**Appendix 1. Search Strategy**

**MEDLINE** (OvidSP) [1948 – present]

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| 1 | exp animals/ | 15915049  |
| 2 | Disease Models, Animal/ | 186091  |
| 3 | animal\*.ti. | 84860  |
| 4 | (animal studies or animal experiment?).ab. | 24928  |
| 5 | 1 or 2 or 3 or 4 | 15928641  |
| 6 | limit 5 to "reviews (maximizes specificity)" | 74588  |
| 7 | meta analysis.pt. | 33031  |
| 8 | meta-analysis as topic/ | 12022  |
| 9 | (systematic review or metaanalysis or meta-analysis).ti,ab. | 57101  |
| 10 | (medline or pubmed or embase or biosis or "web of knowledge" or "web of science" or "science citation index").ab. | 56448  |
| 11 | 7 or 8 or 9 or 10 | 107918  |
| 12 | 5 and 11 | 96120  |
| 13 | Publication Bias/ | 1816  |
| 14 | Research Design/ | 65719  |
| 15 | Random Allocation/ | 73877  |
| 16 | double-blind method/ or single-blind method/ | 129406  |
| 17 | therapy.fs. | 1287748  |
| 18 | drug therapy.fs. | 1521978  |
| 19 | Treatment Outcome/ | 516895  |
| 20 | allocat\*.ab. | 54822  |
| 21 | conceal\*.ab. | 6109  |
| 22 | study design\*.ab. | 97355  |
| 23 | quality.ab. | 404684  |
| 24 | blind\*.ab. | 168874  |
| 25 | (bias or unbias\* or un-bias\*).ab. | 68229  |
| 26 | efficacy.ab. | 371164  |
| 27 | intervention?.ab. | 396739  |
| 28 | (full adj5 abstract?).ab. | 773  |
| 29 | (heterogeneity or heterogeneous).ab. | 148315  |
| 30 | Data Interpretation, Statistical/ | 41830  |
| 31 | "Reproducibility of Results"/ | 228477  |
| 32 | 13 or 14 or 15 or 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 | 4267171  |
| 33 | 6 and 32 | 53993  |
| 34 | 12 and 32 | 67617  |
| 35 | human/ | 12214445  |
| 36 | 33 not 35 | 311  |
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**Embase** (OvidSP) [1974 – present]

Top of Form

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| 1 | animal model/ | 633958  |
| 2 | animal experiment/ | 1607367  |
| 3 | (nonhuman/ or animal\*.ti.) and disease model/ | 22479  |
| 4 | animal\*.ti. | 96334  |
| 5 | (animal studies or animal experiment?).ti,ab. | 37034  |
| 6 | 1 or 2 or 3 or 4 or 5 | 1826626  |
| 7 | limit 6 to "reviews (maximizes specificity)" | 767  |
| 8 | allocat\*.ab. | 66424  |
| 9 | conceal\*.ab. | 7670  |
| 10 | study design\*.ab. | 112606  |
| 11 | quality.ab. | 531150  |
| 12 | blind\*.ab. | 214727  |
| 13 | (bias or unbias\* or un-bias\*).ab. | 78351  |
| 14 | efficacy.ab. | 486204  |
| 15 | intervention?.ab. | 501009  |
| 16 | (full adj5 abstract?).ab. | 886  |
| 17 | (heterogeneity or heterogeneous).ab. | 174730  |
| 18 | treatment outcome/ | 582189  |
| 19 | outcome assessment/ | 158884  |
| 20 | randomization/ | 57860  |
| 21 | 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 | 2461736  |
| 22 | 7 and 21 | 372  |

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