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SAFETY OUTCOMES OF 25 AND 27-GAUGE 20000 CUTS-PER-MINUTE PARS PLANA VITRECTOMY

Oral

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Purpose:

To report safety outcomes of pars plana vitrectomy using a 25 and 27-gauge, 20000 cut per minute vitrectomy probe among eyes with common surgical indications.

Methods:

Retrospective case series of 20 eyes undergoing primary pars plana vitrectomy (PPV) for common vitreo-retinal diseases (Macular Holes, Epiretinal Membranes, Vitreous Hemorrhages, Retinal Detachments) at the ophthalmology department of Piero Palagi Hospital, Florence. Exclusion Criteria were history of prior PPV, glaucoma and high myopia. Main outcome measures were: intra- and postoperative complications, adverse events up to 3 months after surgery, rate of achieving surgical objectives.

Results:

Surgical objectives were achieved in all eyes. There were no intraoperative complications and we found no adverse events during the 3 months follow-up. The average surgical time was comparable to that of other systems.

Conclusions:

Twenty-thousand cut per minute vitrectomy system effectively and safely performs common vitreoretinal procedures.