

## **CHOROIDAL THICKNESS CHANGES INDUCED BY CATARACT SURGERY**

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**Purpose:** The aim of this study was to evaluate and compare the potential changes in subfoveal choroidal thickness after univalent cataract surgery using spectral-domain optical coherence tomography (SD-OCT) (RS-3000, Nidek). **Methods:** The study enrolled 23 patients between 36-85 years (mean 69, 04 +/-12,64 [SD] years) who had phacoemulsification and IOL implantation. Choroidal thickness of operative and non-operative eye were performed manually using the calipers with SD-OCT. Choroidal thickness was obtained at the subfovea, 1000 µm and 2000 µm nasal to the fovea and 1000 µm, 2000 µm temporal to the fovea, total five different locations. Measurements were performed at the same time 8-9AM preoperatively, 1 day, 7 days and 1 month after surgery. **Results:** No statistically significant changes found in choroidal thickness in five different locations after cataract surgery, when measurements of operative eye before surgery compared to measurements after 1 day, 7 days and 1 month. No statistically significant changes found in choroidal thickness in five different locations after surgery, when measurements of operative eye compared to non-operative eye after 1 day, 7 days and 1 month after surgery. **Conclusions:** Our study suggests that choroidal changes after cataract surgery are not significant. However study could have a lack of representative sample as well as accuracy of measurements that were taken manually.