TITLE: C-Arm Diagnostic Imaging for Temporary Pacemaker Insertions and Closed Orthopedic Reductions: Clinical Effectiveness, Accuracy, and Guidelines for Use

DATE: 25 February 2009

RESEARCH QUESTIONS:

1. What is the clinical effectiveness of C-Arm diagnostic imaging in patients requiring temporary pacemaker insertions or closed orthopedic reductions?

2. What is the accuracy of C-Arm diagnostic imaging compared with fluoroscopy when used in patients requiring temporary pacemaker insertions or closed orthopedic reductions?

3. What are the guidelines for the use of C-Arm diagnostic imaging in patients requiring temporary pacemaker insertions or closed orthopedic reductions?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 1, 2009), 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 1999 and February 2009, and are limited to English language publications only. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses randomized controlled trials, controlled clinical trials, observational studies, and guidelines. 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, controlled clinical trials, observational studies, and evidence-based guidelines.
Ten observational studies on closed orthopedic reductions were identified from the literature search results. No health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, or guidelines were identified. Additional articles that may be of interest have been included in the appendix. No studies on the use of C-arm for pacemaker insertions were identified.

**Health technology assessments**
No literature identified.

**Systematic reviews and meta-analyses**
No literature identified.

**Randomized controlled trials**
No literature identified.

**Controlled clinical trials**
No literature identified.

**Observational studies**


**Guidelines and recommendations**
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Review articles


