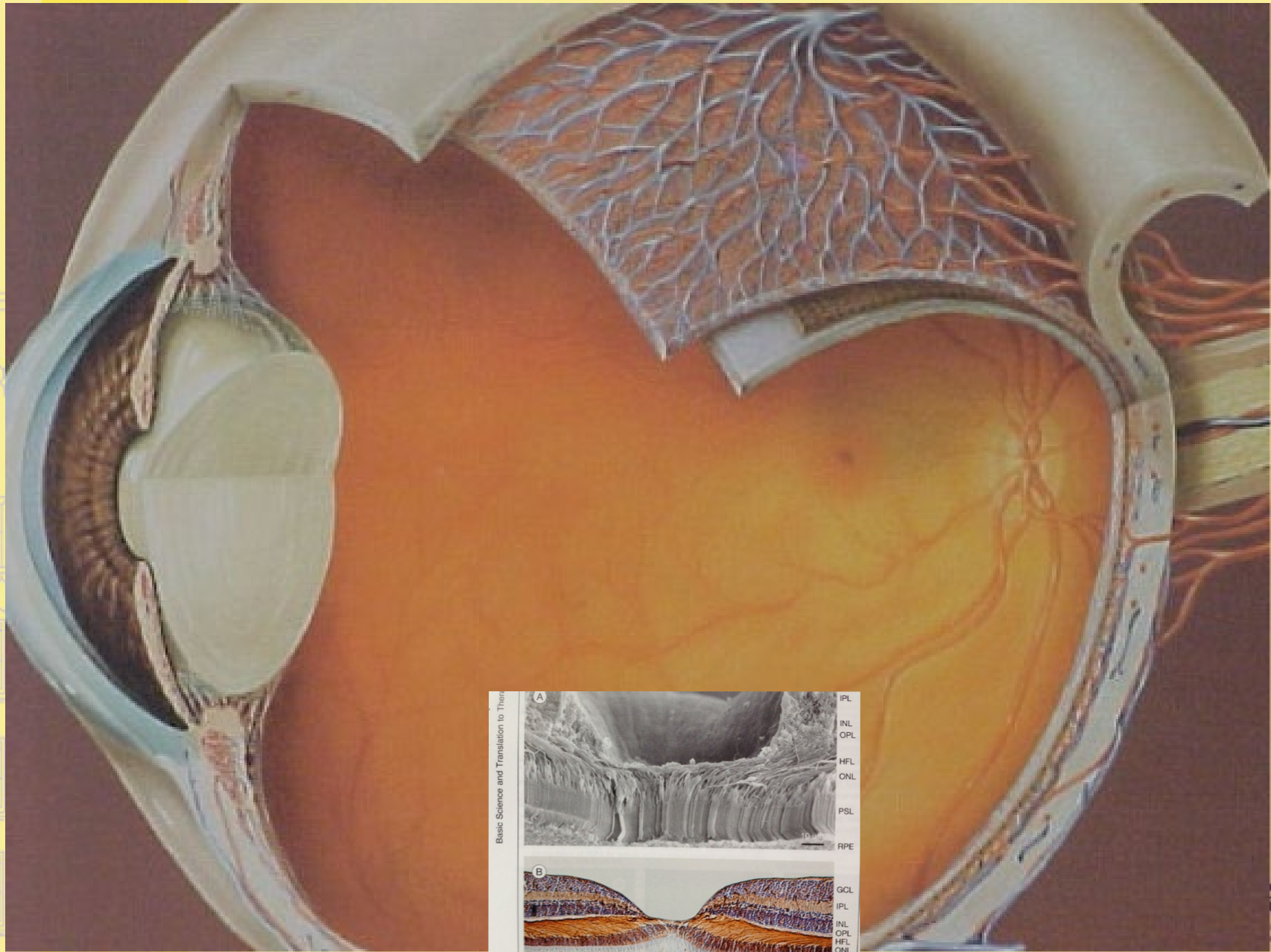




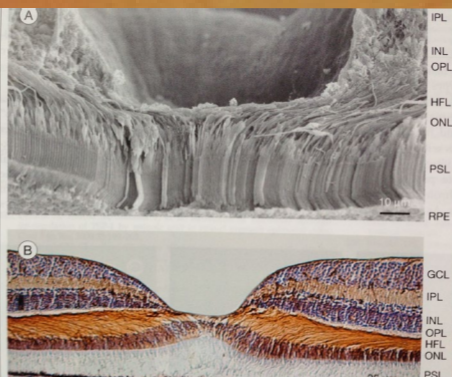


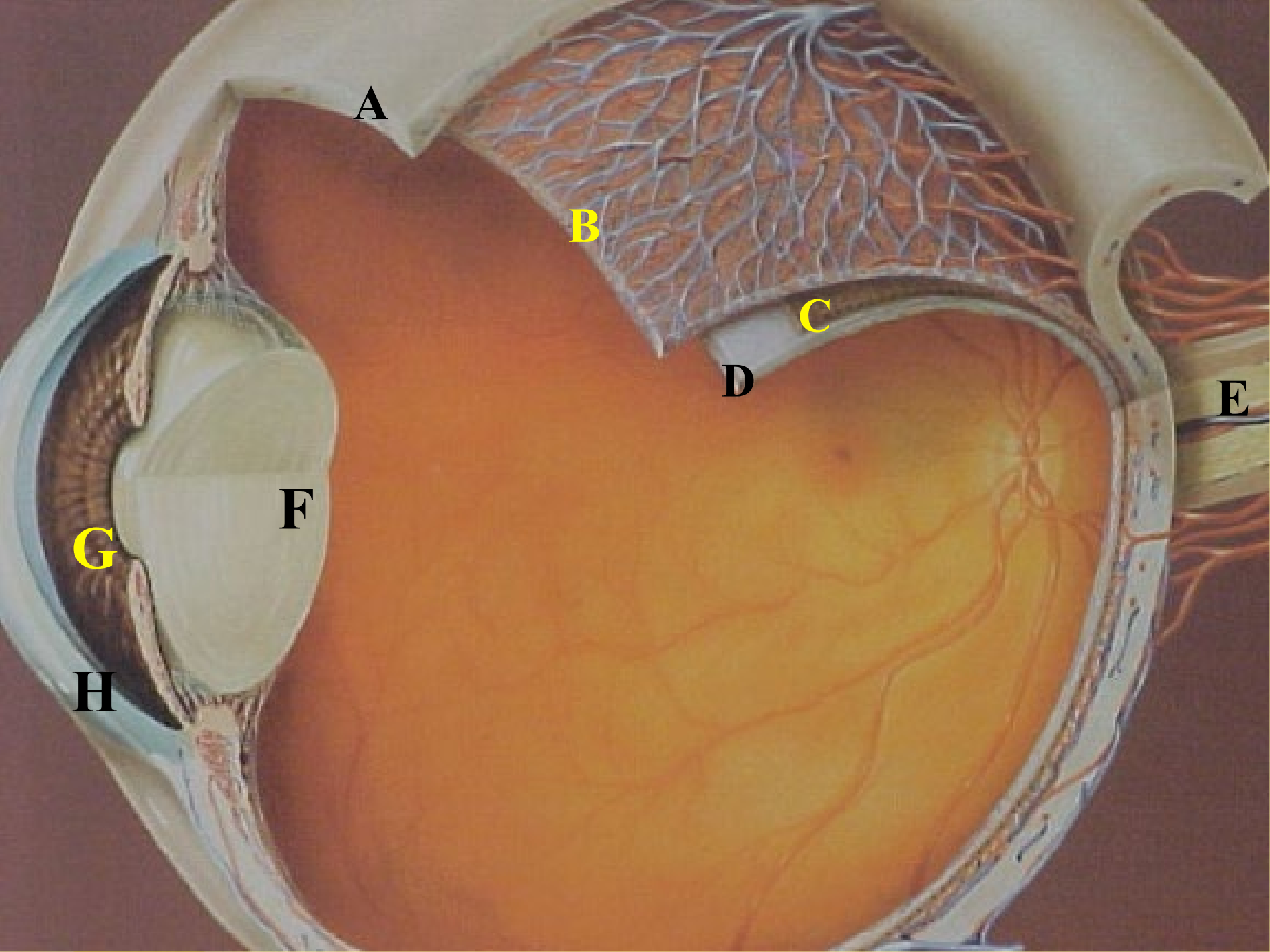
Het Oogziekenhuis Rotterdam
The Rotterdam Eye Hospital





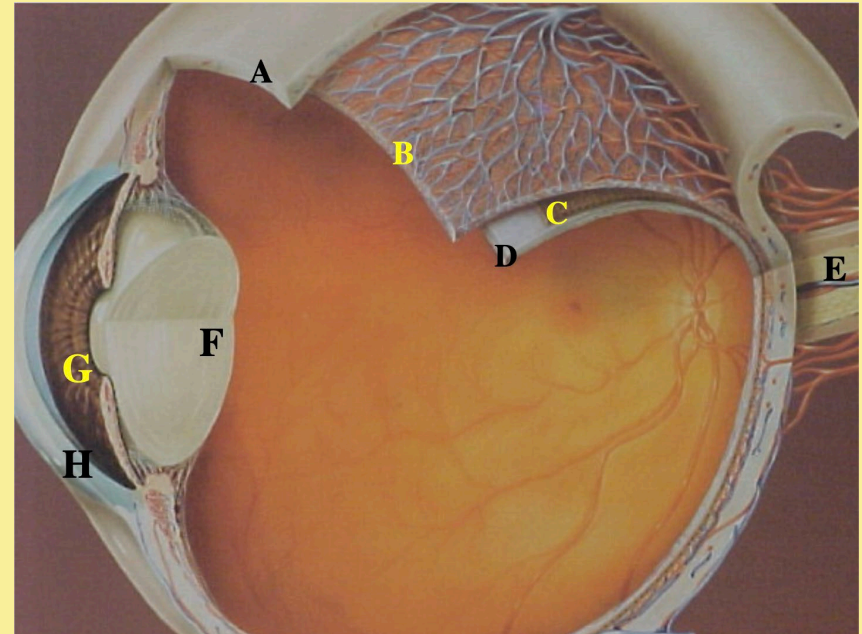
Basic Science and Translation to Therapy



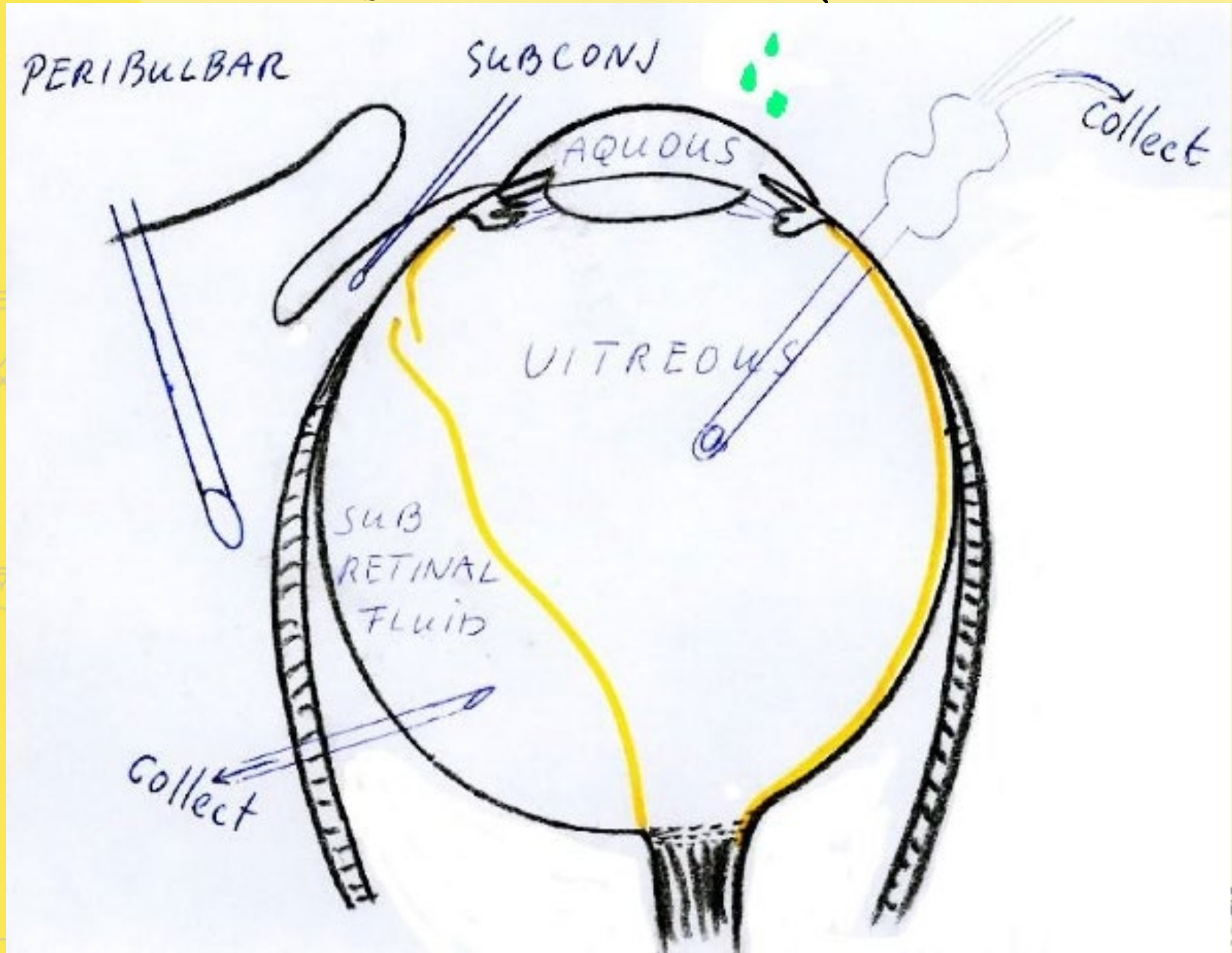


open vragen

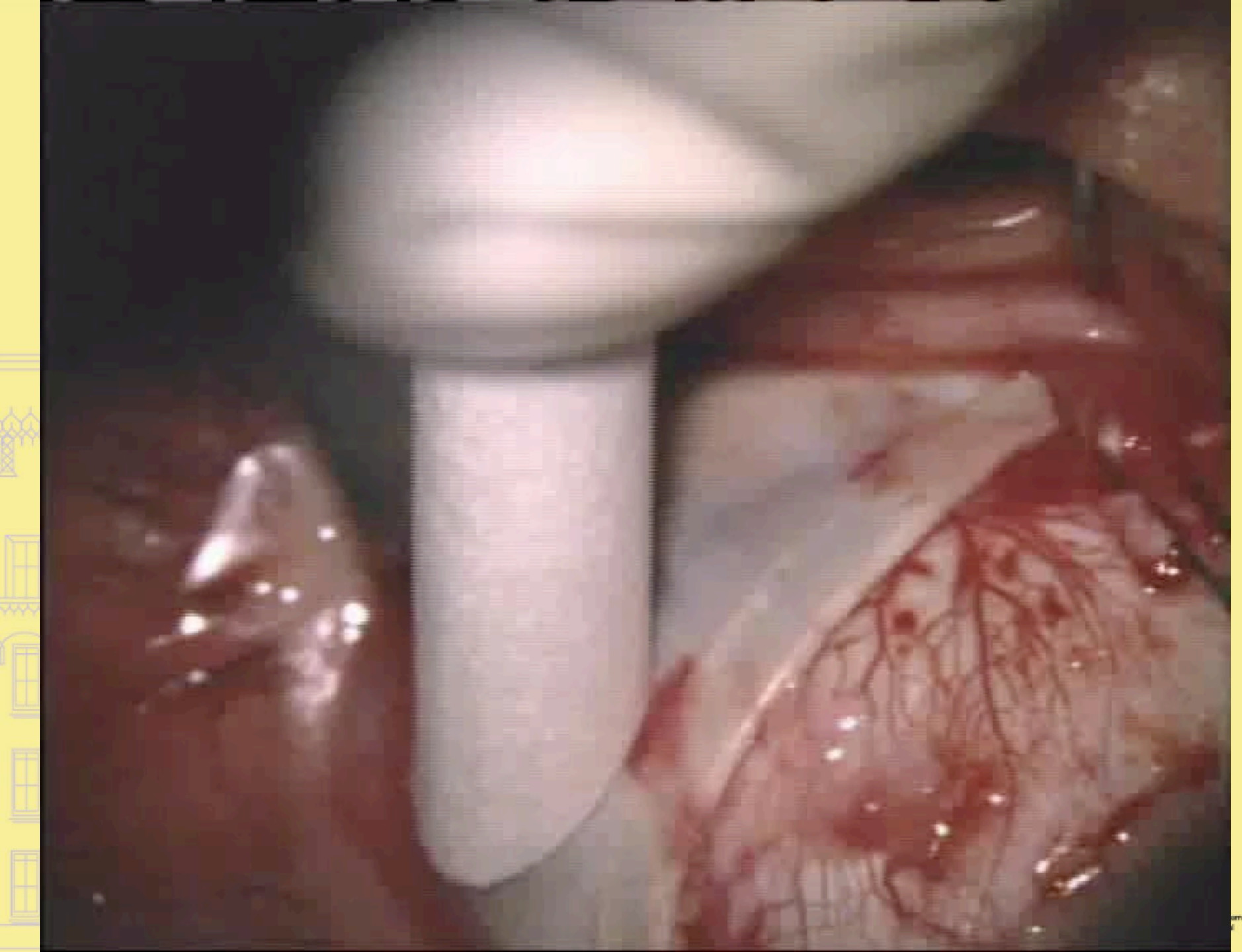
1. waar plaats je je contactlens ?
2. waar zit je pupil ?
3. waar zit een intraoculaire kunstlens ?
4. waar zit het vaatvlies/choroidea ?

