

Ögontrauma

<http://extw.ophthalmology.uu.local/Teaching/DiseaseRepairNeuroOphthalmology/index.html>



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Per Söderberg



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Mekanisk skada

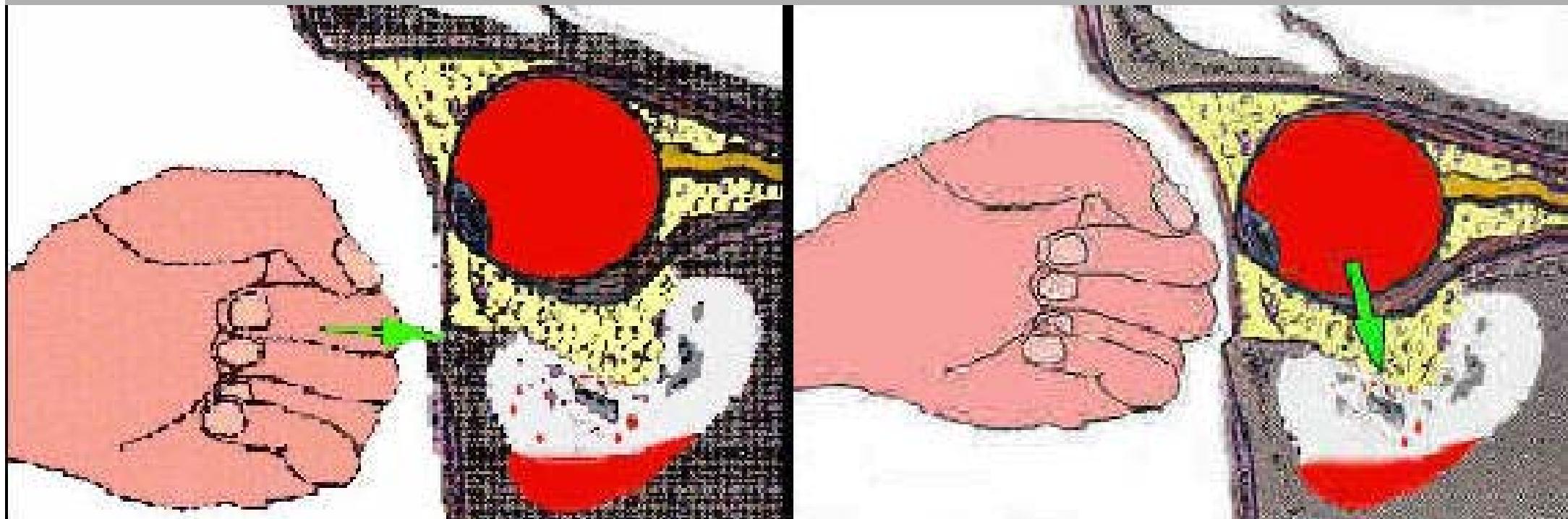
- Trubbigt våld
- Penetrerande våld

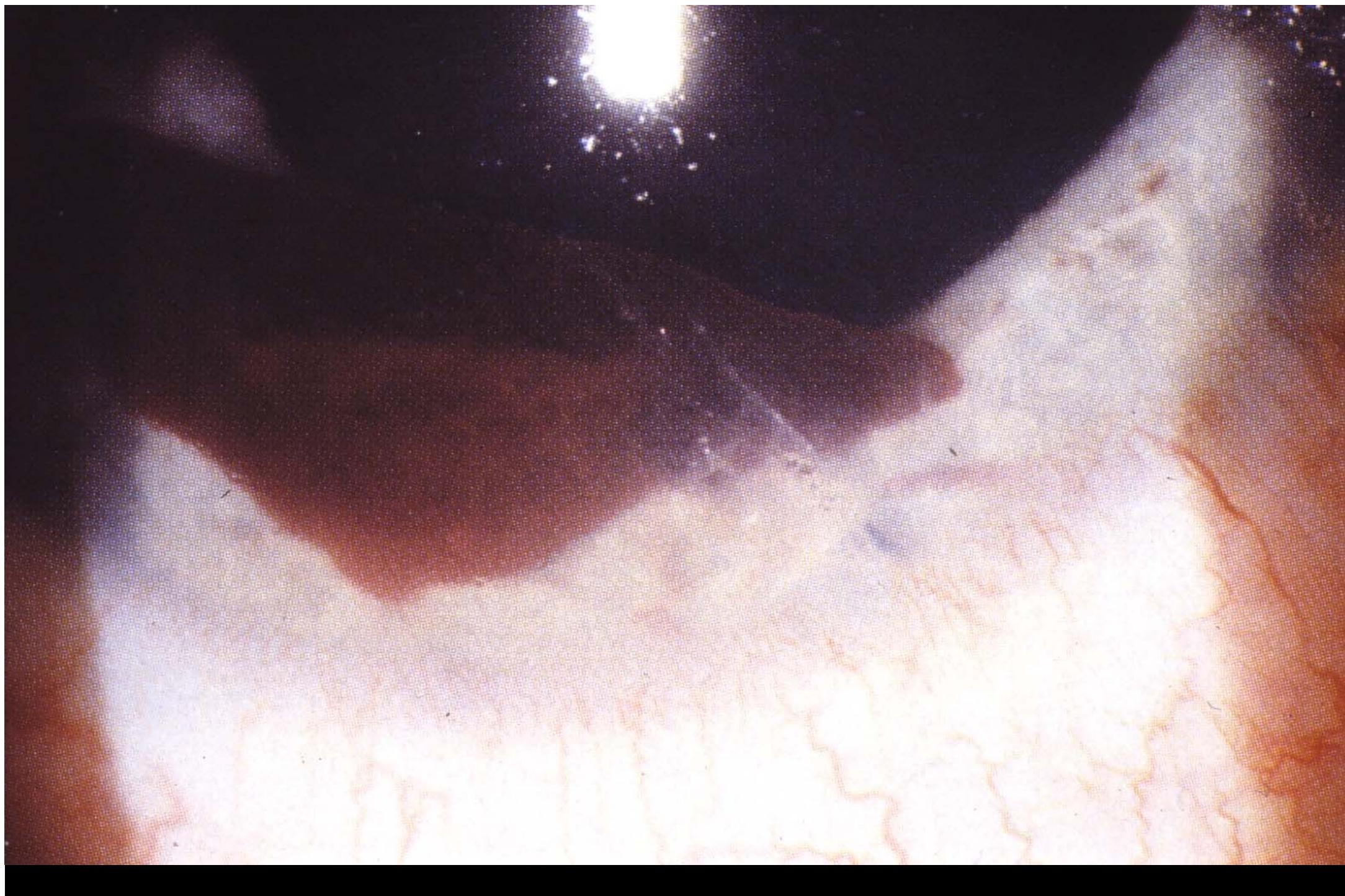
Trubbig våld

□ Trubbigt slag mot ögat

- Orbitabottenfraktur – Blow out fraktur
Nedsatt elevation – diplopi vid blick uppåt
Utredn.: Rtg orbitagolv, CT
Beh: Kirurgisk reposition
- Blod i främre kammaren
Nedsatt syn
Beh: Resorberas spontant
- Irisdialys
Ev. diplopi
Beh: Ev. kir. Reparation

