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Sub-foveal choroidal thickness in diabetic and non-diabetic retinopathy

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Objectives: The objectives of this study are to measure the macular choroidal thickness in diabetics without diabetic retinopathy and to compare it with non-diabetics, and to correlate that with age and refractive error.

Method: This is a retrospective, observational and case series study. EDI-OCT images were obtained in diabetics without apparent diabetic retinopathy with a spectral domain OCT. The sub-foveal choroidal thickness was measured from the outer boarder of the retinal pigment epithelium to the inner scleral boarder. Statistical analysis was performed to evaluate CT and to correlate it with age, refractive error in eyes without diabetic retinopathy.

Results: We studied 65 eyes of 38 patients (30 eyes were of diabetic patients) aged between 26 and 79 years. There were 17 males and 21 females in which 30 eyes were of 21 diabetic patients and 35 eyes were of 19 non-diabetic patients. It was observed that, the mean CT had no significant difference between patients with diabetes mellitus and non- diabetic subjects (256±108 um vs. 265±105 um), p=0.51.

Conclusion: Patients with diabetes mellitus had a slightly but statistically insignificant, thicker sub-foveal choroid than non-diabetic patients

Biography

Mouna Al Saad is a Consultant Ophthalmologist and an Assistant Professor in the Department of Ophthalmology at the University of Jordan. Her topics of interests are Vitreoretinal Surgery, Corneal Graft and Modern Cataract Surgery. She is a member of the Jordanian Ophthalmic Society and fellow of the Royal College of Physicians and Surgeons of Glasgow, UK. She has already worked as a Researcher, Teaching Assistant and a General Ophthalmologist in the University of Jordan, and Jordan University Hospital, Jordan. She has done her Medical degree from the University of Jordan, School of Medicine, Jordan. She has done her Residency in Ophthalmology from the Jordan University Hospital, University of Jordan.

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