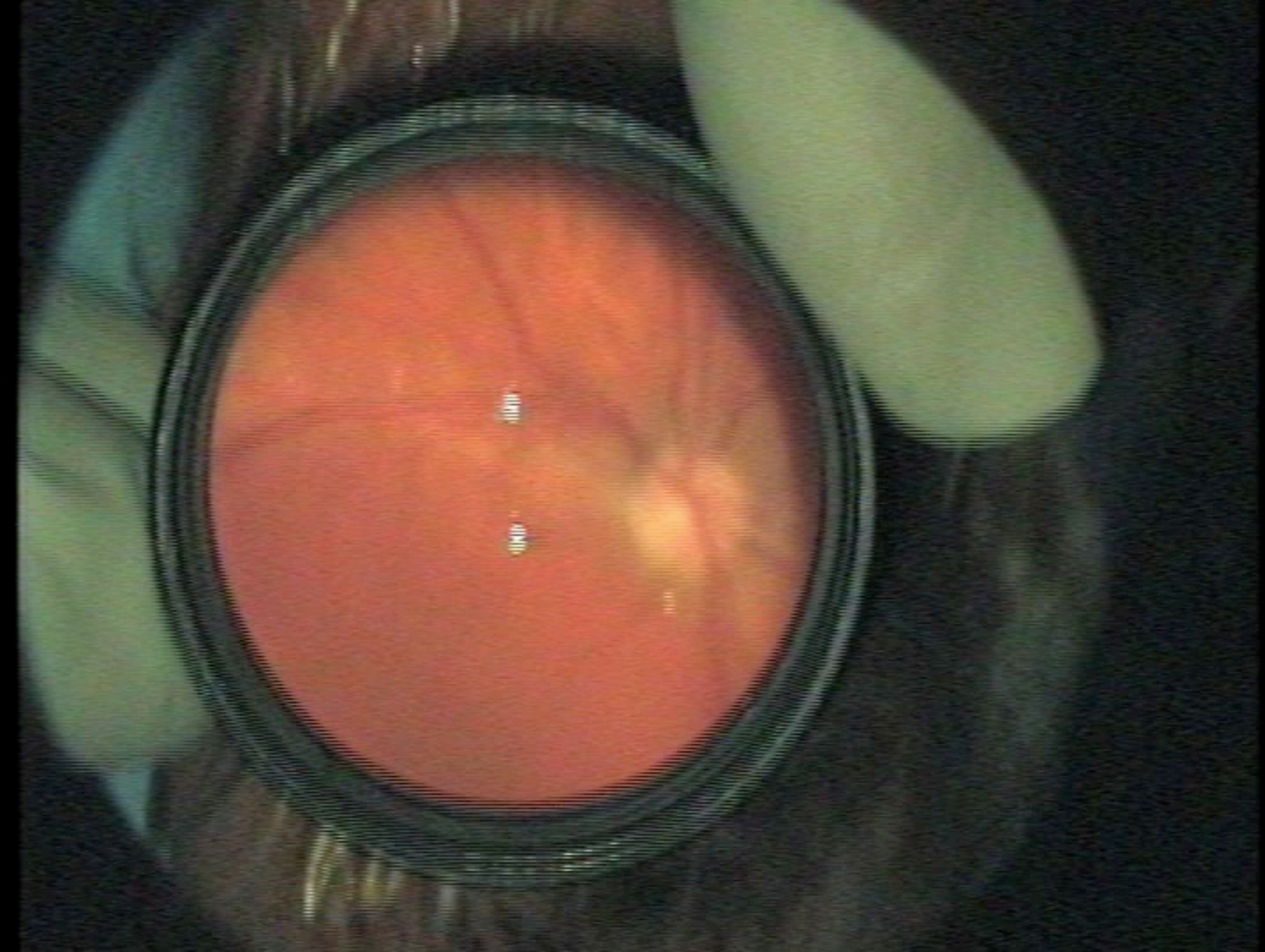


toedieningsvormen, compartimenten

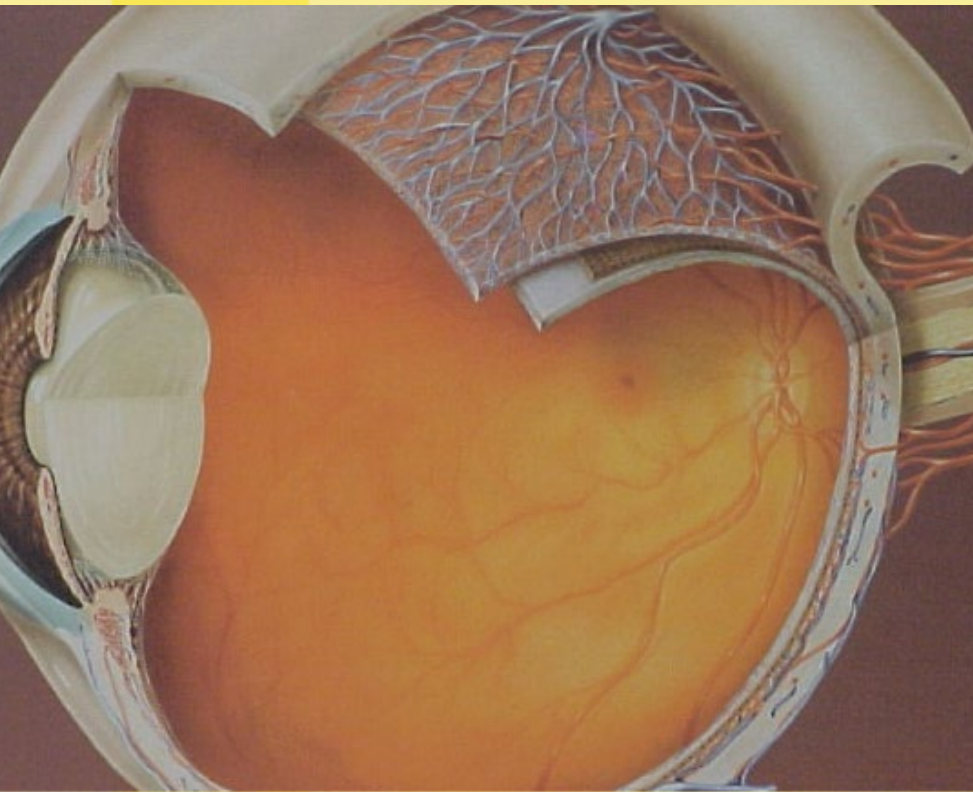


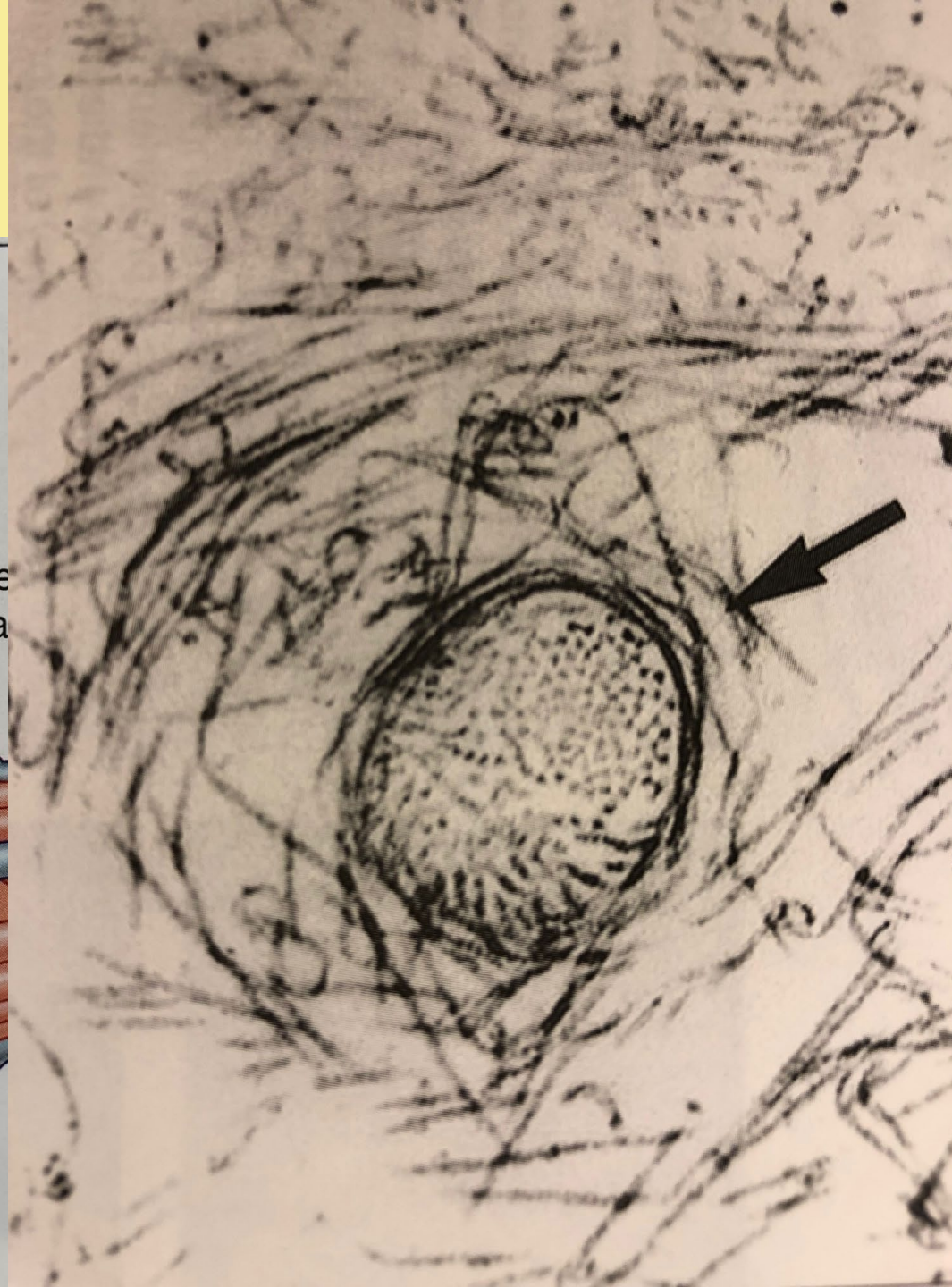
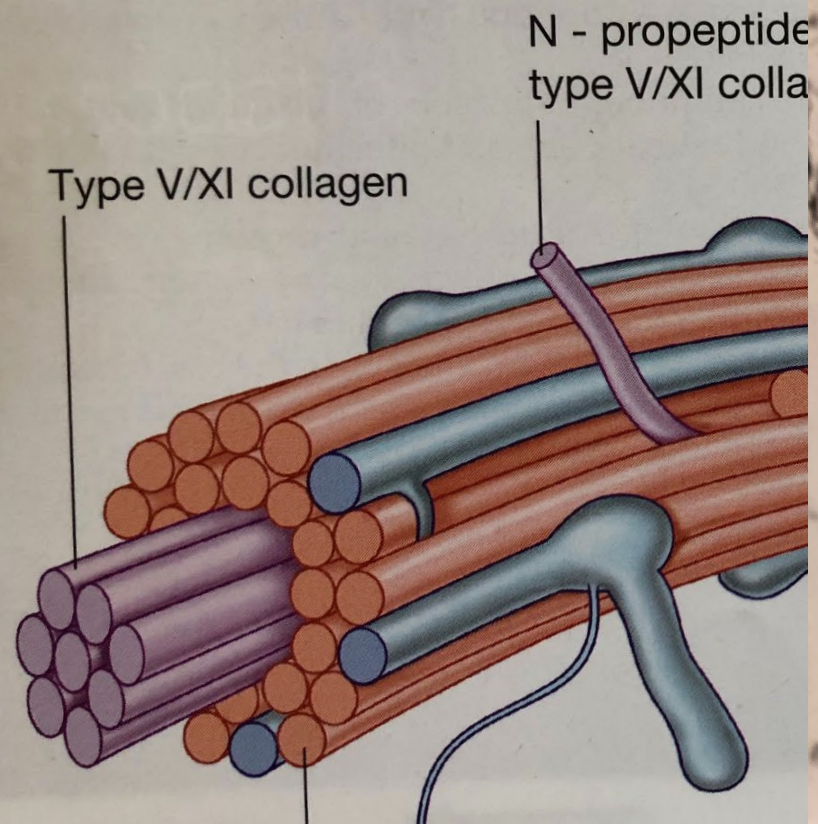


