ABSTRACT

TITLE :- 5.5 mm Temporal MSICS vs 5.5 mm extended incision Temporal PKE with implantation of a 5.25 mm rigid IOL – a developing country perspective

Dr. Sivaji Sarkar*

***Visiting Ophthalmic Surgeon, Raniganj Lions MJM Eye Hospital, Raniganj, West Bengal, India .**

Keywords : Manual Small incision cataract surgery, Phacoemulsification, astigmatism, sclerocorneal, temporal, clear corneal, rigid PMMA intraocular lens.

I. Abstract body :

Objective :- Aim of the study is to compare the astigmatism induced by a reduced temporal sclerocorneal tunnel incision manual small incision cataract surgery with an extended temporal clear corneal phacoemulsification of similar width .

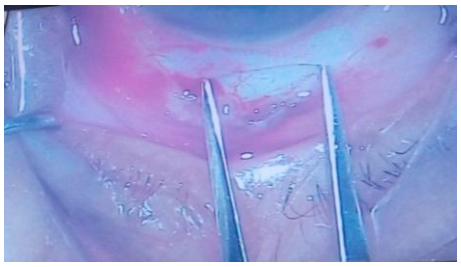
Methods :- A prospective, randomised controlled study was carried out in 224 selected patients who were again divided into two groups - Group A (112 patients) & Group B (112 patients) . Group A patients underwent temporal manual small incision cataract surgery with a 5.5 mm sclerocorneal incision & Group B underwent phacoemulsification by a 2.8 mm clear corneal temporal incision which was extended to 5.5 mm before IOL implantation. In both groups, a 5.25 mm rigid PMMA IOL was implanted in the bag. UCVA & BCVA of both group of patients was quantified and analysed at 1 week & at 6 weeks.

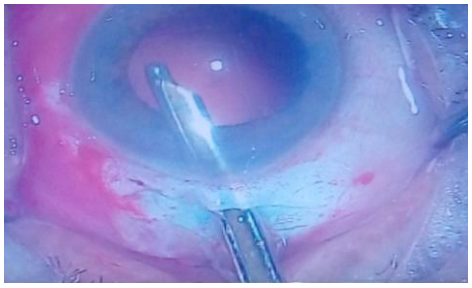
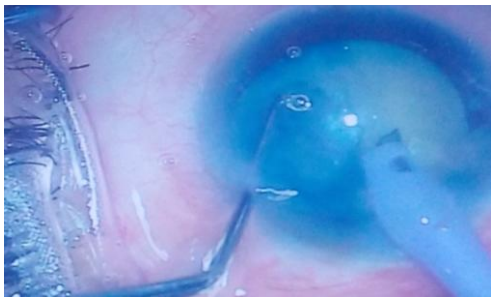
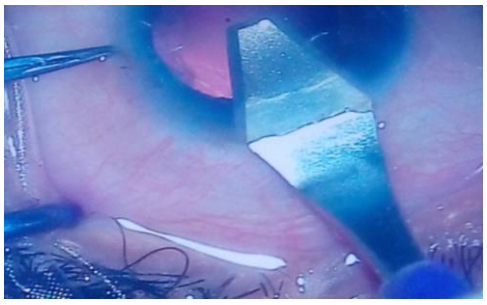
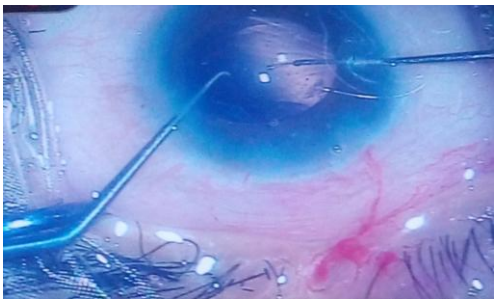
Observation :- It was seen that the mean surgically induced astigmatism in group A (N=112) was 0.5625D , which was slightly lesser than that in Group B (N=112) which was 0.65D, although the p-value of 0.26 indicated that there was statistically no significant difference in visual outcomes between the two groups of patients .Here, a p-value of < 0.05 was considered statistically

significant ..

Conclusion :- In skilled & safe hands, refractive outcomes following performing a 5.5mm temporal sclerocorneal frown-incision manual small incision cataract surgery & a phacoemulsification procedure by a 2.8mm temporal clear corneal incision extended to 5.5mm for implanting a 5.25mm rigid PMMA IOL , are comparable .

II . Image:



III. Reference:

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IV. Biography:

Dr. Sivaji Sarkar completed his M.B.B.S & D.O.(Diploma in Ophthalmology) from the University of North Bengal, Siliguri, West Bengal, India . He has done his Phaco Fellowship from Mahatme Eye Bank & Eye Hospital, Nagpur, Maharashtra, India in 2006. He has done more than 35,000 cataract surgeries till date . He is a Visiting Ophthalmic Surgeon at the Raniganj Lions MJM Eye Hospital, besides doing Private Practice .

V. Presenting Author Details:



Full Name : Dr. Sivaji Sarkar

Contact number : +91 99326 43317

Twitter account : @SivajiSarkar2

Linked In account : Sivaji Sarkar

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