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INCIDENCE OF RETINAL DETACHMENT AFTER SILICONE OIL REMOVAL IN EYES AFTER SEVERE POSTOPERATIVE ENDOPHTHALMITIS

Oral

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Purpose:

To investigate the incidence of retinal detachment (RD) after silicone oil removal (SiR) in eyes after severe postoperative endophthalmitis (PEO) that required pars plana vitrectomy (PPV) with silicone oil.

Methods:

In this single-center, retrospective study electronic patient records in a tertiary university referral center were reviewed.

Results:

33 eyes of 33 patients were included with a mean follow-up of 13.8 months (range 3 - 53 months). Eyes were divided into two groups, endophthalmitis after cataract surgery and endophthalmitis after anti-VGEF-intravitreal injection ([IVI], groups 1 and 2 respectively). The mean time to SiR was 2.6 months (range 5 days - 8 months). The overall incidence of RD after SiR was 23.3%, 23.5%, and 18.8% in groups 1 and 2, respectively. The mean time to RD was 28 days (3 - 82 days, SD \pm 32 days). Proliferative vitreoretinopathy (PVR) was the main cause of RD after SiR (85.7%).

Conclusions:

RD is a common complication after SiR in eyes with severe PEO that have been treated with PPV with silicone oil filling. PVR is the most common cause of RD after SiR in eyes with a history of PEO.