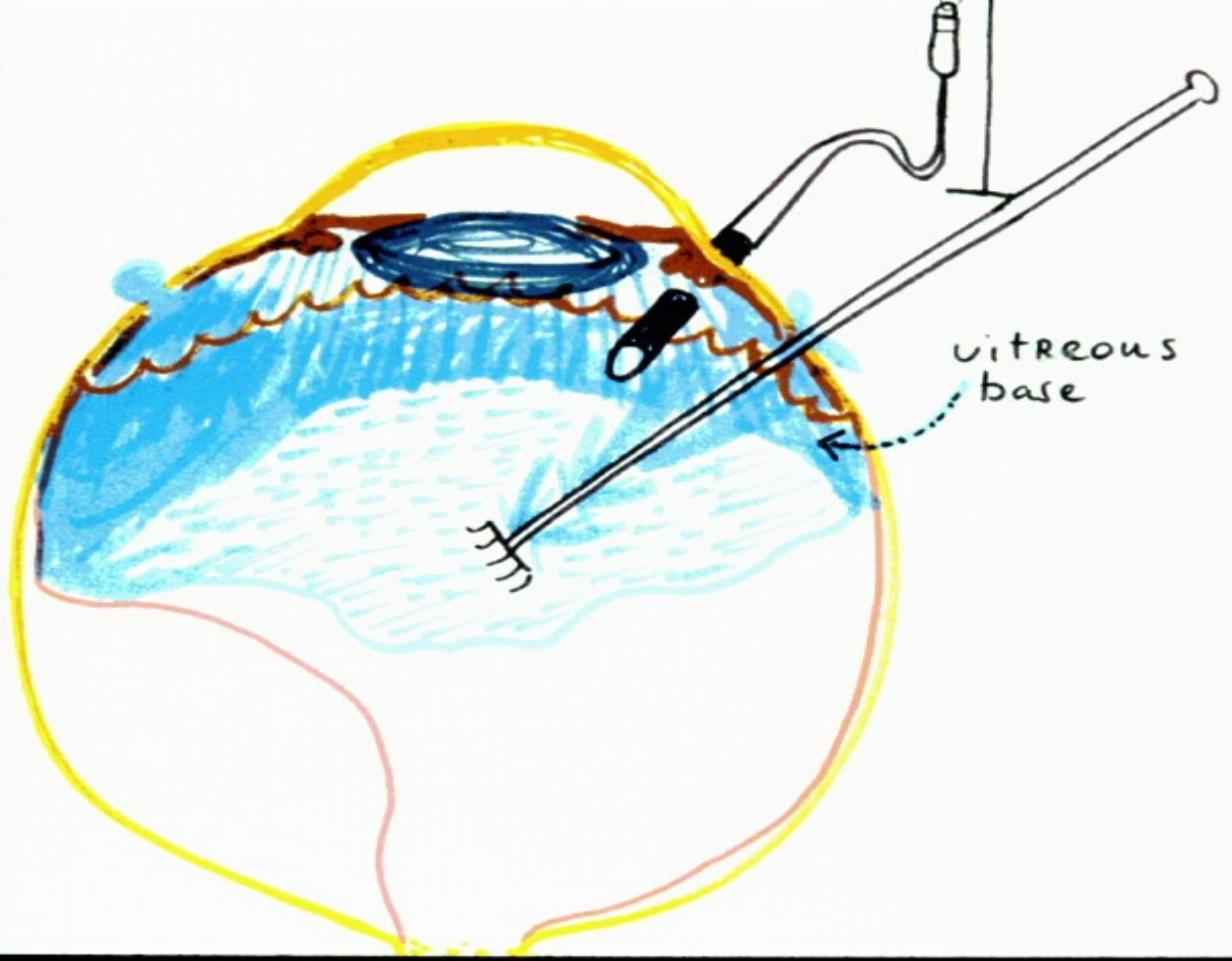


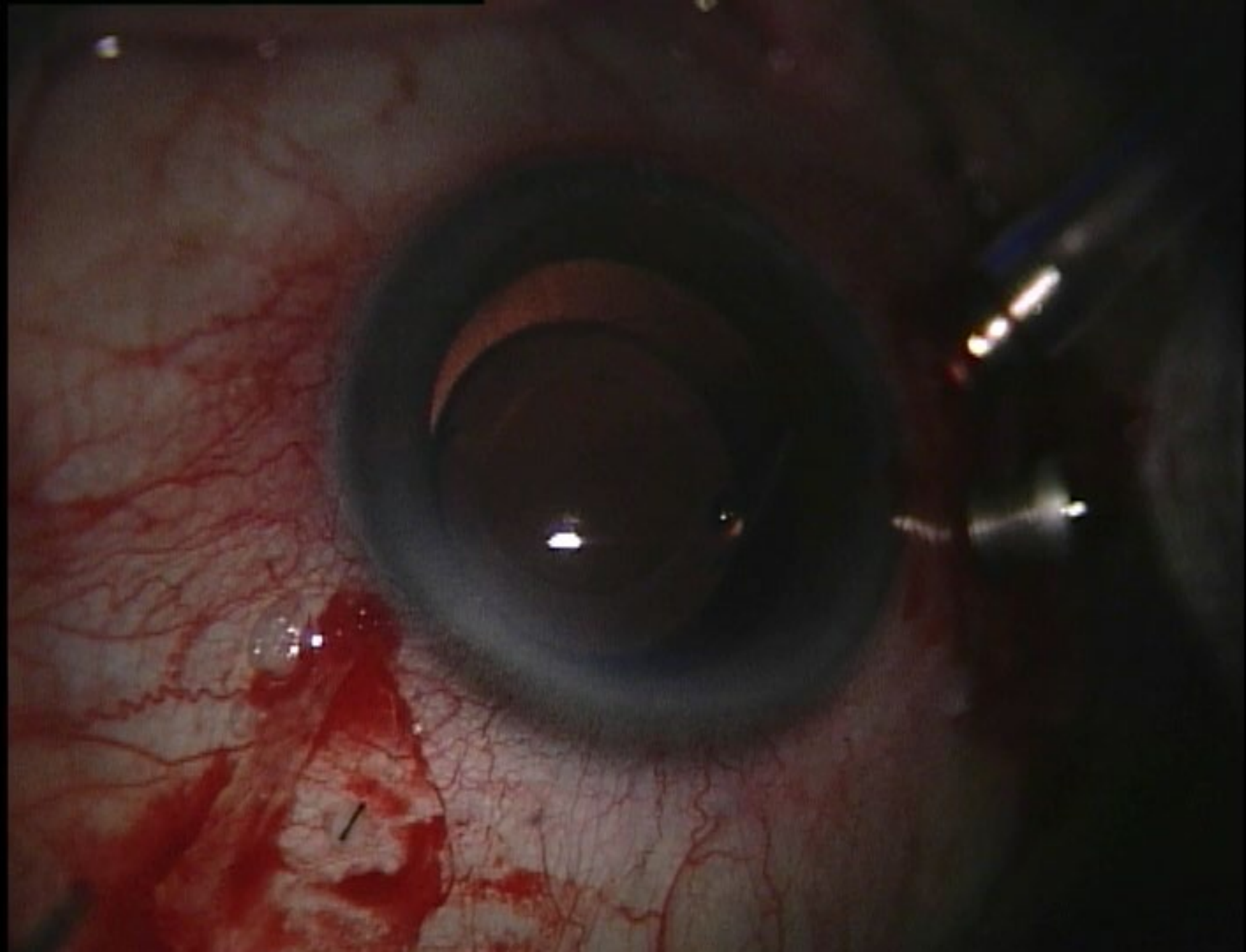


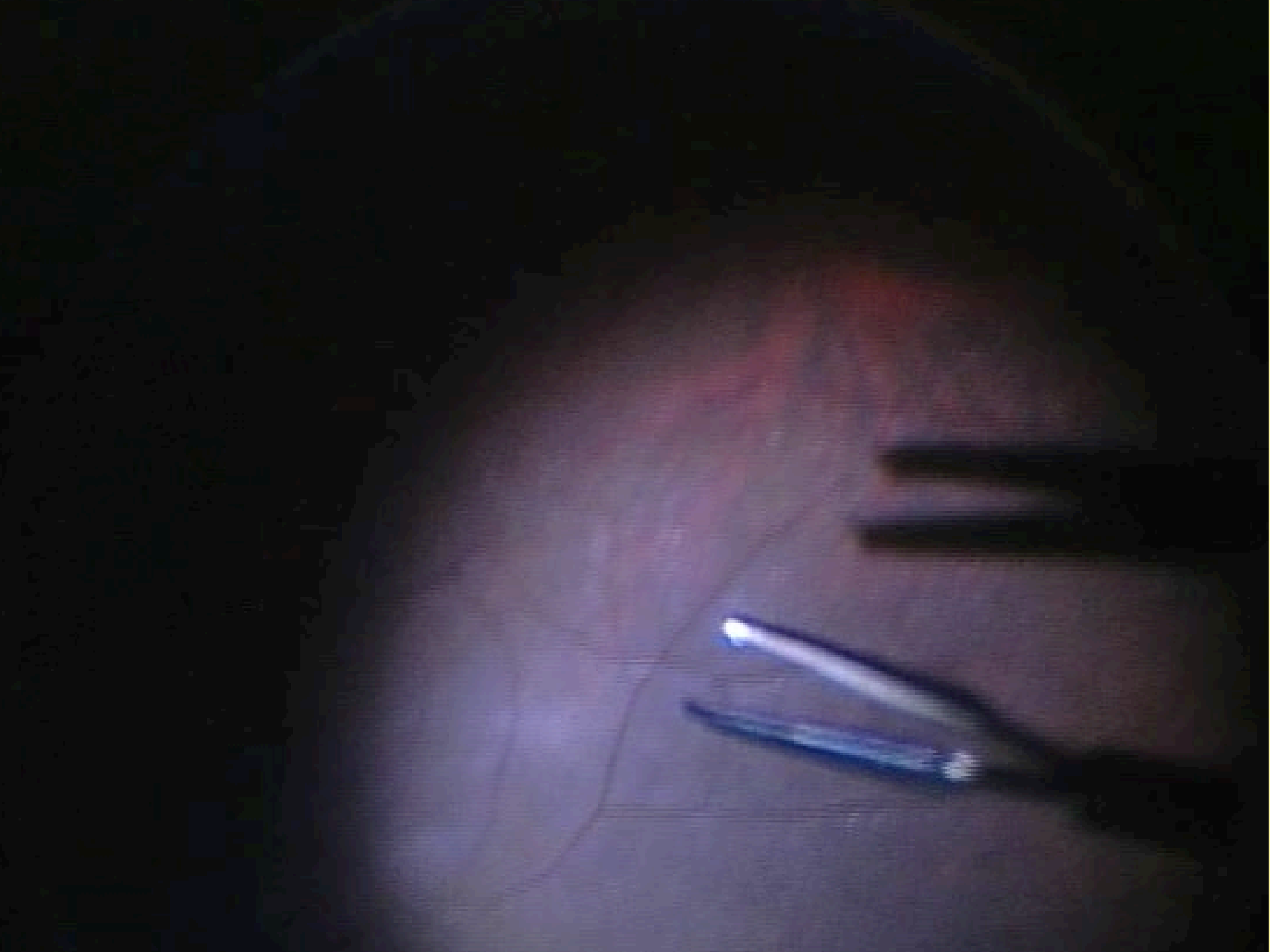
VITRECTOMY

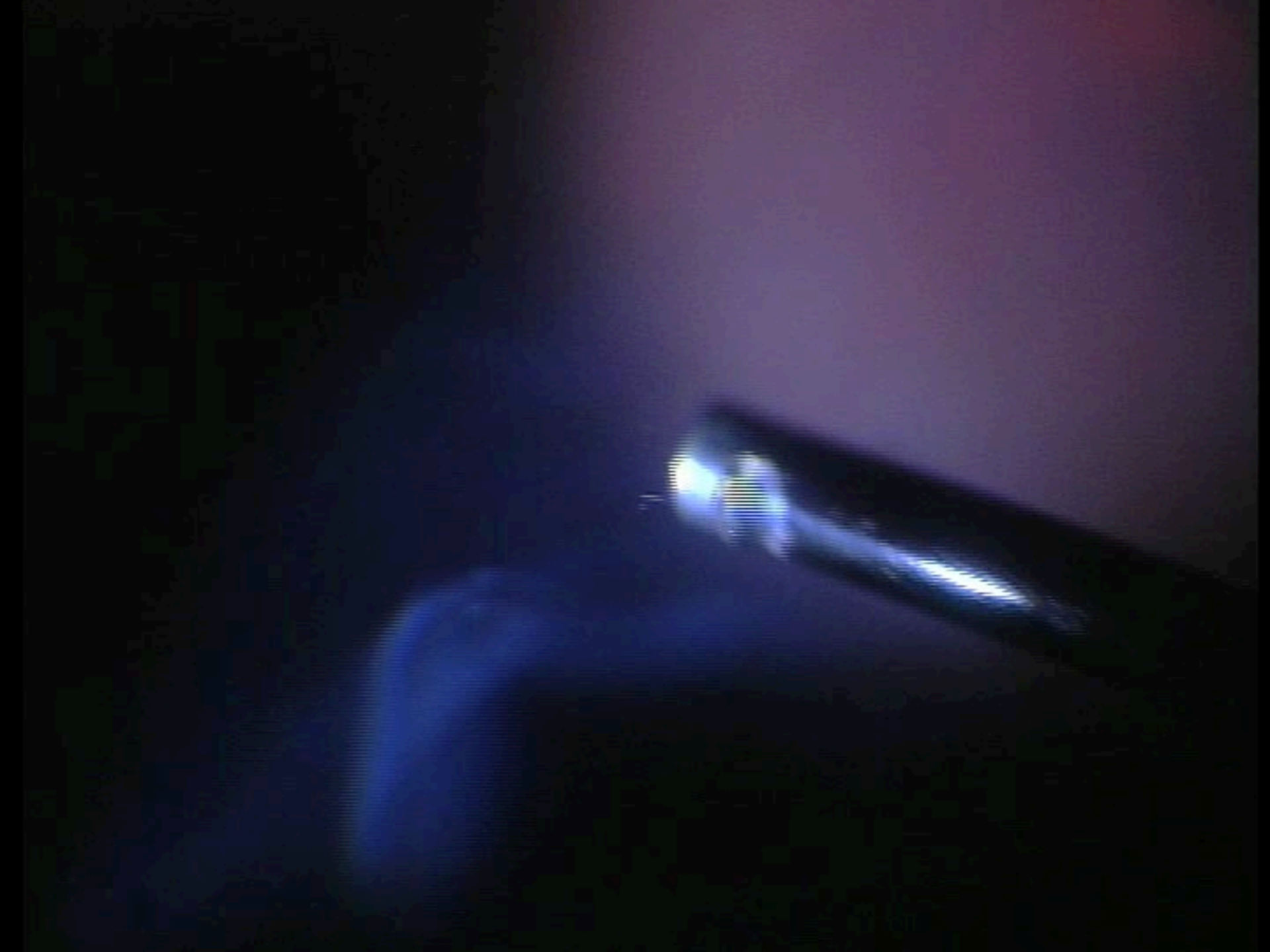




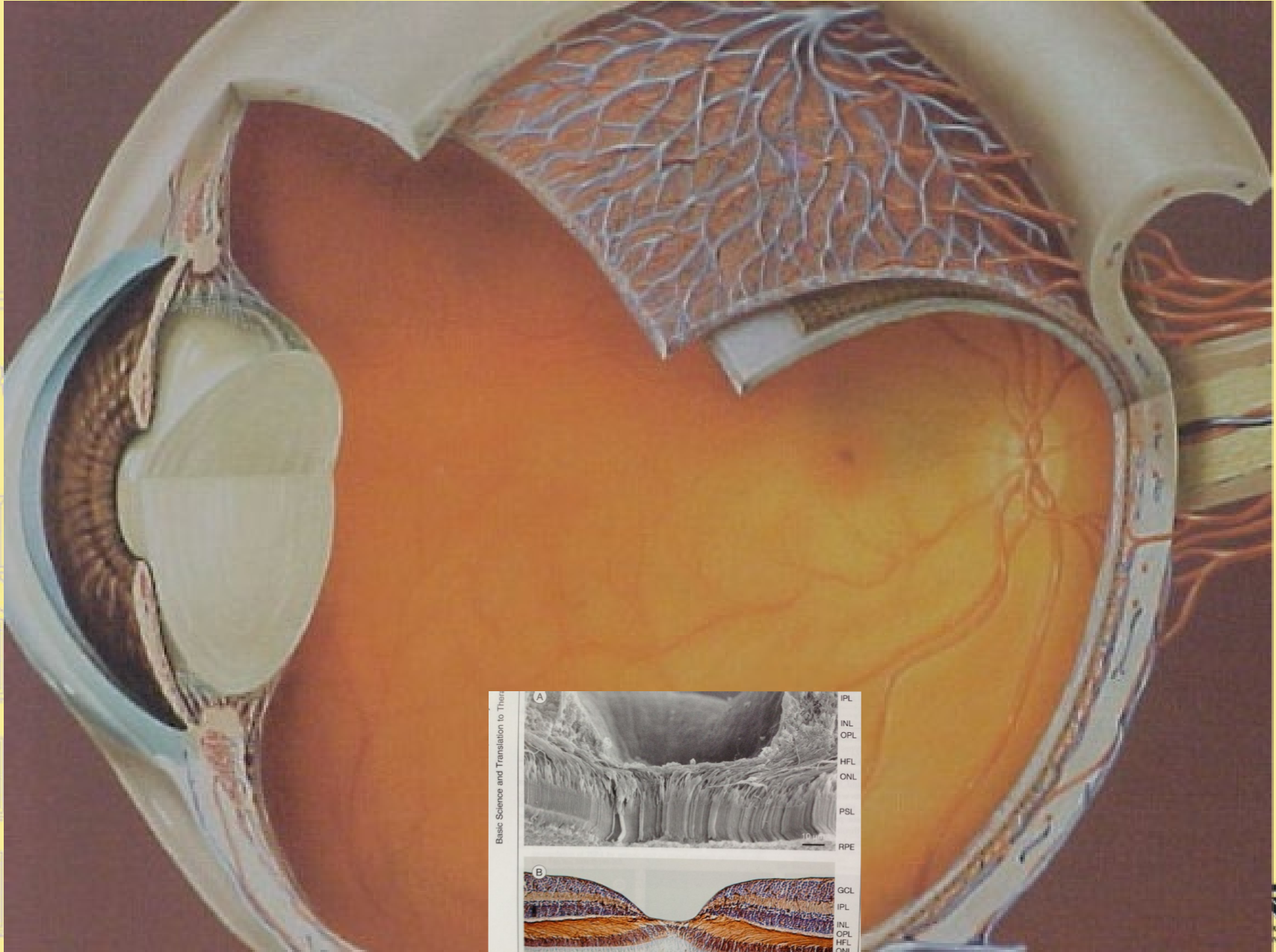




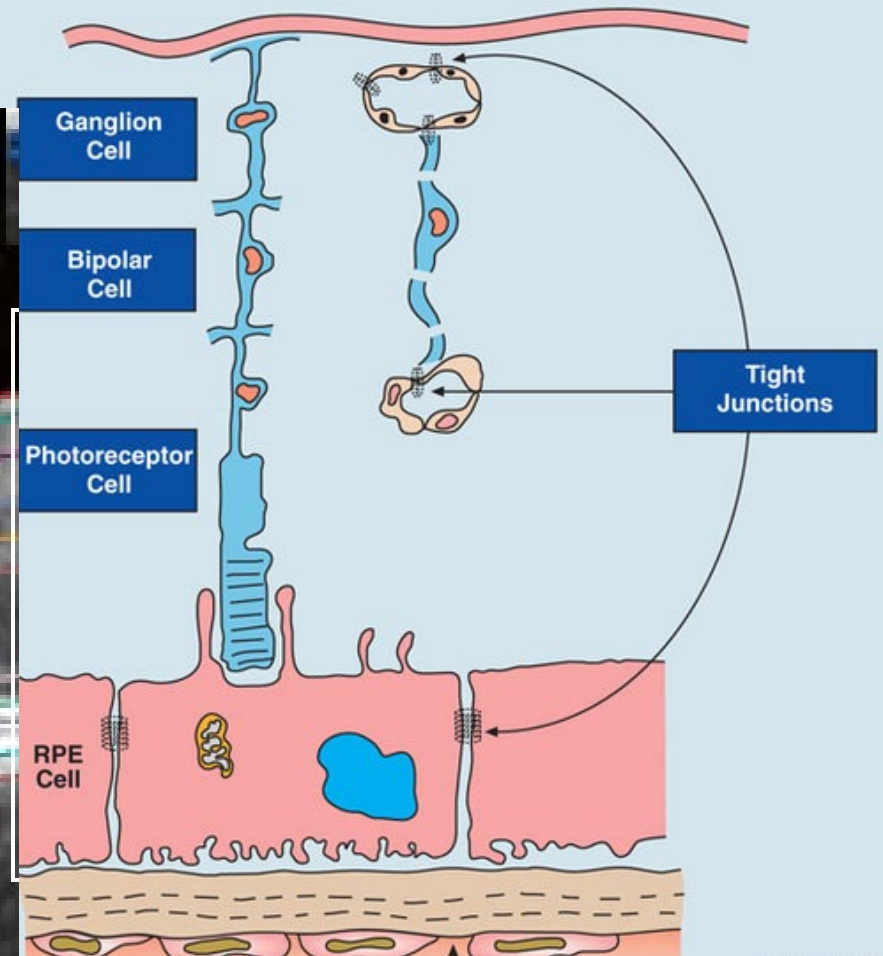
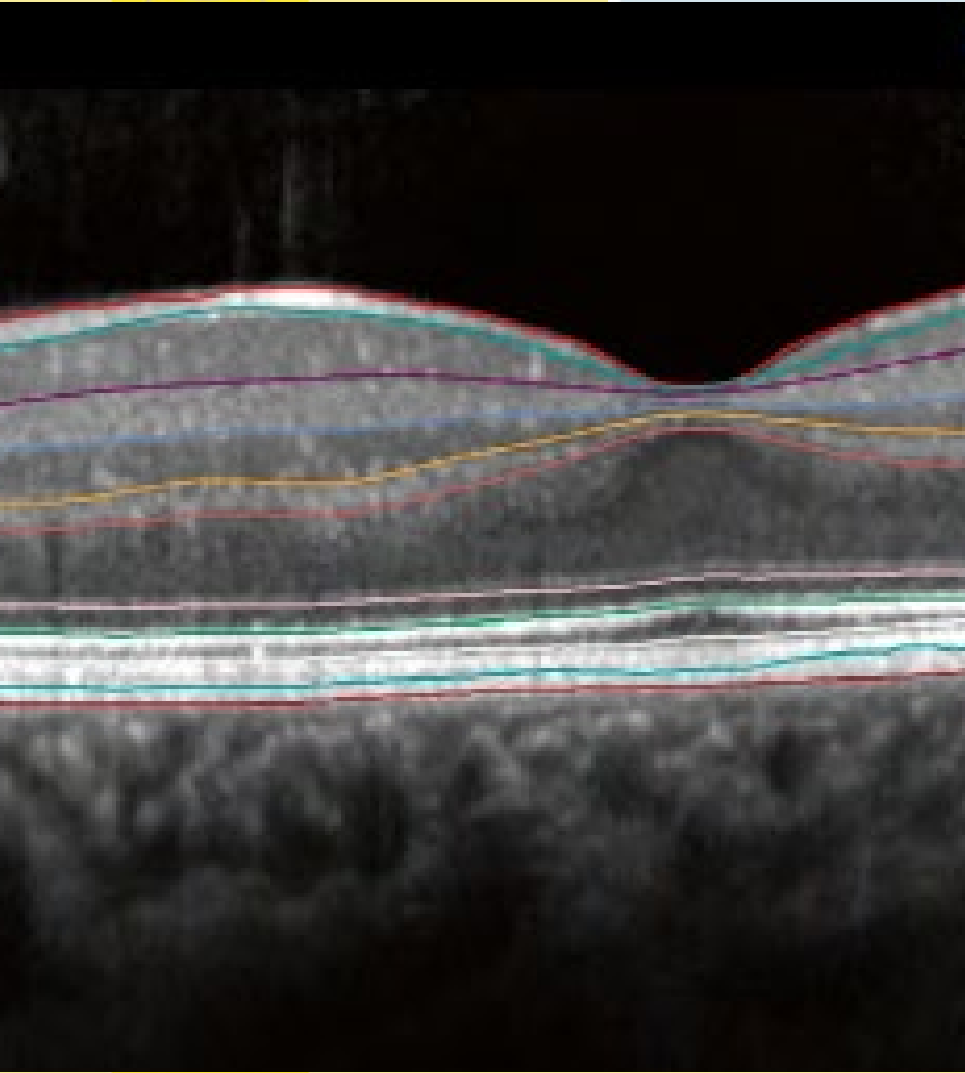


