

Amniotic membrane assisted Ahmed valve revision



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Introduction

The major cause of valve failure is excessive fibrosis. The thick fibrous capsule formed slowly around the reservoir body lead to gradual increase IOP, this fibrosis is most marked in patients with multiple previous surgeries. When failure occur in such cases, excision of this fibrous capsule may be attempted or valve replacement in other quadrant of the eye is done .

Benefits Amniotic membrane

- ❑ It act as an inhibitor of fibrosis: as many studies found significant reduction of fibroblast outgrowth and macrophages cell counts in amniotic membrane assisted surgery . This is done via downregulating transforming growth factor- β signaling and myo-fibroblast differentiation.
- ❑ It has anti-inflammatory ,antiangiogenic, as well as antimicrobial effects.
- ❑ It lack the immunogenicity and has the ability to provide an excellent substrate for tissue growth .
- ❑ It can actually reconstruct the filtering bleb and increase its survival.

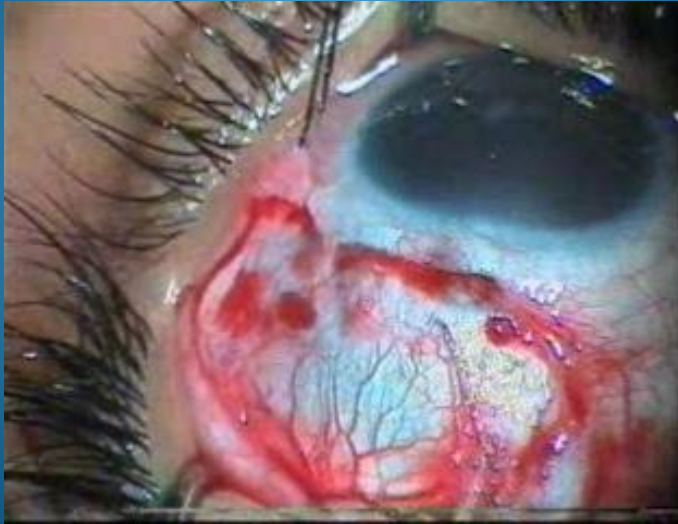
1st video

Coverage of AGV by AMM after implantation



2nd video

Implantation of AGV over AMM



The message

I invite glaucoma surgeons who are interested with tube shunts implantation to investigate the efficacy and safety of either of these techniques

