## Appendix 1: Search strategy

**Initial searches: completed on April 30, 2023**

Ovid MEDLINE(R) ALL <1946 to July 30, 2024>

|  |  |  |  |
| --- | --- | --- | --- |
| **Set** | **Search String** | **Explanatory Notes** | **Set Results** |
| 1 | exp "Neck Injuries"/ or exp "Cervical Vertebrae"/in |  | 16191 |
| 2 | (exp "Neck"/ or exp "Cervical Vertebrae"/) and (injury or injuries or trauma\* or compression).ti,ab,kf,kw. |  | 16315 |
| 3 | (((neck or cervical) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)) or whiplash\*).ti,ab,kf,kw. |  | 14428 |
| 4 | ("Spinal Cord Injuries"/ or "spinal cord injury"/ or (((spinal or spine) adj2 (injury or injuries or trauma\* or compression)) or cadaver\* or volunteer\*).ti,ab,kf,kw.) and ("Neck"/ or (neck or cervical).ti,ab,kf,kw.) | Maps to “spinal cord injuries”/ in MESH | 21746 |
| 5 | or/1-4 [NECK INJURY] |  | 44033 |
| 6 | exp "Spinal Cord Injuries"/ or exp "Spine”/in |  | 68479 |
| 7 | ((spine or spinal or vertebra\* or coccyx or intervertebral or lumbar or sacrum or sacral) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)).ti,ab,kf,kw. |  | 72339 |
| 8 | 6 or 7 [SPINE INJURY] |  | 99121 |
| 9 | 5 or 8 [NECK/SPINE INJURY] |  | 121909 |
| 10 | (immobiliz\* or immobilis\* or immobile or stabiliz\* or stabilis\* or restrain\* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip").ti,ab,kf,kw. |  | 510245 |
| 11 | ((reduction or reducing or reduce\* or restrain\* or decreas\* or limit or limiting or restrict\*) adj2 (movement or movements or motion or mobility or mobile)).ti,ab,kf,kw. |  | 25380 |
| 12 | (neutral adj2 position\*).ti,ab,kf,kw. |  | 3739 |
| 13 | "Movement"/ph or "Head Movements"/ or "head movement"/ or (movement or motion or application).ti,ab,kf,kw. | Maps to “Head Movements”/ | 1490080 |
| 14 | "Emergency Medical Services"/mt or "First Aid"/mt |  | 8071 |
| 15 | (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalisation)).ti,ab,kf,kw. |  | 39891 |
| 16 | (EMS or "emergency medical service" or paramedic\* or EMT or "emergency medical technician\*" or "first responder\*" or ambulance\*).ti,ab,kf,kw. |  | 71163 |
| 17 | (bystander\* or by-stander\* or stranger or strangers or layperson\* or lay or public or "first aid" or "in position found").ti,ab,kf,kw. |  | 681604 |
| 18 | "Orthotic Devices"/ or "orthoses"/ or "Braces"/ or "brace"/ or "Restraint, Physical"/mt or (orthotic\* or orthosis or orthoses or orthesis or "orthopedic support device\*" or "orthopaedic support device\*" or collar\* or brace\* or bracing or restraint\*).ti,ab,kf,kw. | Removed or "orthoses"/or "brace"/ maps to MESH in string | 67389 |
| 19 | (or/13-17) and 18 |  | 10385 |
| 20 | or/10-12,19 [IMMOBILIZATION/STABILIZATION] |  | 542306 |
| 21 | 9 and 20 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION] |  | 8264 |
| 22 | (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/) |  | 5082526 |
| 23 | (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate"/) not (exp "human"/ or exp "human experiment"/) | Removed this line of Embase Emtree terms |  |
| 24 | 21 not (22 or 23) [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN] | Removed reference to 23 | 7795 |
| 25 | (comment or letter or "newspaper article" or news or note).pt. | Removed “note”—not MESH | 1910407 |
