GLAUCOMA DRAINAGE IMPLANTS COMPLICATIONS & CHALLENGES

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Complications of Glaucoma Drainage Implants

Intraoperative

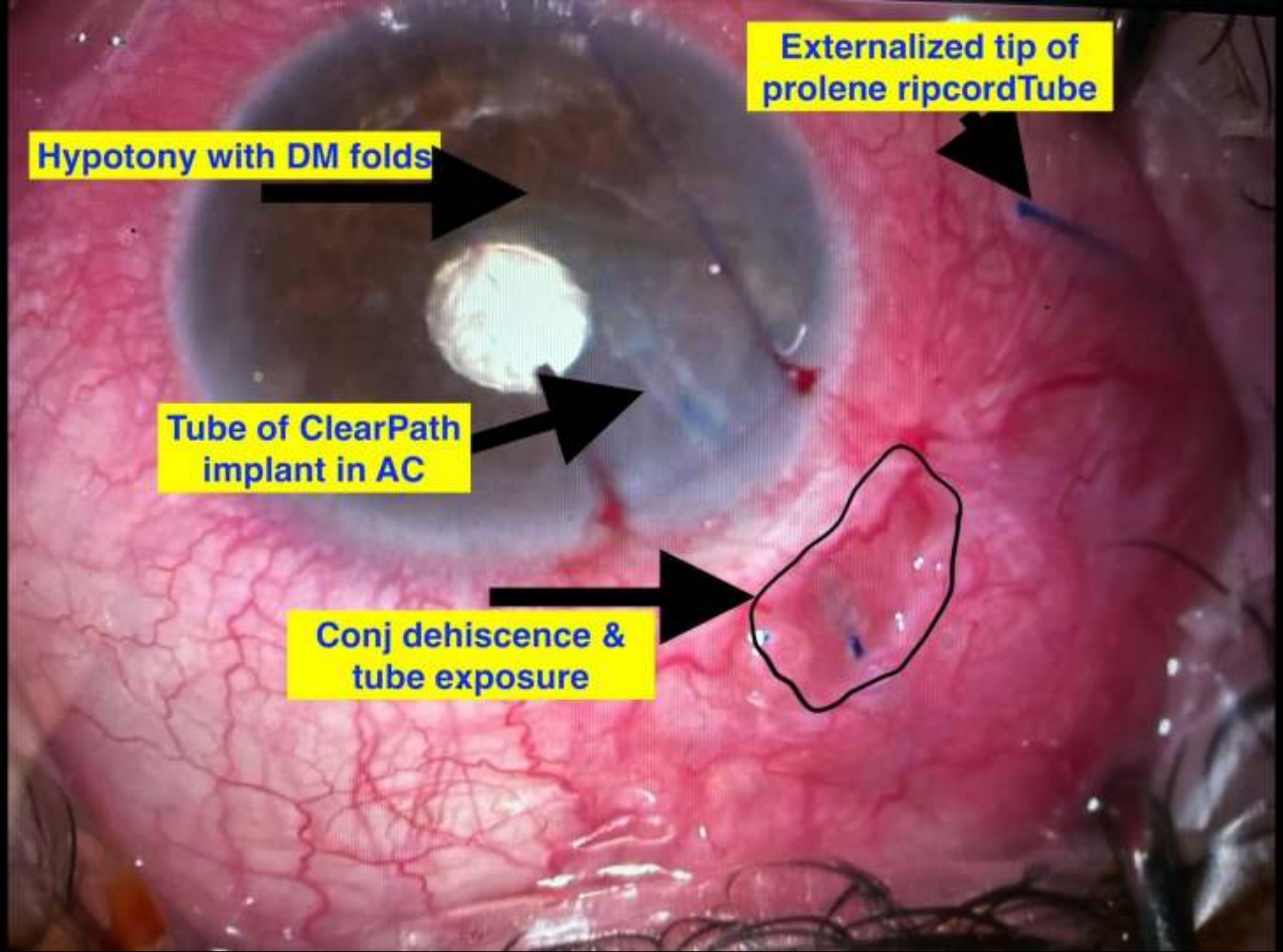
- Too large entry opening (leakage around the tube with hypotony) Iris, cornea, or lens damage
- Corneal entry of the anterior chamber tube
- Scleral perforation (during implant fixation
- Hyphema
- Ciliary body separation, and bleeding with sulcus insertion

