

10th International Conference on

Clinical & Experimental Ophthalmology

November 21-23, 2016 Dubai, UAE

Primary and secondary intraocular lens implantation in congenital cataract surgery: A comparative study of the visual outcomes

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To compare myopic shift, visual acuity, intraocular pressure (IOP) and ocular alignment in primary versus secondary intraocular lens implantation (IOL-I) following congenital cataract surgery. We retrospectively analyzed the files of all 14 children with congenital cataract who underwent unilateral or bilateral lensectomy, posterior capsulotomy and anterior vitrectomy followed by primary or secondary IOL-I between 2000-2012, at King Abdulaziz University Hospital, Jeddah, Saudi Arabia. Preoperative and postoperative assessments of each operated eye regarding axial length, refractive errors, ocular alignment; as well as post-IOL implantation IOP and best corrected visual acuity (BC-VA) were analyzed. Data of 26 eyes (16 in primary and 10 in secondary IOL-I groups) were analyzed. Mean±SD age at cataract surgery was 67.53±48.70 versus 5.90±3.72 months and patients were followed up for 49.33 (±26.23) versus 86.50 (±23.36) months ($p=0.051$), in primary versus secondary IOL-I groups, respectively. Last BC-VA showed 10/16 eyes with good VA versus only 2/10 ($p=0.009$); and mean±SD myopic shift was 0.19±2.38 versus 10.86±11.62 ($p=0.046^*$), in primary versus secondary IOL-I group, respectively. No significant difference was observed in IOP ($p=0.697$). No case of esotropia was detected in primary versus 6 cases in secondary IOL group. Primary IOL-I following cataract surgery was associated to better outcomes with regard to visual acuity, strabismus and myopic shift, as compared to secondary IOL implantation; however, both visual acuity and myopic shift required more frequent evaluation during the time from lensectomy to secondary IOL-I.

Biography

Abrar Alhawsawi has graduated from Medical School at King Abdulaziz University and has been serving as an Ophthalmology Teaching Assistant at Jeddah University, Jeddah, Saudi Arabia.

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