Search strategies and grey literature sources

The alcohol searches were part of broader searches for a series of reviews covering a range of health behaviours. Searches were conducted for 1) any existing systematic reviews 2) primary studies (primary qualitative studies and primary intervention studies – findings from intervention studies have been reported separately). Original searches were conducted in July-Nov 2015 and updated to end February 2017. A search filter was used to identify qualitative studies (The InterTASC Information Specialists’ Sub-Group Search Filter Resource (ISSG) available at:- https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/). For qualitative studies, searches were conducted using: the University of Texas School of Public Health filter; for systematic reviews the SIGN filter was used.

1. Search dates

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<th>Database (source)</th>
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<th>Search dates (primary intervention and qualitative studies)</th>
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<td>York Centre for Reviews and Dissemination Health Technology Assessment (HTA); NHS Economic Evaluation Database (NHS-EED); Database of Abstracts of Reviews of Effectiveness (DARE) (Note: NHS-EED and DARE records only available up to 31-3-2015)</td>
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<td>Grey literature (searched for SRs and primary studies)</td>
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2. Example search strategy for MEDLINE (for a range of health behaviours including alcohol)

1. exp Health Behavior/
2. exp Risk Reduction Behavior/
3. exp Health Promotion/
4. exp Primary Prevention/
5. exp Preventive Medicine/
6. ((health$ adj3 behavior$) or behaviour$).ab,ti.

7. ((behaviour or lifestyle or "lifestyle") adj3 (change$ or changing or modification or modify or modifying or therapy or therapies or program$ or intervention$ or counsel$)).ab,ti.
8. ((ageing or aging) adj3 (well or success$ or positive$ or active$ or healthy)).ab,ti.
9. ("health check" or "check up" or "check-up").ab,ti.
10. "health MOT".ab,ti.
11. "NHS check".ab,ti.
12. or/1-11
13. exp Diet/
14. *Food/
15. (diet or diets or dietary).ab,ti.
17. salt$.ab,ti.
18. sugar$.ab,ti.
19. fruit$.ab,ti.
20. vegetable$.ab,ti.
21. (wholegrain or whole-grain or "whole grain" or "glyc?emic index").ab,ti.
22. (fish or "omega-3" or "omega-6" or "omega 3" or "omega 6" or (fish adj2 oil$)).ab,ti.
23. ("five a day" or "5 a day").ab,ti.
24. (fat$ adj3 (intake$ or diet$ or consum$)).ab,ti.
25. ((protein or carbohydrate$ or fibre or fiber) adj2 (intake$ or consum$ or diet$)).ab,ti.
26. ((energy or calorie$) adj2 (intake$ or consum$ or diet$)).ab,ti.
27. (vitamin$ adj3 (intake$ or consum$ or diet$)).ab,ti.
28. ((micronutrient or micro-nutrient or "micro nutrient") adj3 (intake$ or consum$ or diet$)).ab,ti.
29. nutrition.ab,ti.
30. *Food Habits/
31. *Food Preferences/
32. exp Nutrition Therapy/
33. or/13-32
34. eat$.ab,ti.
35. (over eat or "over eat" or overeat).ab,ti.
36. *Malnutrition/
37. malnutrition.ab,ti.
38. (undernutrition$ or undernourish$ or under-nutrition$ or under-nourish$).ab,ti.
39. (weight adj2 (gain$ or loss$ or cycling or reduc$ or maint$ or decrease$ or increas$ or watch$ or control$ or change$)).ab,ti.
40. ((bmi or "body mass index") adj2 (gain$ or los$ or cycling or reduc$ or maint$ or decrease$ or increas$ or watch$ or control$ or changes$)).ab,ti.
41. (obesity adj2 "related behaviour").ab,ti.
42. or/34-41
43. exp Exercise/

