

August 16-17, 2018
Paris, FranceFleur Goezinne et al., J Eye Cataract Surg 2018, Volume: 4
DOI: 10.21767/2471-8300-C2-005

PREDICTABILITY OF OUTCOME AFTER VITRECTOMY, ILM PEELING FOR EPIRETINAL MEMBRANE

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Purpose: To determine the predictability of the visual acuity (VA) outcome of inner limiting membrane (ILM) peeling, as estimated by vitreoretinal surgeons pre-operative OCT scans.

Patients & Methods: All patients who underwent trans pars plana vitrectomy (TPPV) for internal limiting membrane (ILM) peeling in the University Eye Clinic Maastricht between Jan' 2015 and Jan' 2016 were included in this retrospective study. Pre-operative OCT images were collected and were assessed anonymously reviewed by 3 vitreoretinal surgeons and a fellow vitreoretinal surgery, after which pre- and postoperative VA was estimated by them and compared to the real postoperative VA.

Results: 136 eyes underwent surgery, of which in 129 eyes pre- and postoperative VA was known. Of these, 5 patients were excluded due to retinal detachment within 3 months after surgery. The mean age of the remaining 124 patients, 69 men and 55 women, was 72.2 ± 6.8 years. The mean postoperative LogMAR VA, 0.27 ± 0.27 , was significantly better than the pre-operative VA: 0.42 ± 0.24 ($p < 0.001$). We found a significant correlation between the assessed postoperative VA and the actual postoperative VA in 3 of the 4 vitreoretinal surgeons. The correlation was low (range 0.17-0.44). Moreover, significant differences between the surgeons in the estimates of the postoperative vision ($p < 0.001$) were seen.

Conclusions: Generally, results from TPPV ILM peeling are good. In this study, vitreoretinal surgeons could not reliably predict post-operative VA, by reviewing pre-operative OCT images.

Biography

Fleur Goezinne has studied Medical Biology (specialization Neurobiology) and Medicine at the University of Amsterdam. In May 2003, she obtained her medical exams there. She completed her specialization Ophthalmology from 2003 to 2008 in the academic hospital Maastricht. She then went through a fellowship in Vitreoretinal Surgery. Since 2010, she has been a staff member at the Ophthalmology department of the azM. She has graduated in Maastricht on 6 September 2013 with her thesis 'Retinal detachment surgery: pre and postoperative prognostic factors'. Her focus areas are Vitreoretinal Surgery (retina / vitreous surgery), Front Segment Surgery (eg cataract surgery) and Medical Retina (diabetes mellitus, macular degeneration).

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