Abnormal Cambridge low-contrast grating sensitivity results associated with diabetic retinopathy as a potential screening tool

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Abstract

Contrast sensitivity is proposed as a potential screening tool for the early detection of diabetic retinopathy. A cross-sectional study was performed in a tertiary referral university eye centre. A total of 80 diabetes patients were recruited and tests were performed on 154 eyes. Contrast sensitivity was checked using Cambridge low-contrast grating. Abnormal contrast sensitivity was observed in 27.1% of eyes with diabetic retinopathy, compared with 9.0% in unaffected eyes, a statistically significant difference. Cambridge low-contrast, grating is a potential screening tool for early detection of diabetic retinopathy by non-ophthalmologists.

References (38)

