TITLE: Catheters for the Management of Malignant Ascites: Clinical and Cost Effectiveness and Guidelines

DATE: 16 March 2011

RESEARCH QUESTIONS:

1. What is the clinical effectiveness of long-term indwelling tunnelled pleural catheters or short-term catheters for abdominal paracentesis for the management of malignant ascites?

2. What is the cost-effectiveness of long-term indwelling tunnelled pleural catheters or short-term catheters for abdominal paracentesis for the management of malignant ascites?

3. What are the guidelines for use of long-term indwelling tunnelled pleural catheters or short-term catheters for abdominal paracentesis for the management of malignant ascites?

KEY MESSAGE

No studies directly compared long-term indwelling catheters with short-term catheters for the management of ascites. Limited evidence derived from a systematic review of non-randomized studies suggests that indwelling catheters may be safe and effective in the management of malignant ascites.

METHODS

A limited literature search was conducted on key resources including PubMed, Embase, The Cochrane Library (2011, Issue 2), 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 limit the retrieval by study type. Where possible, retrieval was limited to the human population and conference abstracts were removed. The search was also limited to English language documents published between January 1, 2006 and March 9, 2011. Internet links were provided, where available.
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.

There were no studies which directly addressed clinical safety and effectiveness of long-term indwelling tunneled pleural catheters compared with short-term catheters for abdominal paracentesis for the management of malignant ascites. The literature search identified three systematic reviews. One systematic review reported the results of a systematic review and guidelines concerning malignant ascites, another one reported the results of long-term catheter use for managing ascites with a systematic literature review and a retrospective chart review and a third one investigated the management of drainage for malignant ascites in gynaecological cancer. There were seven non-randomized studies including two prospective studies, two retrospective studies, and three individual case reports. There were no health technology assessments, randomized controlled trials, economic evaluations identified.

Health technology assessments
No literature identified.

Systematic reviews and meta-analyses


Randomized controlled trials
No literature identified.

Non-randomized studies

Prospective studies

Retrospective studies


Individual case reports


Economic evaluations
No literature identified.

Guidelines and recommendations


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APPENDIX – FURTHER INFORMATION:

Review articles

PubMed: PM21326592

PubMed: PM16530120

Additional references

PubMed: PM17187534