

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Service (sector) Cataract N° CEP

NEW TECHNIQUE TO DEMONSTRATE CORNEAL MAGNIFICATION USING TRYPAN BLUE IN CATARACT SURGERY

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Purpose: To demonstrate the corneal magnification using trypan blue in cataract surgery
Design: Prospective study

Methods: **Setting:** Cincinnati Eye Institute- Ohio / Faculdade de Medicina do ABC – São Paulo – Brazil
Patients: Eight eyes of eight patients undergone phacoemulsification with an intraocular lens implantation were enrolled in this study. After staining the anterior capsule with Trypan Blue 0.1% and performing the capsulorhexis, the excised anterior capsule was placed on the corneal surface. By observing and measuring the relationship between the border of the excised anterior capsule and the intracameral rhexis opening, the effect of corneal magnification was clearly demonstrated by linear method and area method. **Results** The magnification of the cornea was estimated to be 20.88% using linear method and 47.53% by the area method. **Conclusion:** The capsulorhexis stained by trypan blue is useful to demonstrate the magnification provided by the cornea helping to design a intended rhexis size.