

**Multiple Choice Questions: References**

1. Case, SM, Swanson, DB: Constructing Written Test Questions for the Basic and Clinical Sciences, 3<sup>rd</sup> edition (revised), National Board of Medical Examiners, 2002. (available as PDF at [www.nbme.org](http://www.nbme.org))
2. Beullens J, Struyf E, VanDamme B: Do extended matching multiple-choice questions measure clinical reasoning? *Medical Education* 2005; 39:410-417.
3. Burns ER: "Anatomizing" reversed: Use of examination questions that foster use of higher order learning skills by students. *Ana Sci Educ.* 2010; 6:330-334.
4. Coderre SP, Harasym P, Mandin H, Fick G: The impact of two multiple-choice question formats on the problem-solving strategies used by novices and experts. *BioMed Central Medical Education* 2004; 4:23
5. Collins, J: Writing Multiple-Choice Questions for Continuing Medical Education Activities and Self-Assessment Modules. *Radiographics* 2006; 26:543-551.
6. Cuddy MM, Dillon GF, Clauser BE, Holtzman KZ, Margolis MJ, McEllhenney SM, Swanson DB: Assessing the Validity of the USMLE Step 2 Clinical Knowledge Examination through an Evaluation of its Clinical Relevance. *Acad Med* 2004; 79: S43-45.
7. Epstein, RM: Assessment in Medical Education. *New England Journal of Medicine* 2007; 356:387-396.
8. Ferguson KJ: Beyond multiple choice questions: using case-based learning patient questions to assess clinical reasoning. *Medical Education*, 2006; 11:181-189.
9. Jozefowicz RF, Koeppen BM, Case S, Galbraith R, Swanson DB, GlewRH: The Quality of In-house Medical School Examinations. *Acad Med* 2002; 77:156-161.
10. McCoubrie, Paul: Improving the fairness of multiple choice questions: a literature review. *Medical Teacher*, 2004; 26:709-712.
11. Palmer EJ, Devitt PG: Assessment of higher order cognitive skills in undergraduate education: modified essay or multiple choice questions? *BMC Med Education*, 2007; 7:49.
12. Scharf, Eric M, Baldwin, Lynne P: Assessing multiple choice question tests—a mathematical perspective. *Active Learning in Higher Education*, 2007; 8:31-47.
13. Scouller LM, Prosser M: Students' experiences in studying for multiple choice question examinations. *Studies in Higher Education*, 1994; 19:267-279.
14. Swanson DB, Holtzman KZ, Allbee K, Clauser BE: Psychometric characteristics and response times for content-parallel extended-matching and one-best-answer items in relation to number of options. *Academic Medicine* 2006; 81 (10Suppl):S52-55.
15. Stupans, Ieva: Multiple choice questions: can they examine application of knowledge? *Pharmacy Education*, 2006; 6:59-63.
16. Tarrant M, Ware J: Impact of item-writing flaws in multiple-choice questions on student achievement in high stakes nursing assessments. *Medical Education*, 2008; 42:198-206.