TITLE: Digital Tomosynthesis of the Breast: Clinical Effectiveness, Cost-Effectiveness, and Guidelines

DATE: 07 December 2009

RESEARCH QUESTIONS:

1. What is the clinical effectiveness of tomosynthesis for managing patients with suspected breast cancer?

2. What is the cost-effectiveness of tomosynthesis of the breast?

3. What are the guidelines for use of tomosynthesis of the breast?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 4, 2009), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. The search was limited to English language articles published between 2004 and December 2009. No filters were applied to limit the retrieval by study type. Internet links were 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, economic evaluations, and evidence-based guidelines.

Seven observational studies were identified pertaining to the clinical effectiveness of tomosynthesis for managing patients with suspected breast cancer. No relevant health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, economic evaluations, 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
No literature identified.

Randomized controlled trials
No literature identified.

Controlled clinical trials
No literature identified.

Observational studies

Economic evaluations
No literature identified.

Guidelines and recommendations
No literature identified.
APPENDIX – FURTHER INFORMATION:

Observational studies


Observational studies - Computer aided detection


Review articles


See section 3.4.3 Tomosynthesis (p. 10-11) for very brief discussion


Additional references