Blow out fracture

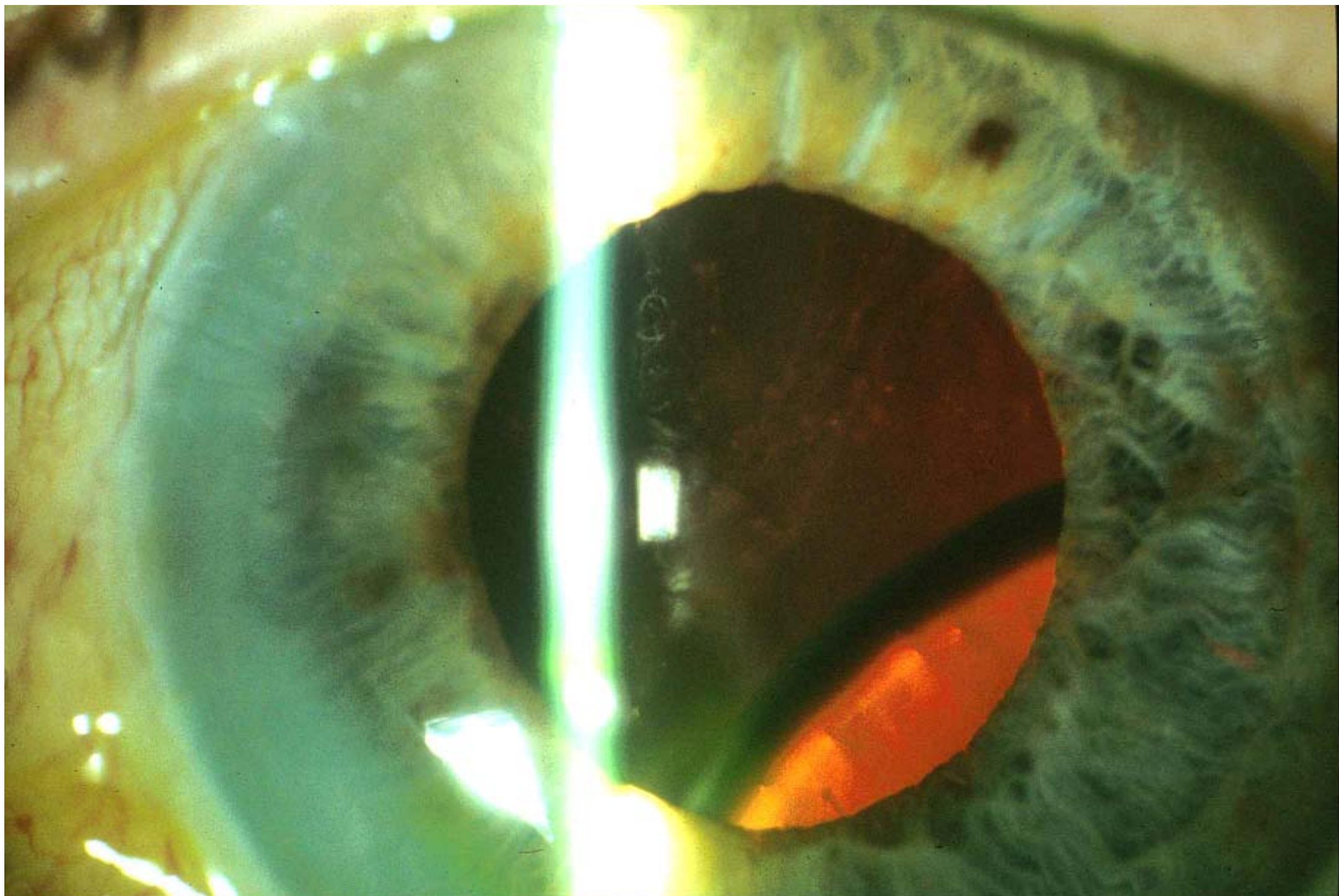


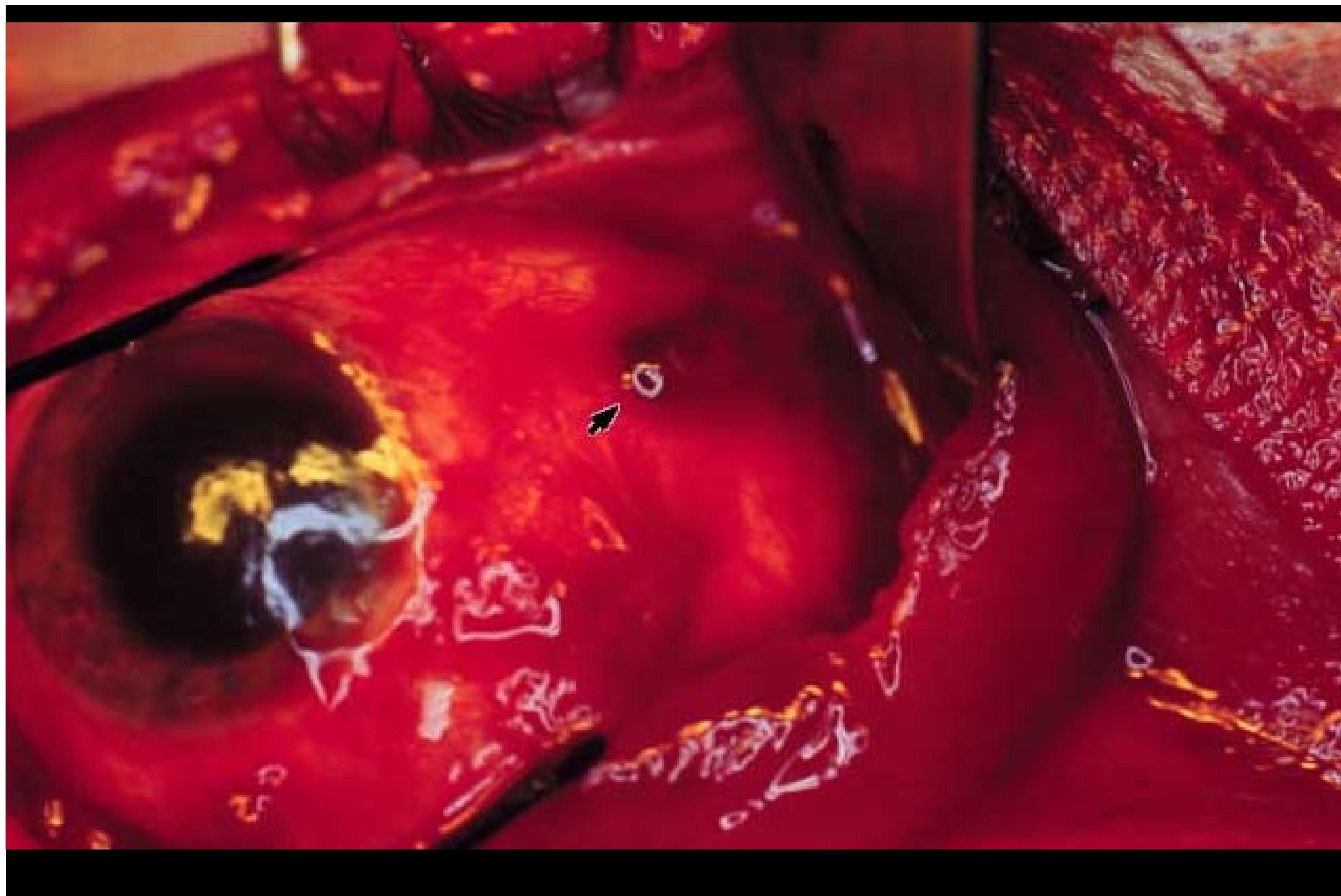


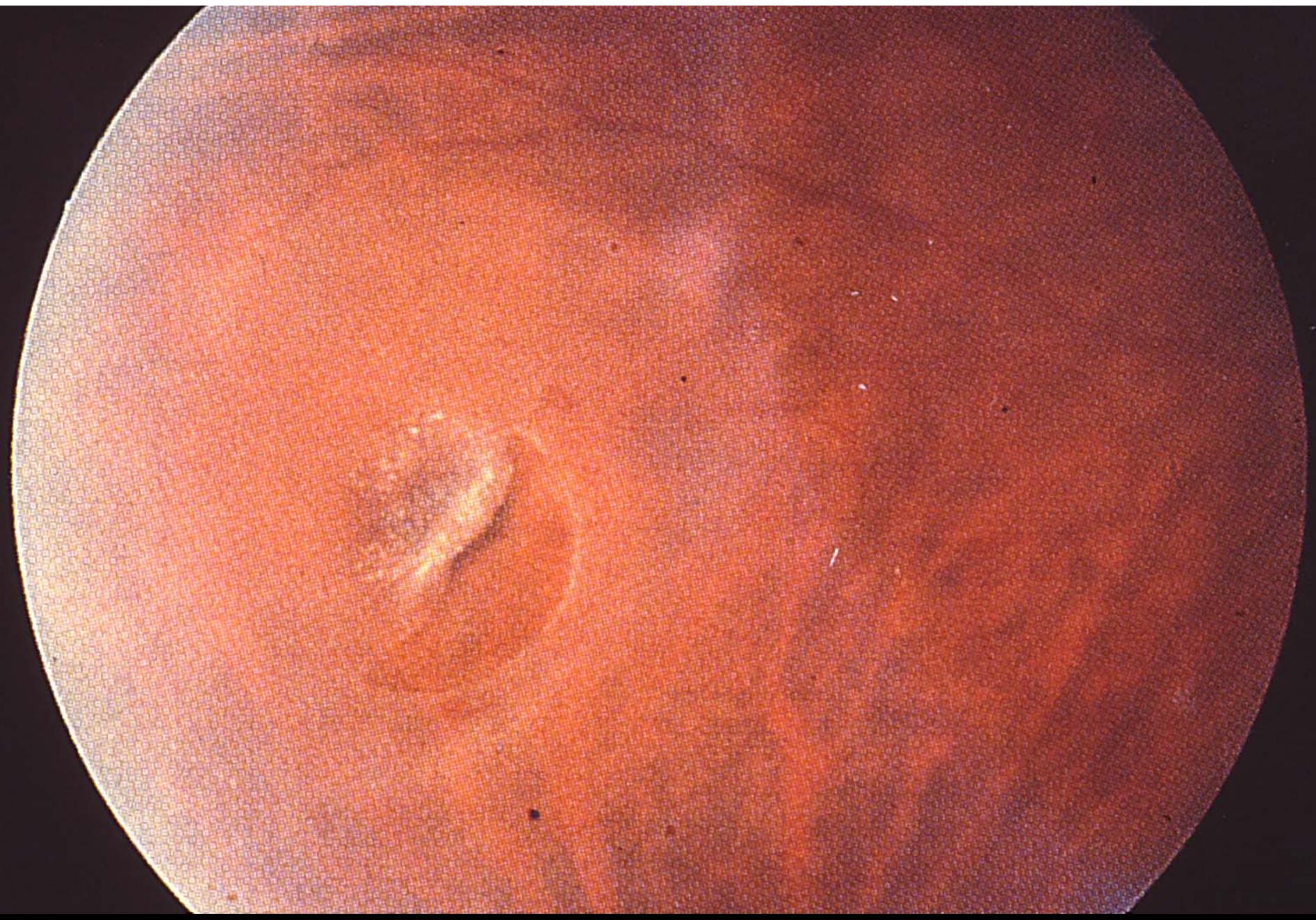


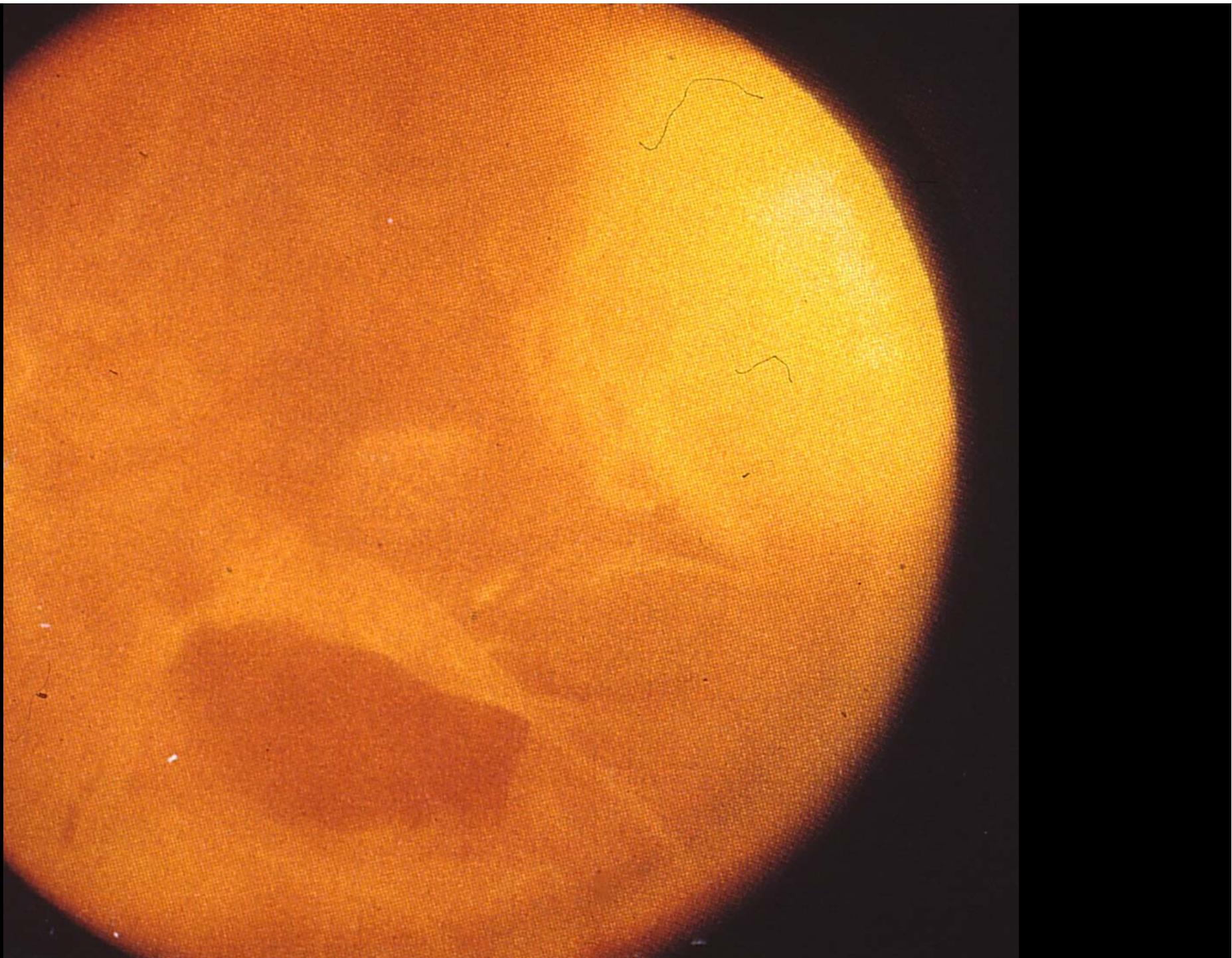
Trubbig våld

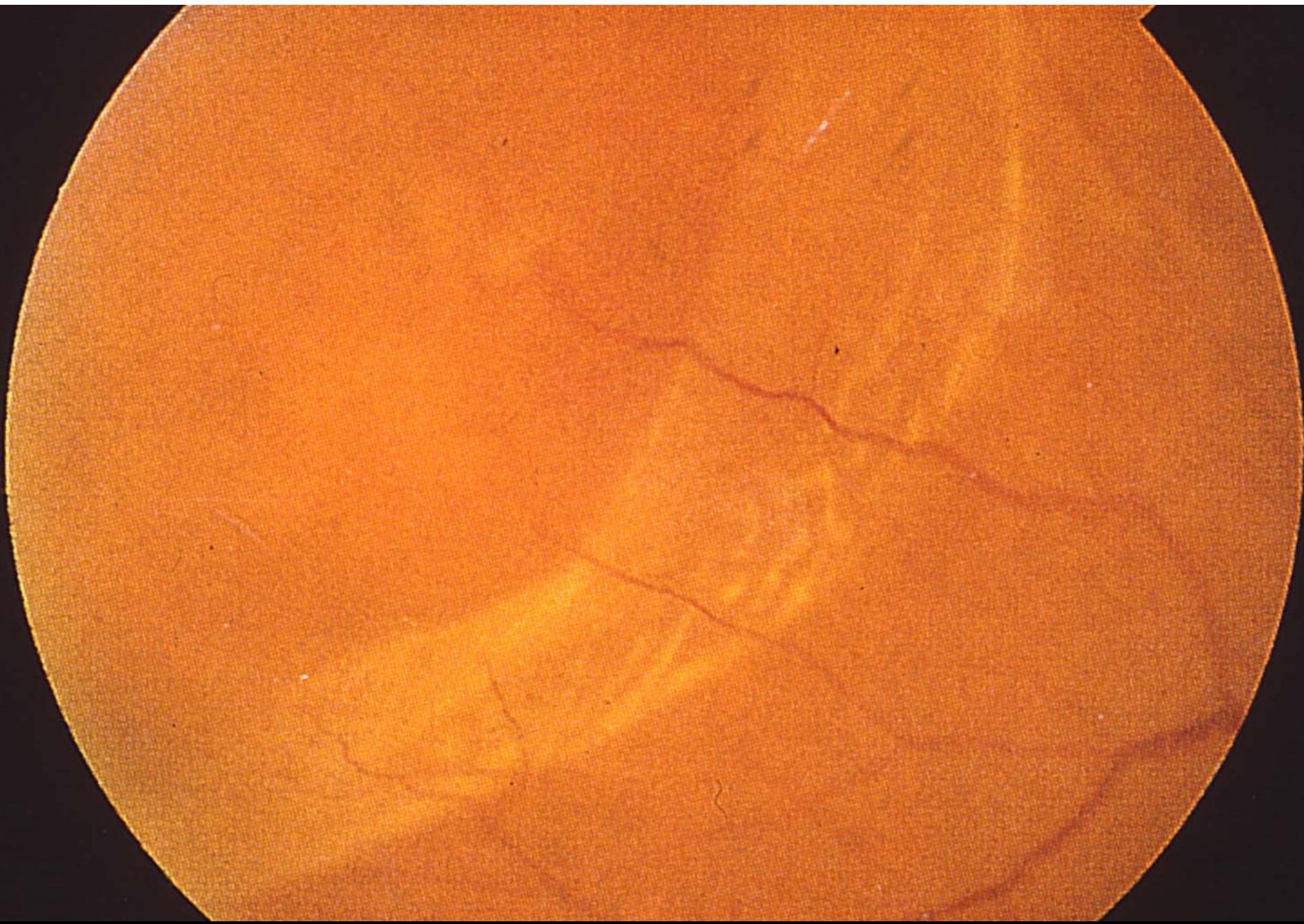
- Trubbigt slag mot ögat
 - Makulaödem
Nedsatt syn
Beh: Vanligen spontan regress
 - Linsluxation
Suddig syn som förbättras med + 12 D
Beh: Kataraktoperation med implantation IOL
 - Scleralruptur
Hypotont öga
Generell blödning till konjunktiva
Beh: Kirurgisk reparation
 - Amotio
Nedsatt syn
Beh: Kirurgiskkorrektion











Cornea erosion

Symtom

