### Supplementary Table . Medline Search Strategy

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|  | **Concept 1a: Exercise** |
| 1. | Exercise/me, ph, px [Metabolism, Physiology, Psychology] |
| 2. | exercis\*.tw,kf. |
| 3. | physical activit\*.tw,kf. |
| 4. | exergaming.tw,kf. |
| 5. | (physical\* adj activ\*).tw,kf. |
| 6. | ((bike? or biking or bicycl\* or recreational or distance) adj cycling).tw,kf. |
| 7. | (walking or running or jogging or sprinting or treadmill? or tread mill?).tw,kf. |
| 8. | physical conditioning.tw,kf. |
| 9. | (physical training or aerobic training or resistance training or strength training or cardio\* training).tw,kf. |
| 10. | (exercise-induced or exercise induced).tw,kf. |
| 11. | (post-exercis\* or postexercis\* or post exercis\*).tw,kf. |
| 12. | or/1-11 |
|  | **Concept 1b: After exercise** |
| 13. | after\*.tw,kf. |
| 14. | (post or post-).tw,kf. |
| 15. | following.tw,kf. |
| 16. | subsequent.tw,kf. |
| 17. | response\*.tw,kf. |
| 18. | past.tw,kf. |
| 19. | later.tw,kf. |
| 20. | or/13-19 |
| 21. | 12 and 20 |
|  | **Concept 2: Eating behaviour** |
| 22. | Eating/ph, px [Physiology, Psychology] |
| 23. | Energy Intake/ |
| 24. | energy intake.mp. |
| 25. | Feeding Behavior/ph, px [Physiology, Psychology] |
| 26. | Food Preferences/ |
| 27. | (Food adj2 choice).mp. |
| 28. | Snacks/ph, px [Physiology, Psychology] |
| 29. | (snack intake or snack consumption or snack choice).mp. |
| 30. | Diet/me, ph, px [Metabolism, Physiology, Psychology] |
| 31. | food intake.mp. |
| 32. | food consumption.mp. |
| 33. | energy balance.mp. |
| 34. | eating behavio#r.mp. |
| 35. | nutrition.mp. |
| 36. | (dietary intake or calori\* intake).mp. |
| 37. | (meal size or portion size).mp. |
| 38. | (subsequent eat\* or subsequent intake or subsequent food? or subsequent meal? or subsequent snack\*).mp. |
| 39. | or/22-38 |
| 40. | 21 and 39 |
|  | **Concept 3: Compensatory eating** |
| 41. | compensat\*.mp. |
| 42. | (compensat\* adj2 eat\*).mp. |
| 43. | (compensat\* adj2 food).mp. |
| 44. | (compensat\* adj2 behavio?r).mp. |
| 45. | (compensat\* adj2 snack\*).mp. |
| 46. | Compensatory Health Beliefs.mp. |
| 47. | Reward/ |
| 48. | licen\*.mp. |
| 49. | (unhealth\* adj3 eat\*).mp. |
| 50. | (unhealth\* adj3 intake).mp. |
| 51. | (unhealth\* adj3 consum\*).mp. |
| 52. | (unhealth\* adj3 food?).mp. |
| 53. | (unhealth\* adj3 snack\*).mp. |
| 54. | (unhealth\* adj3 diet\*).mp. |
| 55. | (eat\* adj3 motivat\*).mp. |
| 56. | (motivat\* adj3 food).mp. |
| 57. | (overeat\* or over-eat or over eat).mp. |
| 58. | (overconsum\* or over consum\* or over-consum\*).mp. |
| 59. | (excess\* adj2 eat\*).mp. |
| 60. | (excess\* adj2 food).mp. |
| 61. | (excess\* adj2 intake).mp. |
| 62. | (excess\* adj2 consum\*).mp. |
| 63. | (excess\* adj2 snack\*).mp. |
| 64. | (high fat or high-fat or high sugar or high-sugar).mp. |
| 65. | (energy dense or energy-dense).mp. |
| 66. | indulge\*.mp. |
| 67. | (diet\* adj2 lapse\*).mp. |
| 68. | or/41-67 |
|  | **Limits** |
| 69. | Child/ not Adults/ |
| 70. | (child\* or boys or girls or kids or juvenil\* or minors or paediatric\* or pediatric\* or schoolchild\*).ti. |
| 71. | (infant\* or adolesc\* or teen\* or young adult\* or toddler? or school).ti. |
| 72. | (pre-school\* or preschool\*).ti. |
| 73. | exp Animals/ not Humans/ |
| 74. | ((animal model\* or mouse or mice or murine\* or rat or rats or rodent\* or muridae or murids or rabbit\* or leporine\* or leporidae or guineapig\* or cavies or caviidae or hamster\* or cricetidae or gerbil\* or gerbillinae or cat or cats or feline\* or felidae or dog or dogs or canine\* or canidae or pig or pigs or piglet\* or minipig\* or swine\* or porcine\* or suidae or horse or horses or donkey or donkies or burros or asses or equine\* or equidae or sheep or lamb or lambs or ovine or ovidae or goat or goats or cow or cows or cattle or bovine\* or bovidae or primate\* or monkey or monkeys or macaque or macaques or marmoset or marmosets or bat or bats) not human\*).ti. |
| 75. | (athlete? or elite or sportsm?n or sportswom?n).ti. |
| 76. | (cancer or neurological disease or Alzheimer's or dementia or Parkinson's or Schizophrenia).ti. |
| 77. | pregnan\*.ti. |
| 78. | osteoporo\*.ti. |
| 79. | clinical.ti. |
| 80. | (eating disorder? or disordered eating or bulimia or bulimic or anorex\* or binge-eating or binge eating or purge or purging).ti. |
| 81. | or/69-80 |
|  | **Results** |
| 82. | 40 and 68 |
| 83. | 82 not 81 |