| 26 | 24 not 25 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN, SUBSTANTIVE] |  | 7750 |
| 27 | (Randomized Controlled Trial or Controlled Clinical Trial or Pragmatic Clinical Trial or Equivalence Trial or Clinical Trial, Phase III).pt. |  | 686909 |
| 28 | Randomized Controlled Trial/ |  | 591628 |
| 29 | exp Randomized Controlled Trials as Topic/ |  | 165582 |
| 30 | Controlled Clinical Trial/ |  | 95284 |
| 31 | exp Controlled Clinical Trials as Topic/ |  | 171288 |
| 32 | Randomization/ | Maps to random allocation in MESH |  |
| 33 | Random Allocation/ |  | 106927 |
| 34 | Double-Blind Method/ |  | 174998 |
| 35 | Double-Blind Studies/ | Maps to Double-Blind Method in MESH |  |
| 36 | Single-Blind Method/ |  | 32659 |
| 37 | Single-Blind Studies/ | Maps to Double Blind Method in MESH |  |
| 38 | Placebos/ |  | 35926 |
| 39 | Control Groups/ |  | 1935 |
| 40 | Control Group/ | Maps to Control Groups in MESH |  |
| 41 | (random\* or sham or placebo\*).ti,ab,kf,kw. |  | 1571208 |
| 42 | ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,kf,kw. |  | 195226 |
| 43 | ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,kf,kw. |  | 1582 |
| 44 | (control\* adj3 (study or studies or trial\* or group\*)).ti,ab,kf,kw. |  | 1212594 |
| 45 | (nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).ti,ab,kf,kw. |  | 53310 |
| 46 | allocated.ti,ab,kf,kw. |  | 82868 |
| 47 | ((open label or open-label) adj5 (study or studies or trial\*)).ti,ab,kf,kw. |  | 44188 |
| 48 | ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).ti,ab,kf,kw. |  | 11251 |
| 49 | (pragmatic study or pragmatic studies).ti,ab,kf,kw. |  | 589 |
| 50 | ((pragmatic or practical) adj3 trial\*).ti,ab,kf,kw. |  | 5910 |
| 51 | ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial\*)).ti,ab,kf,kw. |  | 11963 |
| 52 | (phase adj3 (III or "3") adj3 (study or studies or trial\*)).ti,ab,kf,kw. |  | 49970 |
| 53 | or/27-52 [RCT/CT] |  | 2586451 |
| 54 | "Observational Studies as Topic"/ or observational study.pt. |  | 149623 |
| 55 | Cohort Studies/ or Follow-Up Studies/ or Longitudinal Studies/ or Prospective Studies/ or Retrospective Studies/ |  | 2473790 |
| 56 | Cross-Sectional Studies/ |  | 464306 |
| 57 | "Evaluation Studies as Topic"/ or evaluation studies.pt. |  | 122498 |
| 58 | Case-Control Studies/ |  | 327429 |
| 59 | Comparative Study.pt. |  | 1912460 |
| 60 | (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) adj1 (study or studies)) or "cohort analys\*").ti,ab,kf,kw. |  | 1537657 |
| 61 | or/54-60 [OBSERVATIONAL] |  | 5193178 |
| 62 | "Epidemiologic Studies"/ or "Cross-Over Studies"/ or "crossover procedure"/ | Removed Emtree term | 64305 |
| 63 | (((epidemiologic\* or intervention or experimental) adj1 (study or studies)) or cross-over or crossover or questionnaire\* or survey\*).ti,ab,kf,kw. |  | 1643942 |
| 64 | ("before and after" or "interrupted time series").ti,ab,kf,kw. |  | 330778 |
| 65 | "case series".ti,ab,kf,kw. |  | 101987 |
| 66 | or/62-65 [ADDITIONAL STUDIES] |  | 2047293 |
| 67 | 26 and (53 or 61 or 66) [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN, SUBSTANTIVE, WITH STUDY FILTERS] |  | 3317 |
| 68 | limit 67 to yr="1999 -Current" [Limit not valid in DARE; records were retained] |  | 2683 |
| 69 | limit 62 to dt=20191001-20230429 |  | 403 |

