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Management of pre-existing and surgically induced astigmatism by various incisions in cataract patients

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Cataract surgery has evolved tremendously in all these years and the expectations of the patients are increasing by the day. The goal of cataract surgery is to achieve a desirable refractive outcome with minimal surgically induced astigmatism (SIA) after cataract surgery. Several methods have been employed for this purpose including changing the size and site of the incision, using corneal or limbal relaxing incisions, applying opposite clear corneal incision (OCCI) on the steep axis and implantation of toric IOLs. Early visual rehabilitation and targeting of emmetropia is the main objectives of modern cataract surgery. Limbal relaxing incisions (LRIs) have been advocated as an effective method for reducing 0.5-4.0 diopters (D) of astigmatism. Because of their placement at the limbus, LRIs have the potential advantage of preserving the optical qualities of the cornea, inducing less postoperative glare, minimizing discomfort, reducing overcorrections and allowing quicker recovery of vision. The clear corneal incision (CCI) has a small flattening effect on corneal curvature, adding an identical penetrating CCI opposite the first one can enhance the flattening effect. The paired opposite CCIs (OCCIs) are placed on the steepest meridian axis to flatten it. In this study, we have evaluated and compared the efficacy of various incisions on the steep axis of the cornea during cataract surgery in order to reduce pre-existing corneal astigmatism with minimal surgically induced astigmatism after cataract surgery. Applying these incisions on the steep axis can cause flattening and decrease corneal astigmatism which is effective and have low cost.

Biography

Basant Kumar Singh has completed his postgraduate studies from MLN Medical College, Allahabad, India. Currently, he is the Senior Consultant, Department of Ophthalmology, RIO, Allahabad, India and is also pursuing PhD in Ophthalmology in MLN Medical College, Allahabad. He has written chapters in various books and has attended and presented papers in various national and international conferences.

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