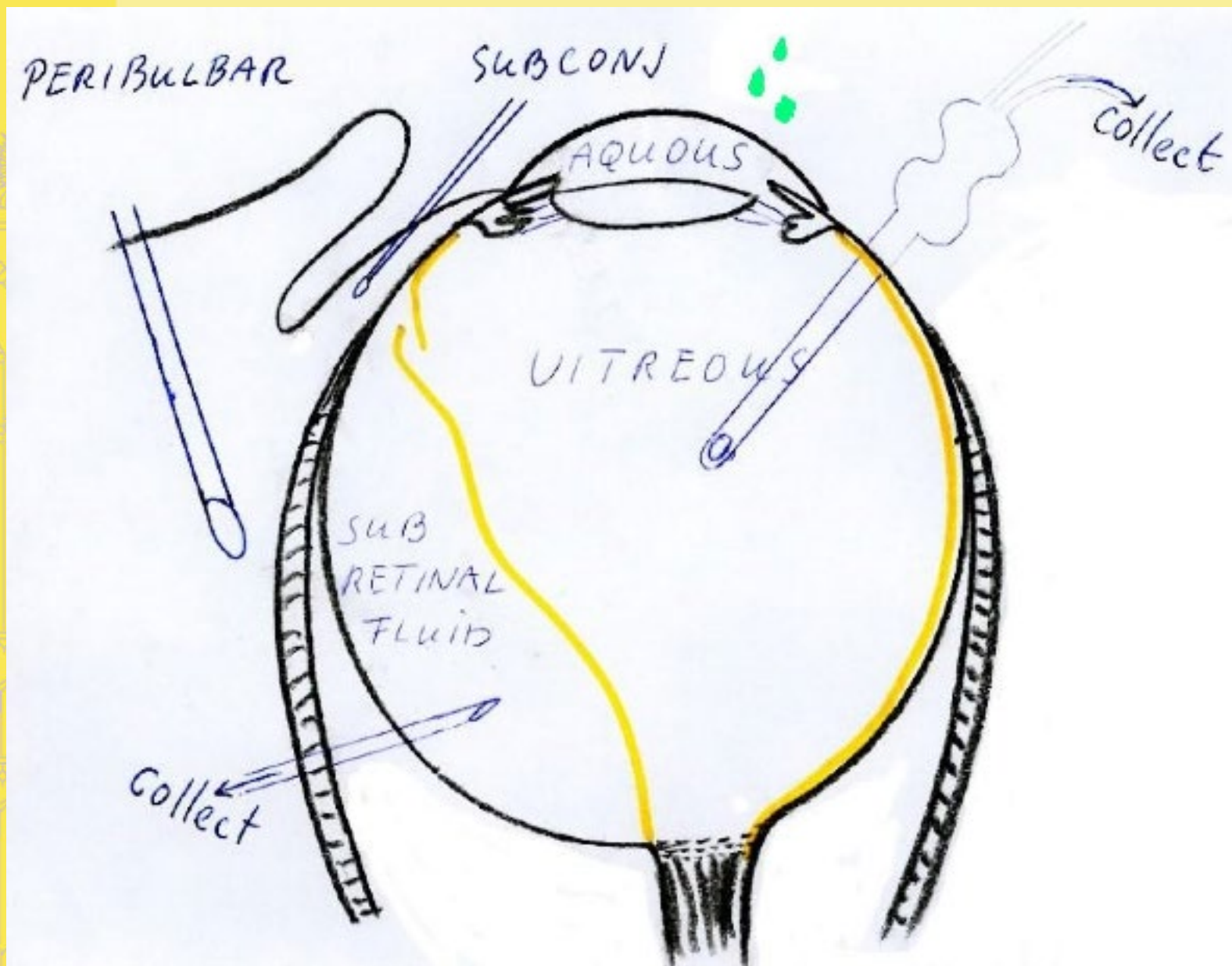


Blood retina barrier



Blood retina barrier





eyedrops

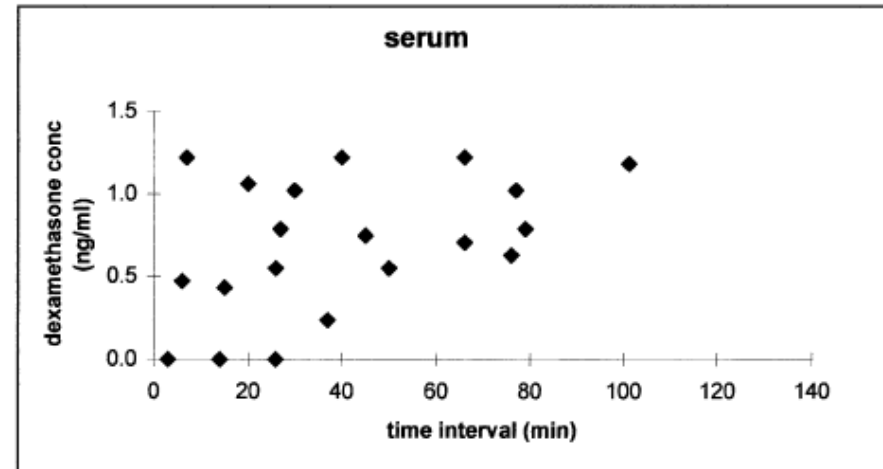
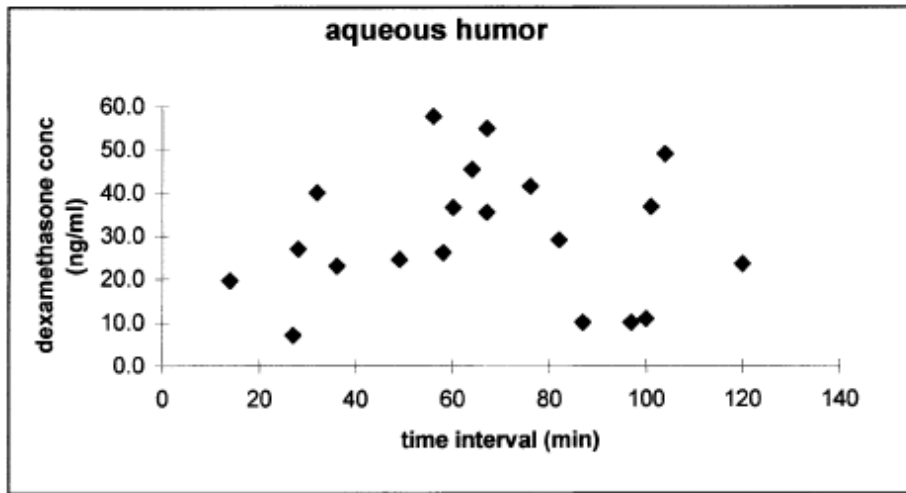
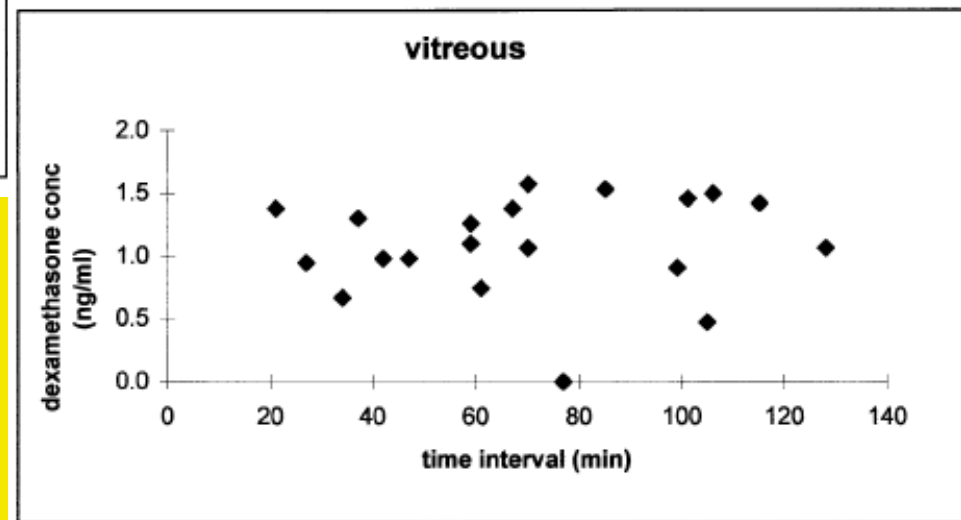


Figure 1. Dexamethasone concentration in aqueous humor, vitreous, and serum after repeated drop application of dexamethasone disodium phosphate (0.1%) every 1½ hours.



vraag bij oogdruppels

Wat is effectiever om een hogere concentratie in de voorste oogkamer te krijgen ?

a

3 dd 1 druppel

b

3 dd 2 druppels

c

6 dd 1 druppel

d

alle drie hetzelfde

peribulbar injection

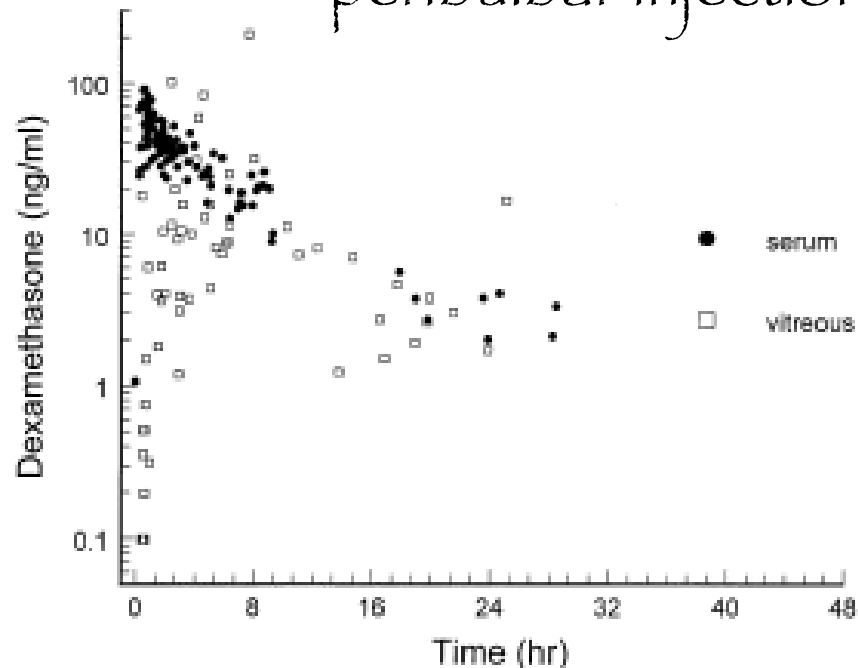


FIGURE 1. Dexamethasone concentration in vitreous of 61 eyes and in multiple serum samples of 22 patients as a function of time after peribulbar injection of 5 mg dexamethasone disodiumphosphate (on a semi-logarithmic scale). (Reprinted from Weijtens et al, *Am J Ophthalmol* 1997;123:360, with permission.)

oral

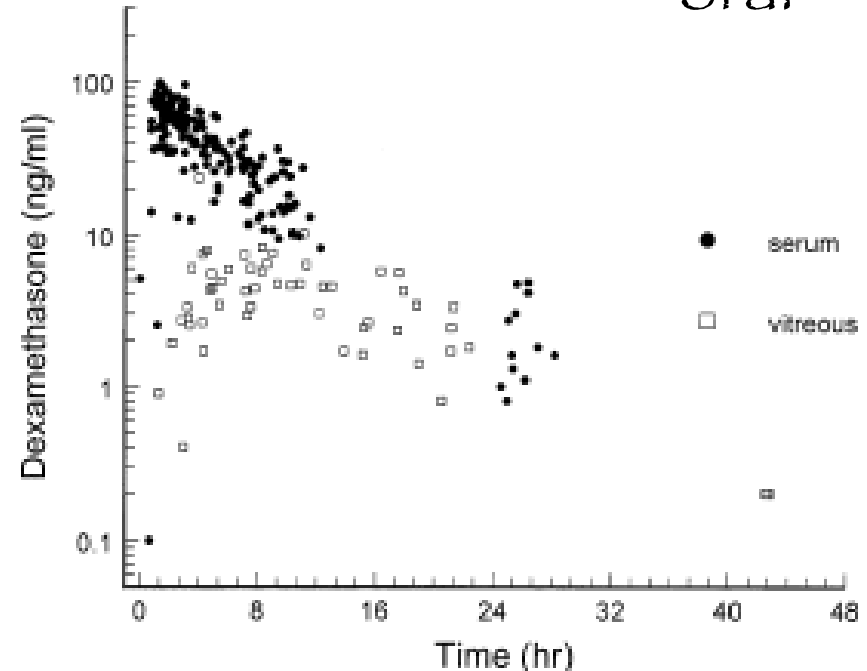
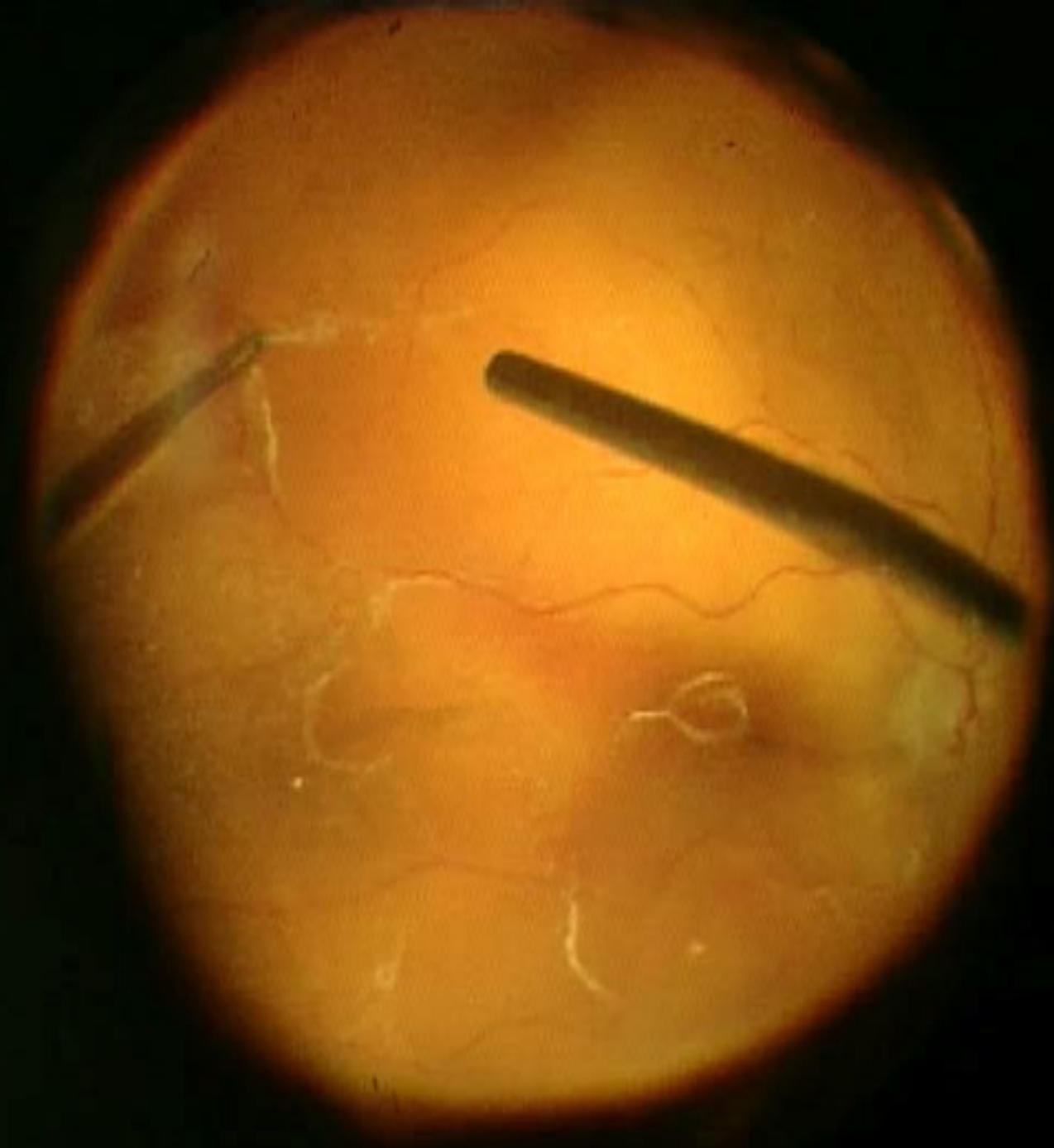
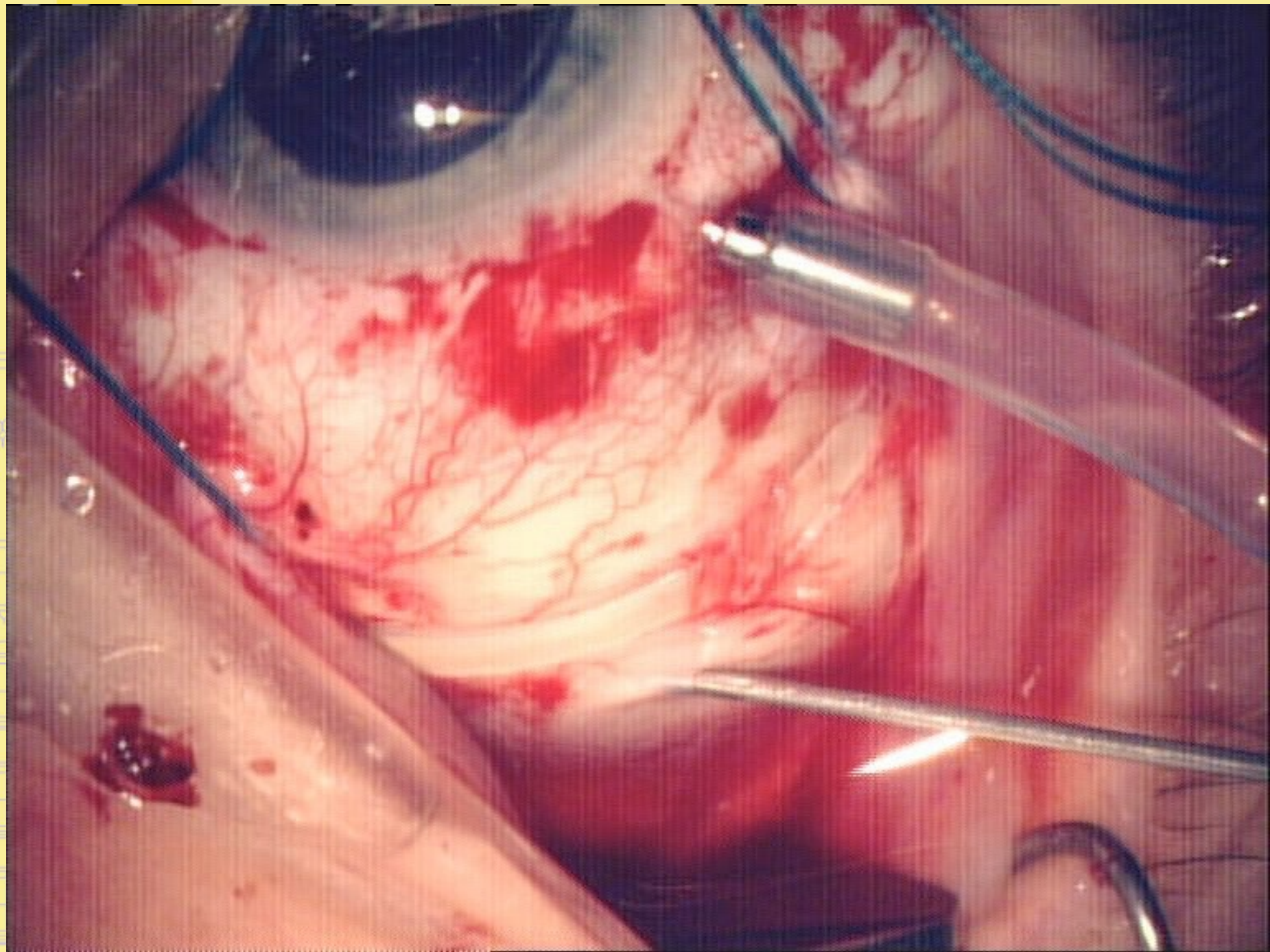


FIGURE 2. Dexamethasone concentration in vitreous of 54 eyes and in multiple serum samples of 32 patients as a function of time after oral administration of 7.5 mg dexamethasone (on a semi-logarithmic scale).