**Update searches: completed on July 31, 2024**

Ovid MEDLINE(R) ALL <1946 to July 30, 2024>

1 exp "Neck Injuries"/ or exp "Cervical Vertebrae"/in 16530

2 (exp "Neck"/ or exp "Cervical Vertebrae"/) and (injury or injuries or trauma\* or compression).ti,ab,kf,kw. 16872

3 (((neck or cervical) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)) or whiplash\*).ti,ab,kf,kw. 15138

4 ("Spinal Cord Injuries"/ or (((spinal or spine) adj2 (injury or injuries or trauma\* or compression)) or cadaver\* or volunteer\*).ti,ab,kf,kw.) and ("Neck"/ or (neck or cervical).ti,ab,kf,kw.) 23019

5 1 or 2 or 3 or 4 46027

6 exp "Spinal Cord Injuries"/ or exp "Spine"/in 71065

7 ((spine or spinal or vertebra\* or coccyx or intervertebral or lumbar or sacrum or sacral) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)).ti,ab,kf,kw. 77523

8 6 or 7 104632

9 5 or 8 128440

10 (immobiliz\* or immobilis\* or immobile or stabiliz\* or stabilis\* or restrain\* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip").ti,ab,kf,kw. 544789

11 ((reduction or reducing or reduce\* or restrain\* or decreas\* or limit or limiting or restrict\*) adj2 (movement or movements or motion or mobility or mobile)).ti,ab,kf,kw. 27777

12 (neutral adj2 position\*).ti,ab,kf,kw. 3959

13 "Movement"/ph or "Head Movements"/ or (movement or motion or application).ti,ab,kf,kw. 1630849

14 "Emergency Medical Services"/mt or "First Aid"/mt 8367

15 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalisation)).ti,ab,kf,kw. 43945

16 (EMS or "emergency medical service" or paramedic\* or EMT or "emergency medical technician\*" or "first responder\*" or ambulance\*).ti,ab,kf,kw. 78464

17 (bystander\* or by-stander\* or stranger or strangers or layperson\* or lay or public or "first aid" or "in position found").ti,ab,kf,kw. 758679

18 "Orthotic Devices"/ or "Braces"/ or "Restraint, Physical"/mt or (orthotic\* or orthosis or orthoses or orthesis or "orthopedic support device\*" or "orthopaedic support device\*" or collar\* or brace\* or bracing or restraint\*).ti,ab,kf,kw. 71289

19 (or/13-17) and 18 11179

20 or/10-12,19 579749

21 9 and 20 8615

22 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/) 5209846

23 21 not 22 8123

24 (comment or letter or "newspaper article" or news or study guide).pt. 2014778

25 23 not 24 8066

26 (Randomized Controlled Trial or Controlled Clinical Trial or Pragmatic Clinical Trial or Equivalence Trial or Clinical Trial, Phase III).pt. 713864

27 Randomized Controlled Trial/ 617974

28 exp Randomized Controlled Trials as Topic/ 176173

29 Controlled Clinical Trial/ 95579

30 exp Controlled Clinical Trials as Topic/ 181981

31 Random Allocation/ 107462

32 Double-Blind Method/ 179644

33 Single-Blind Method/ 33775

34 Placebos/ 35979

35 Control Groups/ 2131

36 (random\* or sham or placebo\*).ti,ab,kf,kw. 1705281

37 ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,kf,kw. 205503

38 ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,kf,kw. 1880

39 (control\* adj3 (study or studies or trial\* or group\*)).ti,ab,kf,kw. 1315732

40 (nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).ti,ab,kf,kw. 58023

41 allocated.ti,ab,kf,kw. 90325

42 ((open label or open-label) adj5 (study or studies or trial\*)).ti,ab,kf,kw. 48610

43 ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).ti,ab,kf,kw. 13010

44 (pragmatic study or pragmatic studies).ti,ab,kf,kw. 665

45 ((pragmatic or practical) adj3 trial\*).ti,ab,kf,kw. 6781

46 ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial\*)).ti,ab,kf,kw. 14113

47 (phase adj3 (III or "3") adj3 (study or studies or trial\*)).ti,ab,kf,kw. 54700

48 or/26-47 2776878

49 "Observational Studies as Topic"/ or observational study.pt. 168827

50 Cohort Studies/ or Follow-Up Studies/ or Longitudinal Studies/ or Prospective Studies/ or Retrospective Studies/ 2632400

51 Cross-Sectional Studies/ 509765

52 "Evaluation Studies as Topic"/ or evaluation studies.pt. 122502

53 Case-Control Studies/ 336801

54 Comparative Study.pt. 1922453

55 (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) adj1 (study or studies)) or "cohort analys\*").ti,ab,kf,kw. 1724649

56 or/49-55 5480664

57 "Epidemiologic Studies"/ or "Cross-Over Studies"/ 66687

58 (((epidemiologic\* or intervention or experimental) adj1 (study or studies)) or cross-over or crossover or questionnaire\* or survey\*).ti,ab,kf,kw. 1789966

59 ("before and after" or "interrupted time series").ti,ab,kf,kw. 355385

60 "case series".ti,ab,kf,kw. 113449

61 or/57-60 2224753

62 48 or 56 or 61 8499656

63 25 and 62 3425

64 limit 63 to yr="1999 -Current" 2791

Embase <1974 to 2024 July 30>

1 exp neck injury/ 16293

2 exp cervical vertebra/ and (injury or injuries or trauma\* or compression).mp. 2652

3 exp neck/ and (injury or injuries or trauma\* or compression).mp. 12487

4 (((neck or cervical) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)) or whiplash\*).mp. 28761

