

## Guideline topic: Prevention of coronary heart disease

### General comments

The guidelines search was carried out at an early stage in the process, and was based on heart disease prevention. It was not related to specific key questions.

### Search coverage

#### Patient searches

Databases covered:

Dates covered:

The patient searches were carried out for the whole CHD topic area.

Total hits:

Sifted result:

#### Guidelines

Websites:

Quality Improvement Scotland  
National Institute of Clinical Excellence  
NHS Centre for Reviews and Dissemination  
Agency for Health Care Research and Quality (AHRQ)  
Canadian Medical Association  
Centre for Clinical Effectiveness (Australia)  
Health Technology Assessment  
National Electronic Library for Health  
National Guideline Clearinghouse  
New Zealand Guidelines Group  
National Health and Medical Research Council (NHMRC) - Australia  
Swedish Council on Technology Assessment in Health Care (SBU)  
US National Institutes of Health  
TRIP Database

Databases:

Embase (2001 - 2004)  
Medline (2001 - 2004)

Total hits: 1371

Sifted result: 29

Guidelines evaluated using AGREE instrument:

#### Systematic reviews

Databases covered:

Dates covered:

Embase	1998-2004
Medline	1998-2004
Cochrane Database of Systematic Reviews	1998-2004
DARE	1998-2004

Total hits: 2807

Sifted result: 285

#### RCTs

Databases covered:

**Subgroup 2 Alcohol - 7 Jan 05**

Medline

Embase

Cinhal

CENTRAL

PSYCINFO

Total hits: 500

Databases covered:

**Subgroup 4 Lipids/ Hypertension**

**Metabolic syndrome risk factor reduction - 21 Mar 05**

Medline

Embase

CENTRAL

Total hits: 354

Databases covered:

**Subgroup 4 Lipids/ Hypertension**

**Blood pressure – 13 Apr 2005**

Medline

Embase

CENTRAL

PreMedline

Total hits: 1574

Databases covered:

**Subgroup 4 Lipids/ Hypertension**

**Lipids – 14 Apr 2005**

Medline

Embase

CENTRAL

PreMedline

Total hits: 1011

Databases covered:

**Subgroup 4a Lipids/ Hypertension**

**Familial hypercholesterolemia – 26 May 05**

Medline

Embase

CENTRAL

Total hits: 289

Dates covered:

1998-2005

1998-2005

1998-2005

1998-2005

1998-2005

Sifted result: 13

Dates covered:

1998-2005

1998-2005

1998-2005

Sifted result: 47

Dates covered:

1998-2005

1998-2005

1998-2005

1998-2005

Sifted result: 29

Dates covered:

1998-2005

1998-2005

1998-2005

1998-2005

Sifted result: 36

Dates covered:

1998-2005

1998-2005

1998-2005

Sifted result: 26

Databases covered:

**Subgroup 5 Diet – 2 Jun 05**

Medline

Embase

Cinhal

CENTRAL

Dates covered:

1998-2005

1998-2005

1998-2005

1998-2005

Total hits:

Sifted result:

Databases covered:

Dates covered:

**Subgroup 5 Diet – 30 May 05**

**Dietary advice**

Medline

Embase

Cinhal

Psychinfo

CENTRAL

1998-2005

1998-2005

1998-2005

1998-2005

1998-2005

Total hits: 61

Sifted result: 12

Databases covered:

Dates covered:

**Subgroup 6 Physical activities - 8 Feb 05**

Medline

Embase

Cinhal

CENTRAL

1998-2005

1998-2005

1998-2005

1998-2005

Total hits: 2133

Sifted result: 123

Databases covered:

Dates covered:

**Subgroup 6 Physical activities – 27 May 05**

**Diabetes, lipids, hypertension**

Medline

Embase

Cinhal

CENTRAL

1998-2005

1998-2005

1998-2005

1998-2005

Total hits:

Sifted result:

<i>Databases covered:</i>		<i>Dates covered:</i>	
<b>Subgroup 8 Prevention - 27 Aug 04</b>			
Medline		1998-2004	
Embase		1998-2004	
Cinhal		1998-2004	
CENTRAL		1998-2004	
PSYCINFO		1998-2004	
<i>Total hits: 969</i>		<i>Sifted result: 43</i>	
<i>Databases covered:</i>		<i>Dates covered:</i>	
<b>Subgroup 8 Prevention</b>			
<b>Smoking and mental health search - 23 Dec 04</b>			
Medline		1998-2004	
Embase		1998-2004	
Cinhal		1998-2004	
CENTRAL		1998-2004	
PSYCINFO		1998-2004	
<i>Total hits: 1196</i>		<i>Sifted result: 46</i>	
<b>Observational studies</b>			
<i>Databases covered:</i>		<i>Dates covered:</i>	
<b>Subgroup 6 Physical activities - 8 Feb 05</b>			
Medline		1998-2005	
Embase		1998-2005	
Cinhal		1998-2005	
PSYCINFO		1998-2005	
<i>Total hits: 1705</i>		<i>Sifted result: 122</i>	
<i>Databases covered:</i>		<i>Dates covered:</i>	
<b>Subgroup 7 Psychological issues</b>			
<b>Health beliefs - 6 Jan 05</b>			
Medline		1998-2005	
Embase		1998-2005	
Cinhal		1998-2005	
CENTRAL		1998-2005	
PSYCINFO		1998-2005	
<i>Total hits: 493</i>		<i>Sifted result: 12</i>	