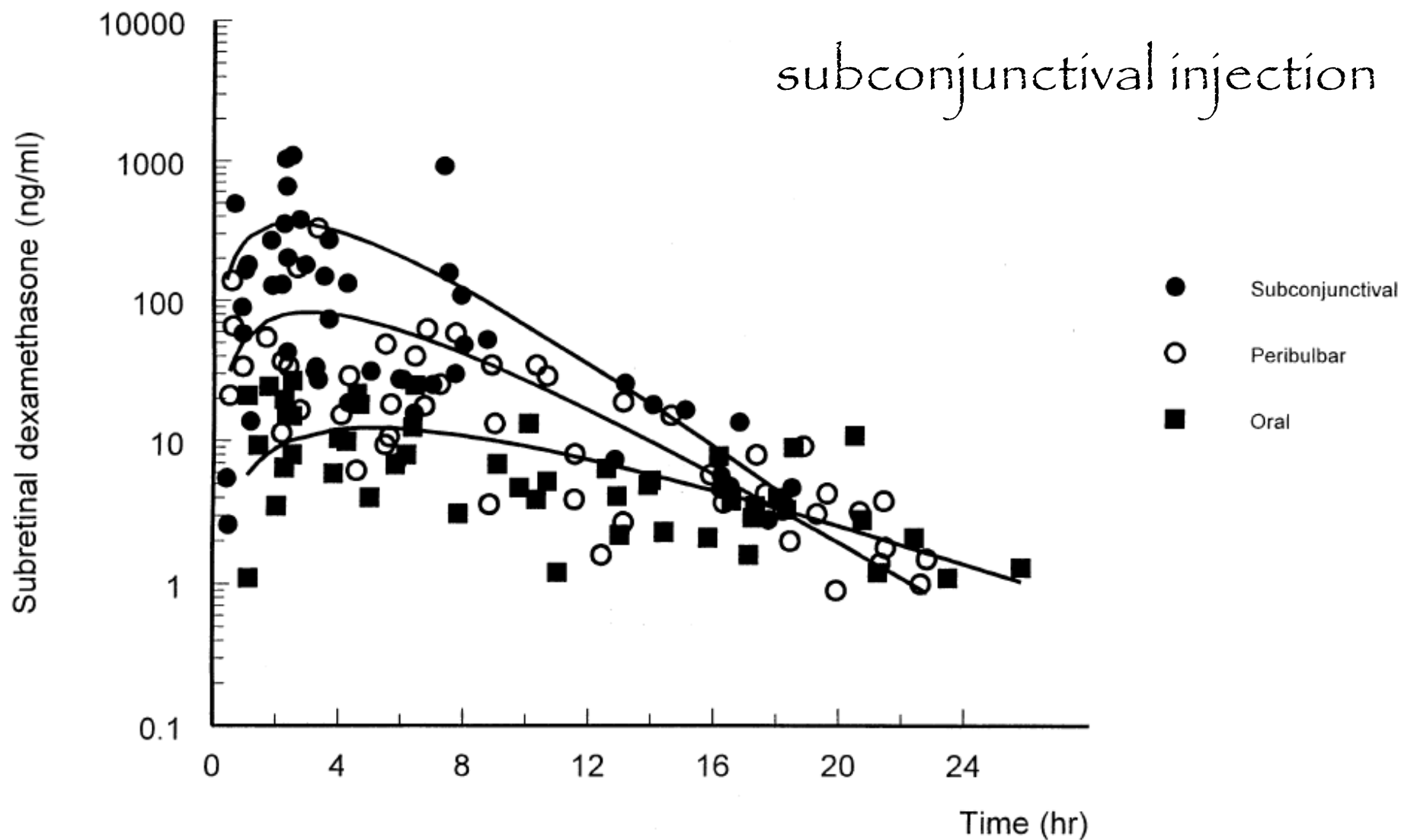


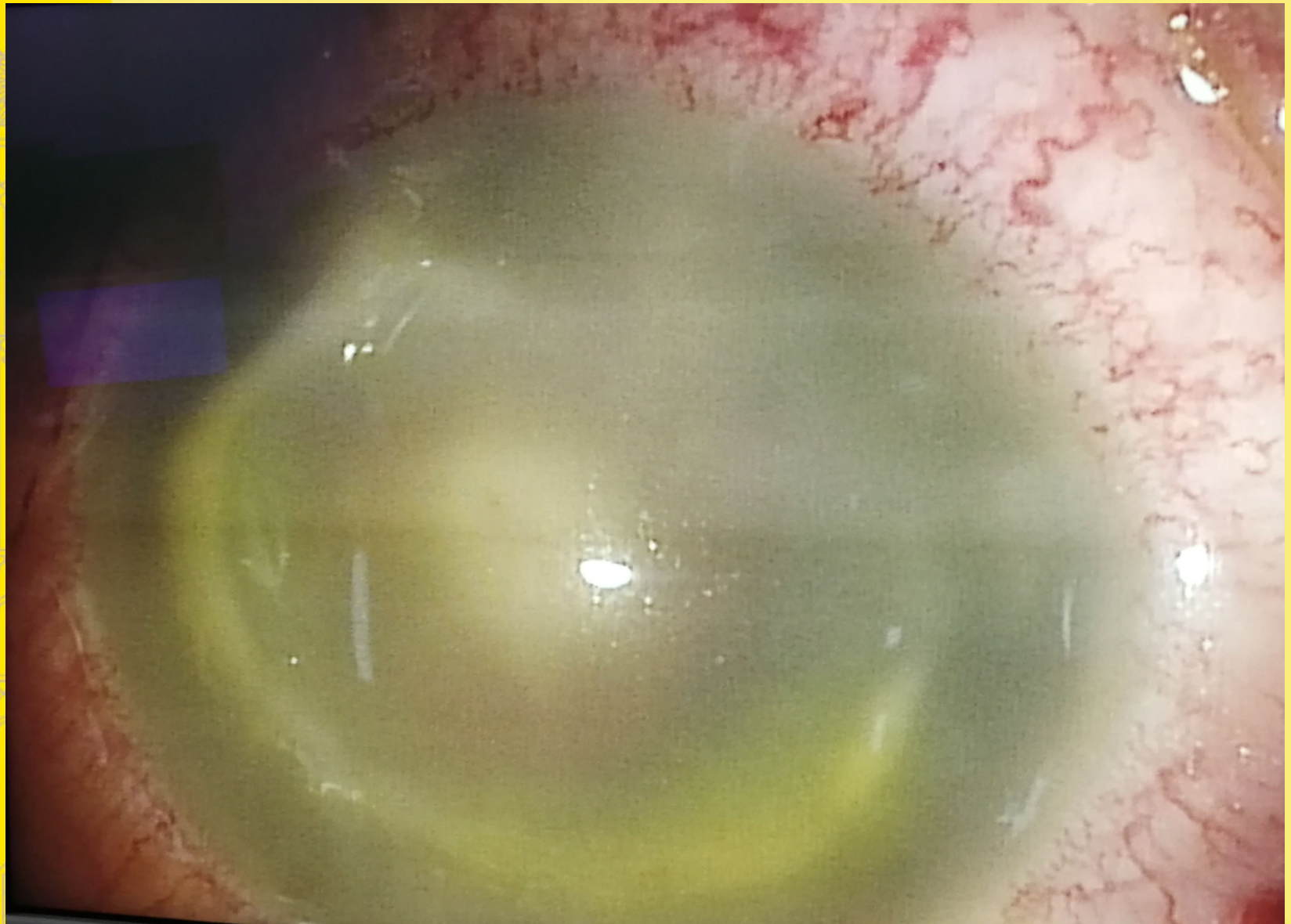
Figure 1. Dexamethasone concentration in subretinal fluid of 50, 49, and 49 eyes, respectively, with retinal detachment, as a function of time after peribulbar injection of 5 mg dexamethasone disodium phosphate, subconjunctival injection of 2.5 mg dexamethasone disodium phosphate, or oral administration of 7.5 mg dexamethasone (on a semilogarithmic scale).

vraag bij toedieningsroute

***Is er sprake van een directe route bij
injecties rond het oog ?***

- a nee, alles via de circulatie
- b alleen als je direct intravitreaal spuit
- c ja, transscleraal
- d alle antwoorden zijn goed

endophthalmitis



Endophthalmitis Vitrectomy Study 1995

n=476

	Intravitreal AB	Intravitreal + intravenous AB
Biopsy only		
Cor vitrectomy		

intravitreal injections

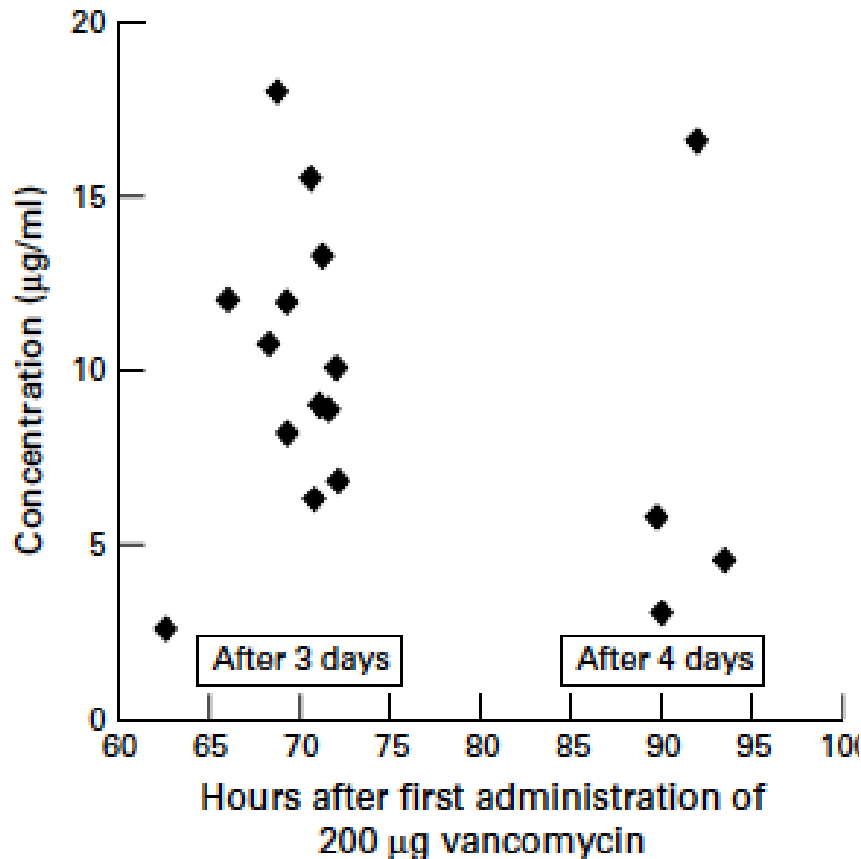


Figure 1 Intravitreal vancomycin concentrations.

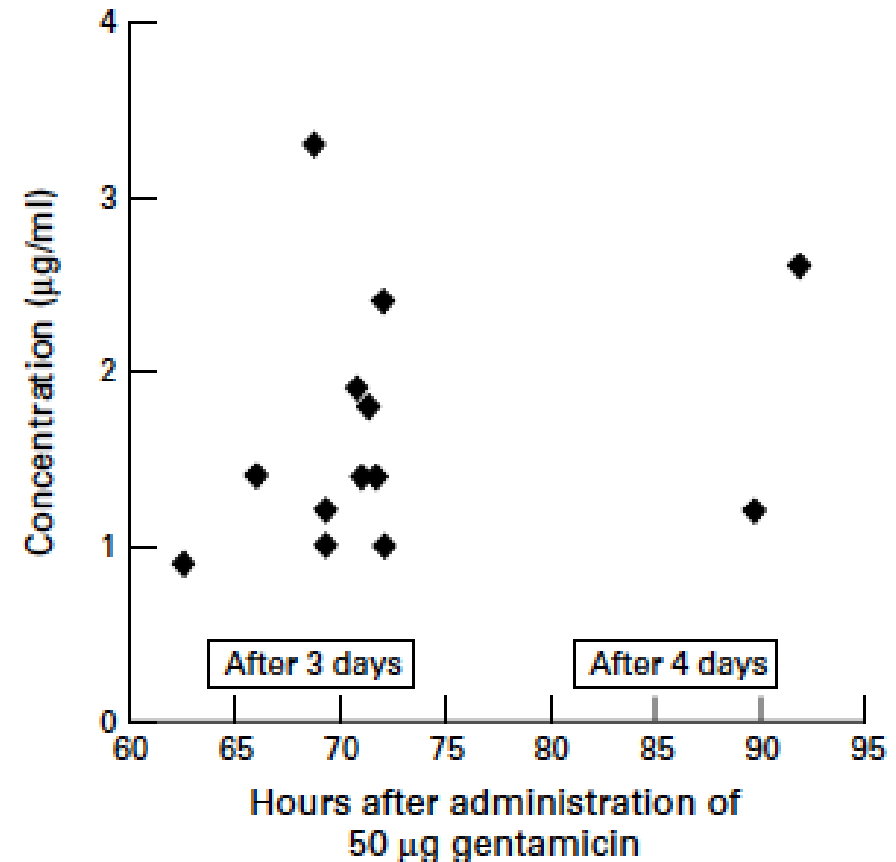
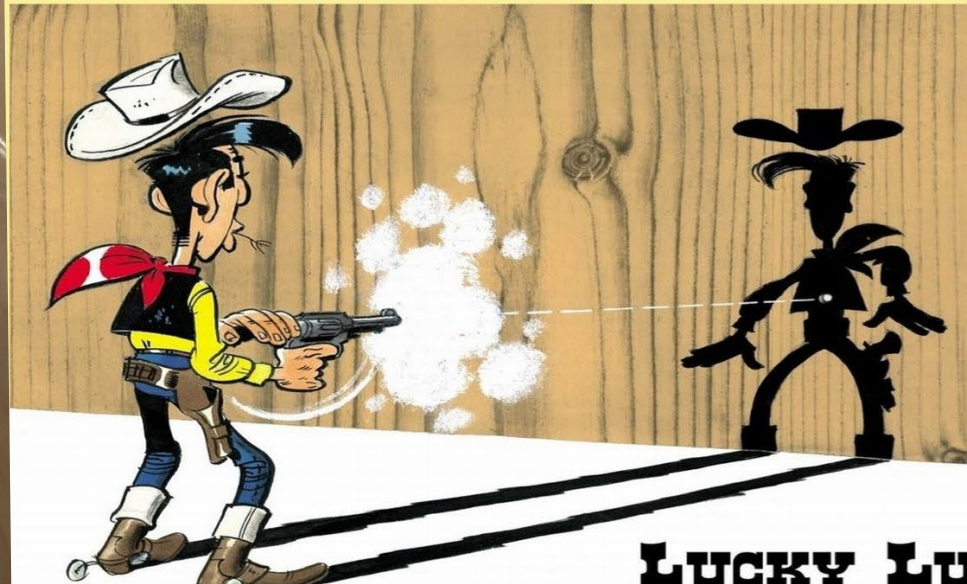
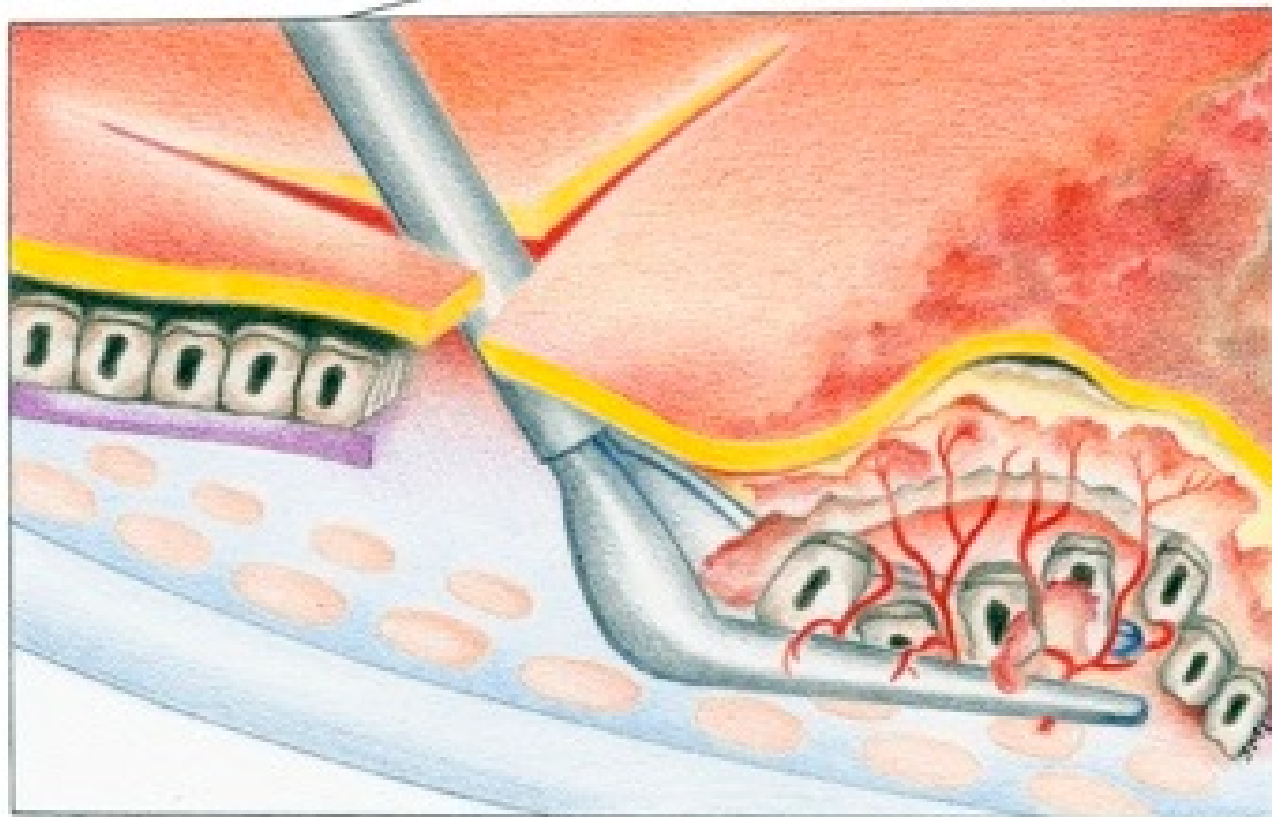
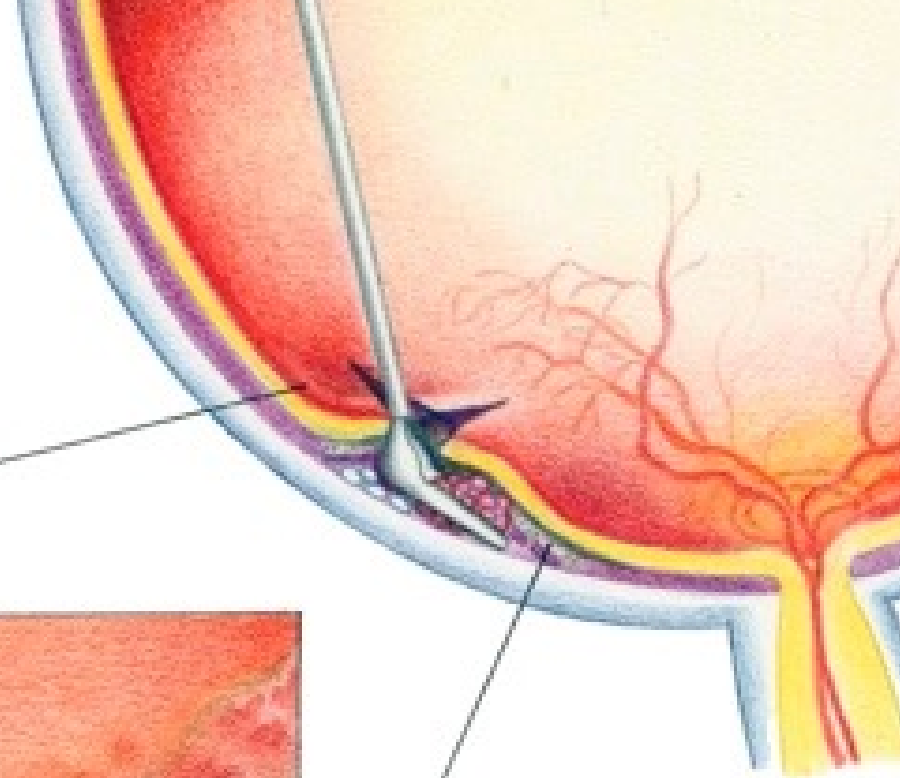
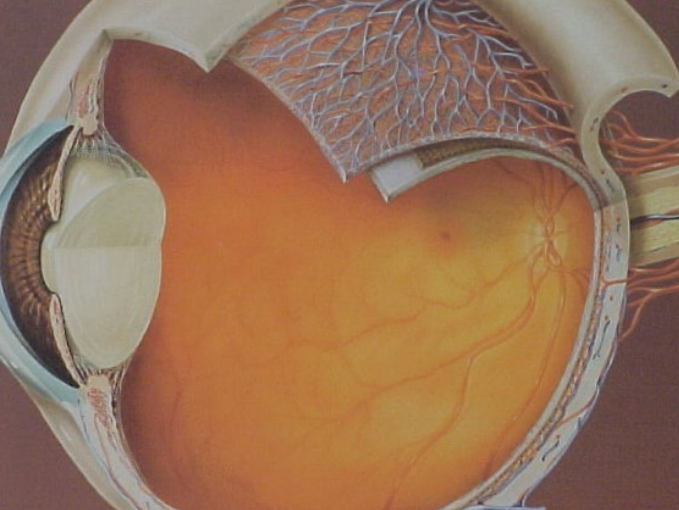


Figure 2 Intravitreal gentamicin concentrations.