- Smärta, ljuskänslighet, nedsatt syn

Beh

- Vanligen spontan regress inom 1 dygn

Komplikationer

- Infektion
- Recurrent ulcer

Pentererande våld



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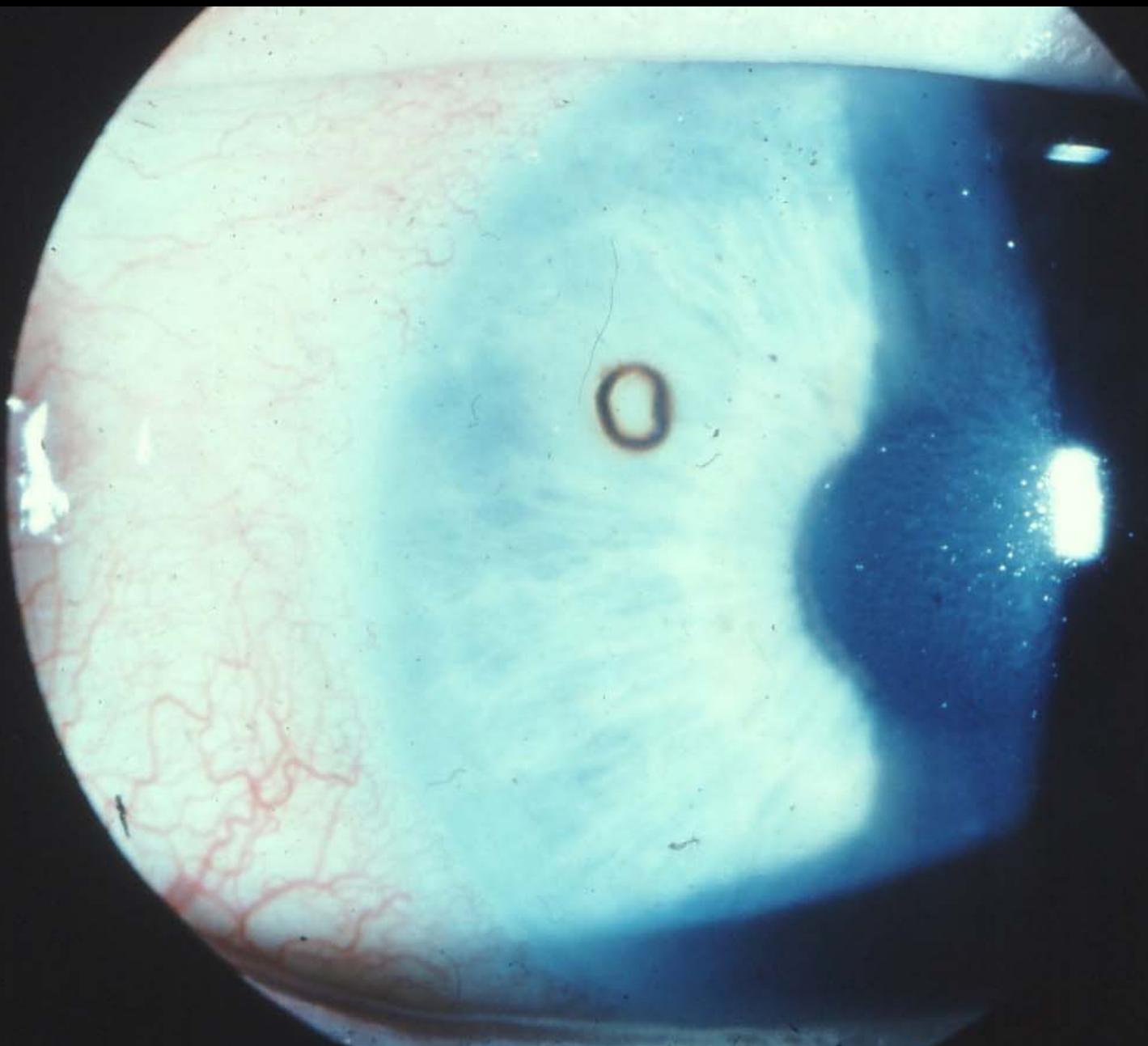
Främmade kropp

Ljuskänslighet, synnedsättning, skavskänsla

Behandling

Avlägsnande i ytanestesi

Viktigt att göra ordentligt rent!



Perforation

Anamnes!

Slagit med stål mot stål, känt att något slog mot ögat

Utredning!

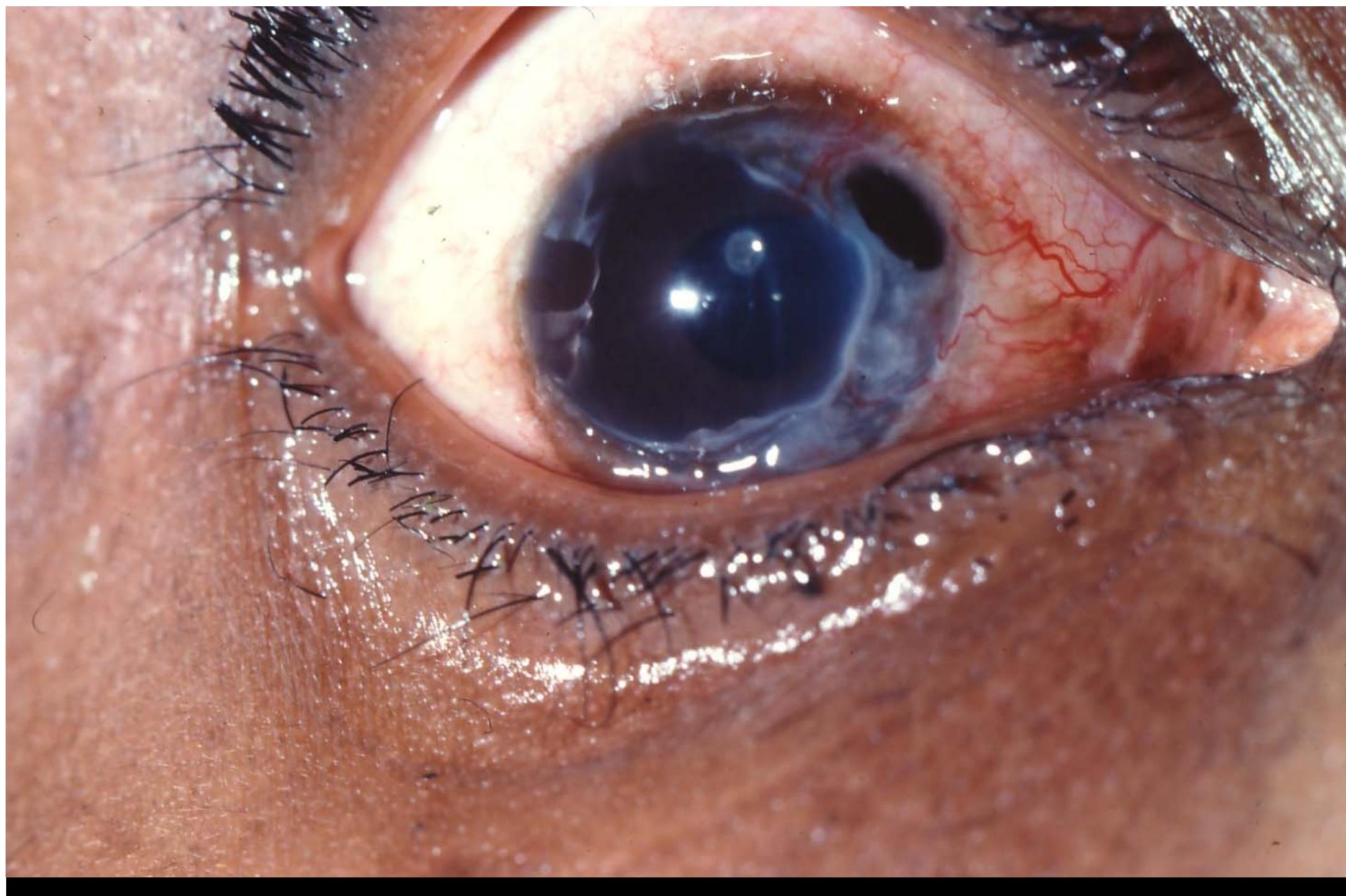
Slätrtg

Behandling

Extraktion främmende kropp

Kir. reparation

Antibiotika i.v.



