

Peripheral 360° retinectomy in complex retinal detachment

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Abstract

PURPOSE: To report the functional and anatomical results and complications of 360° peripheral retinectomy for management of complicated retinal detachment. **METHODS:** Patients with complicated retinal detachment underwent pars plana vitrectomy, 360° retinectomy, intraoperative endolaser, and internal tamponade with silicone oil. Postoperative visual acuity, intraocular pressure, retinal status, need for reoperation, and complications are presented. **RESULTS:** Twenty eyes of 19 patients with a mean age of 32.4 years (8-70 years) underwent pars plana vitrectomy and 360° peripheral retinectomy for complicated retinal detachment due to anterior proliferative vitreoretinopathy, unstable edge of retinal break, anterior hyaloidal fibrovascular proliferation, retinal incarceration in scleral wound, and 360° giant retinal tear. Intraoperative reattachment was achieved in 18 eyes. Mean postoperative follow-up time was 24.2 months (2-70 months). Retina was attached in 14 eyes (70%) in the last visit. Eight eyes (40%) had 2/200 or greater visual acuity. Preoperative and postoperative visual acuities did not have significant correlation (Spearman correlation coefficient = 0.291). There was no relation between diagnosis and anatomical outcome ($P > 0.2$). **CONCLUSION:** Relaxing peripheral 360° retinectomy is an effective procedure for flattening the retina in complicated retinal detachments when no other option is available. © The Ophthalmic Communications Society, Inc.

Indexed Keywords

EMTREE drug terms: silicone oil

EMTREE medical terms: adolescent; adult; aged; article; child; clinical article; epiretinal membrane; fibrosis; follow up; glaucoma; human; hypotony maculopathy; intraocular hypertension; intraocular pressure; keratopathy; low level laser therapy; postoperative period; reoperation; retina detachment; retina disease; retina surgery; retina tear; retinectomy; retrospective study; school child; visual acuity; vitrectomy; vitreoretinopathy; female; laser coagulation; male; methodology; middle aged; pathophysiology; physiology; postoperative complication; retina

MeSH: Adolescent; Adult; Aged; Child; Female; Follow-Up Studies; Humans; Intraocular Pressure; Laser Coagulation; Male; Middle Aged; Postoperative Complications; Reoperation; Retina; Retinal Detachment; Retrospective Studies; Silicone Oils; Visual Acuity; Vitrectomy; Young Adult

Medline is the source for the MeSH terms of this document.

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