<i>Databases covered:</i>	<i>Dates covered:</i>
<b>Subgroup 8 Prevention</b>	
<b>Smoking and mental health search - 23 Dec 04</b>	
Medline	1998-2004
Embase	1998-2004
Cinhal	1998-2004
CENTRAL	1998-2004
PSYCINFO	1998-2004
<i>Total hits: 3376</i>	<i>Sifted result: 53</i>
<b>Diagnostic studies</b>	
<i>Databases covered:</i>	<i>Dates covered:</i>
<i>Total hits:</i>	<i>Sifted result:</i>
<b>Economic studies</b>	
<i>Databases covered:</i>	<i>Dates covered:</i>
<i>Total hits:</i>	<i>Sifted result:</i>
<b>Supplementary searches</b>	
<b>Lipids etc.: Effect of raising HDL cholesterol or lowering triglycerides</b>	
<i>Databases covered:</i>	<i>Dates covered:</i>
Cochrane Library	1998 – 2005
Embase	1998 – 2005
Medline	1998 – 2005
<i>Total hits: 268</i>	<i>Sifted result: 49</i>
<b>Search strategies</b>	
<p>The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesaurii used in non-Medline databases.</p> <p>Search filters were added to identify studies of a particular type (guideline, systematic review, etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.</p>	
<p>Strategy for Systematic Reviews and Guidelines. Search combined with reviews filter and guidelines filter.</p> <ol style="list-style-type: none"> <li>1 exp Heart Failure, Congestive/ (51193)</li> <li>2 exp Ventricular Dysfunction, Left/ (6673)</li> <li>3 heart failure.ti. (19796)</li> <li>4 left ventricular failure.mp. (1674)</li> <li>5 left ventricular dysfunction.mp. (0)</li> </ol>	

6 left ventricular systolic dysfunction.mp. (617)  
 7 lvsd.mp. (50)  
 8 or/1-7 (58321)  
 9 exp Anti-Arrhythmia Agents/ (157007)  
 10 exp Defibrillators, Implantable/ (3902)  
 11 arrhythmi\$.tw. (39571)  
 12 (antiarrhythmi\$ or anti-arrhythmi\$.tw. (14135)  
 13 tachycardi\$.tw. (30526)  
 14 bradycardi\$.tw. (12393)  
 15 defibrill\$.tw. (7853)  
 16 fibrillat\$.tw. (26152)  
 17 atrial fibrillat\$.tw. (14110)  
 18 or/9-17 (229144)  
 19 exp Myocardial Ischemia/ (223844)  
 20 exp Coronary Disease/ (138035)  
 21 exp Angina Pectoris/ (29524)  
 22 exp Syndrome X/ (560)  
 23 exp Coronary Arteriosclerosis/ (10038)  
 24 exp Coronary Stenosis/ (2350)  
 25 exp Coronary Vasospasm/ (3643)  
 26 angina.tw. (29504)  
 27 (myocardial adj (ischemia or ischaemia)).tw. (16127)  
 28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (192)  
 29 or/19-28 (231139)  
 30 acute coronary syndrome\$.tw. (3440)  
 31 ACS.tw. (2064)  
 32 exp Myocardial Infarction/ (95277)  
 33 exp Angina, Unstable/ (6927)  
 34 unstable angina.tw. (7001)  
 35 (unstable adj2 coronary).tw. (807)  
 36 non-ST-segment elevation.tw. (249)  
 37 ST-segment elevation.tw. (2694)  
 38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (98)  
 39 heart attack.tw. (1378)  
 40 (heart adj2 infarct\$.tw. (2560)  
 41 ST-elevation.tw. (1667)  
 42 exp Coronary Thrombosis/ (3063)  
 43 (coronary adj2 thrombos\$.tw. (1735)  
 44 or/30-43 (109568)  
 45 8 or 18 or 29 or 44 (475295)

***RCTs - Subgroup 2 Alcohol***

1 exp Heart Failure, Congestive/ (20142)  
 2 exp Ventricular Dysfunction, Left/ (6348)  
 3 heart failure.ti. (10599)  
 4 left ventricular failure.mp. (356)

5 left ventricular dysfunction.mp. (0)  
6 left ventricular systolic dysfunction.mp. (507)  
7 lvsd.mp. (47)  
8 or/1-7 (25624)  
9 exp Anti-Arrhythmia Agents/ (35632)  
10 exp Defibrillators, Implantable/ (3235)  
11 arrhythmi\$.tw. (13609)  
12 (antiarrhythmi\$ or anti-arrhythmi\$.tw. (4118)  
13 tachycardi\$.tw. (9882)  
14 bradycardi\$.tw. (4017)  
15 defibrill\$.tw. (4588)  
16 fibrillat\$.tw. (12728)  
17 atrial fibrillat\$.tw. (8726)  
18 or/9-17 (65341)  
19 exp Myocardial Ischemia/ (75715)  
20 exp Coronary Disease/ (44779)  
21 exp Angina Pectoris/ (8151)  
22 exp Syndrome X/ (405)  
23 exp Coronary Arteriosclerosis/ (7574)  
24 exp Coronary Stenosis/ (2801)  
25 exp Coronary Vasospasm/ (847)  
26 angina.tw. (10630)  
27 (myocardial adj (ischemia or ischaemia)).tw. (6116)  
28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (82)  
29 or/19-28 (78993)  
30 acute coronary syndrome\$.tw. (3605)  
31 ACS.tw. (1702)  
32 exp Myocardial Infarction/ (28623)  
33 exp Angina, Unstable/ (3545)  
34 unstable angina.tw. (3836)  
35 (unstable adj2 coronary).tw. (579)  
36 non-ST-segment elevation.tw. (299)  
37 ST-segment elevation.tw. (1662)  
38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (159)  
39 heart attack.tw. (779)  
40 (heart adj2 infarct\$.tw. (1060)  
41 ST-elevation.tw. (1043)  
42 exp Coronary Thrombosis/ (1672)  
43 (coronary adj2 thrombos\$.tw. (624)  
44 or/30-43 (36806)  
45 8 or 18 or 29 or 44 (156636)  
46 exp Alcohol Drinking/ (11417)  
47 exp ALCOHOLIC BEVERAGES/ (2974)  
48 exp BEER/ (553)  
49 exp WINE/ (1802)  
50 alcohol.tw. (38029)

- 51 beer.tw. (1173)
- 52 wine.tw. (2776)
- 53 spirits.tw. (401)
- 54 or/46-53 (44121)
- 55 45 and 54 (1520)