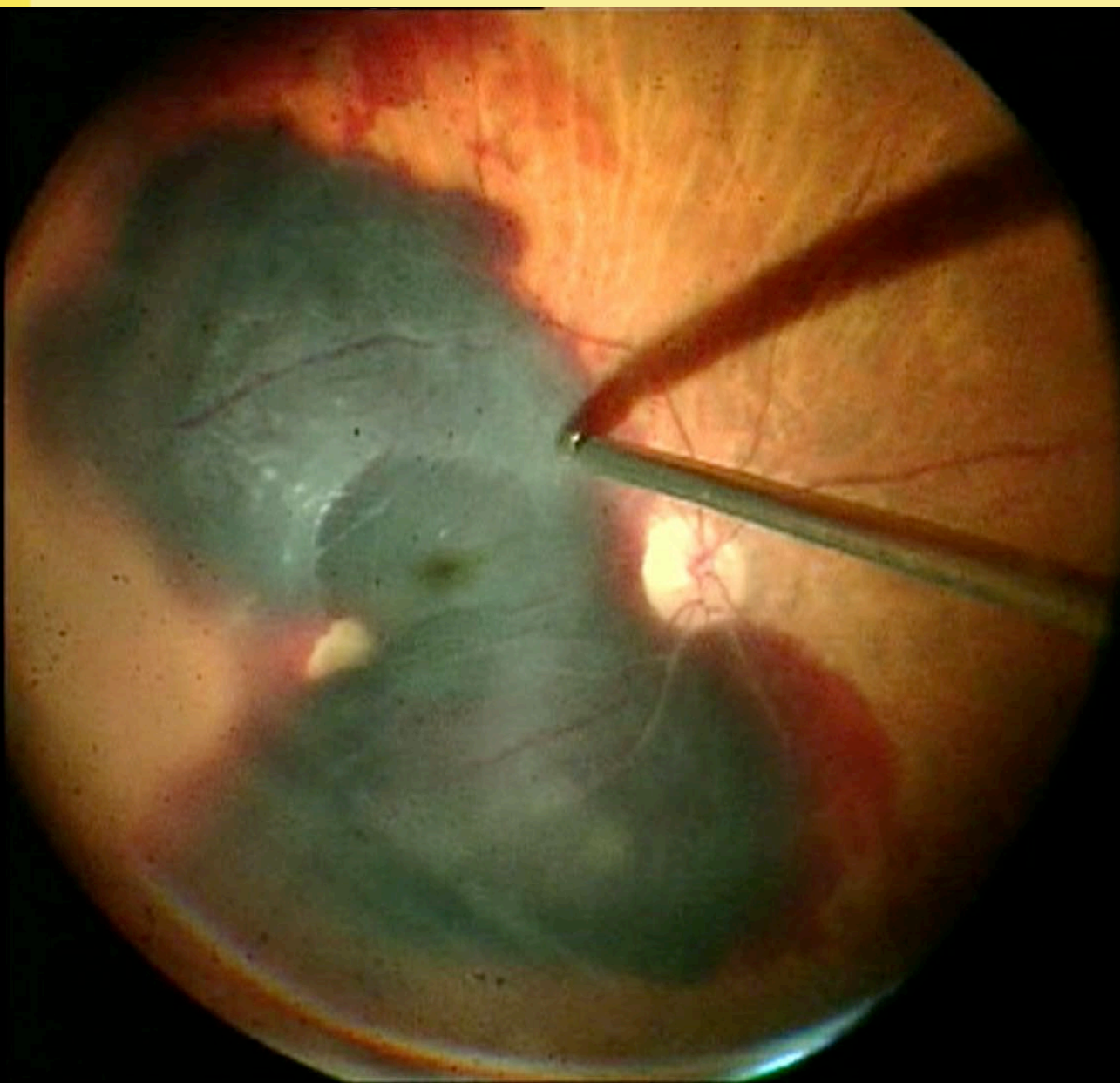
later multi mono PCR backed up by 16 S sequencing allows us to remain informed

while we inject antibiotics at the first opportunity

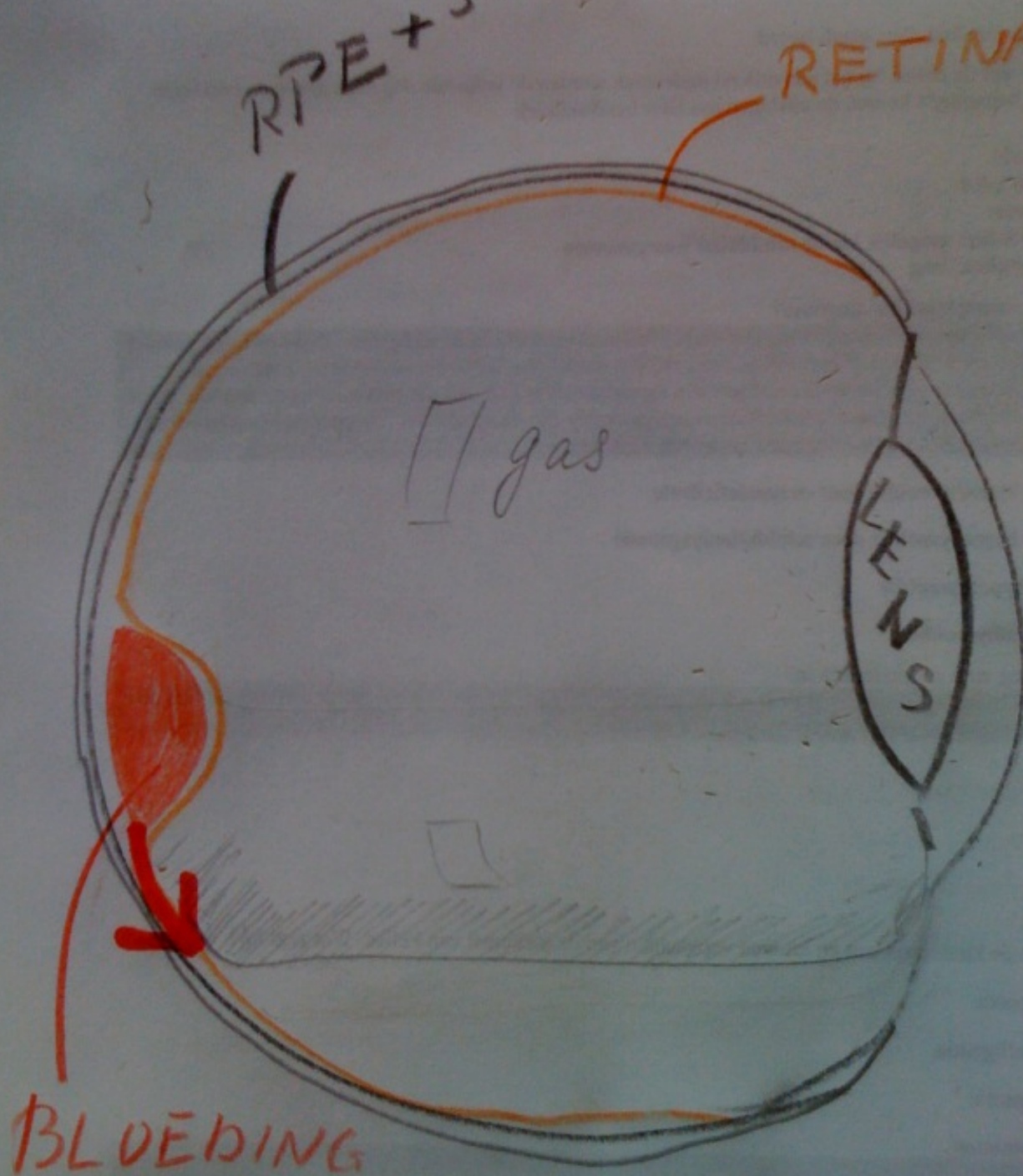


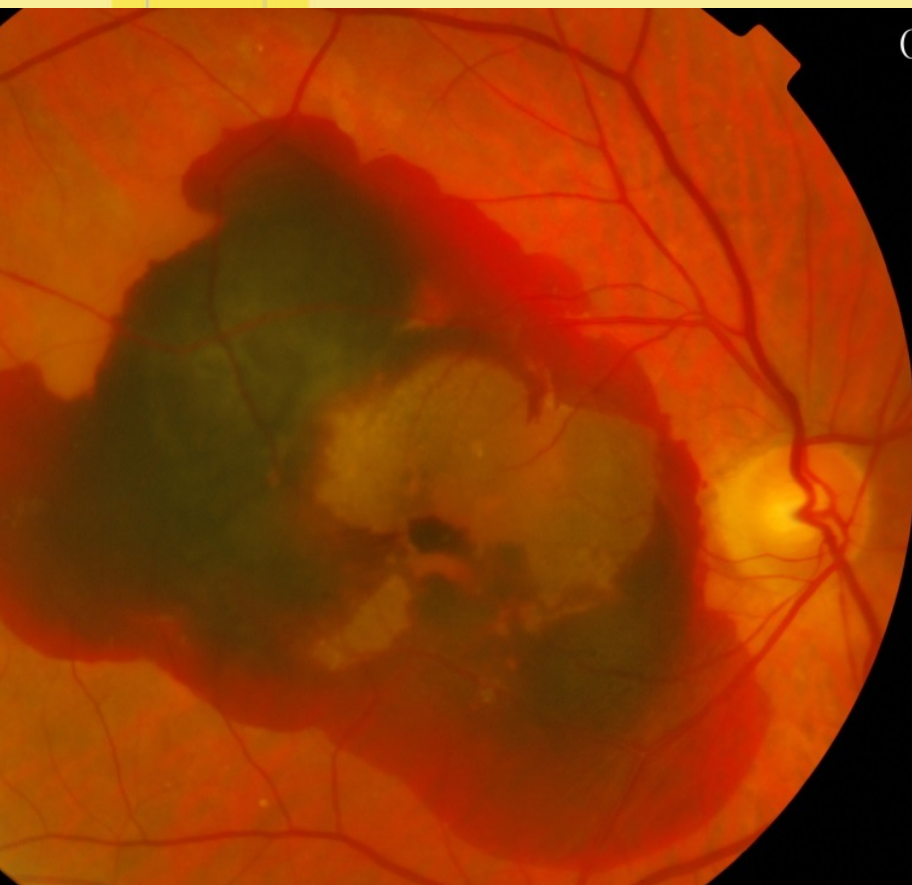


choroidal
neovascularization



2010/03/24





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nieuwsuur

NIEUWSUUR · BINNENLAND · ZO 3 JANUARI, 16:57

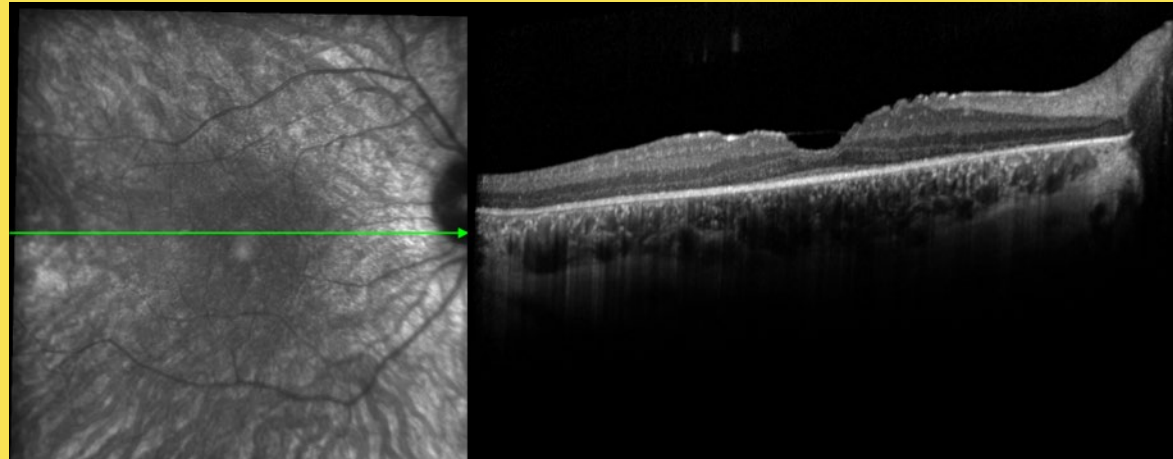
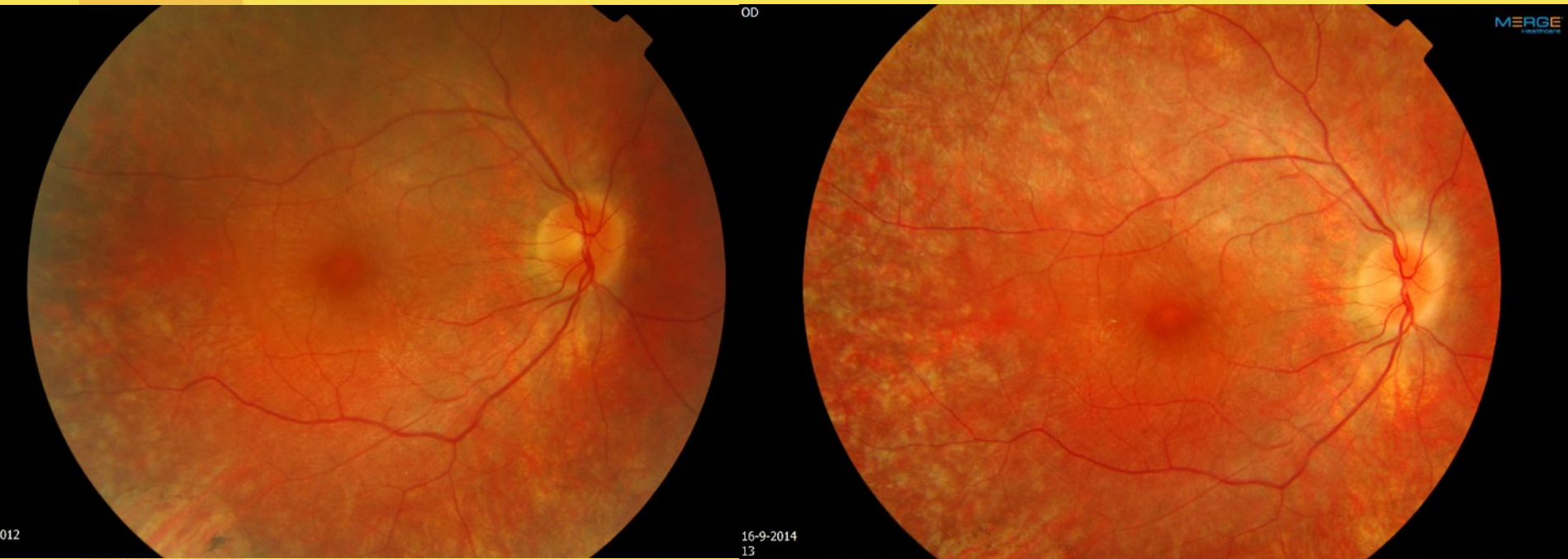
Ook peperdure gentherapie tegen oogaandoening in het basispakket

vraag over nieuwsuur animatie

Wat stoort je het meest op deze weergave ?

- a de beeldkwaliteit
- b je ziet niet dat het virus subretinaal komt
- c je prikt de lens aan als je zo prikt
- d alle drie

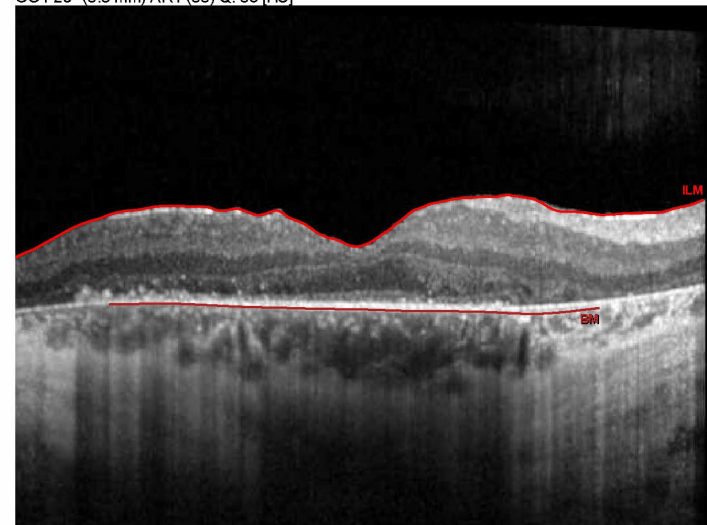
patient in Philadelphia 2012 f.u. 2 years



