(X) R1 ( ) R2 ( ) R3 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( )
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Keratoglobus and megalocornea: report of 2 cases of primary ocular disease

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Purpose: to report 2 cases of congenital keratoglobus and megalocornea without associated ocular or systemic disease. Methods: both patients were referred for an ophthalmic evaluation by a pediatrician due to “big eyes”. Since then, the children’s intraocular pressure and visual acuity have been closely followed and ophthalmic exams with and without general anesthesia have been performed. Results: complete ophthalmologic examination under general anesthesia showed bilateral keratoglobus (thinning and protrusion of the entire cornea) and megalocornea (horizontal corneal diameter > 14 mm)in both patients. One of them (currently a 3-year old boy), besides the corneal pathology, has emetropic eyes confirmed by Teller’s test. The other one (currently a 7-year old boy) presents visual acuity without correction: 20/40 - 20/25 and with correction:(-1,00 DC@180°-20/25) e (-0,5 DC@180°-20/20). Fundoscopy, intraocular pressure and biometry were normal. Systemic evaluation was normal in both patients. Conclusion: Keratoglobus is a rare noninflammatory corneal thinning disorder. This is the first report of congenital and primary keratoglobus and megalocornea (without associated ocular or systemic diseases) in the literature. We intend to follow our patients until adult life in order to document the natural history of this pathology.