

## Decompression Retinopathy Post-25-gauge Transconjunctival Sutureless Vitrectomy

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### PURPOSE

To report 2 cases of ocular decompression retinopathy after 25-gauge transconjunctival sutureless vitrectomy (TSV-25) for retained lens fragments after complicated phacoemulsification.

### METHODS

We present case reports of 2 patients with ocular decompression retinopathy after TSV-25.

### RESULTS

Two healthy 76- (patient 1) and 68-year-old (patient 2) white males were referred with recent history of retained lens fragments after complicated phacoemulsification. Both had counting fingers visual acuity, severe corneal edema, sulcus intraocular lens, moderate anterior chamber reaction and vitritis with retained lens fragments, and uncontrolled intraocular pressures (IOP) of 40 and 38 mmHg, respectively, despite maximum medical therapy. Retinal exam was unremarkable. Fellow eyes were normal. They underwent uncomplicated TSV-25 under local anesthesia for retained lens fragments removal. On day-1 post-operative, IOPs were down to 8 and 4 mmHg, respectively, and fundus exam showed scattered intraretinal hemorrhages, some with white dotted center, on the posterior pole and up to the equator. No other retinal vascular findings were present. The hemorrhages showed partial resolution at one month and spontaneously resolved by 6 months with stable visual acuity of 20/60 and 20/50.

### CONCLUSION

Ocular decompression retinopathy related to immediate lower IOP after TSV-25 can occur. Care should be taken not to leave the eye hypotonous at the end of the surgery, especially in eyes with high preoperative IOP.