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Edifice of adaptive strategies on foundations of science: Innovations necessary for children from eastern half

Kirti Singh

Maulana Azad Medical College, India

Managing glaucoma presents many challenges to health providers residing in developing nations of Eastern hemisphere. The genetic propensity of Indian race combined with sheer numbers of our young population subjected to the stresses of overcrowding, injuries and sub tropical climate account for large numbers of angle closure and secondary glaucoma patients. Managing such types of recalcitrant glaucoma's in the primary agrarian environs with lack of homogenous infrastructure coupled with economic adversity over the patient's lifetime is a challenge. We have devised certain surgical and non surgical strategies which would be safer, feasible and economically viable options for our patients. The author would present case vignettes depicting surgical strategies to treat glaucoma and cataract by manual small incision fracture combined with trabeculectomy with amniotic membrane (40 eyes), a phacoemulsification machine independent surgery. A modified conjunctival incision in trabeculectomy "Singh's smile" (40 eyes) contributing to increased comfort and reduced post operative visits. Effective management of the lens in angle closure cases (20 eyes with a 2 year follow up) and traumatic glaucoma cases (2 eyes) to treat intraocular pressure. These case vignettes would be illustrated with requisite surgical videos. Utilizing a novel laser technique to control pressures (6 eyes), indigenously made medication to minimize steroid induced glaucoma (6 eyes) and resurrecting pilocarpine to manage recalcitrant aphakic glaucoma's (5 eyes) would be presented to highlight adapting science to the required needs of the patient. A short video on innovations in drug delivery to improve patient compliance will also be presented.

Biography

Kirti Singh completed Post graduation from, All India Institute of Medical Sciences (1989). Faculty in Glaucoma division, Dept of ophthalmology of Maulana Azad Medical College, New Delhi, India for last 19 years. Recipient of AIOS Young Ophthalmologist Scholarship 1999, Commonwealth fellowship 2000, FRCS degree 2000, WHO Scholarship 2010. Authored 3 books, contributed 18 text book chapters, 55 publications in indexed /non indexed journals, over 350 lectures at state, national and international conferences. Head of Low Vision and Contact lens division, honorary faculty of Occupational & Environmental health. Compère for national radio/television in promoting health awareness and published a book on an anthology of poems.

mail4kirti@gmail.com

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