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Functional Evaluation of the Filtering Bleb by Ultrasound Biomicroscopy after Trabeculectomy with Mitomycin C

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Purpose: To study the role of ultrasound biomicroscopy (UBM) in assessment of the bleb function after trabeculectomy with Mitomycin C (MMC). Study design: Cross sectional study. Methods: Participants were recruited from the follow-up cases had undergone to trabeculectomy with MMC (0.2 mg/ml for 3 minutes) seen at Tanta University Eye Hospital in the period from Aug 2015 to Aug 2016. Full history taking and ophthalmological examination were performed. Intraocular pressure (IOP) was measured using Goldmann applanation tonometry and history of prescribed postoperative antiglaucoma medications was recorded. Accordingly, cases were divided into: (20 eyes) of complete success, (9 eyes) of qualified success and (4 eyes) of functional failure. the filtering blebs were scanned by UBM, (VuMAX™, Sonomed Escalon, USA), with 50 MHz transducer. Results: This study included 33 eyes of 25 patients (9 males and 16 females). The patients' age ranged from 25 to 71 years with mean 53.2 years \pm 14.2 SD, the mean recorded IOP was 14.4 mm/hg \pm 4.6 SD. UBM examination was performed 2 to 36 months after trabeculectomy with mean 13.6 months \pm 9.7 SD. There was a significant correlation between certain UBM findings (the intra bleb reflectivity, draining sub scleral tract, bleb height, and presence of intra-bleb fluid cysts) and different grades of clinical functional success ($P < 0.01$). Conclusion: UBM is a useful objective tool in the assessment of the post trabeculectomy filtering bleb as the study showed a significant correlation between certain UBM parameters and the different grades of clinical success.

Biography

Saeed Mohamed Abdelwahab Shalaby completed his Medical Doctorate from the Tanta University in Egypt. Currently he is working as an Professor in Ophthalmology department. He worked as Supervisor of Ophthalmology department continuous medical education.

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