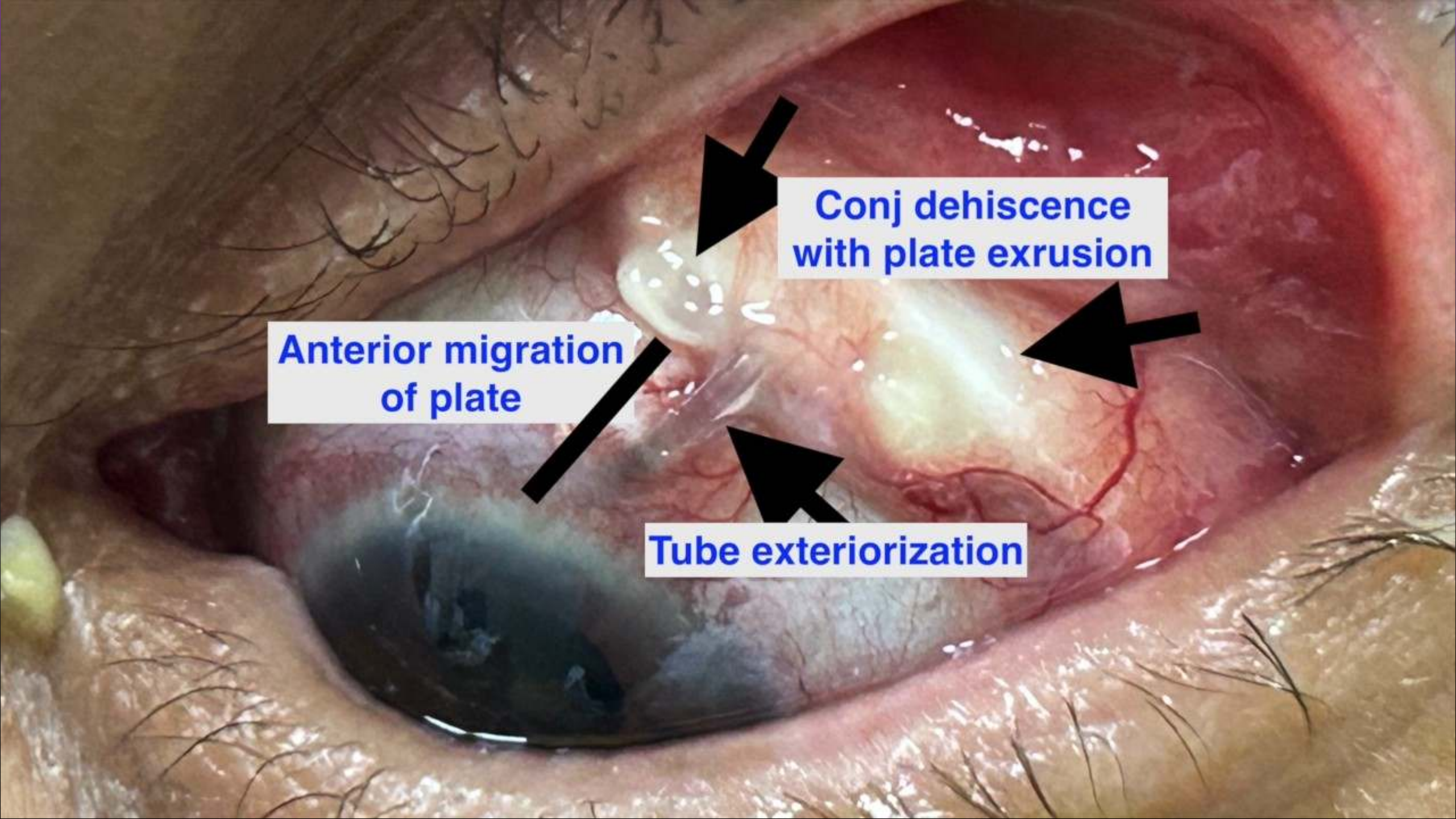
Early postoperative

- Excessive filtration
- Tube blockage with iris, vitreous, blood, or fibrin
- Early postoperative elevation of intraocular pressure
- Intraocular infllammation
- Malignant glaucoma
- Hyphema
- Vitreous hemorrhage
- Suprachoroidal hemorrhage

