

Session 3-S: Cataract: Phaco, IOLs

Title: Cumulative Nd:YAG Laser Rates After Bag-in-the-Lens Implantation Versus Lens-in-the-Bag Implantation

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Purpose: To study the cumulative Nd:YAG laser capsulotomy rate after implantation of hydrophilic acrylic IOLs of two different designs using two different implantation techniques: the bag-in-the-lens and lens-in-the-bag implantation. Because both IOLs are manufactured of the same biomaterial, this comparison aims to study the capsular bag-IOL biocompatibility.

Methods: 120 patients (26 children and 104 adults) were implanted with the bag-in-the-lens IOL (Morcher 89A) and technique of implantation between December 1999 and August 2004. Postoperative follow-up ranged from 60 months to 2 months. 120 patients of the same age group were implanted with the lens-in-the-bag technique using an IOL made of the same hydrophilic acrylic (Morcher 92S).

Results: The cumulative Nd:YAG laser capsulotomy after bag-in-the-lens was 0% compared to 7% in the lens-in-the-bag implantation group.

Conclusion: 0% Nd:YAG laser capsulotomy was obtained in the bag-in-the-lens group while 7% Nd:YAG laser capsulotomy was found in the lens-in-the-bag implantation group. This last percentage is similar as the one found after hydrophobic acrylic IOL implantation.