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Study on the effect of refractive errors in intermittent exotropia after corrective operation

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Objective: To evaluate and compare surgical outcomes with respect to refractive errors in strabismus surgery for the treatment of intermittent exotropia.

Methods: The medical records of 129 patients with intermittent exotropia who were treated with one surgeon from June, 2010 to January, 2015 were reviewed. The patients were divided into three groups according to preoperative refractive error: hyperopia (group A with 20 patients), emmetropia (group B with 63 patients) and myopia (group C with 46 patients). The orthotropia rate and stereoscopic vision were compared among the three groups.

Results: The orthotropia rate was higher in group A and C than in group B at postoperative 3 and 6 months and at the last follow-up ($P<0.05$). Stereoscopic vision was significantly better in group B and C than in group A preoperatively ($P<0.05$). The difference was not significant postoperatively. The surgical success rates according to orthotropia rate and stereoscopic vision were higher in group A and C than in B at postoperative 3 and 6 months and at the last follow-up ($P<0.05$).

Conclusion: Taking into consideration the age, follow-up period postoperatively, orthotropia rate and stereopsis improvement, hyperopia is a good prognostic factor.

Biography

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