

Supplemental Digital Appendix 3

List of Included Studies (n = 538) for a 2016 Scoping Review of Clinical Reasoning Assessment Methods^a

1.	Aagaard E, Teherani A, Irby DM. Effectiveness of the one-minute preceptor model for diagnosing the patient and the learner: proof of concept. Acad Med. 2004;79(1):42-9.	
2.	Aaraas IJ, Holtedahl K, Anvik T, et al. Examination of final-year medical students in general practice. Scand J Prim Health Care. 2007;25(4):198-201.	
3.	Abboudi H, Ahmed K, Normahani P, et al. Decision making in urological surgery. Int Urol Nephrol. 2012;44(3):701-10.	
4.	Abel WM, Freeze M. Evaluation of concept mapping in an associate degree nursing program. J Nurs Educ. 2006;45(9):356-64.	x
5.	Adams MH, Whitlow JF, Stover LM, Johnson KW. Critical thinking as an educational outcome: an evaluation of current tools of measurement. Nurse Educ. 1996;21(3):23-32.	x
6.	Adamson KA, Gubrud P, Sideras S, Lasater K. Assessing the reliability, validity, and use of the Lasater Clinical Judgment Rubric: three approaches. J Nurs Educ. 2012;51(2):66-73.	x
7.	Adrales GL, Park AE, Chu UB, et al. A valid method of laparoscopic simulation training and competence assessment. J Surg Res. 2003;114(2):156-62.	
8.	Agha H, Arora S, Sevdalis N. Quantitative assessment of expert and novice surgeons' thinking processes: an application to hernia repair. Am J Surg. 2011;202(1):110-15.	
9.	Ahmadi SF, Khoshkish S, Soltani-Arabshahi K, et al. Challenging script concordance test reference standard by evidence: do judgments by emergency medicine consultants agree with likelihood ratios? Int J Emerg Med. 2014;7(34):1-7.	
10.	Ahmed H, Rhydderch M, Matthews P. Can knowledge tests and situational judgement tests predict selection centre performance? Med Educ. 2012;46(8):777-84.	
11.	Ahopelto I, Mikkila-Erdmann M, Olkinuora E, Kaapa P. A follow-up study of medical students' biomedical understanding and clinical reasoning concerning the cardiovascular system. Adv Health Sci Educ. 2011;16(5):655-68.	
12.	Al-Naami MY, El-Tinay OF, Khairy GA, Mofti SS, Anjum MN. Improvement of psychometric properties of the objective structured clinical examination when assessing problem solving skills of surgical clerkship. Saudi Med J. 2011;32(3):300-4.	
13.	Aldekhayel SA, Alselaime NA, Magzoub ME, et al. Constructing a question bank based on script concordance approach as a novel assessment methodology in surgical education. BMC Med Educ. 2012;12:100.	
14.	Anastakis DJ, Cohen R, Reznick RK. The structured oral examination as a method for assessing surgical residents. Am J Surg. 1991;162(1):67-70.	
15.	Andersen DK. How can educators use simulation applications to teach and assess surgical judgment? Acad Med. 2012;87(7):934-41.	

