TITLE: PET and SPECT for the Management of Dementia: Clinical- and Cost-Effectiveness

DATE: 22 May 2009

RESEARCH QUESTIONS:

1. What are the differences in the management of dementia when diagnosed with PET or SPECT?

2. What is the cost-effectiveness of PET versus SPECT for the diagnosis of dementia?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 2, 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 May, 2009. In the case of controlled clinical trials, however, the date of publication was restricted to between 2008 and May, 2009 due to the large number of citations. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, economic studies and controlled clinical trials. 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, and economic evaluations.

Two health technology assessments and one systematic review were identified associated with the management of dementia when diagnosed with PET or SPECT. Two economic evaluations were identified pertaining to the cost-effectiveness of PET or SPECT. No relevant randomized...
controlled trials or controlled clinical trials were identified. Additional information that may be of interest has been included in the appendix.

**Health technology assessments**

   
   See section 7


**Systematic reviews and meta-analyses**


**Randomized controlled trials**
No literature identified.

**Controlled clinical trials**
No literature identified.

**Economic evaluations**


**PREPARED BY:**
Kristen Moulton, BA, Research Assistant
Raymond Banks, AB, MA, MLS, Information Specialist
Health Technology Inquiry Service
Email: [htis@cadth.ca](mailto:htis@cadth.ca)
APPENDIX – FURTHER INFORMATION:

Observational studies