***RCTs - Subgroup 4 Lipids/ Hypertension***

***Risk factors and metabolic syndrome search***

- 1 exp Metabolic Syndrome X/ (1473)
- 2 obesity syndrome.tw. (78)
- 3 reaven's syndrome.tw. (7)
- 4 metabolic syndrome.tw. (2346)
- 5 or/1-4 (2858)
- 6 exp Risk Factors/ (162338)
- 7 risk\$.tw. (308609)
- 8 or/6-7 (370399)
- 9 5 and 8 (1517)

***RCTs - Subgroup 4 Lipids/ Hypertension***

***Familial hypercholesterolemia***

- 1 exp Hypercholesterolemia, Familial/ (1331)
- 2 familial hypercholesterolemia.tw. (965)
- 3 1 or 2 (1592)

***RCTs - Subgroup 4 Lipids/ Hypertension***

***Blood pressure lowering***

1. Blood Pressure/ use mesz (173282)
2. exp Antihypertensive Agents/ use mesz (173976)
3. exp Adrenergic beta-Antagonists/ use mesz (63287)
4. exp DIURETICS/ use mesz (72071)
5. exp Angiotensin-Converting Enzyme Inhibitors/ use mesz (28399)
6. exp Receptors, Angiotensin/ use mesz (9432)
7. exp Angiotensin II Type 1 Receptor Blockers/ use mesz (5418)
8. exp Calcium Channel Blockers/ use mesz (56801)
9. or/2-8 (289603)
10. 1 and 9 (40818)
11. (lower\$ adj2 blood pressure\$.tw. use mesz (9003)
12. 10 or 11 (46919)
13. exp Vascular Diseases/ use mesz (864130)
14. 12 and 13 (24772)
15. Randomized Controlled Trials/ use mesz (36154)
16. randomized controlled trial.pt. use mesz (198152)
17. Random Allocation/ use mesz (52597)
18. Double-Blind Method/ use mesz (80589)
19. Single-Blind Method/ use mesz (8737)
20. clinical trial.pt. use mesz (400002)
21. exp Clinical Trials/ use mesz (162754)

22. or/15-21 (519562)
23. (clinic\$ adj trial\$1).tw. use mesz (83896)
24. ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. use mesz (77152)
25. PLACEBOS/ use mesz (23474)
26. placebo\$.tw. use mesz (87368)
27. randomly allocated.tw. use mesz (8030)
28. (allocated adj2 random).tw. use mesz (612)
29. or/23-28 (205739)
30. 22 or 29 (572607)
31. case report.tw. use mesz (104336)
32. letter.pt. use mesz (523552)
33. historical article.pt. use mesz (216356)
34. review of reported cases.pt. use mesz (51612)
35. review, multicase.pt. use mesz (8838)
36. or/31-35 (886783)
37. 30 not 36 (554926)
38. 14 and 37 (8527)
39. limit 38 to yr= 2003-2005 (668)
40. exp Blood Pressure/ use emez (135458)
41. exp Antihypertensive Agent/ use emez (276796)
42. exp Beta Adrenergic Receptor Blocking Agent/ use emez (118339)
43. exp Diuretic Agent/ use emez (130124)
44. exp Dipeptidyl Carboxypeptidase Inhibitor/ use emez (61411)
45. exp Angiotensin Receptor Antagonist/ use emez (14767)
46. exp Calcium Channel Blocking Agent/ use emez (101240)
47. or/41-46 (403269)
48. 40 and 47 (44729)
49. (lower\$ adj2 blood pressure\$).tw. use emez (8700)
50. 48 or 49 (50185)
51. exp Vascular Disease/ use emez (574898)
52. 50 and 51 (8529)
53. Clinical Trial/ use emez (330242)
54. Randomized Controlled Trial/ use emez (93598)
55. exp RANDOMIZATION/ use emez (14375)
56. Single Blind Procedure/ use emez (5221)
57. Double Blind Procedure/ use emez (55153)
58. Crossover Procedure/ use emez (16005)
59. PLACEBO/ use emez (76037)
60. randomi?ed controlled trial\$.tw. use emez (16518)
61. rct.tw. use emez (1124)
62. random allocation.tw. use emez (491)
63. randomly allocated.tw. use emez (7708)
64. allocated randomly.tw. use emez (1187)
65. (allocated adj2 random).tw. use emez (569)
66. single blind\$.tw. use emez (5720)
67. double blind\$.tw. use emez (68006)
68. ((treble or triple) adj blind\$).tw. use emez (103)
69. placebo\$.tw. use emez (84626)
70. Prospective Study/ use emez (45629)
71. or/53-70 (464791)
72. Case Study/ use emez (3743)
73. case report.tw. use emez (88165)
74. abstract report/ use emez or letter/ use emez (364068)
75. or/72-74 (454647)
76. 71 not 75 (449087)
77. 52 and 76 (2524)
78. limit 77 to yr= 2003-2005 (907)
79. exp Blood pressure/ use cctr (15752)

80. blood pressure\$.kw. use cctr (3123)
81. 79 or 80 (18875)
82. exp Antihypertensive Agents/ use cctr (16365)
83. antihypertensive agent\$.kw. use cctr (446)
84. exp Adrenergic beta-Antagonists/ use cctr (7558)
85. adrenergic beta-antagonists.kw. use cctr (169)
86. beta adrenergic receptor blocking agent.kw. use cctr (416)
87. exp DIURETICS/ use cctr (4985)
88. diuretics.kw. use cctr (62)
89. diuretic agent.kw. use cctr (244)
90. exp Angiotensin-Converting Enzyme Inhibitors/ use cctr (3891)
91. angiotensin-converting enzyme inhibitors.kw. use cctr (188)
92. dipeptidyl carboxypeptidase inhibitor.kw. use cctr (321)
93. exp Receptors, Angiotensin/ use cctr (392)
94. receptors, angiotensin.kw. use cctr (42)
95. Angiotensin II Type 1 Receptor Blockers/ use cctr (0)
96. angiotensin II type 1 receptor blockers.kw. use cctr (0)
97. angiotensin receptor antagonist.kw. use cctr (7)
98. exp Calcium Channel Blockers/ use cctr (5679)
99. calcium channel blockers.kw. use cctr (94)
100. calcium channel blocking agent.tw. use cctr (53)
101. or/82-100 (23705)
102. 81 and 101 (7563)
103. (lower\$ adj2 blood pressure\$.tw. use cctr (2138)
104. 102 or 103 (8925)
105. exp Vascular Diseases/ use cctr (32854)
106. vascular disease\$.kw. use cctr (92)
107. 105 or 106 (32946)
108. 104 and 107 (5432)
109. limit 108 to yr = 2003-2004 (198)
110. (lower\$ adj2 blood pressure\$.tw. use prem (180)
111. limit 110 to yr = 2003-2005 (162)
112. 39 or 78 or 109 or 111 (1935)
113. remove duplicates from 112 (1571)

