Local retinal sensitivity in relation to specific retinopathy lesions in diabetic macular oedema

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Abstract:

Purpose: To study microperimetric macular sensitivity in diabetic macular oedema (DMO) in relation to lesion characteristics obtained by optical coherence tomography (OCT), colour fundus photography, and fluorescein angiography (FA). Methods: The study comprised 20 eyes in 15 patients with nonproliferative diabetic retinopathy and recently diagnosed untreated DMO. Investigations included microperimetry, fluorescein angiography, colour fundus photography, and OCT. All measures and gradings were made for each of the nine fields of an early treatment diabetic retinopathy study macula template. Statistical analysis was made using Spearman's nonparametric test including field and mean values within fields. Comparisons were made within the study population and with a normative microperimetry database. Results: Subnormal microperimetric sensitivity was associated with cystoid macular oedema, both in foveal petaloid (r = 0.50, p = 0.02) and extrafoveal honeycomb patterns (r = 0.8, p

Keywords:

- colour fundus photography
- cystoid macular oedema
- diabetic macular oedema
- diabetic retinopathy
- fluorescein angiography
- hard exudate
- microperimetry
- optical coherence tomography

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