

Improving the translation of search strategies using the Polyglot Search Translator: a randomized controlled trial

Justin Michael Clark; Sharon Sanders; Matthew Carter; David Honeyman; Gina Cleo; Yvonne Auld; Debbie Booth; Patrick Condrón; Christine Dalais; Sarah Bateup; Bronwyn Linthwaite; Nikki May; Jo Munn; Lindy Ramsay; Kirsty Rickett; Cameron Rutter; Angela Smith; Peter Sondergeld; Margie Wallin; Mark Jones; Elaine Beller

APPENDIX H

Table S8 Median percentage difference in the number of references retrieved relative to the number of references retrieved by the reference standard (with ranges)

Translation scenario	PST-A method		Manual method	
	Median % difference	Range	Median % difference	Range
PubMed to Web of Science	-1.47	(-87.3 to 600.0)	22.8	(-77.2 to 625.7)
PubMed to Scopus	768.3	(-95.2 to 18,700.0)	46.1	(0.8 to 28,000)
PubMed to Ovid MEDLINE	-12.9	(-66.7 to 82.4)	-17.3	(-57.8 to 160.2)
PubMed to Embase	-2.5	(-60.7 to 86.6)	-17.9	(-37.9 to 19.8)
PubMed to Cochrane	-1.1	(-100.0 to 486.9)	34.6	(-48.5 to 1,467.2)
PubMed to CINAHL	13.8	(-38.6 to 1,262.5)	43.0	(-4.6 to 300.0)
PubMed to all databases	-1.5	(-100.0 to 18,700)	2.1	(-77.2 to 28,000.0)
Ovid MEDLINE to Web of Science	11.7	(-75.9 to 596.7)	7.0	(-78.3 to 731.9)
Ovid MEDLINE to Scopus	22.5	(-41.2 to 2,012.5)	21.9	(-91.4 to 7,424.8)
Ovid MEDLINE to PubMed	2.4	(-98.8 to 753.1)	20.4	(-97.5 to 4,658.5)
Ovid MEDLINE to Embase	-23.1	(-99.6 to 7.2)	-12.4	(-89.7 to 13.7)
Ovid MEDLINE to Cochrane	2.4	(-100.0 to 39,716.7)	1.4	(-98.9 to 1,562.9)
Ovid MEDLINE to CINAHL	40.6	(-84.9 to 563.0)	104.0	(-36.6 to 2,984.7)

Translation scenario	PST-A method		Manual method	
	Median % difference	Range	Median % difference	Range
Ovid MEDLINE to all databases	3.0	(-100.0 to 39,716.7)	7.0	(-98.9 to 4,658.5)
All translations to all databases	1.7	(-100.0 to 39,716.7)	6.3	(-98.9 to 4,658.5)

Abbreviation: PST-A=Polyglot Search Translator-assisted.