#### ***RCTs - Subgroup 4 Lipids/ Hypertension***

##### ***Lipid lowering***

1. exp \*antilipemic agent/ use emez (34126)
2. exp \*vascular disease/ use emez (407811)
3. 1 and 2 (4962)
4. Clinical Trial/ use emez (330242)
5. Randomized Controlled Trial/ use emez (93598)
6. exp RANDOMIZATION/ use emez (14375)
7. Single Blind Procedure/ use emez (5221)
8. Double Blind Procedure/ use emez (55153)
9. Crossover Procedure/ use emez (16005)
10. PLACEBO/ use emez (76037)
11. randomi?ed controlled trial\$.tw. use emez (16518)
12. rct.tw. use emez (1124)
13. random allocation.tw. use emez (491)
14. randomly allocated.tw. use emez (7708)
15. allocated randomly.tw. use emez (1187)
16. (allocated adj2 random).tw. use emez (569)
17. single blind\$.tw. use emez (5720)
18. double blind\$.tw. use emez (68006)

19. ((treble or triple) adj blind\$.tw. use emez (103)
20. placebo\$.tw. use emez (84626)
21. Prospective Study/ use emez (45629)
22. or/4-21 (464791)
23. Case Study/ use emez (3743)
24. case report.tw. use emez (88165)
25. abstract report/ use emez or letter/ use emez (364068)
26. or/23-25 (454647)
27. 22 not 26 (449087)
28. 3 and 27 (1722)
29. limit 28 to yr= 2003-2005 (441)
30. exp \*antilipemic agents/ use mesz (25470)
31. exp \*vascular diseases/ use mesz (681723)
32. 30 and 31 (4180)
33. Randomized Controlled Trials/ use mesz (36154)
34. randomized controlled trial.pt. use mesz (198152)
35. Random Allocation/ use mesz (52597)
36. Double-Blind Method/ use mesz (80589)
37. Single-Blind Method/ use mesz (8737)
38. clinical trial.pt. use mesz (400002)
39. exp Clinical Trials/ use mesz (162754)
40. or/33-39 (519562)
41. (clinic\$ adj trial\$1).tw. use mesz (83896)
42. ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. use mesz (77152)
43. PLACEBOS/ use mesz (23474)
44. placebo\$.tw. use mesz (87368)
45. randomly allocated.tw. use mesz (8030)
46. (allocated adj2 random).tw. use mesz (612)
47. or/41-46 (205739)
48. 40 or 47 (572607)
49. case report.tw. use mesz (104336)
50. letter.pt. use mesz (523552)
51. historical article.pt. use mesz (216356)
52. review of reported cases.pt. use mesz (51612)
53. review, multicase.pt. use mesz (8838)
54. or/49-53 (886783)
55. 48 not 54 (554926)
56. 32 and 55 (1795)
57. limit 56 to yr= 2003-2005 (445)
58. exp antilipemic agents/ use cctr (2926)
59. antilipemic agent\$.kw. use cctr (78)
60. hypocholesterolemic agent\$.kw. use cctr (18)
61. or/58-60 (3020)
62. exp vascular diseases/ use cctr (32854)
63. (vascular adj disease\$.kw. use cctr (92)
64. or/62-63 (32946)
65. 61 and 64 (1060)
66. limit 65 to yr= 2003 – 2005 (153)
67. (lipid\$ adj2 (low\$ or depress\$)).tw. use prem (260)
68. limit 67 to yr= 2003 – 2005 (235)
69. 29 or 57 or 66 or 68 (1274)
70. remove duplicates from 69 (1012)

***RCTs - Subgroup 5 Diet***

- 1 exp Heart Failure, Congestive/ (21812)

2 exp Ventricular Dysfunction, Left/ (6957)  
3 heart failure.ti. (11555)  
4 left ventricular failure.mp. (373)  
5 left ventricular dysfunction.mp. (0)  
6 left ventricular systolic dysfunction.mp. (571)  
7 lvsd.mp. (57)  
8 or/1-7 (27834)  
9 exp Anti-Arrhythmia Agents/ (37654)  
10 exp Defibrillators, Implantable/ (3491)  
11 arrhythmi\$.tw. (14594)  
12 (antiarrhythmi\$ or anti-arrhythmi\$.tw. (4356)  
13 tachycardi\$.tw. (10512)  
14 bradycardi\$.tw. (4313)  
15 defibrill\$.tw. (4956)  
16 fibrillat\$.tw. (13697)  
17 atrial fibrillat\$.tw. (9451)  
18 or/9-17 (69628)  
19 exp Myocardial Ischemia/ (81409)  
20 exp Coronary Disease/ (48116)  
21 exp Angina Pectoris/ (8651)  
22 exp Syndrome X/ (0)  
23 exp Coronary Arteriosclerosis/ (8569)  
24 exp Coronary Stenosis/ (3392)  
25 exp Coronary Vasospasm/ (901)  
26 angina.tw. (11273)  
27 (myocardial adj (ischemia or ischaemia)).tw. (6505)  
28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (88)  
29 or/19-28 (84911)  
30 acute coronary syndrome\$.tw. (4062)  
31 ACS.tw. (1938)  
32 exp Myocardial Infarction/ (30893)  
33 exp Angina, Unstable/ (3776)  
34 unstable angina.tw. (4077)  
35 (unstable adj2 coronary).tw. (615)  
36 non-ST-segment elevation.tw. (339)  
37 ST-segment elevation.tw. (1851)  
38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (232)  
39 heart attack.tw. (849)  
40 (heart adj2 infarct\$.tw. (1163)  
41 ST-elevation.tw. (1215)  
42 exp Coronary Thrombosis/ (1798)  
43 (coronary adj2 thrombos\$.tw. (659)  
44 or/30-43 (39808)  
45 8 or 18 or 29 or 44 (168098)  
46 exp Folic Acid/ (6783)  
47 folate.tw. (4978)