OD



OCT 20° (5.8 mm) ART (35) Q: 36 [HS]



the battle of anti-VEGFs



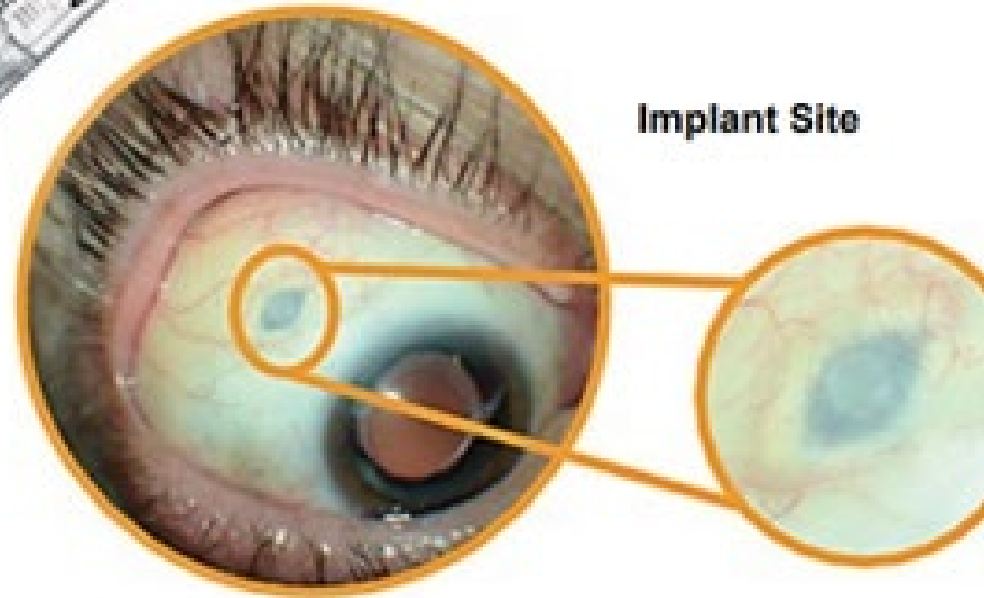
Port Delivery System

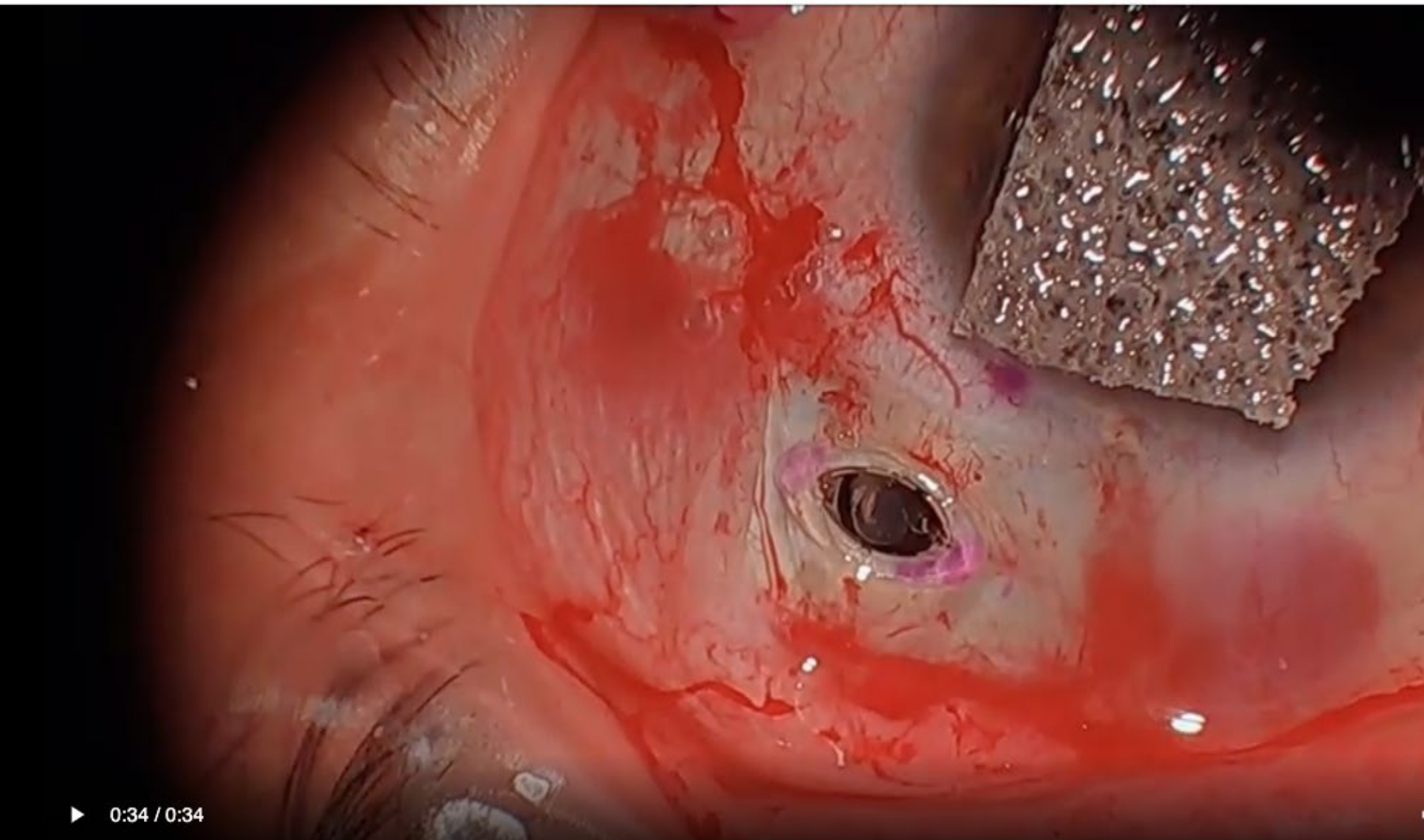


Refill Needle



Implant Site



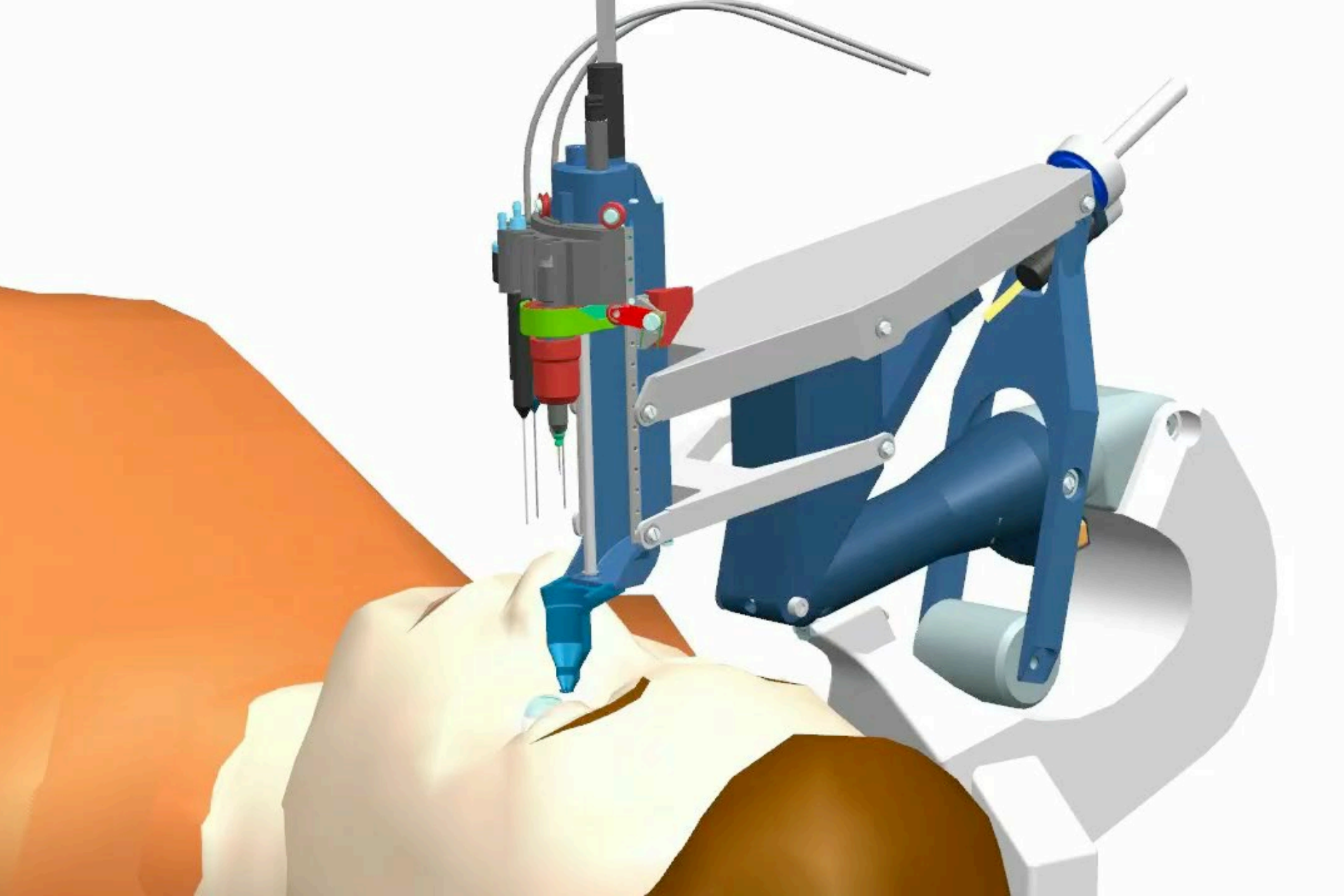


vraag over deze vondst

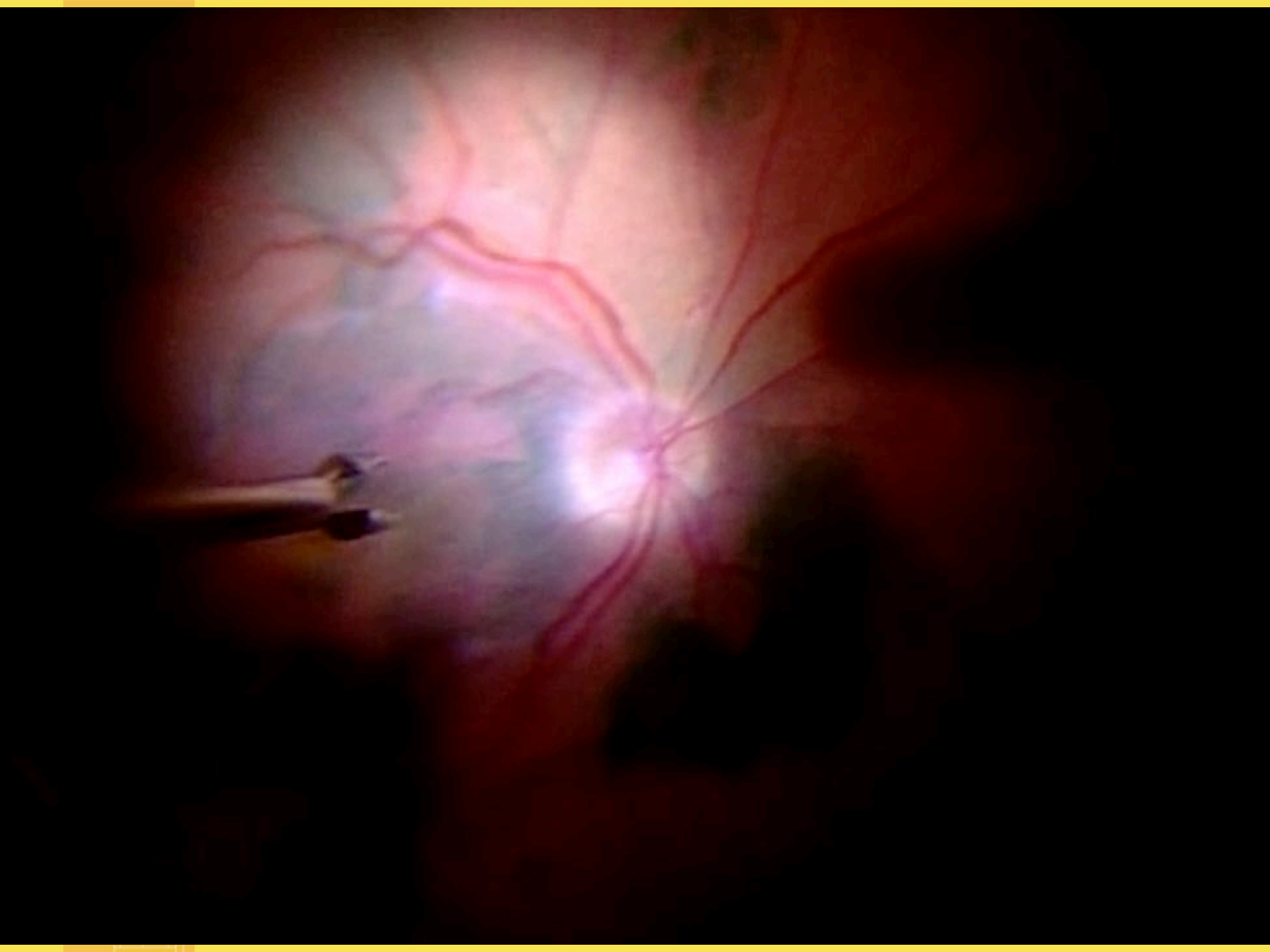
welke bewering vind je de meest juiste ?

- a je kunt er net zo goed Avastin in spuiten
- b endophthalmitis is het grootste gevaar
- c het lijkt op het oogjuweel
- d belangrijke verbetering



