

## Spectralis optical coherence tomography normal macular thickness in Egyptians

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The aim of this study was to determine the normative data of macular thickness in the Egyptian population and to assess the effect of different demographic data and ocular parameters on it using spectral-domain optical coherence tomography (SD-OCT).

This cross-sectional study included 105 healthy Egyptian patients, who underwent a comprehensive ophthalmic examination, including Spectralis SD-OCT scanning, at Alexandria Main University Hospital. One eye from each patient was chosen randomly to be included in the study. Macular thickness was calculated based on center thickness and nine areas that corresponded to the Early Treatment Diabetes Retinopathy Study map using OCT mapping software. The relationships between macular thickness and sex, age, axial length (AL), spherical equivalent, keratometry readings, intraocular pressure, BMI, parity, and use of oral contraceptive pills were analyzed.

The study included 49 male and 56 female patients. The mean age of the patients was  $40.41 \pm 14.17$  years. The mean central subfield thickness was  $262.70 \pm 19.64 \mu\text{m}$ . The mean macular thickness values in all areas of the Early Treatment Diabetes Retinopathy Study map were significantly greater in men than in women. As age increased, outer macular thickness decreased significantly in the overall group.  $0.89 \times 10^{-8} y^0 + 0.0003 BCC3 (8y9o) - 5 (lg4 (e.89x) - 4w 0 - 1)6 (er in m)4 (en .se.89x) - 4.9 y9o lg4 men 0.9 (cr)1sr$

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