Corneal laceration

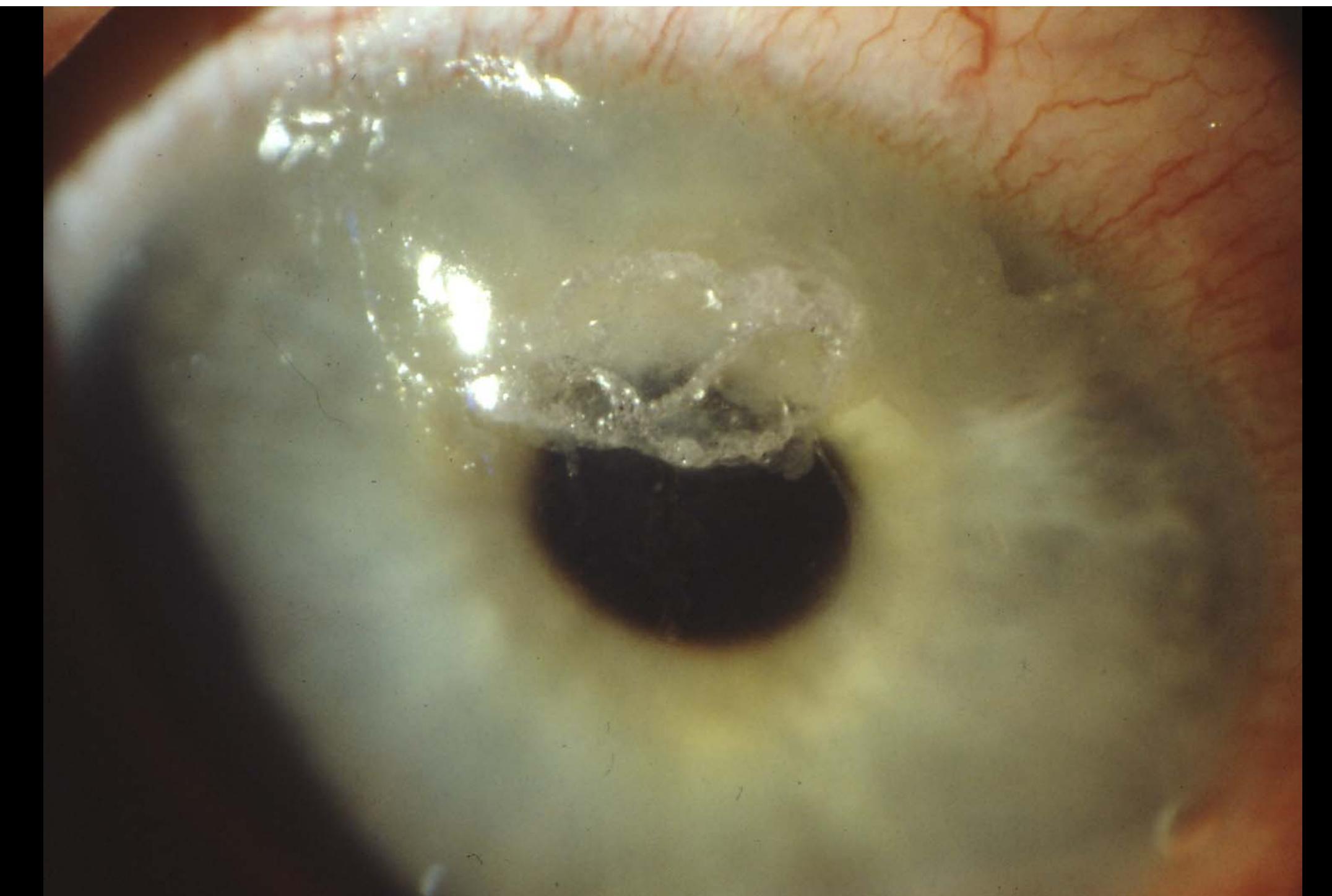
Nedsatt visus

Hypotoni

Kirurgisk slutning

- Limma

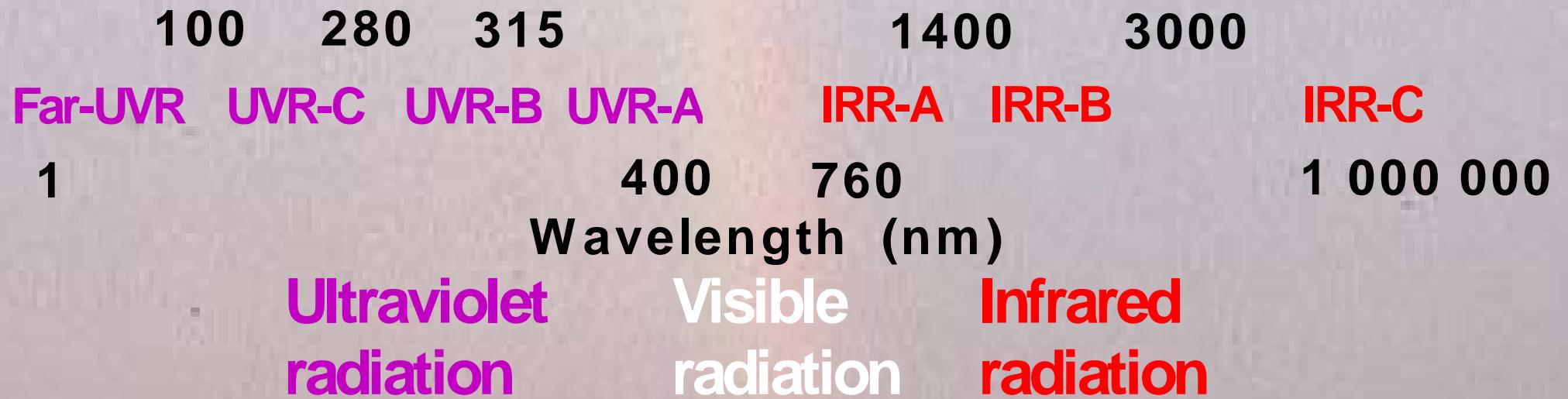
- Suturering

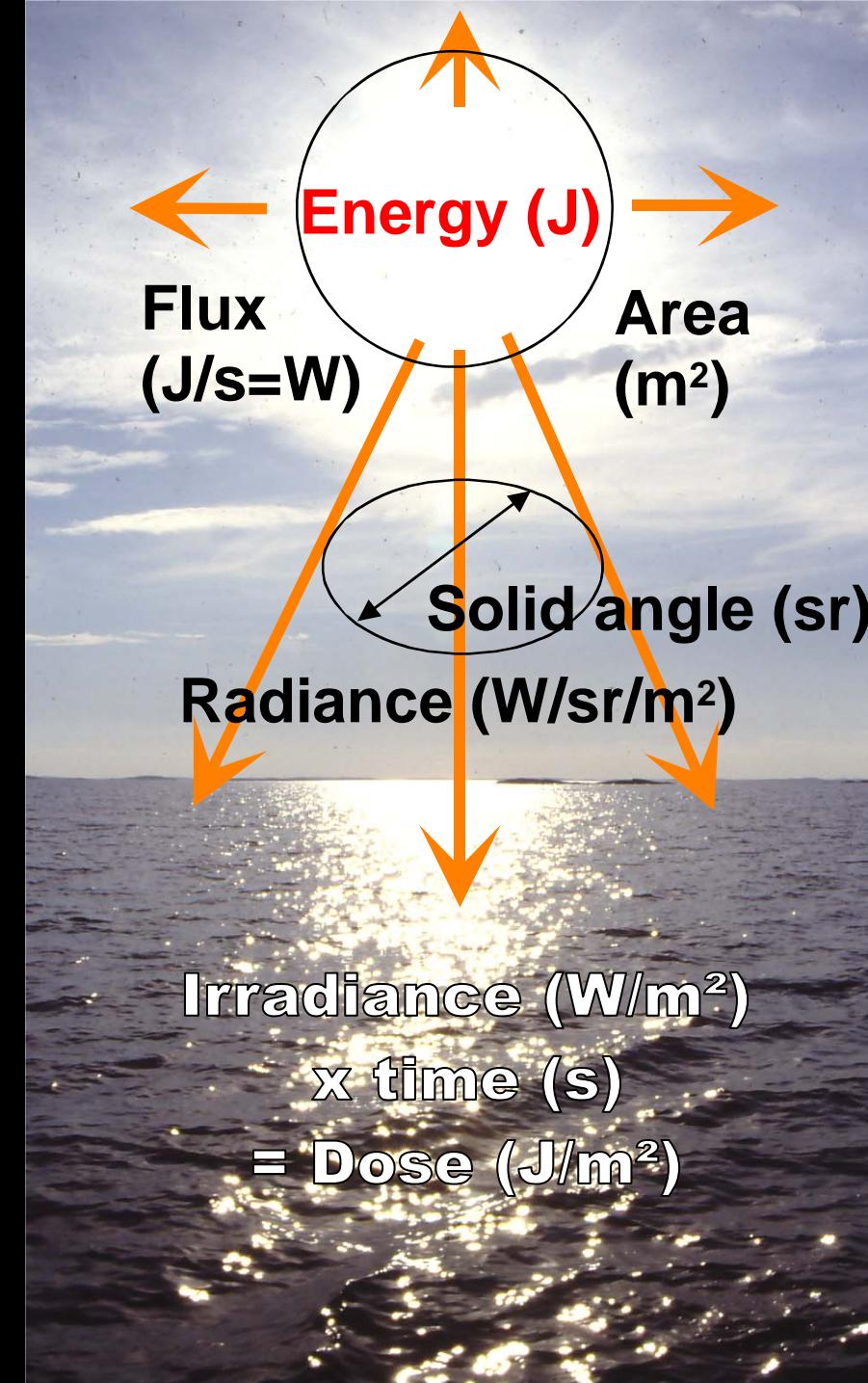


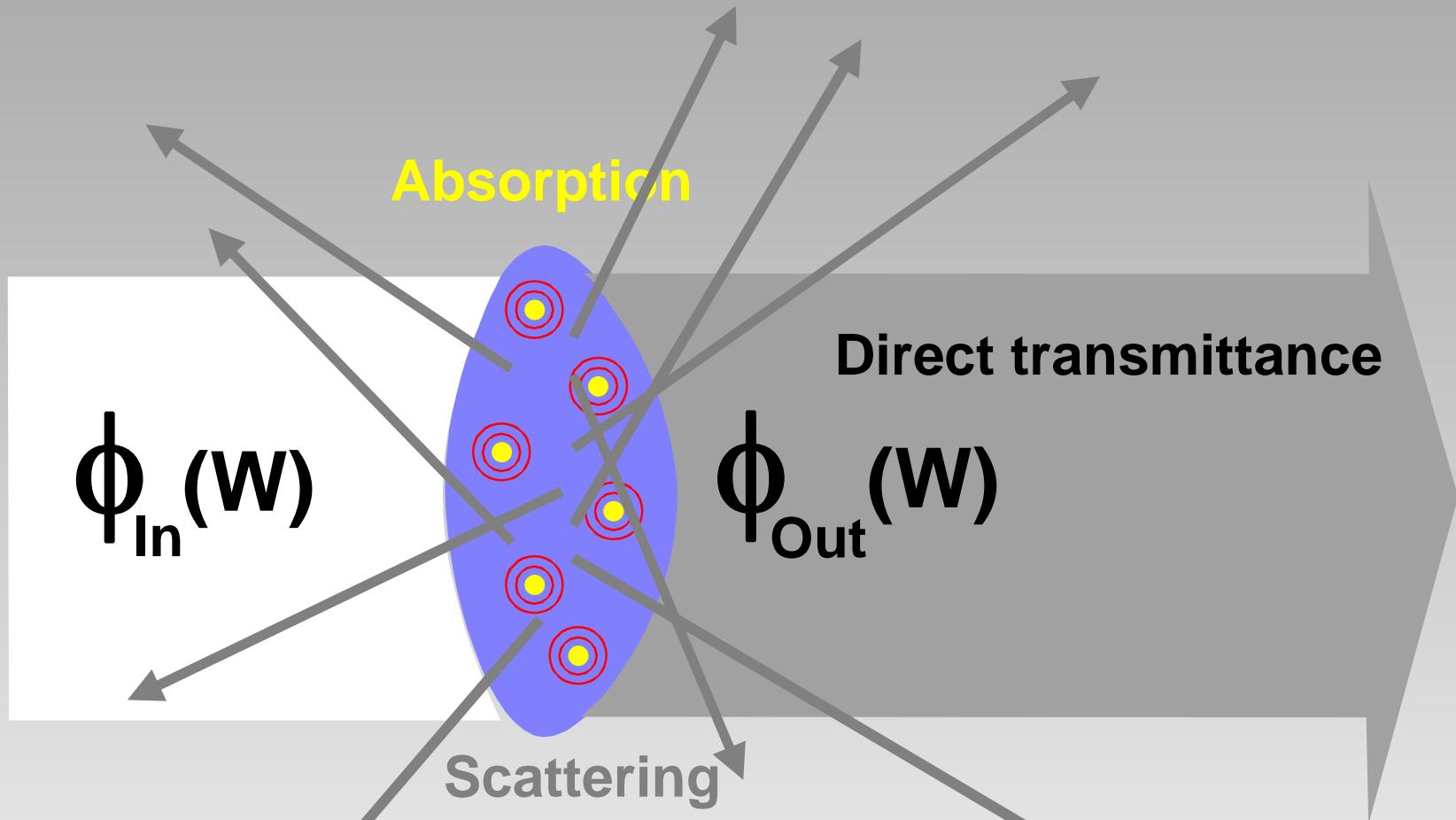
Strålningsskada



