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A comparison of none-staining of the internal limiting membrane vitrectomy outcomes for high myopic patients with Macular Hole (MH) and control patients with idiopathic MH

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Statement of the Problem: Aim of this study is to evaluate none-staining of the internal limiting membrane vitrectomy outcomes for high myopic patients with macular hole (MH) and to compare these outcomes with those of control patients with idiopathic MH.

Methodology & Theoretical Orientation: The study was designed as a retrospective chart review. We performed a retrospective chart review of consecutive cases that underwent none-staining of the internal limiting membrane vitrectomy for MH from 2016.1 to 2017.2. 36 eyes of 36 patients were selected to participate in this study. They were divided into two groups: Nine study eyes with high myopic MH and 27 control eyes with idiopathic MH. The main outcomes were preoperative, postoperative best-corrected visual acuity (BCVA), MH closure rates, and abnormal IOP complications in both groups.

Findings: There was a closure rate of 88% in the study group and 85% in the control groups, and no cases of reopening were reported during the follow-up visits. After surgery, there were significant improvements of mean BCVA in the study group (88%) and in the control group (85%). The amplitude of postoperative BCVA in the study group was significantly higher than that in the control group. Abnormal IOP complications taken place in the study group was 33% while in the control group was 11%.

Conclusion & Significance: None-staining of the internal limiting membrane vitrectomy results in satisfactory anatomical and visual acuity improvement in patients with high myopic MH and in patients with idiopathic MHs. However, abnormal IOP complications taken place in the high myopic MH group was higher than that in the idiopathic MHs group. Therefore, pay much more attention to control and regulate IOP in the duration and post of surgery.

Biography

Haisheng Zhao has his expertise in “Optic nerve injury and regeneration, neuroprotection on retinal ganglion cells”. He has published six peer-reviewed journal articles. He also has his research interests on Maculopathy and age-related macular degeneration. Based on15 years of research accumulation, he has given 13 international seminar and conference presentations.

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