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The incidence and risk factors for dry eye after pediatric strabismus surgery

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Aims: To investigate the incidence and risk factors for dry eye after pediatric strabismus surgery.

Methods: Children aged 5 to 12 who underwent strabismus surgery were included in this single-center, prospective, cohort study. The ocular surface assessments were conducted 1 day before and 1 week, 4 weeks and 8 weeks after surgery. The main outcome measures are the incidence of dry eye after strabismus surgery and associated risk factors.

Results: A total of 84 eyes (48 children) that underwent strabismus surgery were included in the study. The mean age at surgery was 7.21 years. The incidence of dry eye was 47.62% at 1 week, 10.71% at 4 weeks, 0% at 8 weeks after surgery. The preoperative tear Break-Up Time (BUT) was lower in the dry eye group than that in the non-dry eye group ($P \leq 0.01$). The univariate analysis showed that preoperative BUT was significantly associated with the incidence of dry eye after pediatric strabismus surgery (Odds Ratio [OR]: 0.647, Confidence Interval [CI]: 0.503–0.833, $P \leq 0.01$).

Conclusions: Dry eye commonly occurs after pediatric strabismus surgery. Tear film instability is more common than deficient aqueous tear production in patients with dry eye after surgery. Children with a low preoperative BUT are more likely to develop dry eye after strabismus surgery.

Biography

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