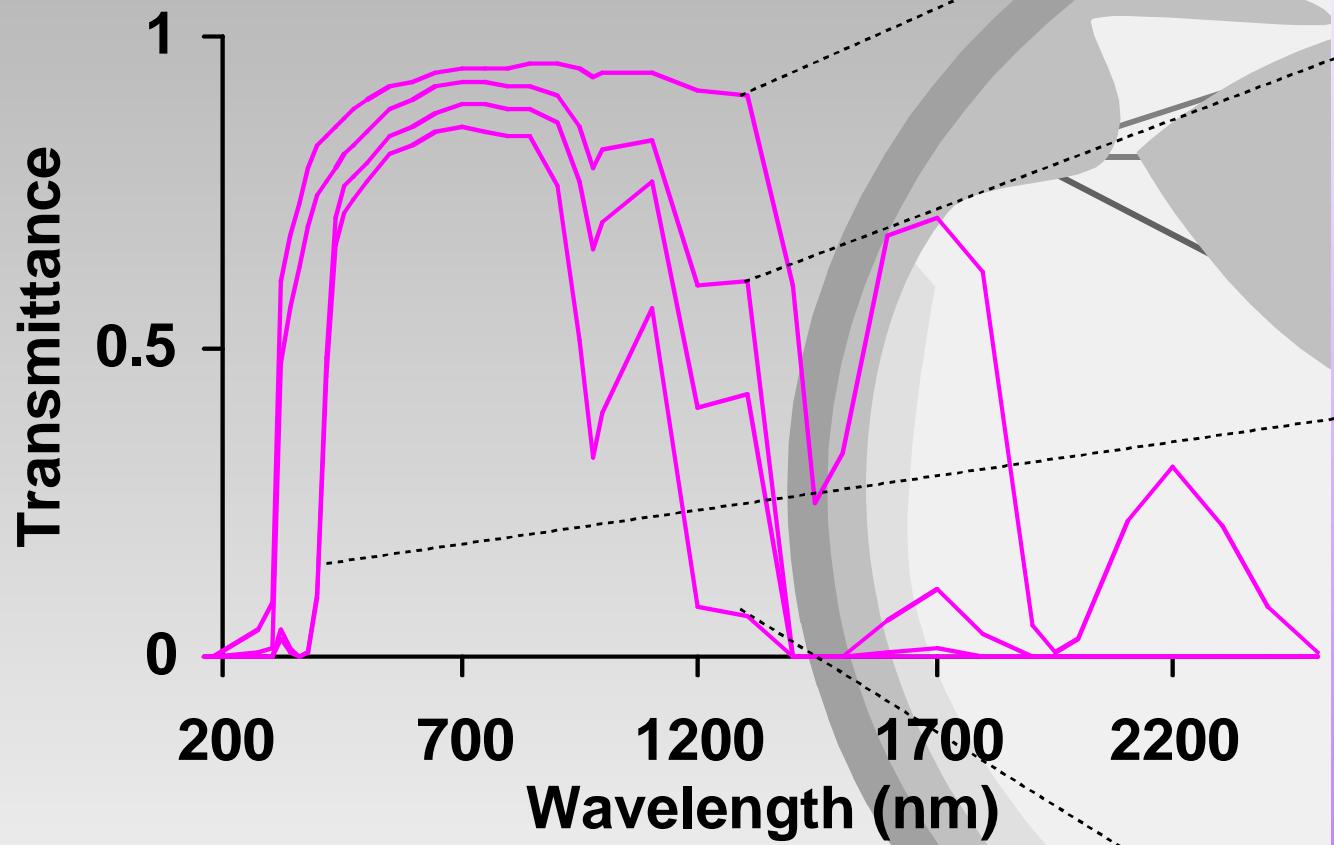
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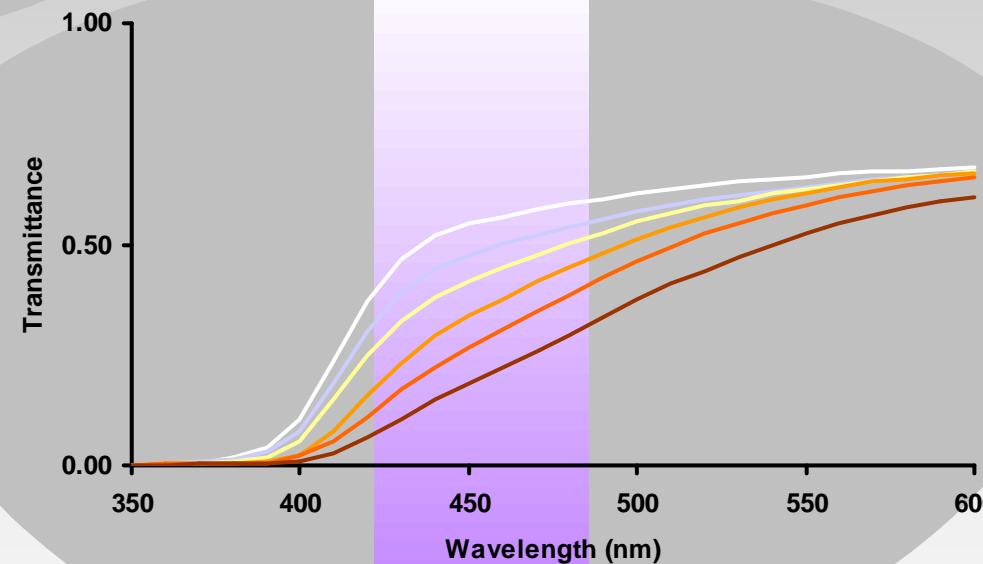
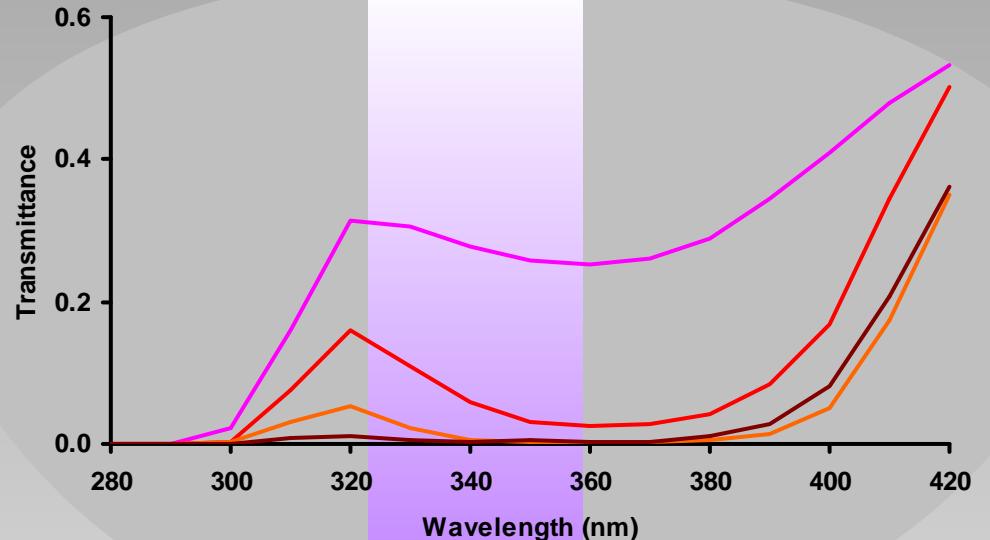
$$\text{Transmittance, } T (\%) = \frac{\phi_{Out}}{\phi_{In}} ; 10^{-\text{Absorbance}}; 10^{-\text{O.D.}}$$



