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USE OF HEAVY SILICONE OIL AS MID TERM TAMPONADE IN RETINAL DETACHMENT SURGERY: EFFICACY AND SAFETY

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Is it safe and efficient to use Heavy Silicone Oil as a mid term tamponade in Retinal Detachment surgery? Purpose of our study is to evaluate the efficacy, safety and feasibility of a mixed 25/23 G technique for Heavy Silicone Oil tamponade in patients who underwent vitrectomy for inferior or complicated retinal detachment.

Retrospective uncontrolled consecutive case series of 20 eyes of 20 patients who underwent a 25 gauge transconjunctival sutureless pars plana vitrectomy for inferior or complicated retinal detachment and were tamponated with heavy silicone oil.

After 3 months the patients were retreated to remove the heavy silicone oil using a mixed sutureless 25/23 gauge technique.

In all cases a twin-light chandelier and an illuminated transcleral depressor were used.

All the patients were successfully treated with mixed 25/23 gauge technique for Heavy Silicone Oil removal with an average time of 22 minutes. Sclerotomies needed no sutures at the end of the surgery.

No adverse effects like ocular hypertension or re-detachments were observed.

The mixed 25/23 gauge technique showed a high safety profile allowing fast Heavy Silicone Oil removal and sutureless sclerotomies.