TITLE: Minimally Invasive Glaucoma Surgery: Clinical and Cost-Effectiveness and Guidelines

DATE: 27 April 2016

RESEARCH QUESTIONS

1. What is the clinical effectiveness of minimally invasive glaucoma surgery in adult patients with glaucoma?

2. What is the cost-effectiveness of minimally invasive glaucoma surgery in adult patients with glaucoma?

3. What are the evidence-based guidelines associated with surgical treatments for glaucoma?

KEY FINDINGS

One health technology assessment, four systematic reviews, three randomized controlled trials, one non-randomized study, one economic evaluation, and one evidence-based guideline were identified regarding minimally invasive glaucoma surgery.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library, University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. No filters were applied to the main search to limit the retrieval by study type. Methodological filters were applied for research question 3 to limit retrieval to guidelines. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2011 and April 21, 2016. Internet links were provided, where available.
SELECTION CRITERIA

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

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<tr>
<th>Table 1: Selection Criteria</th>
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<td><strong>Population</strong></td>
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<td><strong>Intervention</strong></td>
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<td><strong>Comparator</strong></td>
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<td><strong>Outcomes</strong></td>
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<td><strong>Study Designs</strong></td>
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RESULTS

Rapid Response 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, non-randomized studies, economic evaluations, and evidence-based guidelines.

One health technology assessment, four systematic reviews, three randomized controlled trials, one non-randomized study, one economic evaluation, and one evidence-based guideline were identified regarding minimally invasive glaucoma surgery.

Additional references of potential interest are provided in the appendix.

Health Technology Assessments

   Note: Term “minimally invasive” not used within report
Systematic Reviews and Meta-Analyses


Randomized Controlled Trials


Non-Randomized Studies

Economic Evaluations


Guidelines and Recommendations


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APPENDIX – FURTHER INFORMATION:

Randomized Controlled Trials – Alternate Comparator


Non-Randomized Studies – No Comparator Group


Clinical Practice Guidelines – Methodology Not Specified


Horizon Scan

Review Articles


PubMed: PM24369494

PubMed: PM22978183

PubMed: PM22249233

Additional References

PubMed: PM22922664