

Global Ophthalmology and Glaucoma Conference

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Tonometry

Tonometry is the method of measuring intraocular pressure. Tonometry can be performed with or without anesthesia in sitting or lying down position. The technique of recording IOP can vary from digital palpation of globe to use of complex pressure recording devices. These devices are based on applanation, (Goldmann, Perkins, pneumatic, air puff tonometry, tonopen), indentation (Schiotz, Electronic indentation tonometers), or dynamic contour tonometry (not dependent on corneal thickness). Goldman applanation tonometer is the “gold standard” that measures the force required to flatten (applanate) the constant area of cornea with a sensor. The airpuff noncontact tonometer, which generally requires no anesthetic drop, is widely used in for screening. Schiotz tonometer measures the depth of corneal indentation by a small plunger carrying a known weight but varies with rigidity. Patient self-testing devices are in their infancy. Glaucoma is now considered optic neuropathy, but it does not undermine the importance IOP recording, as IOP remains the only significantly modifiable risk factor in the treatment of glaucoma at present. In the workshop, practical tips of accurate use of applanation tonometer will be demonstrated.

Biography

Rajender Singh Chauhan completed his MS in Ophthalmology in 1990 from Medical College Rohtak. He joined PGI of Medical Sciences, Rohtak in 1993 and continued as Consultant till date. He has undergone training in LVPEI Hyderabad, Dr. R P Centre, AIIMS, New Delhi and Dudley Hospital Birmingham, UK. He has been actively involved in teaching in PGIMS Rohtak and Oman Medical College. He is Postgraduate teacher since 1998 and guided many MS student and DNB students. He has attended many international and national conferences and had chaired many sessions and conducted instruction courses in SICS. He has plenty of publications and presentations to his credit. He is presently working as Professor in Regional Institute of Ophthalmology in PGIMS Rohtak.

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