Online Supplementary Appendix 1: List of search terms used on PubMed

Terms	Engine	Articles Found
(((competenc*[Title/Abstract] OR skills[Title/Abstract])) AND	PubMed	6,459
(assessment[Title/Abstract] OR validation[Title/Abstract]))		
AND research[Title/Abstract]		
(((research skills OR research development[MeSH Terms]))	PubMed	2,457
AND (professional competence OR competency-based		
education[MeSH Terms])) AND graduate medical		
education[MeSH Terms]		
((research[Title/Abstract] AND training[Title/Abstract] AND	PubMed	625
competencies[Title/Abstract] AND clinical)[Title/Abstract])		
((((clinical research[Title/Abstract] OR medical	PubMed	117
research[Title/Abstract])) AND		
(competencies[Title/Abstract] OR skills[Title/Abstract])) AND		
(training[Title/Abstract] OR education[Title/Abstract])) AND		
(assessment[Title/Abstract] OR evaluation[Title/Abstract])		
((("measurement of competency based research	PubMed	31
education"[Text Word] OR "self-assessment in research		
education"[Text Word] OR "research competencies"[Text		
Word] OR "assessing clinical research"[Text Word])) AND		
("public health"[Text Word] OR "medical education"[Text		
Word] OR nursing[Text Word] OR pharmac*[Text Word] OR		
"public health"[Text Word] OR dentistry[Text Word] OR		
dental[Text Word])) AND (competence[Text Word] OR		
competencies[Text Word] OR "competency		
assessment"[Text Word] OR "educational		
measurement"[Text Word] OR "professional		
competence"[Text Word] OR "educational assessment"[Text		
Word] OR "learning assessment"[Text Word])		
((((clinical research OR research design [MeSH Terms]) AND	PubMed	799
(medical education OR research/education OR Educational		
Measurement OR Translational Medical Research/education		
OR education, graduate OR graduate medical		
education[MeSH Terms])) AND competency based		
education[MeSH Terms]))		
"research competencies"[tw]	PubMed	69
((((research[tw] AND training[tw] AND competencies[tw]))))	PubMed	1,967
((Biomedical Research/education [MeSH Terms]) AND	PubMed	564
(professional competence OR Competency-Based		
Education/methods [MeSH Terms])) AND (Educational		
Measurement OR Program evaluation [MeSH Terms])		