Pediatric cataract surgery with hydrophilic acrylic intraocular lens implantation in Nepalese children

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Introduction
Pediatric cataract management in developing countries like Nepal is challenging. The purpose of this study is to assess the outcome of cataract surgery with hydrophilic acrylic intraocular lens implantation in children with congenital and developmental cataracts.

Method
It is a retrospective review of charts of children with congenital and developmental cataracts who underwent surgery in Tilganga institute of ophthalmology between January 2011 and December 2014. Traumatic and complicated cataracts were excluded from the study. All required information were collected from the chart including demographics, laterality of cataract, presenting symptoms, examination findings, surgical details, associated ocular anomalies, pre and post operative best corrected visual acuity, post operative complications and follow up.

Surgical procedure and Intraocular lens implantation: Children 8 years or under, children with nystagmus, mental retardation, or not cooperative enough for the subsequent yag capsulotomy underwent primary posterior capsulotomy and the anterior vitrectomy. Rest underwent only lens aspiration and the IOL implantation. Anterior and posterior vitrectorhexis, lens aspiration and anterior vitrectomy were done using 20 gauze ocutome (alcon 6 (3.3)). Biometry was done in all children under general anesthesia. The type of intraocular lens was Hydrophillic (Poly Hema). produced in France, operated in Fiji, was used in the study.

Results
A total of 178 eyes of 120 children who underwent cataract surgery with primary intraocular lens implantation were included in the study. Mean age at the time of surgery was 6.9 years (3 months to 15 years). There were 67.7% of children below age of 2 years. Thirty percent of children had unilateral and 70% had bilateral cataract. Male to female ratio was 1:4:1. Average follow up time 13.7 months.

Discussion:
Our study shows good visual and surgical outcome comparable to similar other studies.

Reference
Mahmoud-Reza Panahi-Bazaz, MD; Mitra Zamani, MD; Bijan Abazar, MD Hydrophilic Acrylic versus PMMA Intraocular Lens Implantation in Pediatric Cataract Surgery J Ophthalmic Vis Res 2009; 4 (4): 201-207.