Title: Carotid Stenting versus Carotid Endarterectomy for the Management of Carotid Artery Atherosclerosis: Clinical and Cost-effectiveness and Guidelines for Use

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Research question:

1. What is the clinical effectiveness of carotid stenting versus carotid endarterectomy for the prevention of stroke in adults diagnosed with carotid artery atherosclerosis?

2. What is the cost-effectiveness of carotid stenting versus carotid endarterectomy for the prevention of stroke in adults diagnosed with carotid artery atherosclerosis?

3. What are the guidelines for the prevention of stroke in adults diagnosed with carotid artery atherosclerosis?

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 HTA agencies, and a focused Internet search. Results include articles published between 2003 and July 2008, and are limited to English language publications only. Filters were applied to limit the retrieval to systematic reviews, health technology assessments, meta analyses, guidelines, economic evaluations, and randomized controlled trials. 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 economic evaluations, randomized controlled trials (RCTs), observational studies and evidence-based guidelines.

Eleven systematic reviews and meta-analyses, three economic evaluations, six RCTs and four guidelines were identified pertaining to the clinical and cost-effectiveness of carotid stenting.
versus carotid endarterectomy for the prevention of stroke in adults diagnosed with carotid artery atherosclerosis. Additional information that may be of interest, including a sub-analysis of an included RCT, can be found in the Appendix.

**Health technology assessments**
No literature identified.

**Systematic reviews and meta-analyses**


**Economic analyses and cost information**


**Randomized controlled trials**


Guidelines and recommendations


   *See section 3.7: Carotid intervention*


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Appendix – Further information:

Sub-analysis of included RCT


Reviews


Additional references