16.	Andersen SM, Harthorn BH. The Diagnostic Knowledge Inventory: a measure of knowledge about psychiatric diagnosis. <i>J Clin Psychol.</i> 1989;45(6):999-1013.	
17.	Anderson JD, Jay SJ, Weng HC, Anderson MM. Studying the effect of clinical uncertainty on physicians' decision-making using ILIAD. <i>Medinfo.</i> 1995;8(Pt 2):869-72.	
18.	Anderson K, Peterson R, Tonkin A, Cleary E. The assessment of student reasoning in the context of a clinically oriented PBL program. <i>Med Teach.</i> 2008;30(8):787-94.	
19.	Ansari AA, Ali SK, Donnon T. The construct and criterion validity of the mini-CEX: a meta-analysis of the published research. <i>Acad Med.</i> 2013;88(3):413-20.	
20.	Artino AR. Exploring clinical reasoning in novices: a self-regulated learning microanalytic assessment approach. <i>Med Educ.</i> 2014;48(3):280-91.	
21.	Bader JD, Shugars DA. Variation in dentists' clinical decisions. <i>J Public Health Dent.</i> 1995;55(3):181-88.	x
22.	Badger LW, deGruy F, Hartman J, et al. Stability of standardized patients' performance in a study of clinical decision making. <i>Fam Med.</i> 1995;27(2):126-31.	
23.	Bakalis N. Clinical decision-making in cardiac nursing: a review of the literature. <i>Nurs Stand.</i> 2006;21(12):39-46.	x
24.	Baker EA, Connell KJ, Bordage G, Sinacore J. Can diagnostic semantic competence be assessed from the medical record? <i>Acad Med.</i> 1999;74(10 Suppl):S13-5.	
25.	Baker EA, Ledford CH, Fogg L, Way DP, Park YS. The IDEA Assessment Tool: Assessing the Reporting, Diagnostic Reasoning, and Decision-Making Skills Demonstrated in Medical Students' Hospital Admission Notes. <i>Teach Learn Med.</i> 2015;27(2):163-73.	
26.	Balslev T, Jarodzka H, Holmqvist K, et al. Visual expertise in paediatric neurology. <i>Eur J Paediatr Neurol.</i> 2012;16(2):161-66.	
27.	Bartlett DJ, Cox PD. Measuring change in students' critical thinking ability: implications for health care education. <i>J Allied Health.</i> 2002;31(2):64-9.	x
28.	Ber R. The CIP (comprehensive integrative puzzle) assessment method. <i>Med Teach.</i> 2003;25(2):171-6.	
29.	Bereby-Meyer Y, Meyer J, Budescu DV. Decision making under internal uncertainty: the case of multiple-choice tests with different scoring rules. <i>Acta Psychol (Amst).</i> 2003;112(2):207-20.	x
30.	Berger AJ, Gillespie CC, Tewksbury LR, et al. Assessment of medical student clinical reasoning by "lay" vs physician raters: inter-rater reliability using a scoring guide in a multidisciplinary objective structured clinical examination. <i>Am J Surg.</i> 2012;203(1):81-86.	
31.	Bersky AK. The validity of a new test of nursing competence [dissertation]. Chicago: The University of Chicago; 1994.	x
32.	Beullens J, Damme BV, Jaspaert H, Janssen PJ. Are extended-matching multiple-choice items appropriate for a final test in medical education? <i>Med Teach.</i> 2002;24(4):390-5.	
33.	Beullens J, Struyf E, Damme BV. Do extended matching multiple-choice questions measure clinical reasoning? <i>Med Educ.</i> 2005;39(4):410-7.	
34.	Beullens J, Struyf E, Damme BV. Diagnostic ability in relation to clinical seminars and extended-matching questions examinations. <i>Med Educ.</i> 2006;40(12):1173-9.	

35.	Bhakta B, Tennant A, Horton M, Lawton G, Andrich D. Using item response theory to explore the psychometric properties of extended matching questions examination in undergraduate medical education. BMC Med Educ. 2005;5(1):1-13.	
36.	Bland AC, Kreiter CD, Gordon JA. The psychometric properties of five scoring methods applied to the script concordance test. Acad Med. 2005;80(4):395-9.	
37.	Bordage G, Brailovsky C, Carretier H, Page G. Content validation of key features on a national examination of clinical decision-making skills. Acad Med. 1995;70(4):276-81.	
38.	Bordage G, Carretier H, Bertrand R, Page G. Comparing times and performances of French- and English-speaking candidates taking a national examination of clinical decision-making skills. Acad Med. 1995;70(5):359-65.	
39.	Bordage G, Connell KJ, Chang RW, Gecht MR, Sinacore JM. Assessing the semantic content of clinical case presentations: studies of reliability and concurrent validity. Acad Med. 1997;72(10 Suppl 1):S37-9.	
40.	Bordage G, Grant J, Marsden P. Quantitative assessment of diagnostic ability. Med Educ. 1990;24(5):413-25.	
41.	Boshuizen HP, Vleuten CPvd, Schmidt HG, Machiels-Bongaerts M. Measuring knowledge and clinical reasoning skills in a problem-based curriculum. Med Educ. 1997;31(2):115-21.	
42.	Boulouffe C, Charlin B, Vanpee D. Evaluation of clinical reasoning in basic emergencies using a script concordance test. Am J Pharm Educ. 2010;74(10):1-6.	
43.	Boulouffe C, Doucet B, Muschart X, Charlin B, Vanpee D. Assessing clinical reasoning using a script concordance test with electrocardiogram in an emergency medicine clerkship rotation. Emerg Med J. 2014;31(4):313-6.	
44.	Bowles KS. Effects of critical thinking, grade point average, and college experience on the clinical judgement skills of baccalaureate nursing students [dissertation]. Los Angeles: University of Southern California; 1997.	x
45.	Bradley P, Humphris G. Assessing the ability of medical students to apply evidence in practice: The potential of the OSCE. Med Educ. 1999;33(11):815-17.	
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48.	Branch BJ. The relationship among critical thinking, clinical decision making, and clinical practica: A comparative study [dissertation]. Moscow: University of Idaho; 2000.	x
49.	Brazeau-Lamontagne L, Charlin B, Gagnon R, Samson L, Van der Vleuten C. Measurement of perception and interpretation skills during radiology training: utility of the script concordance approach. Med Teach. 2004;26(4):326-32.	