5 (exp spinal cord injury/ or (((spinal or spine) adj2 (injury or injuries or trauma\* or compression)) or cadaver\* or volunteer\*).mp.) and ("neck"/ or (neck or cervical).mp.) 43079

6 1 or 2 or 3 or 4 or 5 73827

7 exp spinal cord injury/ 95192

8 exp spine/ and (injury or injuries or trauma\*).mp. 39782

9 ((spine or spinal or vertebra\* or coccyx or intervertebral or lumbar or sacrum or sacral) adj2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)).mp. 136717

10 7 or 8 or 9 163152

11 6 or 10 202300

12 (immobiliz\* or immobilis\* or immobile or stabiliz\* or stabilis\* or restrain\* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip").mp. 689631

13 ((reduction or reducing or reduce\* or restrain\* or decreas\* or limit or limiting or restrict\*) adj2 (movement or movements or motion or mobility or mobile)).mp. 35901

14 (neutral adj2 position\*).mp. 5115

15 "movement (physiology)"/ or exp head movement/ 58406

16 (movement or motion or application).mp. 2128981

17 (emergency health service/ or first aid/) and (technique\* or procedure\* or program or method\*).ab. 59496

18 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalisation)).mp. 70382

19 (EMS or "emergency medical service" or paramedic\* or EMT or "emergency medical technician\*" or "first responder\*" or ambulance\*).mp. 133111

20 (bystander\* or by-stander\* or stranger or strangers or layperson\* or lay or public or "first aid" or "in position found").mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word] 1166595

21 or/15-20 3441735

22 "physical restraint"/ and (technique\* or procedure\* or program or method\*).ab. 666

23 "orthoses"/ or "brace"/ 18022

24 (orthotic\* or orthosis or orthoses or orthesis or "orthopedic support device\*" or "orthopaedic support device\*" or collar\* or brace\* or bracing or restraint\*).mp. 108943

25 22 or 23 or 24 108943

26 21 and 25 20360

27 12 or 13 or 14 or 26 739135

28 11 and 27 15511

29 (Randomized controlled trial/ or Controlled clinical study/ or random\*.ti,ab. or randomization/ or intermethod comparison/ or placebo.ti,ab. or (compare or compared or comparison).ti. or ((evaluated or evaluate or evaluating or assessed or assess) and (compare or compared or comparing or comparison)).ab. or (open adj label).ti,ab. or ((double or single or doubly or singly) adj (blind or blinded or blindly)).ti,ab. or double blind procedure/ or parallel group\*1.ti,ab. or (crossover or cross over).ti,ab. or ((assign\* or match or matched or allocation) adj5 (alternate or group\*1 or intervention\*1 or patient\*1 or subject\*1 or participant\*1)).ti,ab. or (assigned or allocated).ti,ab. or (controlled adj7 (study or design or trial)).ti,ab. or (volunteer or volunteers).ti,ab. or human experiment/ or trial.ti.) not (((random\* adj sampl\* adj7 ("cross section\*" or questionnaire\*1 or survey\* or database\*1)).ti,ab. not (comparative study/ or controlled study/ or randomi?ed controlled.ti,ab. or randomly assigned.ti,ab.)) or (Cross-sectional study/ not (randomized controlled trial/ or controlled clinical study/ or controlled study/ or randomi?ed controlled.ti,ab. or control group\*1.ti,ab.)) or (((case adj control\*) and random\*) not randomi?ed controlled).ti,ab. or (Systematic review not (trial or study)).ti. or (nonrandom\* not random\*).ti,ab. or "Random field\*".ti,ab. or (random cluster adj3 sampl\*).ti,ab. or ((review.ab. and review.pt.) not trial.ti.) or ("we searched".ab. and (review.ti. or review.pt.)) or "update review".ab. or (databases adj4 searched).ab. or ((rat or rats or mouse or mice or swine or porcine or murine or sheep or lambs or pigs or piglets or rabbit or rabbits or cat or cats or dog or dogs or cattle or bovine or monkey or monkeys or trout or marmoset\*1).ti. and animal experiment/) or (Animal experiment/ not (human experiment/ or human/))) 5893245

30 observational study/ 385605

31 cohort analysis/ 1201054

32 longitudinal study/ 218772

33 prospective study/ 933950

34 retrospective study/ 1663137

35 clinical study/ 167400

36 (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) adj1 (study or studies)) or "cohort analys\*").mp. 5524994

37 (((epidemiologic\* or intervention or experimental) adj1 (study or studies)) or cross-over or crossover or questionnaire\* or survey\*).mp. 3343548

