TITLE: InFUSE® Bone Grafts for Spinal Fusion Surgery: Clinical Effectiveness and Indications for Use in Canada

DATE: 19 January 2009

RESEARCH QUESTIONS:

1. What is the clinical effectiveness and safety of InFUSE® bone grafts for adult patients with degenerative disc disease requiring lumbar spinal fusion surgery?

2. Are InFUSE® bone grafts approved by Health Canada for any indications?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 4, 2008), 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 2004 and January, 2009, and are limited to English language 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 randomized controlled trials, controlled clinical trials, and observational studies.

One health technology assessment, three randomized controlled trials, and three observational studies were identified regarding the clinical effectiveness and safety of InFUSE® bone grafts for adult patients with degenerative disc disease requiring lumbar spinal fusion surgery. One literature review conducted by the Ontario Ministry of Health and Long-Term Care (reference 14) contains information about the regulatory status of InFUSE® bone grafts in Canada. No relevant systematic reviews, meta-analyses, or controlled clinical trials were identified. Additional articles of interest are located in the appendix.

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Health technology assessments


Systematic reviews and meta-analyses
No literature identified

Randomized controlled trials


Controlled clinical trials
No literature identified

Observational studies


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APPENDIX – FURTHER INFORMATION:

Economic analyses


Review articles


Additional references