TITLE: The Standardized Mini-Mental State Exam for Screening Adults with Cognitive Impairment: Clinical Effectiveness and Diagnostic Accuracy

DATE: 18 February 2010

RESEARCH QUESTIONS:

1. What are the diagnostic accuracy, validity, and reliability of using the Standardized Mini-Mental State Exam screening tool in adults with cognitive impairment?

2. What is the evidence for the use of the Standardized Mini-Mental State Exam screening tool for the prediction of functional outcomes such as daily living activities?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, PsycINFO, PEDRO, OT Seeker, the Cochrane Library (Issue 1, 2010) including DARE, 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 1999 and Feb 2010. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials and observational studies. Internet links were provided, where available. Due to the large numbers of results identified by the literature search, only studies from 2005 to 2010 were included in this report.

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 meta-analysis, one controlled clinical trial, and 37 observational studies were identified regarding the diagnostic accuracy, validity, and reliability of using the Standardized Mini-Mental
State Exam screening tool in adults with cognitive impairment. Five observational studies were identified regarding the evidence for the use of the Standardized Mini-Mental State Exam screening tool for the prediction of functional outcomes such as daily living activities. No relevant health technology assessments, systematic reviews, or randomized controlled trials were identified. Additional articles of potential interest can be found in the appendix.

Health technology assessments
No literature identified

Systematic reviews and meta-analyses

Randomized controlled trials
No literature identified

Controlled clinical trials

Observational studies


PREPARED BY:
Michelle Clark, BSc, Research Assistant
Melissa Severn, MISt, Information Specialist

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

Observational studies


Review articles


*Note: see The Limits of the MMSE as a tool for Primary & Secondary Care, page 13*


Additional references