

Method of Safe Vitrectomy Technique

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PURPOSE

To evaluate efficacy of the method developed for safe vitrectomy manipulations.

METHODS

A design of the developed instrument is supplied with thin irrigation tube which is fixed near a tip of the vitreo-cutter. The water jet from the tube allows to prevent capture of the retina and to control removal of vitreous. Initial trial of the instrument was performed on the removed human eyes. Twelve eyes with detached retina complicated with PVR and two eyes with retinopathy of prematurity were included in this study.

RESULTS

Vitreo-retinal surgery was technically performed easily. Intraoperative injuries of the retina did not take place. Additional liquid flow permitted better control of intraocular pressure.

CONCLUSION

The developed instrument proved to be safe and effective during vitreo-retinal surgery.