- 48 exp Soybean Proteins/ or exp Soybeans/ (4926)
- 49 soya.tw. (530)
- 50 exp Prunus/ (390)
- 51 almond\$.tw. (344)
- 52 exp NUTS/ (491)
- 53 exp Weight Loss/ (7506)
- 54 weight loss.tw. (12401)
- 55 weight reduction.tw. (1630)
- 56 reducing weight.tw. (59)
- 57 exp Sterols/ (35879)
- 58 stanol ester\$.tw. (64)
- 59 exp Sodium Chloride/ (10505)
- 60 exp Diet, Sodium-Restricted/ (879)
- 61 exp Sodium, Dietary/ (2548)
- 62 salt.tw. (20441)
- 63 processed food\$.tw. (282)
- 64 exp Food Handling/ (8455)
- 65 exp FRUIT/ (12849)
- 66 exp VEGETABLES/ (23010)
- 67 fruit\$.tw. (13325)
- 68 vegetable\$.tw. (7533)
- 69 or/46-68 (137051)
- 70 69 and 45 (7155)

***RCTs and Observational Studies - Subgroup 6 Physical activities***

- 1 exp Heart Failure, Congestive/ (19908)
- 2 exp Ventricular Dysfunction, Left/ (6263)
- 3 heart failure.ti. (10470)
- 4 left ventricular failure.mp. (355)
- 5 left ventricular dysfunction.mp. (0)
- 6 left ventricular systolic dysfunction.mp. (499)
- 7 lvsd.mp. (46)
- 8 or/1-7 (25327)
- 9 exp Anti-Arrhythmia Agents/ (35389)
- 10 exp Defibrillators, Implantable/ (3171)
- 11 arrhythmi\$.tw. (13473)
- 12 (antiarrhythmi\$ or anti-arrhythmi\$.tw. (4092)
- 13 tachycardi\$.tw. (9767)
- 14 bradycardi\$.tw. (3980)
- 15 defibrill\$.tw. (4513)
- 16 fibrillat\$.tw. (12500)
- 17 atrial fibrillat\$.tw. (8555)
- 18 or/9-17 (64678)
- 19 exp Myocardial Ischemia/ (74905)
- 20 exp Coronary Disease/ (44261)

21 exp Angina Pectoris/ (8068)  
22 exp Syndrome X/ (404)  
23 exp Coronary Arteriosclerosis/ (7398)  
24 exp Coronary Stenosis/ (2692)  
25 exp Coronary Vasospasm/ (837)  
26 angina.tw. (10545)  
27 (myocardial adj (ischemia or ischaemia)).tw. (6052)  
28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (81)  
29 or/19-28 (78155)  
30 acute coronary syndrome\$.tw. (3527)  
31 ACS.tw. (1670)  
32 exp Myocardial Infarction/ (28329)  
33 exp Angina, Unstable/ (3503)  
34 unstable angina.tw. (3803)  
35 (unstable adj2 coronary).tw. (576)  
36 non-ST-segment elevation.tw. (285)  
37 ST-segment elevation.tw. (1625)  
38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (144)  
39 heart attack.tw. (769)  
40 (heart adj2 infarct\$).tw. (1052)  
41 ST-elevation.tw. (1017)  
42 exp Coronary Thrombosis/ (1647)  
43 (coronary adj2 thrombos\$).tw. (618)  
44 or/30-43 (36405)  
45 8 or 18 or 29 or 44 (154988)  
46 exp REHABILITATION/ (52276)  
47 exp EXERCISE/ (19018)  
48 exp Exercise Therapy/ (4602)  
49 exp SPORTS/ (22058)  
50 (physical education and training).mp. [mp=title, original title, abstract, name of substance, mesh subject heading] (71)  
51 exp "Physical Education and Training"/ (2075)  
52 exp EXERTION/ (22850)  
53 rehabilitat\$.tw. (20704)  
54 (physical\$ adj2 Fit).tw. (105)  
55 (physical\$ adj2 fitness).tw. (1183)  
56 (physical adj2 train\$).tw. (1171)  
57 (physical adj2 activit\$).tw. (10947)  
58 (train\$ adj2 strength\$).tw. (947)  
59 (train\$ adj2 aerobic\$).tw. (643)  
60 (aerobic\$ adj2 exercise\$).tw. (1236)  
61 kinesitherap\$.tw. (54)  
62 kinesiotherap\$.tw. (9)  
63 (exercise\$ adj2 train\$).tw. (3267)  
64 or/46-63 (112183)  
65 45 and 64 (5637)

