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## Central corneal thickness and crystalline lens changes after trabeculectomy

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**Objectives:** To determine changes in central corneal thickness (CCT) and crystalline lens status after trabeculectomy in glaucoma patients.

**Materials & Methods:** We retrospectively reviewed the records of 113 glaucoma patients who underwent trabeculectomy for the assessment of changes in central corneal thickness and crystalline lens status, from January 2013 to December 2014 at Section of Ophthalmology, Aga Khan University Hospital, Karachi. Patients characteristics, including demographics presentation, clinical factors and management were assessed from the medical records. Categorical variables were described in terms of frequencies and percentages and continuous variables were described in terms of mean and standard deviation. Data was analyzed using SPSS 19.0

**Results:** Mean age of patient was  $53.3 \pm 12.3$   $\mu\text{m}$  years. Before trabeculectomy, the mean CCT was  $524.25 \pm 38.53$   $\mu\text{m}$ . After 12 months of surgery the mean CCT was  $521.95 \pm 38.25$   $\mu\text{m}$  with correlation of 0.855 which was not statistically significant. The crystalline lens status assessment was reviewed in 108 patients because 5 patients were pseudophakic. Out of which 9 patients (8.3%) crystalline lens status was changed post 12 months of trabeculectomy keeping the LOCS III grading system as reference.

**Conclusion:** Central corneal thickness is assessed for accurate measurement of intraocular pressure to properly manage patients of glaucoma. In our study we concluded that there is no clinically significant change in central corneal thickness after drainage surgery so, it is not necessary to measure central corneal thickness after drainage surgery for accurate measurement of intraocular pressure. Crystalline lens status change was noticed in our study in particular to nuclear sclerotic lens changes increasing after trabeculectomy.

### Biography

Mustafa Kamal Junejo has completed his training at the age of 30 years from Aga Khan University Hospital, Karachi, Pakistan. He did his Membership exam from Royal College of Surgeons of Edinburgh, United Kingdom. He is working as Senior Instructor/ Clinical & Academic Coordinator and In charge Cornea & External Eye Diseases Section. He has published more than 10 papers in reputed journals nationally and internationally. His areas of interests are Cornea, External Eye Disease and Refractive surgery, Medical Retina and Glaucoma.

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