Supplemental Digital Appendix 1

Specific Search Terms and Strategy for a Systematic Review to Compare Open- and Closed-Book Examinations, 2013–2014

We included the following keywords or their combinations: open book exam, open book examination, open book test, closed book exam, closed book examination, closed book test, computer aided test, web based examination.

Example search strategy:

MEDLINE (Ovid)

MEDLINE (OVID) Search Strategy (June 7, 2013):

Notes: 1,340 retrieved -73 duplicate records = 1,267 total

Search Strategy 1:

((computer or web or paper or internet) adj (aided or based) adj3 (assess\$ or test\$ or exam\$ or curriculum or learning or evaluat\$ or teaching)).ti,ab.

AND

(exp education, professional/ or ("professional education" or "medical education" or "nursing education" or "graduate education" or clerkship\$ or residen& or student\$).mp.)

Search Strategy 2:

((open or closed) adj1 (book or web) adj4 (assess\$ or test\$ or exam\$)).ti,ab.

Searches OR together and limited to English Language

ERIC Datatabase

ERIC Search (June 7, 2013):

Search Strategy 1: 46 records

All Fields: ("open book" OR "closed book" OR "open web") AND (assess* OR test* OR exam*) Limits: Peer Review

Search Strategy 2: 557 records

Thesaurus Descriptors: "Tests"

AND

Keywords:computer OR web OR paper OR internet

AND

(Keywords:assess* OR test* OR exam* OR curriculum OR learning OR evaluat* OR teaching AND Limits: Peer Review

Duplicates removed: 34

EMBASE

July 1 2013 (2,619 articles)

Search 1:

'computer aided':ab,ti OR 'computer based':ab,ti OR 'web based':ab,ti OR 'paper based':ab,ti OR 'internet based':ab,ti

AND

assess*:ab,ti OR test*:ab,ti OR exam*:ab,ti OR curriculum:ab,ti OR learning:ab,ti OR evaluat*:ab,ti OR teaching:ab,ti

AND

'medical student'/exp OR 'resident'/exp OR residency:ab,ti OR resident*:ab,ti OR 'clinical education'/exp OR clerkship* OR 'nursing student'/exp OR student*:ab,ti

Search 2:

'open book' OR 'open web' OR 'closed book' AND (assess* OR test* OR exam*)

Limited to English AND EMBASE

Duplicates removed: 8

Supplemental Digital Appendix 2

Article Coding Sheet for a Systematic Review to Compare Open- and Closed-Book Examinations, 2013–2014

Reviewer Name: Date:					
1 st reviewer Section A. Basic information Reference Number:				3 rd revie	wer
Authors (First, second, third	author, et al):				
Title:					
Publication:		_Year	_Vol	Issue	_Pages
Search Method:					
Electronic search					
Hand search (e.g. bibliog	raphy of electronic search,	recomme	ended pap	per)	
Review paper Commentary/opin Conf. paper/proce Book Thesis		rical stud <u>y</u>	y		
2. Description of OBE					
3. Description of CBE					
4. Research question Stated (list Implied (list)
5. Stated hypothesis Stated (list)

	Implied (list
6.	Hypothesis justification Stated (list) Not clear
7.	Conceptual framework Stated (list) Not clear
Section	Exam performance Exam preparation Logistics Public perception Other (list) Anxiety or enjoyment Psychometrics Testing effects Judgment of learning
Section	1. Country 2. Student level College students High school students Medical students Other post-college settings Others (list)
	3. Test stakes High Medium Low
	4. Type of material tested (list)
	5. Test format (list)
	6. Number of questions
	7. Delay between learning and test Yes No

	8. Prior experience with OBE
	Yes No
	9. Incentive provided Yes No
	Description
2.	Within vs. Between subjects design
3.	Within Between Condition 1
4.	Condition 2
	Condition 3
6.	Condition 4
7.	Comparability of exam context Comparable Not comparable
8.	Comparable Not comparable Comparable Not comparable Comparable Not comparable
9.	Outcome 1
10.	Outcome 2
11.	Outcome 3
12.	Outcome 4
13.	Outcome 5
14.	Scoring Objective Subjective
	a E. Sample characteristics
	Total N
	OBE N
3.	CBE N

4.	. Age	
5.	. Other demographics noted	
	on F. Findings (include statistics) Outcome 1	
2.	. Outcome 2	
3.	. Outcome 3	
4.	. Outcome 4	
5.	. Outcome 5	
6.	. Main conclusion	
Casti	on G. Evaluation	
1.	. Trustworthiness	
	\bigcirc_5 \bigcirc_4 \bigcirc_3 \bigcirc_2 \bigcirc_1	
2.	. Rigour	
	\square_5 \square_4 \square_3 \square_2 \square_1	
3.	. Implementation	
	\bigcirc_5 \bigcirc_4 \bigcirc_3 \bigcirc_2 \bigcirc_1	
1	. Analysis	
7.	$\bigcirc 5 \bigcirc 4 \bigcirc 3 \bigcirc 2 \bigcirc 1$	
	05 04 03 02 01	
5.	. Include in the review Exclude from the review	
6.	. Limitations	
7.	. Additional references to check	
NT /		