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51.	Brunt BA. Models, measurement, and strategies in developing critical-thinking skills. <i>J Contin Educ Nurs.</i> 2005;36(6):255-62.	x
52.	Brunt BA. Critical thinking in nursing: an integrated review. <i>J Contin Educ Nurs.</i> 2005;36(2):60-67.	x
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54.	Burbach B, Barnason S, Thompson SA. Using "think aloud" to capture clinical reasoning during patient simulation. <i>Int J Nurs Educ Scholarsh.</i> 2015;12(1):1-7	x
55.	Burchard KW, Rowland-Morin PA, Coe NP, Garb JL. A surgery oral examination: Interrater agreement and the influence of rater characteristics. <i>Acad Med.</i> 1995;70(11):1044-46.	
56.	Burdick WP, Ben-David MF, Swisher L, et al. Reliability of performance-based clinical skill assessment of emergency medicine residents. <i>Acad Emerg Med.</i> 1996;3(12):1119-23.	
57.	Burke MD, Connelly DP. Systematic instruction in laboratory medicine. Effects on the clinical problem solving performance of medical students. <i>Hum Pathol.</i> 1981;12(2):134-44.	
58.	Bussard M. Interpretive description of clinical judgment within reflective journals of nursing students participating in high-fidelity simulation [dissertation]. Phoenix: University of Phoenix; 2013.	x
59.	Byrnes M, West S. Registered nurses' clinical reasoning abilities: a study of self perception. <i>Aust J Adv Nurs.</i> 2000;17(3):18-23.	x
60.	Caire F, Sol JC, Moreau JJ, Isidori P, Charlin B. Self-assessment for neurosurgery residents by script concordance test (SCT). The process of test elaboration. <i>Neurochirurgie.</i> 2004;50(1):66-72.	
61.	Cameron CA, Beemsterboer PL, Johnson LA, Mislevy RJ, Steinberg LS, Breyer FJ. A cognitive task analysis for dental hygiene. <i>J Dent Educ.</i> 2000;64(5):333-51.	x
62.	Capaldi V, Durning S, Pangaro L, Ber R. The Clinical Integrative Puzzle (CIP) for teaching and assessing clinical reasoning: Preliminary feasibility, reliability and validity evidence. <i>Mil Med.</i> 2015;180(suppl):54-60.	
63.	Carrier A, Leyasseur M, Bedard D, Desrosiers J. Community occupational therapists' clinical reasoning: identifying tacit knowledge. <i>Aust Occup Ther J.</i> 2010;57(6):356-65.	x
64.	Carriere B, Gagnon R, Charlin B, Downing S, Bordage G. Assessing clinical reasoning in pediatric emergency medicine: validity evidence for a Script Concordance Test. <i>Ann Emerg Med.</i> 2009;53(5):647-52.	
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69.	Catolico O, Navas CM, Sommer CK, Collins MA. Quality of decision making by registered nurses. J Nurs Staff Dev. 1996;12(3):149-54.	x
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79.	Charlin B, Van der Vleuten C. Standardized assessment of reasoning in contexts of uncertainty: the script concordance approach. Eval Health Prof. 2004;27(3):304-319.	
80.	Chatterjee S, Ng J, Kwan K, Matsumoto ED. Assessing the surgical decision making abilities of novice and proficient urologists. J Urol. 2009;181(5):2251-56.	
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84.	Christie LA. Expertise in nurses' clinical judgments: the role of cognitive variables and experience [dissertation]. Vancouver: University of British Columbia; 1996.	x
85.	Cigelman MS. An assessment of clinical decision-making skills across a physical therapy curriculum [dissertation]. Des Moines: Drake University; 1996.	x
86.	Cise JS, Wilson CS, Thie MJ. A qualitative tool for critical thinking skill development. <i>Nurse Educ.</i> 2004;29(4):147-51.	x
87.	Clarke JR. The role of decision skills and medical knowledge in the clinical judgment of surgical residents. <i>Surgery.</i> 1982;92(2):153-58.	
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99.	Collins A. Effect of continuing nursing education on nurses' attitude toward and accuracy of nursing diagnosis. <i>Pediatr Obes.</i> 2013;24(3):122-8.	x
100.	Colton T, Peterson OL. An assay of medical students' abilities by oral examination. <i>J Med Educ.</i> 1967;42(11):1005-14.	

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119.	Deschenes MF, Charlin B, Gagnon R, Goudreau J. Use of a script concordance test to assess development of clinical reasoning in nursing students. <i>J Nurs Educ.</i> 2011;50(7):381-7.	x
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139.	Durning SJ, Costanzo ME, Artino AR, et al. Neural basis of nonanalytical reasoning expertise during clinical evaluation. <i>Brain Behav.</i> 2015;5(3):e309-19.	
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142.	Edelen BG. Measuring and enhancing clinical decision-making ability among students in an Associate Degree Nursing program [dissertation]. Storrs: University of Connecticut; 2009.	x
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^aAn x after the reference indicates that it was removed from final synthesis as it focused on a health profession that was not medical student, resident, or practicing physician.