38 ("before and after" or "interrupted time series").mp. 497881

39 "case series".mp. 161687

40 or/29-39 12139904

41 28 and 40 6090

42 (comment or letter or "newspaper article" or news or note or conference).pt. 8323644

43 41 not 42 4720

44 limit 43 to yr="1999 -Current" 4207

CINAHL Plus with Full Text (1936 - Present) via EBSCOhost

S1 (MH "Neck Injuries+") 3,866

S2 (MH "Cervical Vertebrae+/IN") 2,438

S3 (MH "Neck+") 7,754

S4 (MH "Cervical Vertebrae+) 14,124

S5 (injury or injuries or trauma\* or compression) 486,889

S6 S3 OR S4 21,336

S7 S5 AND S6 6,549

S8 (((neck or cervical) N2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)) or whiplash\*) 9,901

S9 (MH "Spinal Cord Injuries+") 23,831

S10 (((spinal or spine) N2 (injury or injuries or trauma\* or compression)) or cadaver\* or volunteer\*) 110,095

S11 S9 OR S10 110,120

S12 (MH "Neck") or (neck or cervical) 134,630

S13 S11 AND S12 8,419

S14 S1 OR S2 OR S7 OR S8 OR S13 15,892

S15 (MH "Spine+/IN") or (MH "Spinal Cord Injuries+") 27,516

S16 ((spine or spinal or vertebra\* or coccyx or intervertebral or lumbar or sacrum or sacral) N2 (injury or injuries or trauma\* or compression or cadaver\* or volunteer\*)) 39,134

S17 S14 OR S15 OR S16 47,740

S18 (immobiliz\* or immobilis\* or immobile or stabiliz\* or stabilis\* or restrain\* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip") 52,313

S19 ((reduction or reducing or reduce\* or restrain\* or decreas\* or limit or limiting or restrict\*) N2 (movement or movements or motion or mobility or mobile)) 8,665

S20 (neutral N2 position\*) 1,466

S21 S18 OR S19 OR S20 61,532

S22 (MH "Movement+/PH") 21,394

S23 (movement or motion or application) 349,037

S24 (MH "Emergency Medical Services/MT") 2,181

S25 (MH "First Aid/MT") 186

S26 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before N2 hospital) or (before N2 hospitalization) or (before N2 hospitalisation)) 31,727

S27 (EMS or "emergency medical service" or paramedic\* or EMT or "emergency medical technician\*" or "first responder\*" or ambulance\*) 37,161

S28 (bystander\* or by-stander\* or stranger or strangers or layperson\* or lay or public or "first aid" or "in position found") 354,668

S29 S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 749,053

S30 (MH "Orthoses+") 11,485

S31 (MH "Restraint, Physical/MT") 206

S32 (MH "Cervical Collars") 207

S33 (orthotic\* or orthosis or orthoses or orthesis or "orthopedic support device\*" or "orthopaedic support device\*" or collar\* or brace\* or bracing or restraint\*) 31,966

S34 S30 OR S31 OR S32 OR S33 32,481

S35 S29 AND S34 6,610

S36 S21 OR S35 65,688

S37 S17 AND S36 3,377

S38 ( MH ( randomized controlled trials OR double‐blind studies OR single‐blind studies OR random assignment OR pretest‐posttest design OR cluster sample ) OR TI ( randomised OR randomized ) OR AB random\* OR TI trial OR ( (MH (sample size) AND AB (assigned OR allocated OR control)) ) OR MH ( placebos OR crossover design OR comparative studies ) OR AB ( (control W5 group) OR (cluster W3 RCT) OR PT (randomized controlled trial)) ) NOT ( ( MH animals+ OR MH (animal studies) OR TI (animal model\*) ) NOT MH (human) ) 1,013,942

S39 (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) N1 (study or studies)) or "cohort analys\*") 1,424,107

S40 (((epidemiologic\* or intervention or experimental) N1 (study or studies)) or cross-over or crossover or questionnaire\* or survey\*) 1,012,886

S41 ("before and after" or "interrupted time series") 79,309

S42 "case series" 32,406

S43 S38 OR S39 OR S40 OR S41 OR S42 2,393,311

S44 S37 AND S43 1,368

S45 S37 AND S43 "Limiters - Publication Date: 19990101-20241231

Search modes - Find all my search terms" 1,227

S46 S37 AND S43 "Limiters - Scholarly (Peer Reviewed) Journals; Publication Date: 19990101-20241231

Search modes - Find all my search terms" 1,206