

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Service (sector) Cataract - UNIFESP/EPM

IOL exchange assisted by pre-operative Nd:YAG laser haptic fracture before surgery

Frederico F. Marques, MD, Daniela M.V. Marques, MD, Corwin M. Smith, MD, Robert H. Osher, MD **Purpose:** To demonstrate the use of Nd:YAG laser before surgery to facilitate the IOL exchange

Methods: Four pseudophakic eyes and one phakic eye of five patients were indicated to IOL exchange due to chronic macular edema, corneal decompensation, UGH syndrome and persistent iritis. They underwent Nd:YAG laser before surgery to fracture the haptic to facilitate the procedure. Delaying the dilation of the pupil until after the Nd:YAG laser was used in combination with prudent positioning of the patient's head to minimize the possibility that a free IOL segment damages the cornea or vanishes posteriorly into the vitreous cavity **Results:** Four anterior chamber lens and one iris-clip lens had their haptics/clip fractured before surgery using a energy ranged from 16 to 1.355 mJ and shots ranged from 4 to 222. The IOL exchanges were performed easily and safely without complications.

Conclusions: Nd:YAG laser IOL fracture prior to an explantation/exchange procedure has been very helpful in our referral practice. It constitutes another viable "combined" procedure of which the anterior segment surgeon should be aware. Signature of First

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