TITLE: Temporary Pacemaker Insertion for Patients with Severe Bradycardia: Clinical Effectiveness and Guidelines

DATE: 26 August 2008

RESEARCH QUESTION:

1. What is the clinical effectiveness of fluoroscopy versus semi-floating or flexible balloon-tipped catheters for the insertion of temporary transcutaneous pacemakers in adult patients with severe bradycardic dysrhythmias?

2. What are the guidelines for the use of fluoroscopy for the insertion of temporary transcutaneous pacemakers for adult patients with severe bradycardic dysrhythmias?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (2008, Issue 3), 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 August 2008, and are limited to English publications only. No filters were applied to limit the retrieval by study type. 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, observational studies, and evidence-based guidelines.

One systematic review and one observational study were identified pertaining to the use of temporary transcutaneous pacemakers for the prevention or treatment of adult patients with severe bradycardic dysrhythmias. None of the studies directly compared fluoroscopy with semi-floating or flexible balloon-tipped catheters for the insertion of temporary transcutaneous pacemakers.
pacemakers. No relevant health technology assessments RCTs, or evidence based guidelines were identified. Additional information that may be of interest has been included in the Appendix.

**Health technology assessments**
No literature identified.

**Systematic reviews and meta-analyses**


**Randomized controlled trials**
No literature identified.

**Observational studies**


**Guidelines and recommendations**
No literature identified

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APPENDIX – FURTHER INFORMATION:

Observational studies


Guidelines and recommendations


Additional references