**RCTs - Subgroup 6 Physical activities  
Diabetes, Lipids and Hypertension**

- 1 exp DIABETES MELLITUS/ (70159)
- 2 diabet\$.tw. (88389)
- 3 iddm.tw. (2794)
- 4 niddm.tw. (3096)
- 5 mody.tw. (310)
- 6 ((typ\$ 1 or typ\$ I) adj diabet\$.tw. (8222)
- 7 ((typ\$ 2 or typ\$ II) adj diabet\$.tw. (16098)
- 8 insulin\$ secret\$ dysfunc\$.tw. (15)
- 9 impaired glucose toleran\$.tw. (2322)
- 10 exp Glucose Intolerance/ (1915)
- 11 glucose intoleran\$.tw. (1843)
- 12 exp Insulin Resistance/ (10901)
- 13 insulin\$ resist\$.tw. (12290)
- 14 (non insulin\$ depend\$ or noninsulin\$ depend\$ or non insulin?depend\$ or noninsulin?depend\$.tw. (4447)
- 15 (insulin\$ depend\$ or insulin?depend\$.tw. (8626)
- 16 metabolic\$ syndrom\$.tw. (2602)
- 17 (puri metabolic\$ syndrom\$ or plurimetabolic syndrom\$.tw. (21)
- 18 or/1-17 (107959)
- 19 exp DIABETES MELLITUS, TYPE 1/ (16468)
- 20 exp Diabetic Ketoacidosis/ (910)
- 21 (insulin\$ depend\$ or insulin?depend\$.tw. (8626)
- 22 (earl\$ adj diabet\$.tw. (373)
- 23 ((juvenil\$ or child\$ or keto\$ or labil\$ or brittl\$) adj diabet\$.tw. (791)
- 24 ((auto?immun\$ or sudden onset) adj diabet\$.tw. (1000)
- 25 (insulin\$ defic\$ adj absolut\$.tw. (2)
- 26 or/19-25 (22661)
- 27 exp DIABETES MELLITUS, TYPE 2/ (22592)
- 28 (obes\$ adj diabet\$.tw. (1857)
- 29 ((keto?resist\$ or non?keto\$) adj diabet\$.tw. (9)
- 30 ((adult\$ or matur\$ or late or slow or stabl\$) adj diabet\$.tw. (502)
- 31 (insulin\$ defic\$ adj relativ\$.tw. (3)
- 32 or/27-31 (24434)
- 33 exp LIPIDS/ (202495)
- 34 lipids.tw. (21821)
- 35 33 or 34 (208371)
- 36 exp Blood Pressure/ (47084)
- 37 exp HYPERTENSION/ (41734)
- 38 hypertension.tw. (60819)
- 39 blood pressure.tw. (53077)
- 40 or/36-39 (121804)
- 41 or/16,18,32,35,40 (395361)

- 42 exp REHABILITATION/ (57040)
- 43 exp EXERCISE/ (20866)
- 44 exp Exercise Therapy/ (5087)
- 45 exp SPORTS/ (24173)
- 46 (physical education and training).mp. [mp=title, original title, abstract, name of substance word, subject heading word] (2054)
- 47 exp "Physical Education and Training"/ (2301)
- 48 exp EXERTION/ (24983)
- 49 rehabilitat\$.tw. (22542)
- 50 (physical\$ adj2 Fit).tw. (113)
- 51 (physical\$ adj2 fitness).tw. (1288)
- 52 (physical adj2 train\$).tw. (1282)
- 53 (physical adj2 activit\$).tw. (12180)
- 54 (train\$ adj2 strength\$).tw. (1046)
- 55 (train\$ adj2 aerobic\$).tw. (704)
- 56 (aerobic\$ adj2 exercise\$).tw. (1349)
- 57 kinesitherap\$.tw. (62)
- 58 kinesiotherap\$.tw. (9)
- 59 (exercise\$ adj2 train\$).tw. (3559)
- 60 or/42-59 (122566)
- 61 41 and 60 (13456)

***RCTs and Observational Studies - Subgroup 7 Psychological issues  
Health beliefs search***

- 1 exp Heart Failure, Congestive/ (20142)
- 2 exp Ventricular Dysfunction, Left/ (6348)
- 3 heart failure.ti. (10599)
- 4 left ventricular failure.mp. (356)
- 5 left ventricular dysfunction.mp. (0)
- 6 left ventricular systolic dysfunction.mp. (507)
- 7 lvsd.mp. (47)
- 8 or/1-7 (25624)
- 9 exp Anti-Arrhythmia Agents/ (35632)
- 10 exp Defibrillators, Implantable/ (3235)
- 11 arrhythmi\$.tw. (13609)
- 12 (antiarrhythmi\$ or anti-arrhythmi\$).tw. (4118)
- 13 tachycardi\$.tw. (9882)
- 14 bradycardi\$.tw. (4017)
- 15 defibrill\$.tw. (4588)
- 16 fibrillat\$.tw. (12728)
- 17 atrial fibrillat\$.tw. (8726)
- 18 or/9-17 (65341)
- 19 exp Myocardial Ischemia/ (75715)
- 20 exp Coronary Disease/ (44779)
- 21 exp Angina Pectoris/ (8151)

- 22 exp Syndrome X/ (405)
- 23 exp Coronary Arteriosclerosis/ (7574)
- 24 exp Coronary Stenosis/ (2801)
- 25 exp Coronary Vasospasm/ (847)
- 26 angina.tw. (10630)
- 27 (myocardial adj (ischemia or ischaemia)).tw. (6116)
- 28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (82)
- 29 or/19-28 (78993)
- 30 acute coronary syndrome\$.tw. (3605)
- 31 ACS.tw. (1702)
- 32 exp Myocardial Infarction/ (28623)
- 33 exp Angina, Unstable/ (3545)
- 34 unstable angina.tw. (3836)
- 35 (unstable adj2 coronary).tw. (579)
- 36 non-ST-segment elevation.tw. (299)
- 37 ST-segment elevation.tw. (1662)
- 38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (159)
- 39 heart attack.tw. (779)
- 40 (heart adj2 infarct\$).tw. (1060)
- 41 ST-elevation.tw. (1043)
- 42 exp Coronary Thrombosis/ (1672)
- 43 (coronary adj2 thrombos\$).tw. (624)
- 44 or/30-43 (36806)
- 45 8 or 18 or 29 or 44 (156636)
- 46 health belief\$.tw. (775)
- 47 exp Health Knowledge, Attitudes, Practice/ (17492)
- 48 exp Health Behavior/ (23138)
- 49 or/46-48 (38970)
- 50 45 and 49 (1211)

