

4th International Conference & Expo on **Euro Optometry and Vision Science**
&
29th International Congress on **Vision Science and Eye**

August 22-23, 2019 Vienna, Austria

Effects of ocular hypotensives on ocular surface and cornea

Manik Gupta, Sushma David and Iqram Khan
Rotary Narayana Eye Hospital, India

Aims & Objectives: To study the effects of ocular hypotensive on ocular surface and cornea.

Methods & Materials: The proposed study is a prospective randomized interventional study to be conducted in patients having open angle glaucoma (primary and secondary) and ocular hypertension. A total of 60 eyes will be divided into 4 groups (15 each) according to type of topical hypotensive therapy four groups are formed. The group 1 is beta blocker – timolol/betaxolol; group 2 is brimonidine; group 3 is dorzolamide/timolol+dorzolamide combination and group 4 is PG analogues latanoprost, travoprost and bimatoprost. After proper clinical diagnosis all the patients have to undergo clinical tests (IOP, Schirmers test, TUBT, endothelial cell count, pachymetry at 0,1,3,6 months.

Result: Patients in group 1, 2 and 3 showed significant decrease in the values of Schirmers and TUBT from the baseline over six months. In patients of group 4 there was decrease in mean values of Schirmer's test and TBUT from the baseline but that were not significant. Mean corneal thickness and endothelial cell count did not change significantly from the baseline mean value in all the four groups.

Conclusion: On the basis of above study changes were seen in Schirmer's test, tear film function and staining pattern of conjunctival and ocular surface with use of antiglaucoma medication. These all factors can cause ocular surface disorders which can affect the quality of life as well compliance of the patient. There was no effect seen on corneal thickness as well as endothelial cell count in these patients.

Biography

Manik Gupta has studied in Rotary Narayana Eye Hospital MBBS in ophthalmologist from 2011-2014. Present he is an ophthalmologist at MI Eye Clinic And Optical.

drmanik84@gmail.com

Notes: