**Appendix A: Search Strategies**

Database 1

O**vid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE®**1946-Present

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| [# ▲](http://ovidsp.tx.ovid.com.myaccess.library.utoronto.ca/sp-3.31.1b/ovidweb.cgi?&S=LJGEFPEMIIDDPHBMNCEKAGOBENHJAA00&Sort+Sets=descending) | **Searches** | **Results** |
| 1 | Microbiology/ | 6339 |
| 2 | exp Anti-Bacterial Agents/ad, st [Administration & Dosage, Standards] | 90638 |
| 3 | Anti-Infective Agents/ad [Administration & Dosage] | 6732 |
| 4 | Inappropriate Prescribing/ | 2306 |
| 5 | Antimicrobial Stewardship/ | 325 |
| 6 | ((antibiotic\* or anti-biotic\*) adj2 report\*).tw,kf. | 1011 |
| 7 | ((antimicrobial\* or anti-microbial\*) adj2 report\*).tw,kf. | 527 |
| 8 | ((antiinfective\* or anti-infective\*) adj2 report\*).tw,kf. | 7 |
| 9 | (microb\* adj3 report\*).tw,kf. | 1630 |
| 10 | ((antibacterial\* or anti-bacterial\*) adj2 report\*).tw,kf. | 213 |
| 11 | ((antibiotic\* or anti-biotic\*) adj2 "use").tw,kf. | 23177 |
| 12 | ((antibiotic\* or antimicrobial\* or antibacterial\* or microbio\*) adj2 stewardship).tw,kf. | 3410 |
| 13 | (microb\* adj2 (lab or laborator\*)).tw,kf. | 5475 |
| 14 | (susceptibility adj2 report\*).tw,kf. | 661 |
| 15 | 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 | 134440 |
| 16 | choice behavior/ | 29627 |
| 17 | (choice\* adj2 architecture\*).tw,kf. | 122 |
| 18 | (choice\* adj2 behavio?r).tw,kf. | 1687 |
| 19 | (decision\* adj2 architecture\*).tw,kf. | 36 |
| 20 | tweak\*.tw,kf. | 1106 |
| 21 | ((restrictive or restricted or restricting) adj3 report\*).tw,kf. | 854 |
| 22 | (cascad\* adj2 report\*).tw,kf. | 132 |
| 23 | (select\* adj3 report\*).tw,kf. | 9050 |
| 24 | (modif\* adj3 report\*).tw,kf. | 4342 |
| 25 | (stratif\* adj2 report\*).tw,kf. | 232 |
| 26 | (sensitiv\* adj2 report\*).tw,kf. | 3728 |
| 27 | (enhance\* adj3 report\*).tw,kf. | 5577 |
| 28 | (report adj2 (format\* or layout or design or organiz\*)).tw,kf. | 7747 |
| 29 | ((routine\* or standard) adj2 report\*).tw,kf. | 3715 |
| 30 | nudging.tw,kf. | 244 |
| 31 | (nudge or nudges or nudged).tw,kf. | 666 |
| 32 | (framing or frame or frames or framed).tw,kf. | 124444 |
| 33 | (withhold or withholds or withholding).tw,kf. | 7126 |
| 34 | (interpretive adj2 comment\*).tw,kf. | 55 |
| 35 | ((additional or supplement\*) adj2 comment\*).tw,kf. | 503 |
| 36 | (behavio?r\* adj2 intervention\*).tw,kf. | 12880 |
| 37 | (systematic adj2 intervention\*).tw,kf. | 991 |
| 38 | (behavio?r\* adj2 economic\*).tw,kf. | 1930 |
| 39 | (behavio?r\* adj2 strateg\*).tw,kf. | 4626 |
| 40 | (behavio?r\* adj4 determinant\*).tw,kf. | 3769 |
| 41 | 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 | 221686 |
| 42 | 15 and 41 | 718 |
| 43 | Animals/ not Humans/ | 4457626 |
| 44 | 42 not 43 | 654 |

Database 2

**Embase Classic+Embase**1947 to 2018 August 23

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| [# ▲](http://ovidsp.tx.ovid.com.myaccess.library.utoronto.ca/sp-3.31.1b/ovidweb.cgi?&S=HAKPFPPMFNDDPHHONCEKMDDCPNAFAA00&Sort+Sets=descending) | **Searches** | **Results** |
| 1 | microbiology/ and Laboratory/ | 3624 |
| 2 | microbiology test/ | 275 |
| 3 | antiinfective agent/ad, do [Drug Administration, Drug Dose] | 13905 |
| 4 | antiinfective agent/ | 188475 |
| 5 | exp inappropriate prescribing/ | 3876 |
| 6 | antimicrobial stewardship/ | 821 |
| 7 | ((antibiotic\* or anti-biotic\*) adj2 report\*).tw,kw. | 1480 |
| 8 | ((antimicrobial\* or anti-microbial\*) adj2 report\*).tw,kw. | 673 |
| 9 | ((antiinfective\* or anti-infective\*) adj2 report\*).tw,kw. | 17 |
| 10 | (microb\* adj3 report\*).tw,kw. | 2100 |
| 11 | ((antibacterial\* or anti-bacterial\*) adj2 report\*).tw,kw. | 288 |
| 12 | ((antibiotic\* or anti-biotic\*) adj2 "use").tw,kw. | 28966 |
| 13 | ((antibiotic\* or antimicrobial\* or antibacterial\* or microbio\*) adj2 stewardship).tw,kw. | 4834 |
| 14 | (microb\* adj2 (lab or laborator\*)).tw,kw. | 8012 |
| 15 | (susceptibility adj2 report\*).tw,kw. | 904 |
| 16 | 1 or 2 or 3 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 | 64191 |
| 17 | (choice\* adj2 architecture\*).tw,kw. | 126 |
| 18 | (choice\* adj2 behavio?r).tw,kw. | 1907 |
| 19 | (decision\* adj2 architecture\*).tw,kw. | 41 |
| 20 | tweak\*.tw,kw. | 1646 |
| 21 | ((restrictive or restricted or restricting) adj3 report\*).tw,kw. | 1119 |
| 22 | (cascad\* adj2 report\*).tw,kw. | 136 |
| 23 | (select\* adj3 report\*).tw,kw. | 11440 |
| 24 | (modif\* adj3 report\*).tw,kw. | 5433 |
| 25 | (stratif\* adj2 report\*).tw,kw. | 370 |
| 26 | (sensitiv\* adj2 report\*).tw,kw. | 4982 |
| 27 | (enhance\* adj3 report\*).tw,kw. | 6653 |
| 28 | (report adj2 (format\* or layout or design or organiz\*)).tw,kw. | 8512 |
| 29 | ((routine\* or standard) adj2 report\*).tw,kw. | 5503 |
| 30 | nudging.tw,kw. | 290 |
| 31 | (nudge or nudges or nudged).tw,kw. | 548 |
| 32 | (framing or frame or frames or framed).tw,kw. | 146225 |
| 33 | (withhold or withholds or withholding).tw,kw. | 9522 |
| 34 | (interpretive adj2 comment\*).tw,kw. | 81 |
| 35 | ((additional or supplement\*) adj2 comment\*).tw,kw. | 790 |
| 36 | (behavio?r\* adj2 intervention\*).tw,kw. | 16460 |
| 37 | (systematic adj2 intervention\*).tw,kw. | 1357 |
| 38 | (systematic adj2 intervention\*).tw,kw. | 1357 |
| 39 | (behavio?r\* adj2 strateg\*).tw,kw. | 5668 |
| 40 | (behavio?r\* adj4 determinant\*).tw,kw. | 4224 |
| 41 | 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 | 231040 |
| 42 | 16 and 41 | 681 |
| 43 | Animals/ not Humans/ | 1318918 |
| 44 | 42 not 43 | 665 |

## Database 3

[[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=6)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=6)EBM Reviews - Cochrane Database of Systematic Reviews 2005 to August 22, 2018, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=4)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=4)EBM Reviews - ACP Journal Club 1991 to July 2018, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=7)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=7)EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=19)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=19)EBM Reviews - Cochrane Clinical Answers July 2018, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=5)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=5)EBM Reviews - Cochrane Central Register of Controlled Trials July 2018, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=8)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=8)EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=9)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=9)EBM Reviews - Health Technology Assessment 4th Quarter 2016, [[http://ovidsp.tx.ovid.com/sp-3.31.1b/gifs/dbinfo.gif](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=10)](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Database+Field+Guide=10)EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | [# ▲](http://ovidsp.tx.ovid.com/sp-3.31.1b/ovidweb.cgi?&S=KHLNFPOPDKDDLHJONCEKEDLBBLPJAA00&Sort+Sets=descending) | **Searches** | **Results** | | 1 | Microbiology/ | 8 | | 2 | exp Anti-Bacterial Agents/ad, st [Administration & Dosage, Standards] | 3351 | | 3 | Anti-Infective Agents/ad [Administration & Dosage] | 40 | | 4 | Inappropriate Prescribing/ | 104 | | 5 | Antimicrobial Stewardship/ | 5 | | 6 | ((antibiotic\* or anti-biotic\*) adj2 report\*).tw,kf. | 417 | | 7 | ((antimicrobial\* or anti-microbial\*) adj2 report\*).tw,kf. | 52 | | 8 | ((antiinfective\* or anti-infective\*) adj2 report\*).tw,kf. | 1 | | 9 | (microb\* adj3 report\*).tw,kf. | 176 | | 10 | ((antibacterial\* or anti-bacterial\*) adj2 report\*).tw,kf. | 8 | | 11 | ((antibiotic\* or anti-biotic\*) adj2 use\*).tw,kf. | 371 | | 12 | ((antibiotic\* or antimicrobial\* or antibacterial\* or microbio\*) adj2 stewardship).tw,kf. | 232 | | 13 | (microb\* adj2 (lab or laborator\*)).tw,kf. | 188 | | 14 | (susceptibility adj2 report\*).tw,kf. | 49 | | 15 | 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 | 4819 | | 16 | choice behavior/ | 1247 | | 17 | (choice\* adj2 architecture\*).tw,kf. | 15 | | 18 | (choice\* adj2 behavio?r).tw,kf. | 157 | | 19 | (decision\* adj2 architecture\*).tw,kf. | 3 | | 20 | tweak\*.tw,kf. | 43 | | 21 | ((restrictive or restricted or restricting) adj3 report\*).tw,kf. | 473 | | 22 | (cascad\* adj2 report\*).tw,kf. | 5 | | 23 | (select\* adj3 report\*).tw,kf. | 10133 | | 24 | (modif\* adj3 report\*).tw,kf. | 609 | | 25 | (stratif\* adj2 report\*).tw,kf. | 196 | | 26 | (sensitiv\* adj2 report\*).tw,kf. | 2232 | | 27 | (enhance\* adj3 report\*).tw,kf. | 711 | | 28 | (report adj2 (format\* or layout or design or organiz\*)).tw,kf. | 967 | | 29 | ((routine\* or standard) adj2 report\*).tw,kf. | 2641 | | 30 | nudging.tw,kf. | 24 | | 31 | (nudge or nudges or nudged).tw,kf. | 70 | | 32 | (framing or frame or frames or framed).tw,kf. | 4752 | | 33 | (withhold or withholds or withholding).tw,kf. | 866 | | 34 | (interpretive adj2 comment\*).tw,kf. | 0 | | 35 | ((additional or supplement\*) adj2 comment\*).tw,kf. | 5971 | | 36 | (behavio?r\* adj2 intervention\*).tw,kf. | 8087 | | 37 | (systematic adj2 intervention\*).tw,kf. | 6259 | | 38 | (behavio?r\* adj2 economic\*).tw,kf. | 313 | | 39 | (behavio?r\* adj2 strateg\*).tw,kf. | 1314 | | 40 | (behavio?r\* adj4 determinant\*).tw,kf. | 349 | | 41 | 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 | 34861 | | 42 | 15 and 41 | 436 | | 43 | Animals/ not Humans/ | 19 | | 44 | 42 not 43 | 436 | |