TITLE: Ultrasound-Guided Wire Localizations Compared with Mammographic Stereo Localizations Prior to Surgery of the Breast: Clinical Effectiveness, Cost-Effectiveness, and Guidelines

DATE: 07 December 2009

RESEARCH QUESTIONS:

1. What is the clinical effectiveness of ultrasound-guided wire localizations compared with mammographic stereo localizations prior to surgery of the breast?

2. What is the cost-effectiveness of ultrasound-guided wire localizations compared with mammographic stereo localizations prior to surgery of the breast?

3. What are the guidelines for the use of ultrasound-guided wire localizations compared with mammographic stereo localizations prior to surgery 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. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, observational studies, economic studies, and guidelines. 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.
Three observational studies regarding the clinical effectiveness of ultrasound-guided wire localizations compared with mammographic stereo localizations prior to surgery of the breast were identified. No relevant articles were identified regarding the cost-effectiveness or guidelines for the use of ultrasound-guided wire localizations compared with mammographic stereo localizations prior to surgery of the breast. An additional article of potential interest can be found 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

**PREPARED BY:**
Michelle Clark, BSc, Research Assistant
Jessie Cunningham, MISt, Information Specialist
Raymond Banks, MLS, Information Specialist

**Health Technology Inquiry Service**
Email: htiis@cadth.ca
Tel: 1-866-898-8439
APPENDIX – FURTHER INFORMATION:

Clinical practice guidelines


See pg 126: VI. Pre-operative localization of non-palpable breast lesions