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Boettner et al, 1962

S:T ERIKS
ÖGON
SJUKHUS



Barker, unpublished

PS

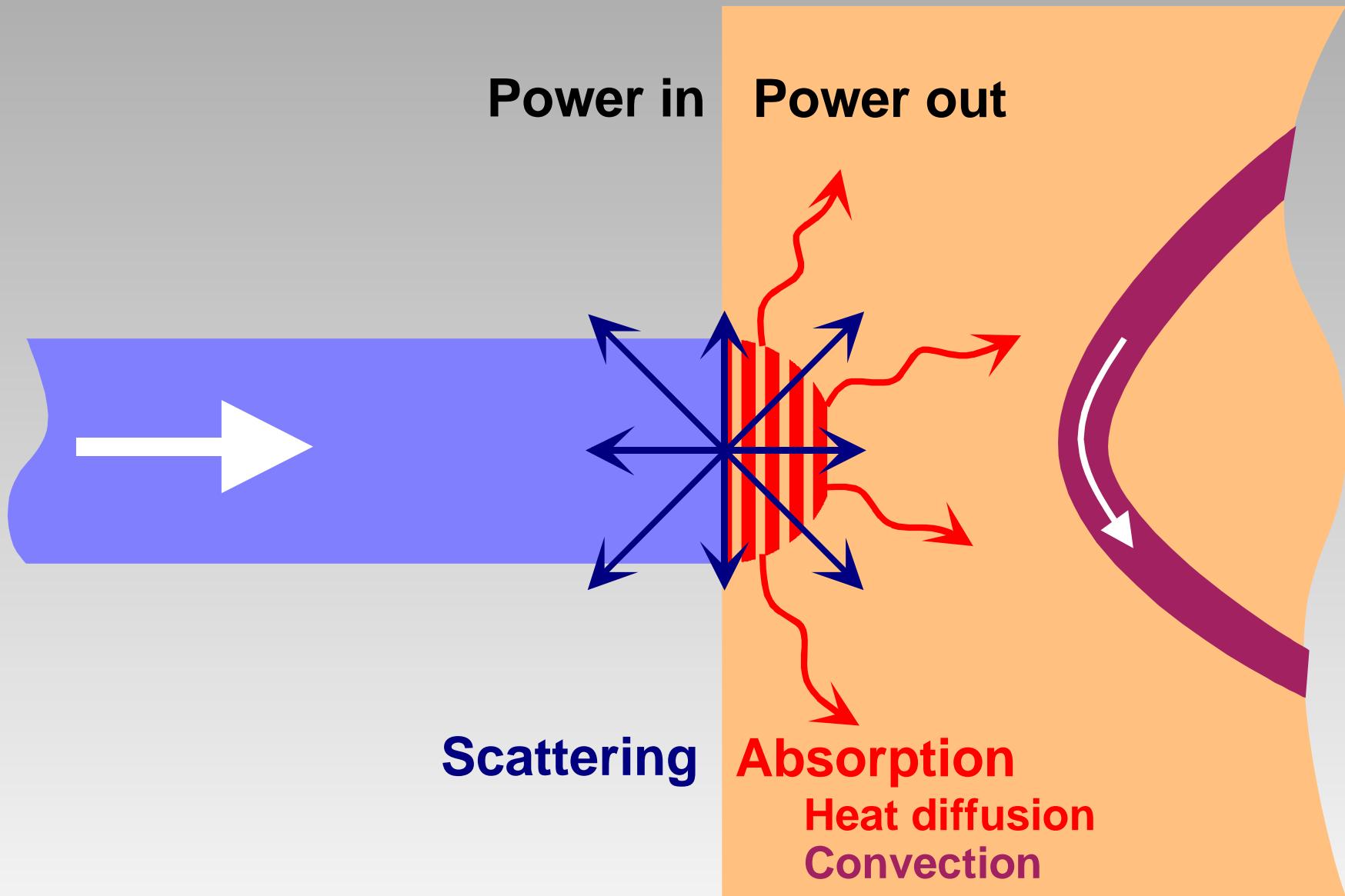
S:T ERIKS
ÖGON
SJUKHUS

Fotobiologisk reaktion

**En biologisk effekt som uppkommer pga
förändrade egenskaper hos en biomolekyl som
har ändrats av optisk strålning**

- Förutsättning: (Fotokemins första lag)

Optisk strålning har absorberats

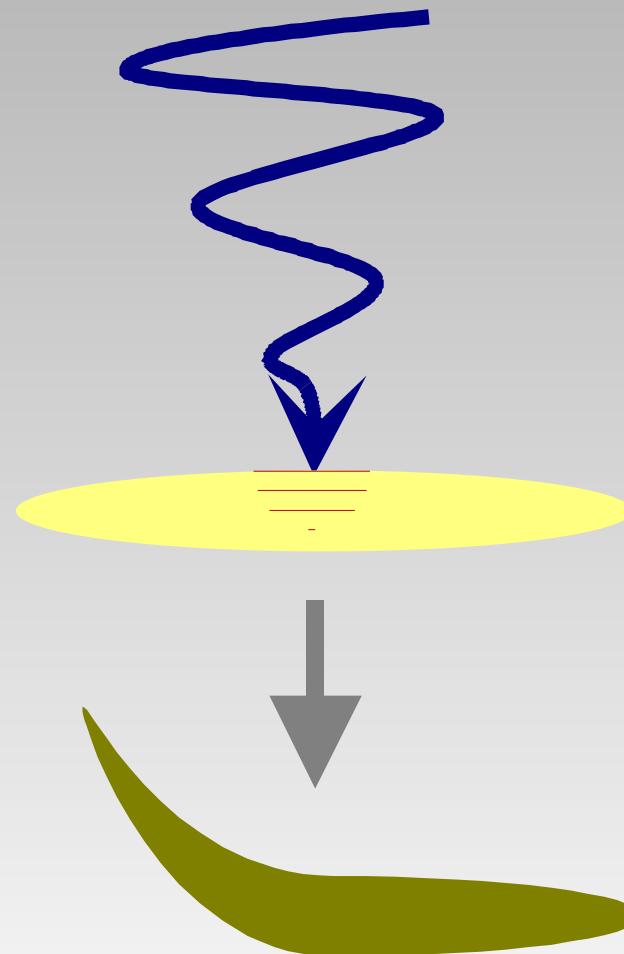


Photochemical damage

Irradiation

Absorption

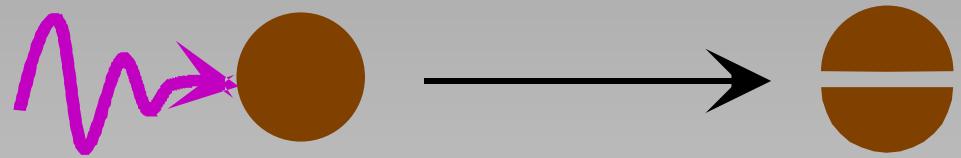
Molecular change



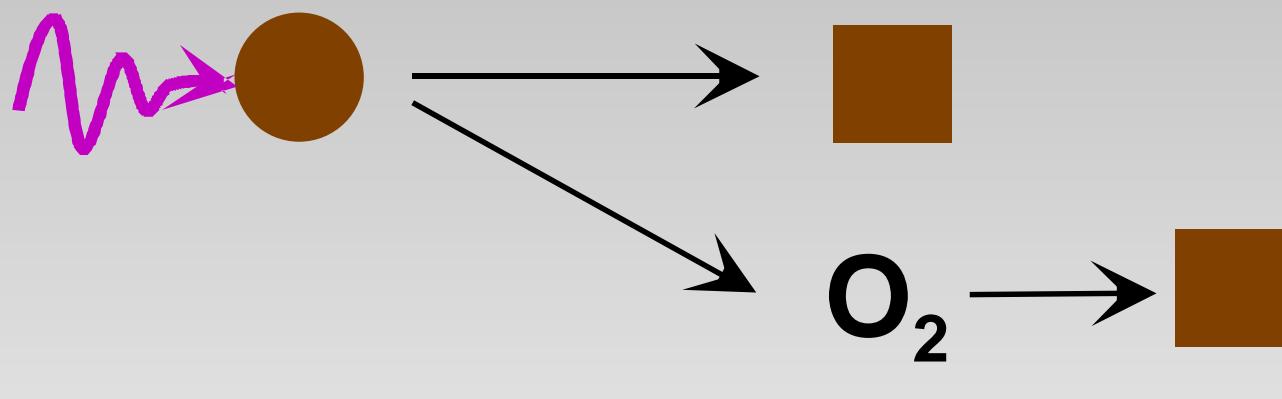
Reciprocity condition

VOS ENFANTS RISQUENT DE PAYER CHER
UNE EXPOSITION PROLONGÉE AU SOLEIL.