***RCTs and Observational Studies - Subgroup 7 Psychological issues***

***Motivational interviewing***

- 1 exp Heart Failure, Congestive/ (20142)
- 2 exp Ventricular Dysfunction, Left/ (6348)
- 3 heart failure.ti. (10599)
- 4 left ventricular failure.mp. (356)
- 5 left ventricular dysfunction.mp. (0)
- 6 left ventricular systolic dysfunction.mp. (507)
- 7 lvsd.mp. (47)
- 8 or/1-7 (25624)
- 9 exp Anti-Arrhythmia Agents/ (35632)
- 10 exp Defibrillators, Implantable/ (3235)
- 11 arrhythmi\$.tw. (13609)
- 12 (antiarrhythmi\$ or anti-arrhythmi\$).tw. (4118)
- 13 tachycardi\$.tw. (9882)

- 14 bradycardi\$.tw. (4017)
- 15 defibrill\$.tw. (4588)
- 16 fibrillat\$.tw. (12728)
- 17 atrial fibrillat\$.tw. (8726)
- 18 or/9-17 (65341)
- 19 exp Myocardial Ischemia/ (75715)
- 20 exp Coronary Disease/ (44779)
- 21 exp Angina Pectoris/ (8151)
- 22 exp Syndrome X/ (405)
- 23 exp Coronary Arteriosclerosis/ (7574)
- 24 exp Coronary Stenosis/ (2801)
- 25 exp Coronary Vasospasm/ (847)
- 26 angina.tw. (10630)
- 27 (myocardial adj (ischemia or ischaemia)).tw. (6116)
- 28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (82)
- 29 or/19-28 (78993)
- 30 acute coronary syndrome\$.tw. (3605)
- 31 ACS.tw. (1702)
- 32 exp Myocardial Infarction/ (28623)
- 33 exp Angina, Unstable/ (3545)
- 34 unstable angina.tw. (3836)
- 35 (unstable adj2 coronary).tw. (579)
- 36 non-ST-segment elevation.tw. (299)
- 37 ST-segment elevation.tw. (1662)
- 38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (159)
- 39 heart attack.tw. (779)
- 40 (heart adj2 infarct\$).tw. (1060)
- 41 ST-elevation.tw. (1043)
- 42 exp Coronary Thrombosis/ (1672)
- 43 (coronary adj2 thrombos\$).tw. (624)
- 44 or/30-43 (36806)
- 45 8 or 18 or 29 or 44 (156636)
- 46 motivational interview\$.tw. (186)
- 47 stages of change\$.tw. (489)
- 48 health behaviour change.tw. (11)
- 49 or/46-48 (670)
- 50 45 and 49 (10)

***RCTs & Observational - Subgroup 8 Smoking***

- 1 exp Heart Failure, Congestive/ (19378)
- 2 exp Ventricular Dysfunction, Left/ (6071)
- 3 heart failure.ti. (10182)
- 4 left ventricular failure.mp. (350)
- 5 left ventricular dysfunction.mp. (0)
- 6 left ventricular systolic dysfunction.mp. (483)
- 7 lvsd.mp. (44)
- 8 or/1-7 (24653)

- 9 exp Anti-Arrhythmia Agents/ (34707)
- 10 exp Defibrillators, Implantable/ (3069)
- 11 arrhythmi\$.tw. (13126)
- 12 (antiarrhythmi\$ or anti-arrhythmi\$.tw. (4020)
- 13 tachycardi\$.tw. (9561)
- 14 bradycardi\$.tw. (3885)
- 15 defibrill\$.tw. (4387)
- 16 fibrillat\$.tw. (12161)
- 17 atrial fibrillat\$.tw. (8302)
- 18 or/9-17 (63243)
- 19 exp Myocardial Ischemia/ (73143)
- 20 exp Coronary Disease/ (43242)
- 21 exp Angina Pectoris/ (7910)
- 22 exp Syndrome X/ (400)
- 23 exp Coronary Arteriosclerosis/ (7104)
- 24 exp Coronary Stenosis/ (2501)
- 25 exp Coronary Vasospasm/ (823)
- 26 angina.tw. (10336)
- 27 (myocardial adj (ischemia or ischaemia)).tw. (5929)
- 28 ((ischaemi\$ or ischemi\$) adj chest pain).tw. (79)
- 29 or/19-28 (76316)
- 30 acute coronary syndrome\$.tw. (3399)
- 31 ACS.tw. (1610)
- 32 exp Myocardial Infarction/ (27613)
- 33 exp Angina, Unstable/ (3437)
- 34 unstable angina.tw. (3730)
- 35 (unstable adj2 coronary).tw. (564)
- 36 non-ST-segment elevation.tw. (274)
- 37 ST-segment elevation.tw. (1566)
- 38 (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw. (120)
- 39 heart attack.tw. (752)
- 40 (heart adj2 infarct\$.tw. (1020)
- 41 ST-elevation.tw. (978)
- 42 exp Coronary Thrombosis/ (1621)
- 43 (coronary adj2 thrombos\$.tw. (612)
- 44 or/30-43 (35471)
- 45 8 or 18 or 29 or 44 (151357)
- 46 exp Smoking Cessation/ (5530)
- 47 exp "TOBACCO USE DISORDER"/ (1752)
- 48 exp TOBACCO/ (5918)
- 49 exp NICOTINE/ (4566)
- 50 exp Tobacco, Smokeless/ (620)
- 51 exp SMOKING/ (25622)
- 52 ((quit\$ or stop\$ or ceas\$ or giv\$) adj2 smoking).tw. (2140)
- 53 exp TOBACCO SMOKE POLLUTION/ (2498)
- 54 or/46-53 (37738)
- 55 45 and 54 (2382)

***RCTs & Observational - Subgroup 8 Smoking***

***Smoking and mental health search***

- 1 exp Bipolar Disorder/ (5858)
- 2 Cyclothymic Disorder/ (53)
- 3 bipolar.tw. (9402)
- 4 (bipolar adj disorder\$.tw. (3364)
- 5 (bipolar adj i).tw. (490)

