

Posterior Segment Surgeries with Modified (Two Port) Multiport Illumination System

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PURPOSE

To evaluate the safety and efficacy of modified (two port) multiport illumination system (MIS) for a variety of vitreoretinal surgeries.

METHODS

We performed a retrospectively reviewed a 108 consecutive patients (64 women, 44 men) who underwent pars plana vitrectomy by modified MIS for following conditions: diabetic tractional detachment with/without vitreous hemorrhage (n=47), rhegmatogenous retinal detachment (n=49), diabetic macular edema (n=7), foreign body (n=1), silicone exchange with/without phacoemulsification surgery (n=4). All procedures were performed by the MIS. Only two port vitrectomy by the MIS without any additional port entry was performed.

RESULTS

Mean follow-up was 6 months (range 1 to 13 months). Visual acuity was stabilized in 62 eyes (57.4%) of 108 eyes, improved in 38 eyes (35.1%), and reduced in 8 eyes (7.40%). No intraoperative complications occurred. Postoperative complications were hypotony in 12 eyes, rehemorrhage in 8 eyes, and choroidal detachment in 1 eye. Eight cases required conversion to standard 3 port sclerotomy. Sclerotomy sutures were required for enlarged sclerotomies in all cases. Mean overall preoperative and postoperative intraocular pressure was 16.9 mm Hg and 15.8 mm Hg, respectively.

CONCLUSION

Despite some limitations two port modified MIS is a good, comfortable and safe option for posterior segment surgeries.