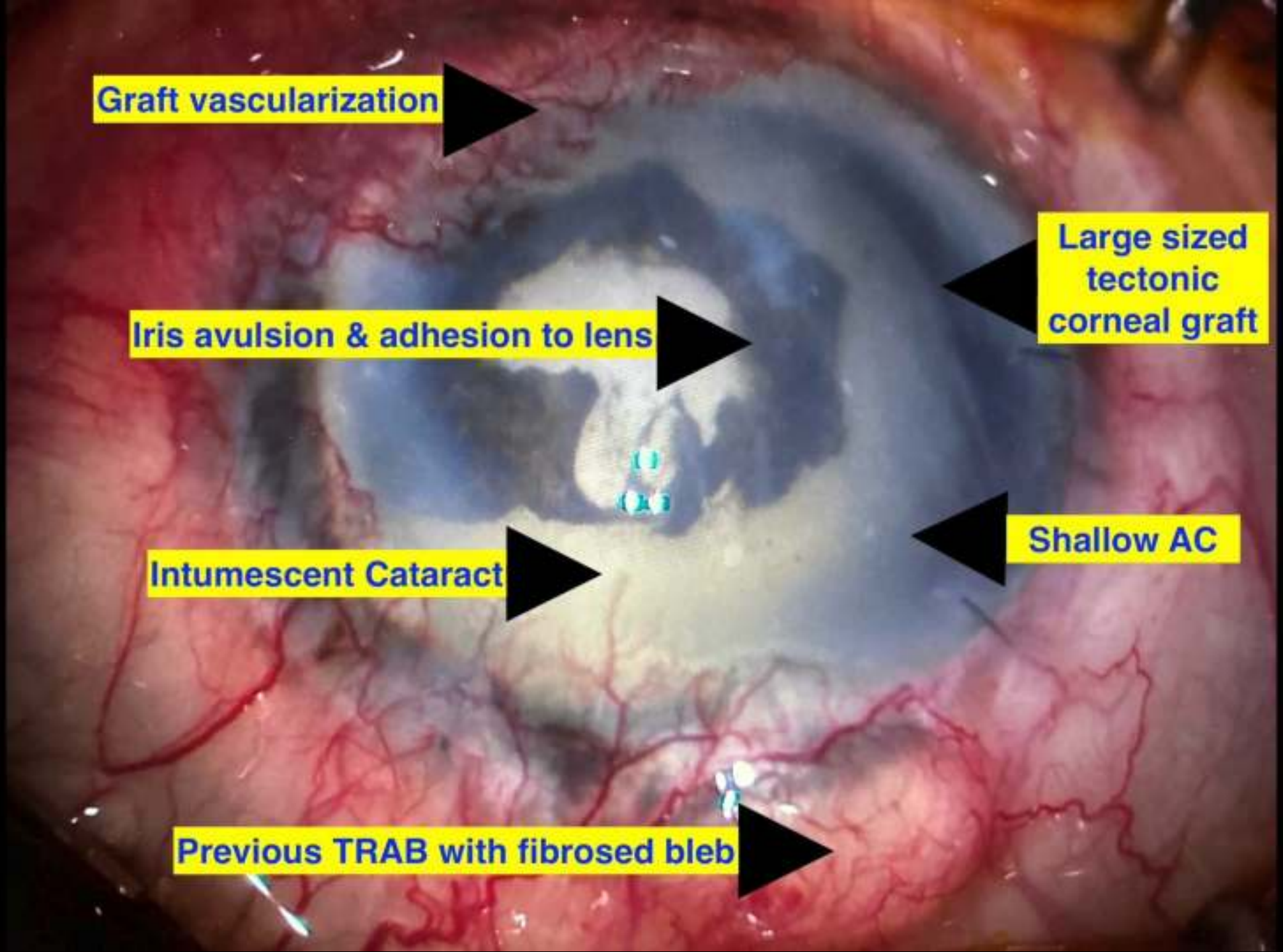
Late postoperative

- Late tube-cornea touch
- Corneal decompensation and graft failure
- Tube movement: Tube migration or Exteriorization
- Conjunctival breakdown over the tube or implant
- Motility disturbance and diplopia
- Fibrous encapsulation around implant
- Cataract formation/progression
- Late failure with increased IOP


Externalized tip of prolene ripcordTube
Hypotony with DM folds
Tube of ClearPath implant in AC
Conj dehiscence & tube exposure


Conj dehiscence
with plate exrusion
Anterior migration
of plate
Tube exteriorization

GDIs in challenging situations


Graft vascularization
Large sized tectonic corneal graft
Iris avulsion & adhesion to lens
Shallow AC
Intumescent Cataract
Previous TRAB with fibrosed bleb

THANK YOU FOR YOUR KIND ATTENTION

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