6 bipolar 1.tw. (29)  
7 (bipolar adj ii).tw. (298)  
8 bipolar 2.tw. (6)  
9 (bipolar adj mood).tw. (85)  
10 (bipolar adj affective).tw. (631)  
11 or/1-10 (11412)  
12 (mani\$ adj depressi\$).tw. (773)  
13 (manic adj state).tw. (36)  
14 (mani\$ adj episode).tw. (168)  
15 (depressi\$ adj episode).tw. (916)  
16 (rapid adj cycling).tw. (330)  
17 cyclothemi\$.tw. (0)  
18 cyclothymi\$.tw. (106)  
19 hypomania.tw. (284)  
20 hypomanic.tw. (212)  
21 or/11-20 (12524)  
22 exp SCHIZOPHRENIA/ (17116)  
23 exp Paranoid Disorders/ (272)  
24 SCHIZO\$.tw. (22277)  
25 HEBEPHRENI\$.tw. (38)  
26 OLIGOPHRENI\$.tw. (44)  
27 PSYCHOTIC\$.tw. (5249)  
28 PSYCHOSIS.tw. (4612)  
29 PSYCHOSES.tw. (1182)  
30 chronic\$.tw. (176185)  
31 sever\$.tw. (214091)  
32 mental\$.tw. (44301)  
33 ill\$.tw. (105803)  
34 disorder\$.tw. (155660)  
35 ((chronic\$ or sever\$) adj2 mental\$ adj2 (ill\$ or disorder\$)).tw. (1523)  
36 or/22-29,35 (31166)  
37 tardiv\$.tw. (879)  
38 dyskine\$.tw. (3064)  
39 (tardiv\$ adj dyskine\$).tw. (750)  
40 akathisi\$.tw. (401)  
41 acathisi\$.tw. (2)  
42 neuroleptic\$.tw. (4242)  
43 malignant.tw. (61867)  
44 syndrome.tw. (135890)  
45 movement.tw. (35769)  
46 disorder\$.tw. (155660)  
47 42 and movement.tw. and disorder\$.tw. (162)  
48 parkinsoni\$.tw. (5150)  
49 neuroleptic-induc\$.tw. (295)  
50 parkinson's.tw. (12392)  
51 disease.tw. (453457)

52 (parkinson's adj1 disease).ti. (6320)  
53 (neuroleptic\$ and (malignant adj2 syndrome)).tw. (505)  
54 or/39-41,47-48,51,53 (456696)  
55 54 not 52 (450376)  
56 exp Dyskinesia, Drug-Induced/ (1389)  
57 exp Akathisia, Drug-Induced/ (354)  
58 exp Neuroleptic Malignant Syndrome/ (511)  
59 or/55-58 (451230)  
60 59 or 36 (478608)  
61 exp Eating disorders/ (6792)  
62 exp Anorexia nervosa/ (2141)  
63 exp Bulimia/ (1779)  
64 exp Suicide, attempted/ (3272)  
65 exp Self mutilation/ (394)  
66 exp Self-injurious behavior/ (11856)  
67 exp Mood disorders/ (26164)  
68 exp Bipolar disorder/ (5858)  
69 exp Neurotic disorders/ (863)  
70 exp Depressive disorder/ (19296)  
71 exp Dysthymic disorder/ (452)  
72 exp depression/ or exp depression, involuntal/ or exp depression, postpartum/ (17500)  
73 exp Seasonal affective disorder/ (456)  
74 exp Adjustment disorders/ (384)  
75 exp anxiety/ or exp anxiety disorders/ or exp anxiety, separation/ or exp dental anxiety/  
(24299)  
76 exp panic/ or exp panic disorder/ (2397)  
77 exp Phobic disorders/ (1683)  
78 exp combat disorders/ or exp stress disorders, post-traumatic/ (5645)  
79 exp Somatoform disorders/ (2972)  
80 exp Hypochondriasis/ (252)  
81 exp Hysteria/ (202)  
82 exp Conversion disorder/ (326)  
83 Munchausen syndrome/ or Munchausen syndrome by proxy/ (414)  
84 exp munchausen syndrome/ or exp munchausen syndrome by proxy/ (414)  
85 exp Neurasthenia/ (124)  
86 exp Fatigue syndrome, chronic/ (1579)  
87 exp Obsessive-compulsive disorder/ (2523)  
88 exp Obsessive behavior/ (206)  
89 exp Compulsive behavior/ (1336)  
90 exp Sexual dysfunctions, psychological/ (5480)  
91 exp Impotence/ (3848)  
92 exp Stress, psychological/ (18424)  
93 exp Affective symptoms/ (1406)  
94 \*Mental disorders/ (15939)  
95 or/61-94 (111460)  
96 21 or 60 or 95 (578733)

- 97 exp Minority Groups/ (2625)
- 98 exp Ethnic Groups/ (23478)
- 99 ethnic minorit\$.tw. (1244)
- 100 racial minorit\$.tw. (96)
- 101 or/97-100 (25659)
- 102 96 or 101 (598345)
- 103 exp Smoking Cessation/ (5740)
- 104 exp "TOBACCO USE DISORDER"/ (1832)
- 105 exp TOBACCO/ (6127)
- 106 exp NICOTINE/ (4708)
- 107 exp Tobacco, Smokeless/ (644)
- 108 exp SMOKING/ (26631)
- 109 ((quit\$ or stop\$ or ceas\$ or giv\$) adj2 smoking).tw. (2220)
- 110 exp Tobacco Smoke Pollution/ (2585)
- 111 or/103-110 (39172)
- 112 102 and 111 (9445)

***HDL cholesterol and triglycerides***

- 1 exp Heart Failure, Congestive/ (19378)
- 2 exp Ventricular Dysfunction, Left/ (6071)
- 3 heart failure.ti. (10182)
- 4 left ventricular failure.mp. (350)
- 5 left ventricular dysfunction.mp. (0)
- 6 left ventricular systolic dysfunction.mp. (483)
- 7 lvsd.mp.
- 8 angina pectoris/
- 9 chd.mp.
- 10 myocardial infarction/
- 11 or/1-10
- 12 Lipoproteins, HDL Cholesterol/
- 13 Triglycerides/
- 14 11 and (12 or 13)
- 15 Cardiovascular risk.mp.
- 16 Risk/
- 17 Risk factor/
- 18 Event rate.mp.
- 19 or/15-18
- 20 14 and 19