

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo PIBIC

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Service (sector)

Refractive Surgery

Nº CEP

Intrastromal Ferrara Ring Segments in Patients With Keratoconus.

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Purpose: Intrastromal Ferrara ring segments were inserted in patients with Keratoconus to evaluate the safety of this procedure.

Methods: A standard Intrastromal Ferrara ring segments implantation technique was used in thirty-seven eyes with Keratoconus. All of them had an unsuccessful contact Len fitting or were contact lens intolerant. Corneal topography, an ultrasound biomicroscopy and an obscan pachymetry in 4 quadrants at the 5-7 mm zone was done to insure adequate stromal thickness for segment insertion. The Medical Ethics Commits approved the protocol of this investigation. Patients were followed for a man of six months.

Results: Implantation of intrastromal Ferrera ring segments in eyes with keratoconus resulted in corneal flattening by corneal topography and improved uncorrected visual acuity. Ultrasound biomicroscopy has shown a stretching of the cornea demonstrated by the thinning of its central part and a decrease in the depth of the anterior chamber.

Conclusion: The surgical technique and the results shown in this paper, has demonstrated that the procedure showed to be safe, predictable, reversible and readjust able. The recovery of patients is quick and the visual performance satisfactory. However, a move patients and a larger of observation is necessary before the technique may be used as a routine.