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

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Abstract

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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.

Reaxys Database Information

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Indexed Keywords

EMTREE drug terms: antidiabetic agent; insulin

EMTREE medical terms: adult; article; contrast sensitivity; controlled study; cross-sectional study; diabetes mellitus; diabetic retinopathy; diagnostic value; diet therapy; disease course; early diagnosis; female; human; major clinical study; male; visual acuity

MeSH: Aged; Analysis of Variance; Case-Control Studies; Chi-Square Distribution; Contrast Sensitivity; Cross-Sectional Studies; Diabetes Mellitus, Type 1; Diabetes Mellitus, Type 2; Diabetic Retinopathy; Disease Progression; Early Diagnosis; Female; Humans; Iran; Male; Ophthalmoscopy; Questionnaires; Sensitivity and Specificity; Severity of Illness Index; Single-Blind Method; Time Factors; Vision Screening; Visual Acuity

Medline is the source for the MeSH terms of this document.

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