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Refractive outcomes of implantation of an implantable phakic copolymer lens with peripheral holes in the intraocular posterior chamber in moderate-to high-myopia patients: a single-surgeon series

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Session Details

Session Title: **Phakic IOLs**

Venue:

First Author: : **P.Subudhi** *INDIA*

Co Author(s): : **S. Patro** **B. Subudhi**

Abstract Details

Purpose:

To assess the safety and efficacy of implanting implantable phakic copolymer lenses (IPCLs) with peripheral optic holes in the intraocular posterior chamber in Indian patients with moderate-to high myopia.

Setting:

Ruby Eye Hospital

Methods:

Seventy-five eyes of 50 patients who underwent IPCL implantation were retrospectively analyzed. Preoperative parameters, such as subjective refraction, anterior chamber depth (measured with Pentacam), and white-to-white diameter were measured. A custom-made IPCL using the aforementioned parameters was then implanted in the sulcus to correct moderate-to high myopia. All the patients had undergone neodymium-doped yttrium aluminum garnet peripheral iridotomy.

Results:

The mean age was 25.36 years (standard deviation [SD]: 3.60 years), and 55.55% of the patients were men. The mean pre-operative best corrected visual acuity (BCVA) was 0.367 logMAR units (range: 0.0 to 1.2). The post-IPCL implantation mean uncorrected visual acuity was 0.23 logMAR units (SD: 0.172, range: 0 to 0.7), which was significantly superior to the preoperative BCVA (<0.0001). Mean vault height in ambient light condition was 296 microns (SD: 43.59 microns, range: 289 to 329 microns). The mean follow-up period was 2.8 years.

Conclusions:

Implantation of the IPCL with peripheral holes in the intraocular posterior chamber resulted in clinically significant improvement in unaided visual acuity. Long-term follow-up showed stability of vision.

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