

R1  R2  R3  PG0  PG1  Estagiário  Tecnólogo   
PIBIC Last Name - Moreira First Name - Luciene Middle - B

Service (sector) Contact lenses N° CEP

## **ANALYSIS OF CONTACT LENSES FITTING AFTER FERRARA RING IN KERATOCONUS**

(Luciane Moreira M.D.; Cínara Oliveira M.D.; Hamilton Moreira M.D.)

**Purpose.** To evaluate contact lenses fitting after Ferrara ring implantation in keratoconus and its visual acuity **Methods.** Retrospective study of 19 patients fitted with contact lenses after Ferrara ring through a single corneal incision in keratoconus was evaluated for comfort and visual acuity (Log MAR). All patients had Ferrara ring done because they could not wear contact lenses. When the Ferrara ring did not achieve the desired visual acuity, contact lenses were tested. **Results.** 19 patients were tested and only 2 (10.5 %) did not achieved good comfort with contact lenses. Both patients needed piggyback system for the desired visual acuity (0.0 Log MAR). They could not wear them and penetrating keratoplasty was done. For the others 17 patients; 4 wear rigid gas permeable contact lenses; 1, piggyback system; 3, toric soft contact lenses; 2, soft lenses for keratoconus; and 7, wear disposable soft lenses. The mean visual acuity improved from  $0.7 \pm 0.3$  to  $0.2 \pm 0.1$  Log MAR units after contact lenses fitting. **Conclusion.** Contact lens fitting after Ferrara ring is possible, gives good comfort and it improves visual acuity. 63 % of the contact lenses fitted are soft. This allows more patients to postpone the penetrating keratoplasty.