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**Programme
and
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RF07 Femtosecond laser in situ keratomileusis in children with hyperopia and anisometropic amblyopia

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Introduction: To assess the results of femtosecond laser in situ keratomileusis (femtoLASIK) in children with hyperopic anisometropic

Methods: This retrospective review comprised children with unilateral hyperopia or hyperopic anisometropic amblyopia who had femtoLASIK. Mean age was 6.8 year. Refractive outcomes, visual acuity, and binocular vision were assessed and recorded 3 months and 1 year postoperatively.

Results: The mean spherical equivalent (SE) in all 20 hyperopic eyes (20 patients) was +5.52 diopters (D) (range 0.25 to +9.00 D) preoperatively and +1.23 D (range +0.75 to +3.00 D) 1 year postoperatively. The mean anisometropic difference was +4.54 D (range +3.5 to +8.75 D) preoperatively and +0.28 D (range +0.15 to +2.75 D) at 1 year. After femtoLASIK, 100% of eyes had improved corrected distance visual acuity (CDVA) from 2 to 5 lines. No patient had reduced CDVA or loss of fusional ability; there was a 75.0% improvement in stereopsis at 1 year.

Conclusion: femtosecond laser in situ keratomileusis improved visual acuity in pediatric hyperopia with anisometropic amblyopia.