

## A comparison of patient, intervention, comparison, outcome (PICO) to a new, alternative clinical question framework for search skills, search results, and self-efficacy: a randomized controlled trial

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### APPENDIX D

#### Search skills grading rubric for comparison of patient, intervention, comparison, outcome (PICO) to new framework

Points/10	(4)	(3)	(2)	(1)	Incorrect/Missing (0)
Use of Medical Subject Headings (MeSH) /4	Selects all appropriate MeSH terms	Excludes one MeSH term Example: “low blood pressure” instead of Hypertension/ OR Uses an incorrect or inappropriate MeSH term, subheading or limit one time. Examples: <ul style="list-style-type: none"> <li>• Uses Adult/ for age limit</li> <li>• Limits to “middle age”</li> <li>• Uses Blood Pressure/ instead of Hypertension/</li> <li>• Selects irrelevant MeSH in addition to relevant MeSH</li> </ul>	Excludes two MeSH terms OR Uses two incorrect or inappropriate MeSH terms, subheadings, or limits See examples to the left	Excludes more than two MeSH terms OR Uses multiple incorrect or inappropriate MeSH terms, subheadings, or limits	Fails to use any MeSH terms OR Fails to provide search history

Points/10	(4)	(3)	(2)	(1)	Incorrect/Missing (0)
Use of keywords /2			Uses keywords when necessary for search (if keywords not necessary, and they don't use them at all or use them in conjunction with MeSH, give full points).  Example: "Pilates" with subject heading Exercise Movement Techniques/	Uses keywords inappropriately  Example: Makes the keywords too specific	Fails to use keyword when necessary for the search
Use of Boolean logic /4	Uses AND or OR to combine concepts appropriately	Uses Boolean operator incorrectly one time. Examples: Uses OR between two concepts instead of AND Uses AND between two concepts instead of OR	Uses Boolean operator incorrectly two times		Repeatedly uses Boolean operators incorrectly  OR Does not provide search history