44. exp Sports/
45. *Exercise Therapy/
46. exp Physical Exertion/
47. exp "Physical Education and Training" or exp Physical Fitness/
48. exp running/ or exp swimming/ or exp walking/
49. exp Bicycling/
50. exp Dancing/
51. "tai chi".ab,ti.
52. tai ji/ or yoga/
53. "tai ji".ab,ti.
54. yoga.ab,ti.
55. ((center$ or centre$ or program$ or site$ or setting$ or venue$ or event$) adj3 (sport$ or exercise$ or fitness or training$ or activ$)).ab,ti.
56. exp Life Style/
57. exp Sedentary Lifestyle/
58. sedentary.ab,ti.
59. (exercis$ or sport$ or danc$ or run$ or walk$ or jog$ or garden$ or leisure or recreation$ or golf$ or tennis$ or badminton$ or bowl$ or curl$).ab,ti.
60. (bicycl$ or training or trainer$ or bik$ or wellness).ab,ti.
61. balanc$.ab,ti.
62. ((resistance or conditioning) adj2 training).ab,ti.
63. ((cardio$ or aerobic$) adj2 (sport$ or exercise$ or fitness or training$ or activ$)).ab,ti.
64. or/43-63
65. Smoking/
66. exp Smoking Cessation/
67. exp "Tobacco Use Cessation Products"/
68. (smok$ adj3 (cessation or cease$ or quit$ or stop$ or reduce$ or reduction)).ab,ti.
69. or/65-67
70. exp Drinking Behavior/
71. exp Alcohol Deterrents/
72. exp Temperance/
73. ((alcohol or drunk$ or drink$) adj3 (consum$ or misus$ or abuse$ or intoxicat$ or harmful or excess$ or binge$ or hazardous$ or heavy or temperance or abstinence)).ab,ti.
74. (temperan$ or teetotal$).ab,ti.
75. or/70-74
76. (cognit$ adj2 stimulat$).ab,ti.
77. cognit$ exercis$.ab,ti.
78. (cognit$ adj2 (stimulat$ or train$ or exercis$)).ab,ti.
79. (brain adj2 (stimulat$ or train$ or exercis$)).ab,ti.
80. puzzle$.ab,ti.

81. crossword$.ab,ti.
82. reading.ab,ti.
83. (intellect$ adj2 activit$).ab,ti.
84. or/76-83
85. (socialis$ or socializ$).ab,ti.
86. (social$ adj2 (activit$ or stimulat$)).ab,ti.
87. (social adj3 (isolat$ or network$ or contact$ or alienat$)).ab,ti.
88. loneI$.ab,ti.
89. exp Loneliness/
90. or/85-89
91. 12 or 33 or 42 or 64 or 69 or 75 or 84 or 90
92. vision tests/
93. Eyeglasses/
94. vision disorders/
95. computer terminals/
96. Asthenopia/
97. ((sight or eyesight or vision or eye$) adj2 (protect$ or maintain$ or maintenance)).ti,ab.
98. or/92-97
99. hearing tests/
100. hearing loss/
101. hearing aids/
102. ((hearing or noise$) adj2 (protect$ or maintain$ or maintenance)).ti,ab.
103. or/99-102
104. 91 or 98 or 103
105. "sun burn".ab,ti.
106. Sunburn/
107. Sunscreening agents/
108. (sun adj (light or exposure or overexposure or screen* or protect* or tan$)).ab,ti.
109. vitamin D.ab,ti.
110. Vitamin D/
111. or/105-110
112. 104 or 111
113. *Aged/
114. Retirement/
115. *Aging/
116. Geriatrics/
117. older.ab,ti.
118. elder$.ab,ti.
119. senior$.ab,ti.
120. geriatr$.ab,ti.

121. retir$.ab,ti.
122. ag?ing.ab,ti.
123. longevity.ab,ti.
124. "later life".ab,ti.
125. "randomized controlled trial".pt.
126. (random$ or placebo$ or "single blind$" or "double blind$" or triple blind$).ab,ti.
127. (retraction of publication or retracted publication).pt.
128. ((comment or editorial or meta-analysis or practice-guideline or review or letter or journal correspondence) not "randomized controlled trial").pt.
129. (random sampl$ or random digit$ or random effect$ or random survey$ or random regression).ab,ti.
130. controlled trial.pt.
131. 129 not 130
132. 125 or 126 or 127
133. 128 or 131
134. 132 not 133
135. or/113-124
136. 112 and 134 and 135
137. limit 136 to yr="2000 -Current"
138. Animals/
139. Humans/
140. 138 and 139
141. 138 not 140
142. 137 not 141
143. limit 142 to english language

3. For qualitative studies searches were as above to line 124 then the following filter for qualitative studies was used (University of Texas School of Public Health filter, The InterTASC Information Specialists’ Sub-Group Search Filter Resource (ISSG) available at: https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/):-
"semi-structured" or semistructured or unstructured or informal or "in-depth" or indepth or "face-to-face" or structured or guide) adj3 (interview* or discussion* or questionnaire*))).ti,ab. or (focus group* or qualitative or ethnograph* or fieldwork or "field work" or "key informant”).ti,ab. or interviews as topic/ or focus groups/ or narration/ or qualitative research/

4. For non-randomised studies, searches were as above to line 124 then the following filter for non-randomised studies was used:-
evaluation studies/ or evaluation studies as topic/ or program evaluation/ or validation studies as topic/ or ((pre-adj5 post-) or (pretest adj5 posttest) or (program* adj6 evaluat*)).ti,ab. or (effectiveness or intervention).ti,ab.

### 5. Grey literature sources searched and dates

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