Phototoxic



Photosensitized

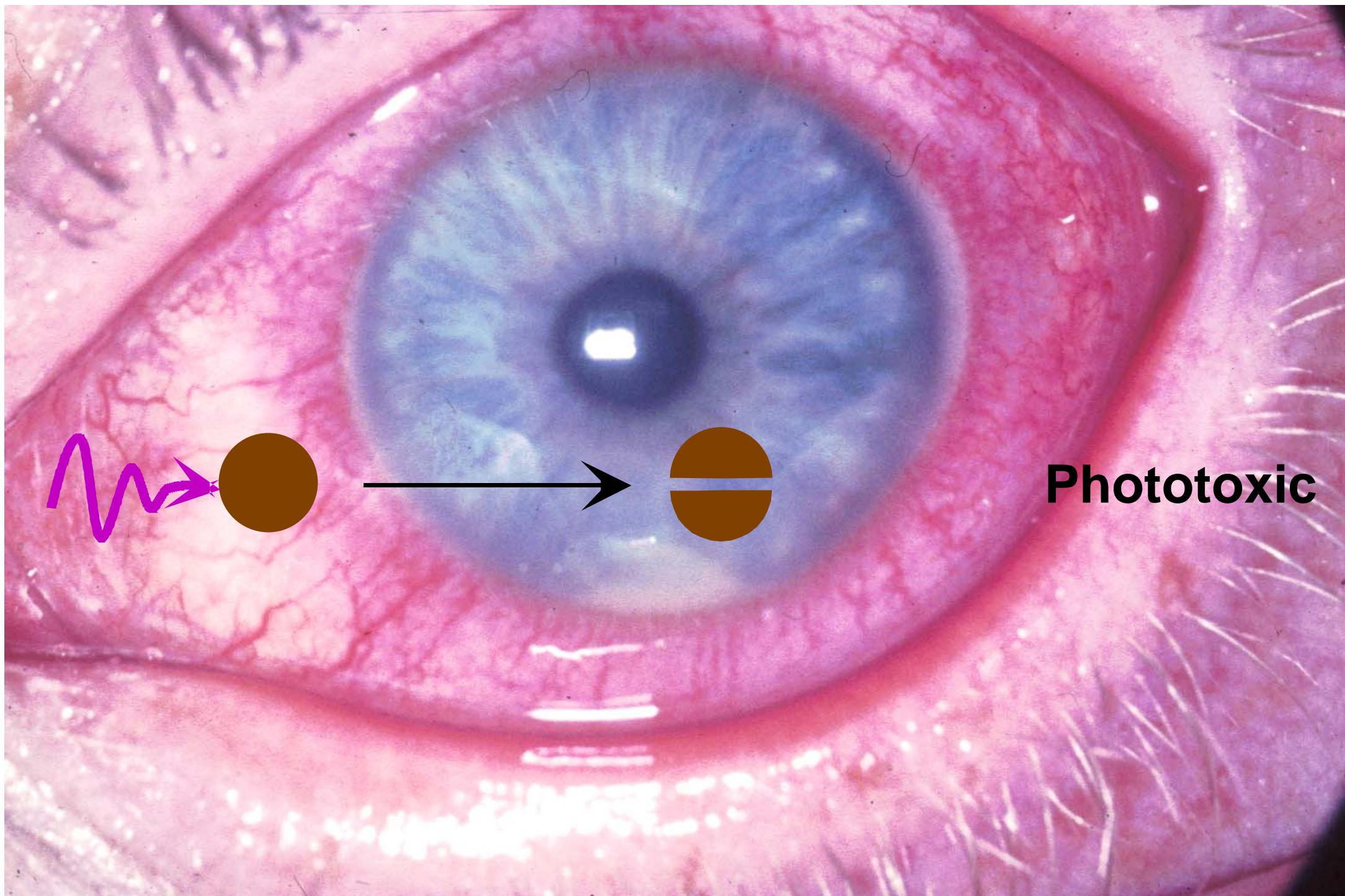
Type I

**Type II
(Photodynamic)**



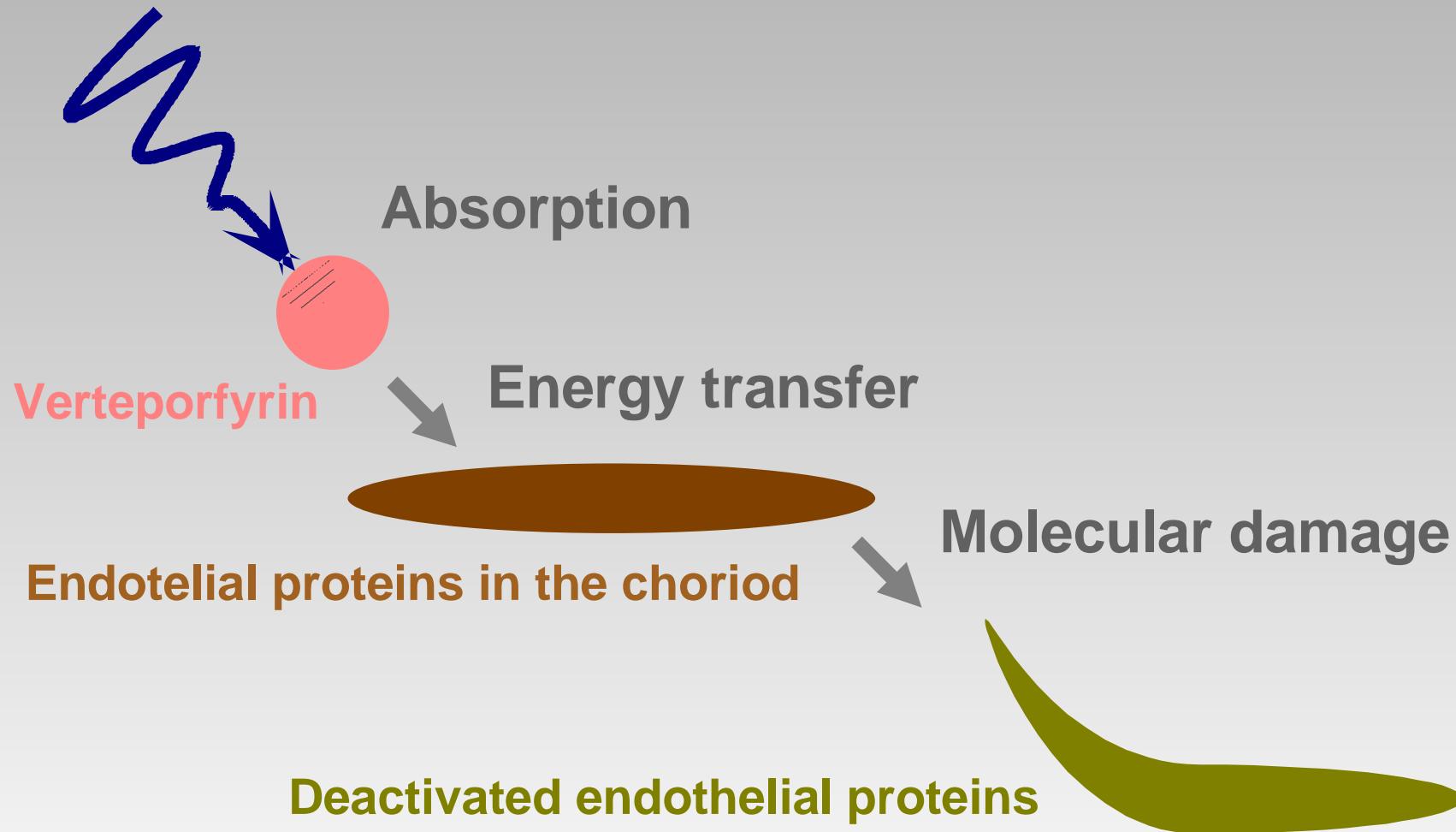
Photoallergic

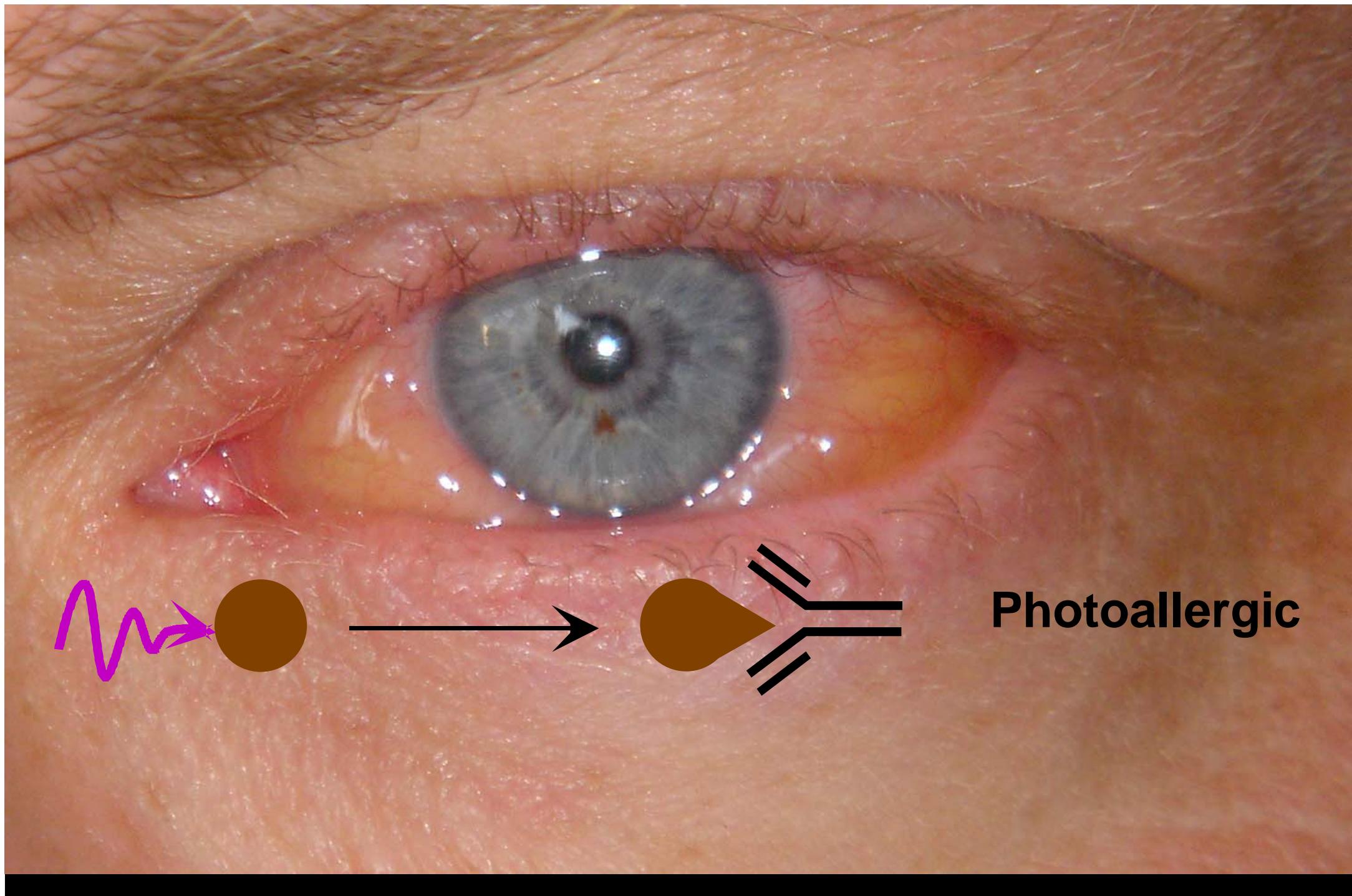
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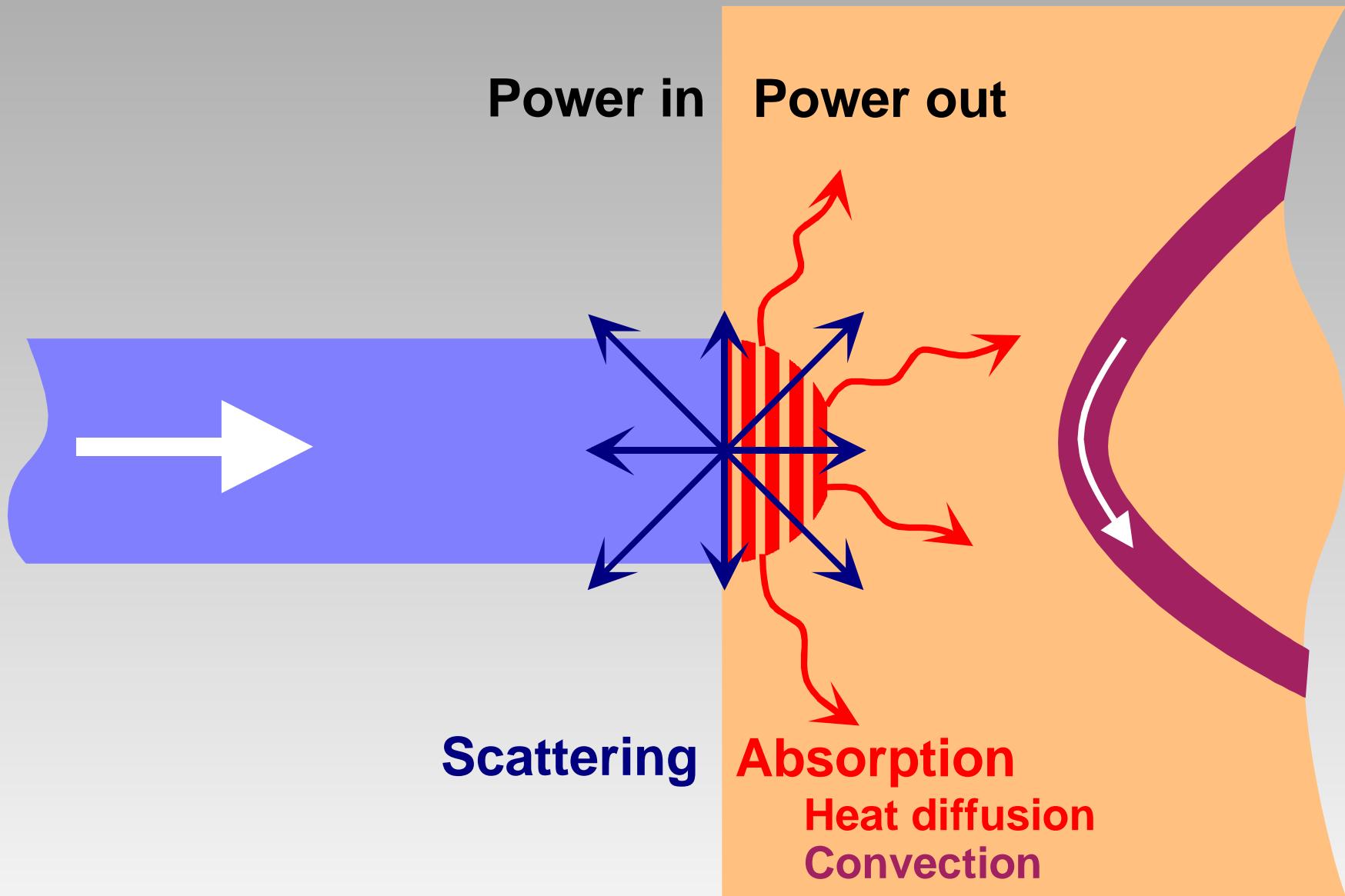


