TITLE: Genetic Testing for Glaucoma: Diagnostic Accuracy and Reliability

DATE: 30 September 2008

RESEARCH QUESTION:

What is the diagnostic accuracy and reliability of performing genetic testing for the detection of glaucoma?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 3, 2008), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. Results include articles published between 2003 and September 2008 and are limited to English publications only. Filters were applied to limit the retrieval to systematic reviews, health technology assessments, meta-analyses, randomized controlled trials, clinical studies, and observational studies. Internet links are provided where available.

RESULTS:

HTIS reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews and meta-analyses are presented first. These are followed by randomized controlled trials and observational studies.

One systematic review and meta-analysis that assessed the association between MYOC mt1 promoter polymorphism and the risk of primary open-angle glaucoma was identified. Several observational trials were also identified pertaining to genetic testing for the detection of glaucoma. No relevant health technology assessments or randomized controlled trials were identified. Additional articles of interest are located in the Appendix.

Health technology assessments
No literature identified

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Systematic reviews and meta-analyses


Randomized controlled trials
No literature identified

Observational studies


APPENDIX – FURTHER INFORMATION:

Review articles


Additional references