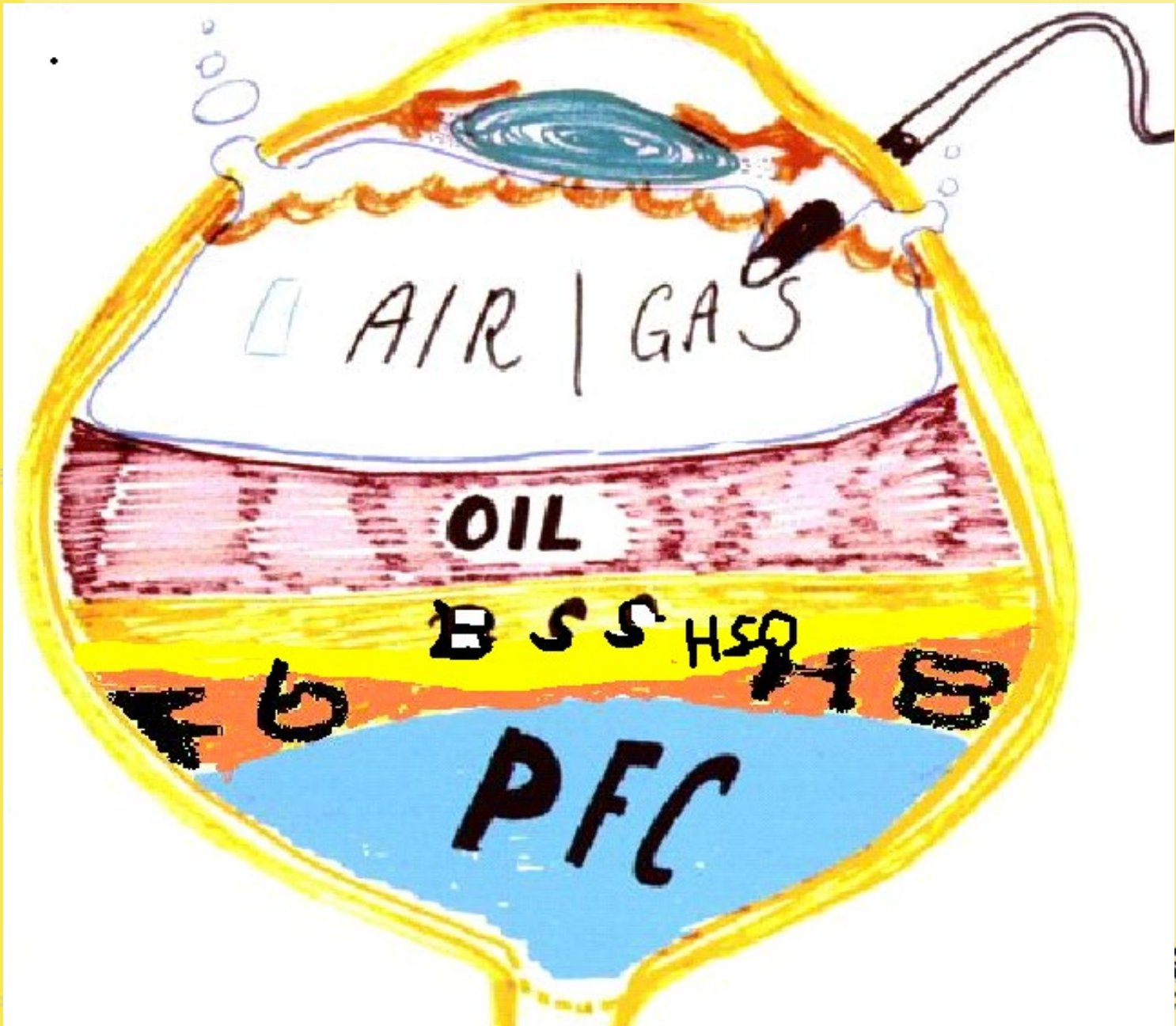




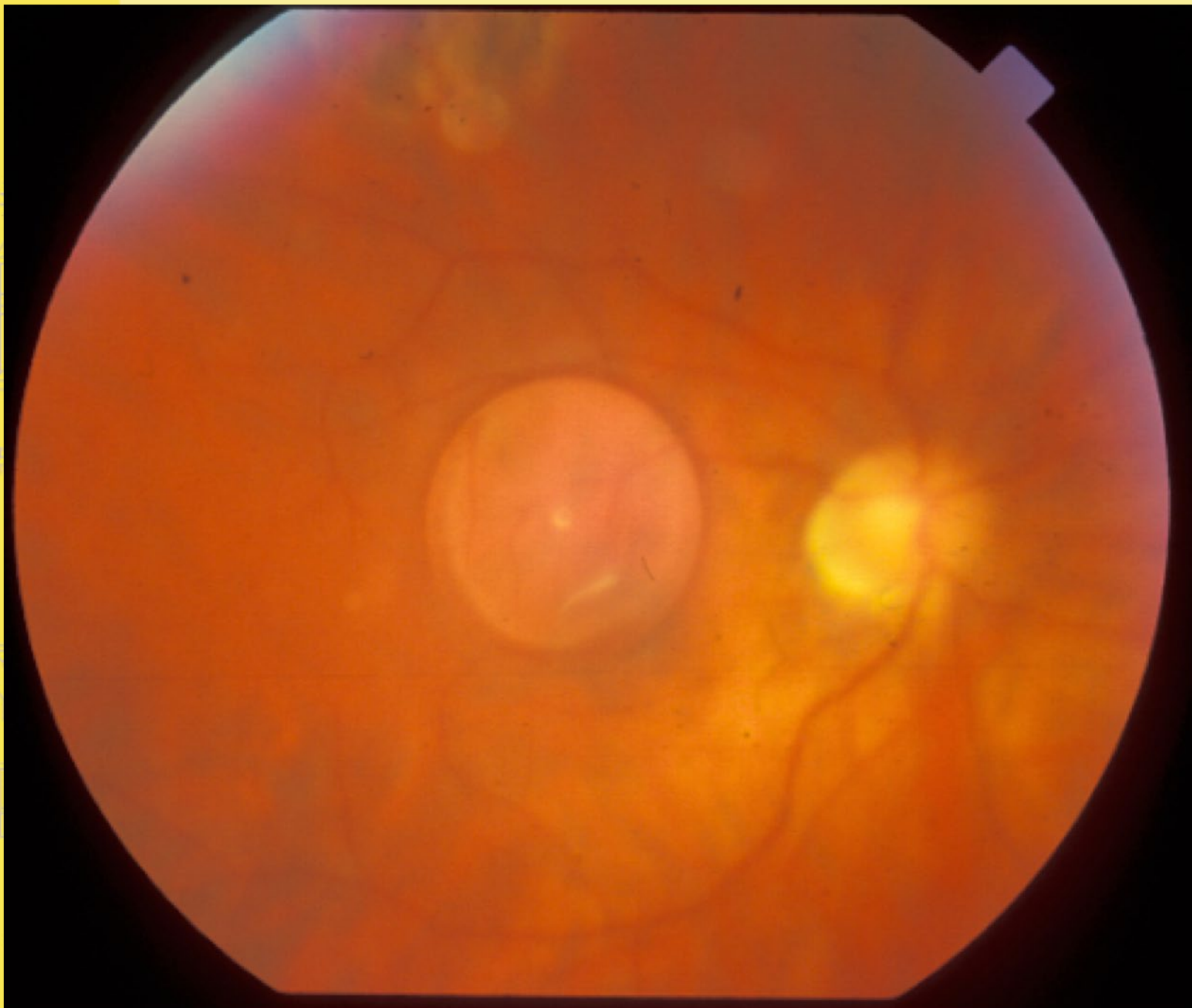


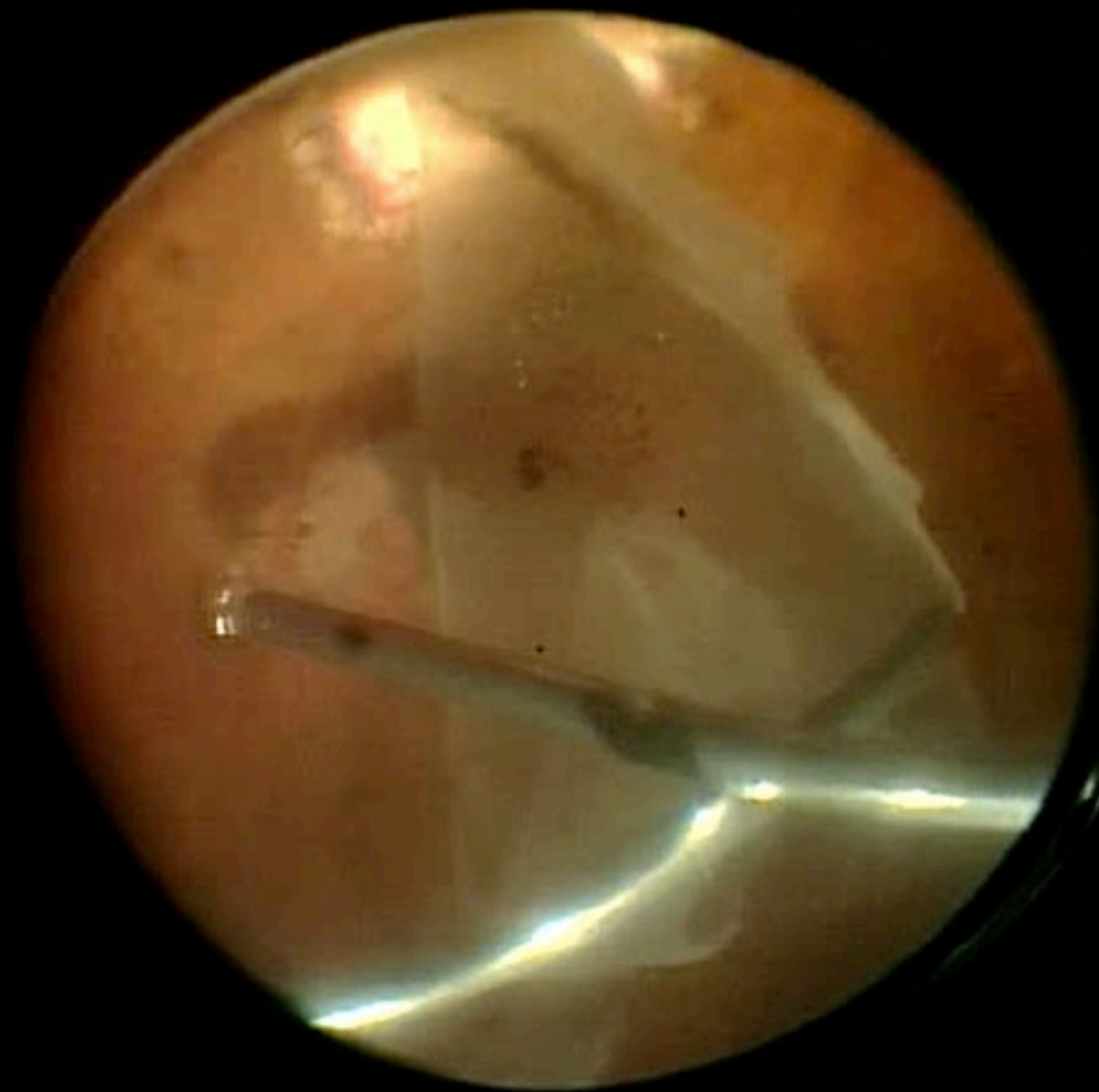


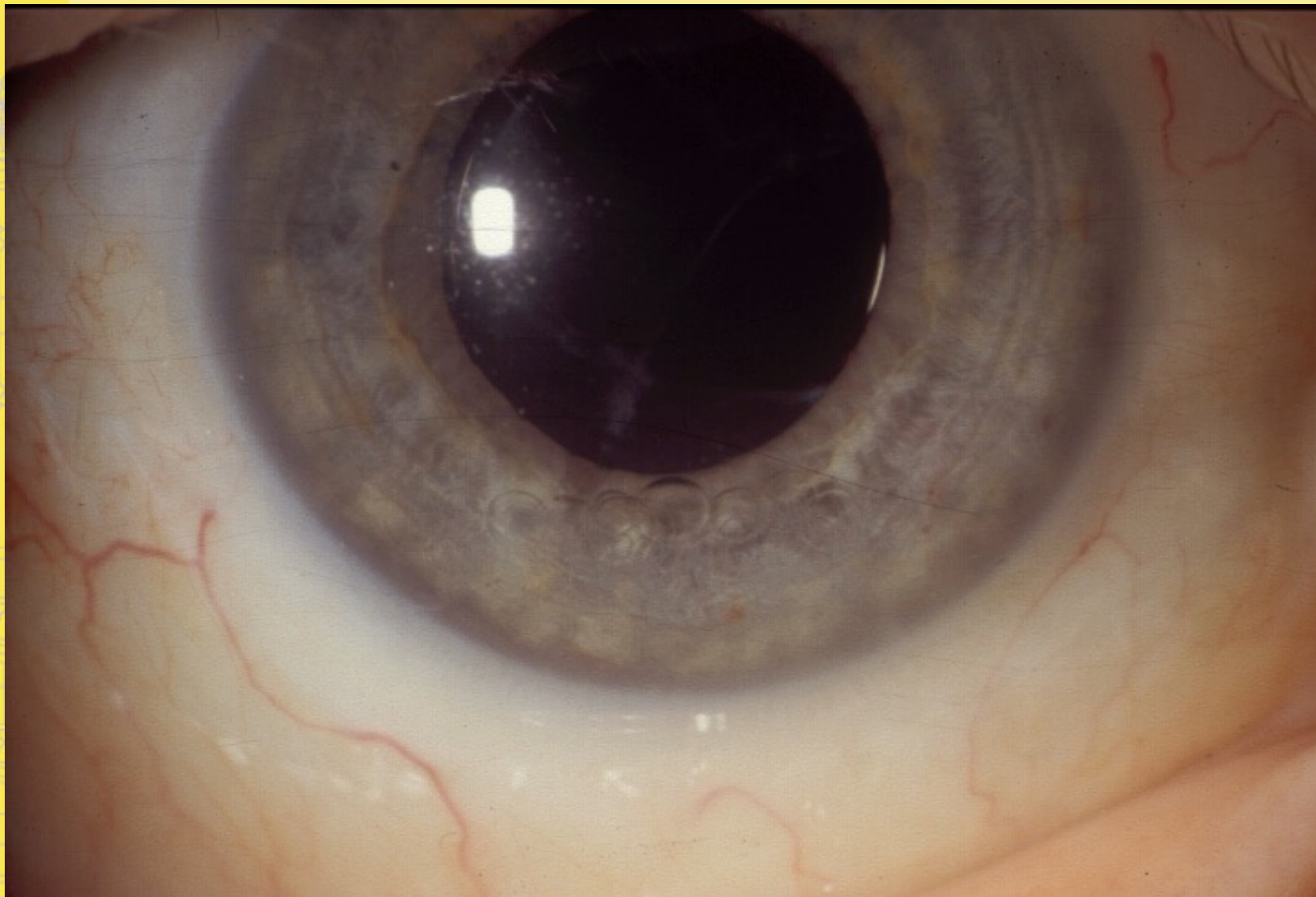
TAMPONADES





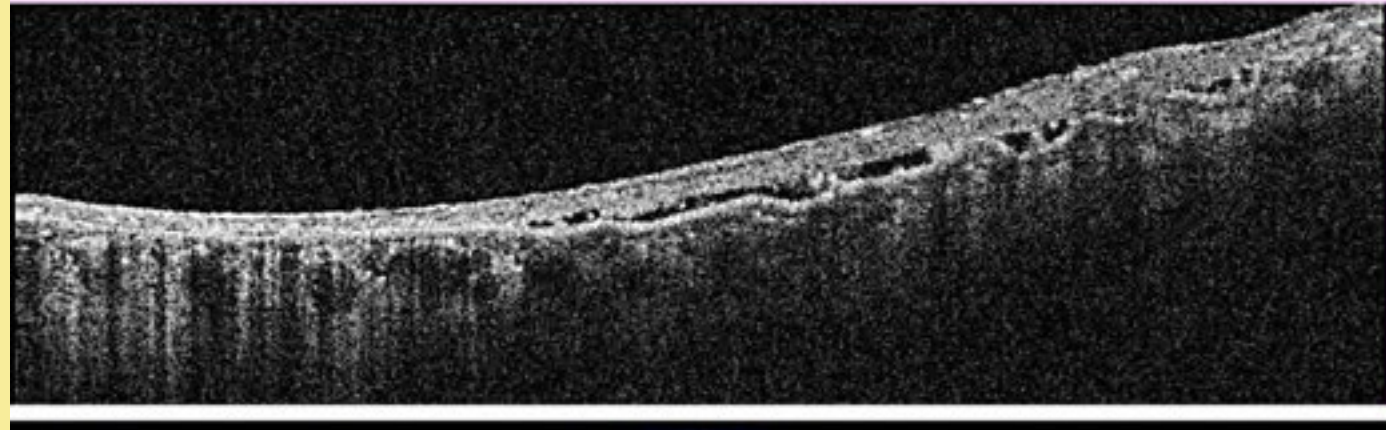
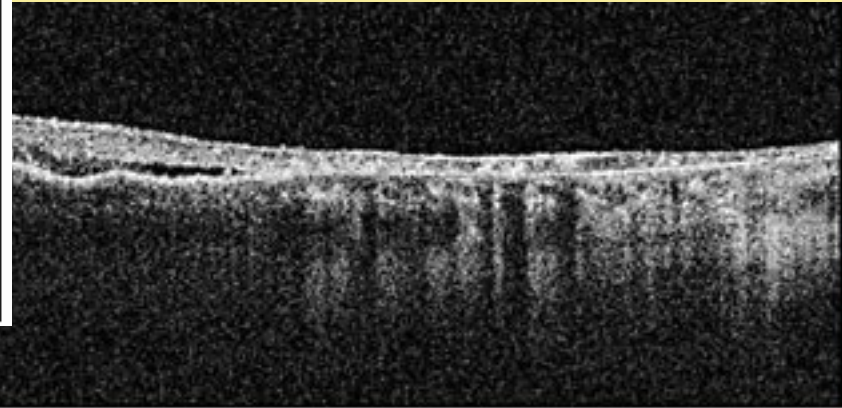
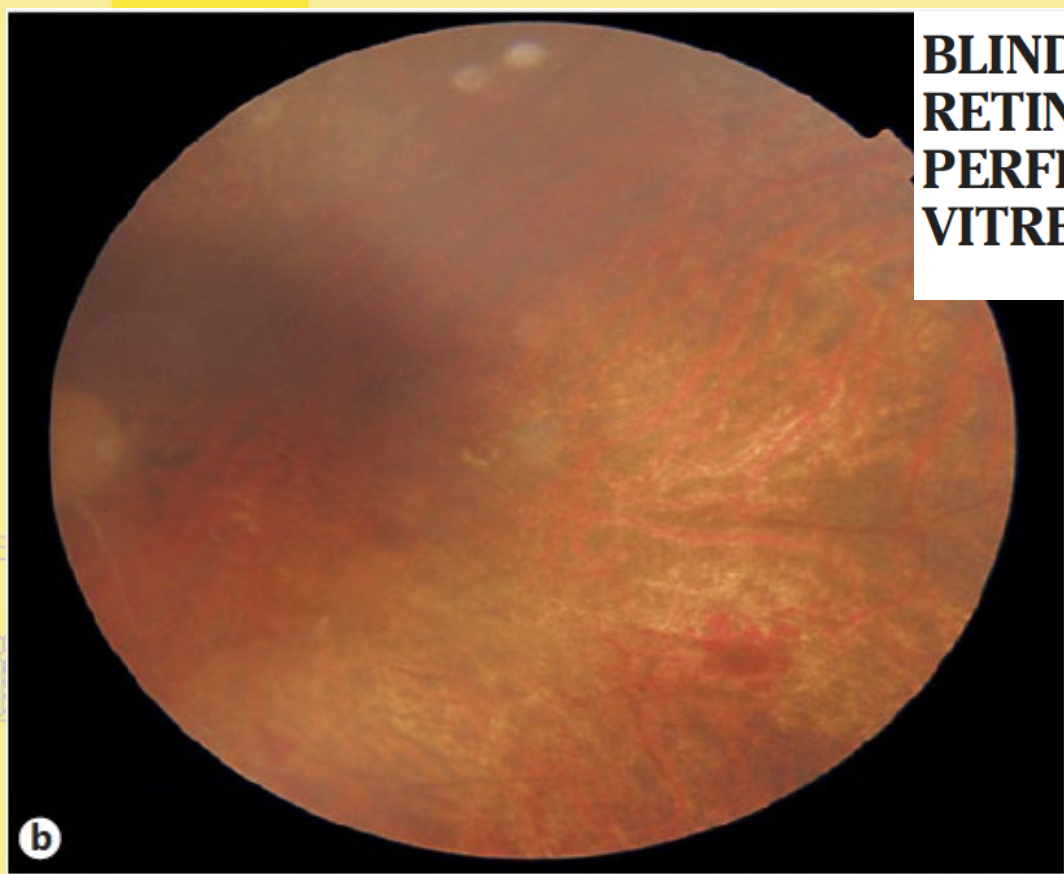








**BLINDNESS RELATED TO PRESUMED
RETINAL TOXICITY AFTER USING
PERFLUOROCARBON LIQUID DURING
VITREORETINAL SURGERY**



Cytotoxicity
[% Growth Inhibition]
ISO10993-5 (Extractive
Method (B))

Ala Octa Lot #		H-Value [ppm]
171214	96	4500
061014	94	2800
050514	50	2100
080714	48	2100
150414	40	1400
200114	39	2600
070714	33	1800
041213	23	3200
Pharmpur PFO 33/15	0	<10
Ultra purified 061014	0	<10

Vraag hulpmiddelen calamiteit ?

welke bewering is het meest juist ?

- a CE markering is voldoende.
- b batches goed bijhouden.
- c niet te voorkomen, er is gesjoemeld.
- d CE markering is niet voldoende.

Kijk op oogmedicatie

OOGZIEKENHUIS

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"Medische hulpmiddelen"

tamponades

Referenties

Results of the Endophthalmitis Vitrectomy Study. A randomized trial of immediate vitrectomy and of intravenous antibiotics for the treatment of postoperative bacterial endophthalmitis. Endophthalmitis Vitrectomy Study Group. *Archives of ophthalmology*. 1995;113:1479-96.

Weijtens O, Schoemaker RC, Romijn FP, Cohen AF, Lentjes EG and Van Meurs JC. Intraocular penetration and systemic absorption after topical application of dexamethasone disodium phosphate. *Ophthalmology*. 2002;109:1887-1891.

Weijtens O, Schoemaker RC, Lentjes EG, Romijn FP, Cohen AF and Van Meurs JC. Dexamethasone concentration in the subretinal fluid after a subconjunctival injection, a peribulbar injection, or an oral dose. *Ophthalmology*. 2000;107:1932-1938.

Weijtens O, Feron EJ, Schoemaker RC, Cohen AF, Lentjes EG, Romijn FP and Van Meurs JC. High concentration of dexamethasone in aqueous and vitreous after subconjunctival injection. *AmJ Ophthalmol*. 1999;128:192-197.

Weijtens O, Schoemaker RC, Cohen AF, Romijn FP, Lentjes EG, van Rooij J and Van Meurs JC. Dexamethasone concentration in vitreous and serum after oral administration. *AmJ Ophthalmol*. 1998;125:673-679.

Weijtens O, van der Sluijs FA, Schoemaker RC, Lentjes EG, Cohen AF, Romijn FP and Van Meurs JC. Peribulbar corticosteroid injection: vitreal and serum concentrations after dexamethasone disodium phosphate injection. *AmJ Ophthalmol*. 1997;123:358-363.

Manning S, Ugahary LC, Lindstedt EW, Wubbels RJ, van Dissel JT, Jansen JTG, Gan I, van Goor AT, Bennebroek CA, van der Werf DJ, Ossewaarde-van Norel A, Mayland Nielsen CC, Tilanus M, van den Biesen PR, Schellekens PA, La Heij E, Faridpooya K, van Overdam K, Veckeneer M and van Meurs JC. A prospective multicentre randomized placebo-controlled superiority trial in patients with suspected bacterial endophthalmitis after cataract surgery on the adjuvant use of intravitreal dexamethasone to intravitreal antibiotics. *Acta ophthalmologica*. 2018;96:348-355.

Gan IM, Ugahary LC, van Dissel JT and Van Meurs JC. Effect of intravitreal dexamethasone on vitreous vancomycin concentrations in patients with suspected postoperative bacterial endophthalmitis. *Graefes Arch Clin Exp Ophthalmol*. 2005;243:1186-1189.

Gan IM, Ugahary LC, van Dissel JT, Feron E, Peperkamp E, Veckeneer M, Mulder PG, Platenkamp GJ and Van Meurs JC. Intravitreal dexamethasone as adjuvant in the treatment of postoperative endophthalmitis: a prospective randomized trial. *Graefes Arch Clin Exp Ophthalmol*. 2005;243:1200-1205.

Ugahary L, van de SW, Van Meurs JC and van Belkum A. An unexpected experimental pitfall in the molecular diagnosis of bacterial endophthalmitis. *J Clin Microbiol*. 2004;42:5403-5405.
Gan IM, van Dissel JT, Beekhuis WH, Swart W and Van Meurs JC. Intravitreal vancomycin and gentamicin concentrations in patients with postoperative endophthalmitis. *Br J Ophthalmol*. 2001;85:1289-1293.

Veckeneer MA, de Voogd S, Lindstedt EW, Menz DH and Van Meurs JC. An epidemic of sticky silicone oil at the Rotterdam Eye Hospital. Patient review and chemical analyses. *Graefes Arch Clin Exp Ophthalmol*. 2008;246:917-922.

van Bronswijk H, Dubois EA, Van Meurs JC and Cohen AF. [New drugs; pegaptanib and ranibizumab]. *Ned Tijdschr Geneesk*. 2008;152:82-84.

van Meurs JC and Wolf S. Towards Better Safety Standards for Vitreoretinal Medical Devices. *Ophthalmologica Journal internationale d'ophtalmologie International journal of ophthalmology Zeitschrift für Augenheilkunde*. 2018;240:235.

van Meurs JC and van Dissel JTJ. Another perspective on the treatment of postoperative endophthalmitis: Unclear evidence for the role of vitrectomy. *Acta ophthalmologica*. 2018.

Menz DH, Feltgen N, Menz H, Müller BK, Lechner T, Dresch J and Hoerauf H. How to Ward Off Retinal Toxicity of Perfluorooctane and Other Perfluorocarbon Liquids? *Investigative ophthalmology & visual science*. 2018;59:4841-4846.