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| **Supplementary File 3: Associations of Selected Covariates with Use of Recommended Search Methods** |
| Recommended Strategy/Method2 4 5 | **Reporting Guideline Used***Odds Ratio (95% CI)* | **Training in Systematic Review Methods** *Odds Ratio (95% CI)* | **Knowledge of Systematic Review Methods ‡***Odds Ratio (95% CI)* |
| **Traditional Methods** |  |  |  |
| 1 | > 2 databases searched | **3.07 (1.52-6.20) \*\*** | 1.36 (.72-2.57) | 1.12 (.75-.1.67) |
| 2 | Keywords used | .95 (.28-3.29) | 1.10 (.51-2.37) | 1.05 (.63-1.75) |
| 3 | Controlled vocabulary (MeSH) used | **2.41 (1.52-3.81) \*\*\*** | **1.96 (1.34-2.85) \*\*\*** | 1.21 (.96-1.53) |
| 4 | Synonyms used | 1.22 (.68-2.19) | 1.49 (.97-2.8) | **1.52 (1.17-1.99) \*\*** |
| 5 | Boolean logic used | **3.62 (1.51-8.70) \*\*** | 2.56 (.97-6.72) | **2.20 (1.34-3.61) \*\*** |
| 6 | Search adjusted for each database | **2.01 (1.38-2.92) \*\*\*** | **1.42 (1.10-1.84) \*\*** | **1.28 (1.08-1.52) \*\*** |
| 7 | Multiple languages searched | **2.02 (1.39-2.94) \*\*\*** | **1.90 (1.48-2.44) \*\*\*** | **1.18 (1.00-1.39) \*** |
| **Extended Methods** |  |  |  |
| 8 | Grey literature searched | **2.10 (1.43-3.09) \*\*\*** | **1.32 (1.05-1.67) \*\*** | 1.13 (.96-1.32) |
| 9 | Journals handsearched | 1.01 (.69-1.48) |  |  |
| 10 | Clinical trial registries searched | **2.76 (1.83-4.15) \*\*\*** | **1.55 (1.22-1.95)\*\*\*** | **.**88 (.75-1.02) |
| 11 | Citation indices searched | 1.29 (.89-1.86) | 1.23 (.98-1.56) | 1.08 (.93-1.26) |
| 12 | References in articles reviewed | **2.24 (1.03-4.89) \*** | 1.13 (.60-2.13) | 1.22 (.81-1.83) |
| 13 | Prominent authors contacted | 1.29 (.90-1.87) | **1.38 (1.09-1.74) \*\*** | **1.19 (1.02-1.39) \*** |
| **Search Process/Reporting** |  |  |  |
| 14 | Search updated during process | 1.15 (.68-1.93) | .88 (.62-1.24) | **1.39 (1.11-1.74) \*\*** |
| 15 | Search strategy peer-reviewed | 1.40 (.97-2.02) | 1.13 (.89-1.44) | 1.09 (.93-1.28) |
| 16 | SR registered in PROSPERO | **2.72 (1.87-3.96) \*\*\*** | 1.13 (.87-1.47) | **1.38 (1.16-1.65) \*\*\*** |
| 17 | Full strategy provided | **6.69 (1.57-28.43) \*\*** | .90 (.60-1.37) | 1.29 (.97-1.71) |
| N=1271. Significant associations in bolded text. \* p<.05, \*\* p<.01, \*\*\*p<.001. CI = confidence interval. SR = systematic review/meta-analysis. ‡ One point increase on five point scale.Odds ratios adjusted using the following covariates: librarian involvement, formal training in systematic review methodology, journal impact factor quartile, number of previous systematic reviews, use of a reporting guidelines, years of professional practice, time taken to write the review, year of publication and self-reported confidence in systematic review methodology and the topic area of the systematic review. |