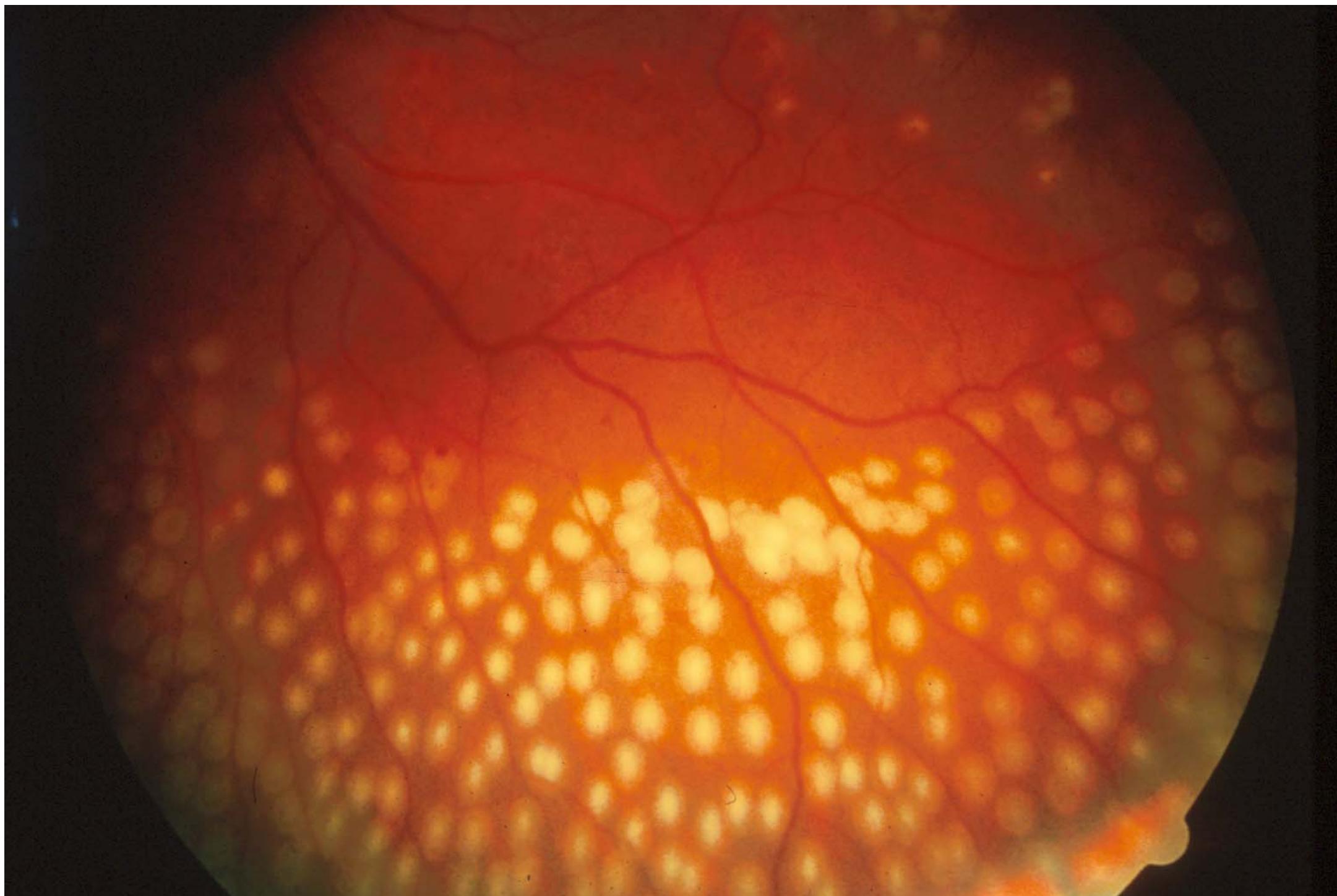
Phototoxic

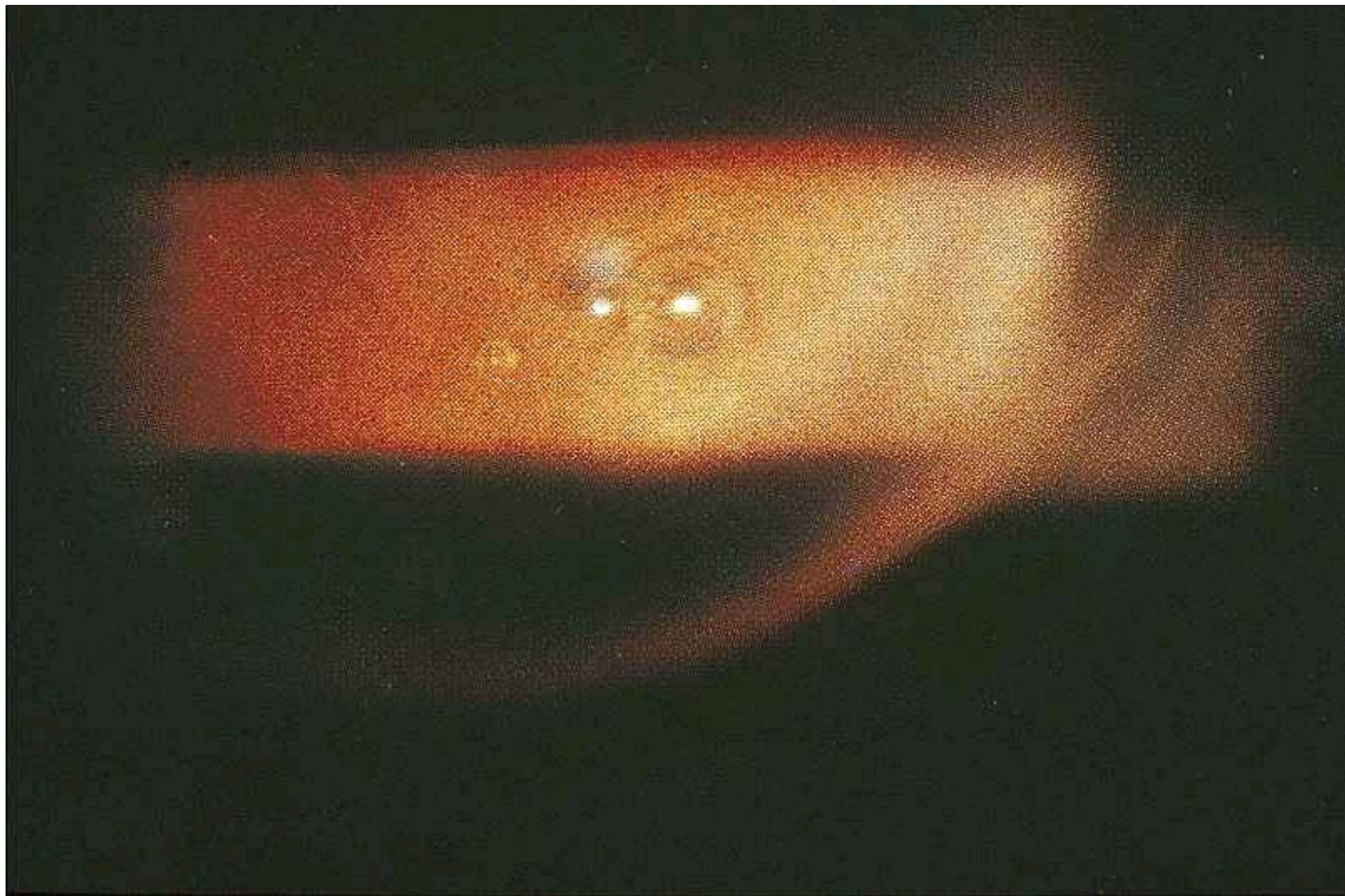
Photosensitized damage



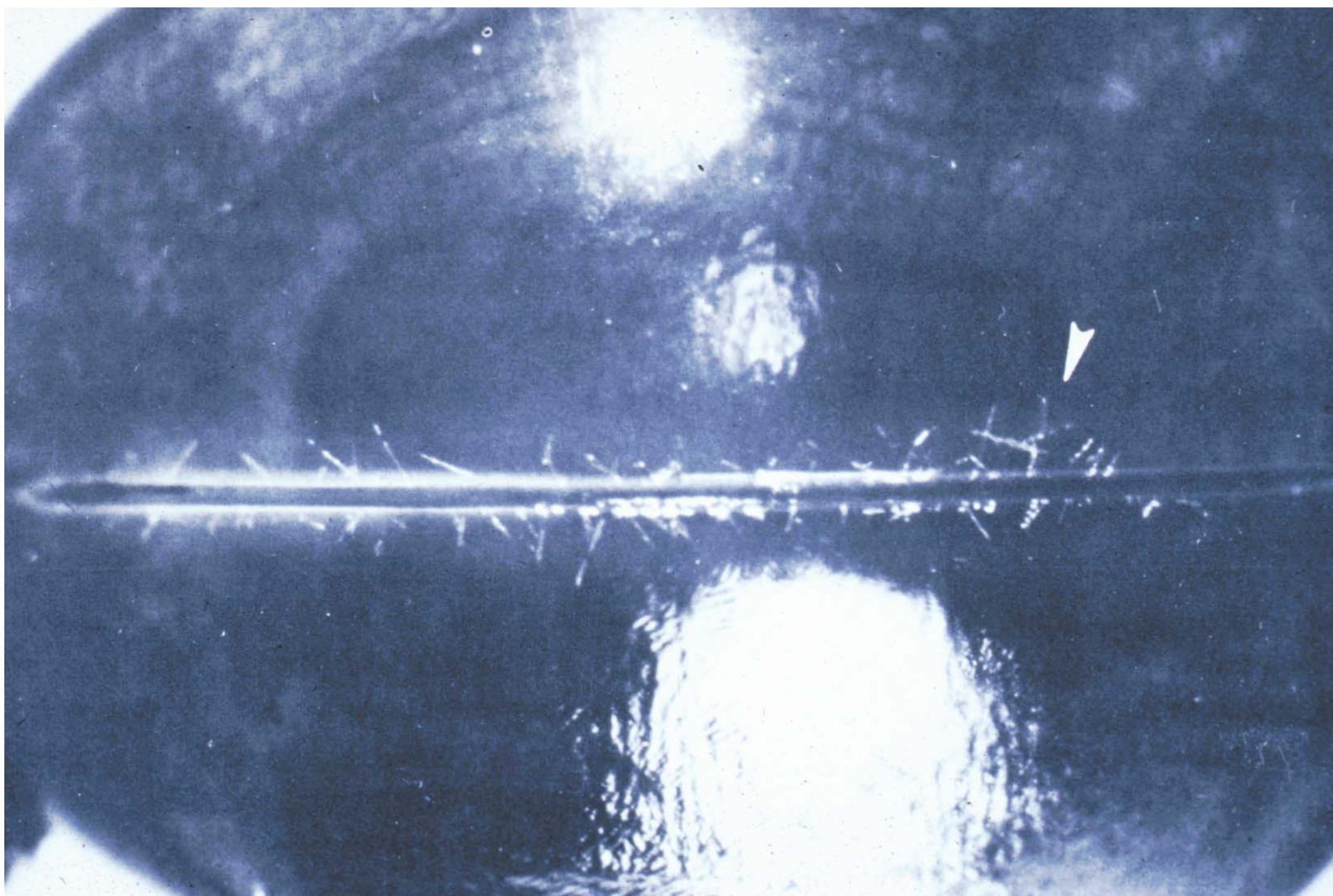














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