

Appendix B: Literature Searching

Appendix B. Section 1: The preliminary search process for the fluoridation review

1. A rapid appraisal of the literature was carried out in order to identify the scope and scale of existing review literature surrounding this topic. The rapid appraisal search process involved searching a checklist of resources (see below) in order to gauge the amount of literature surrounding this topic. Scoping searches were also carried out on the Dialog Corporation DataStar and Dialog services in order to identify other databases for inclusion for future searching.
2. The next level of searching involved an initial literature search of the Medline database. The date period covered was 1966 – 03/1999, and foreign language papers were not excluded. This level of searching focussed on retrieval of systematic reviews and meta-analyses only; therefore the literature search used a methodology filter component to identify systematic reviews, overviews and meta-analysis literature, and to exclude editorials, case studies and other irrelevant publication types.
Full details of the search strategy are given in **Appendix B, Section 3.**
3. The final stage of searching involved the retrieval of primary studies of fluoridation. Medline and Embase were both searched using a strategy designed to retrieve primary studies including cohort studies, clinical trials, RCTs, longitudinal studies, prospective studies etc. The Medline search covered the date range 1966 - 05/1999. The Embase search covered the date range 1980 – 05/1999. Full details of the strategies used are given in **Appendix B, Section 4.**

Rapid appraisal checklist and results (searches carried out 14.4.99)

Completed and ongoing reviews	
Cochrane Library: Cochrane Database of Systematic Reviews	1 protocol
Cochrane Library: DARE	6
National Research Register	0
SHPIC Reports	0
SIGN Guidelines	0
Development and Evaluation (DEC) Reports	0
INAHTA Published Reports	0
INAHTA Ongoing Reviews	0
National Co-Ordinating Centre for Health Technology Assessment website	0
Indexes to clinical effectiveness sources including reviews, appraisal of reviews, and evidence-based guidelines	
TRiP (Turning Research into Practice)	2
ScHARR-Lock's Guide to the Evidence	0
IDEA Topic List	0

Appendix B. Section 2: Databases searched at each stage of the Review Process

Preliminary searches

- Medline [searched 28.5.99]

Main searches

- Medline [searched 18.6.99]
- Embase [searched 5.8.99]
- OldMedline [searched 22.7.99]
- NTIS (National Technical Information Service) [searched 9.8.99]
- Biosis [searched 9.8.99]
- Current Contents Search (Science Citation Index and Social Science Citation Index) [searched 1.9.99]
- Healthstar (Health Service Technology, Administration and Research) [searched 22.7.99]
- HSRProj [searched 22.7.99]
- TOXLINE [searched 22.7.99]
- Chemical Abstracts [searched 31.8.99]
- CAB Health [searched 9.8.99]
- FSTA (Food Science and Technology Abstracts) [searched 27.10.99]
- JICST- E Plus (Japanese Science and Technology) [searched 9.8.99]
- Pascal [searched 9.8.99]
- EI Compendex (Engineering Index) [searched 9.8.99]
- Enviroline [searched 9.8.99]
- PAIS (Public Affairs Information Services) [searched 9.8.99]
- SIGLE (System for Information on Grey Literature in Europe) [searched 27.10.99]
- Conference Papers Index [searched 9.8.99]
- Water Resources Abstracts [searched 9.8.99]
- Agricola (Agricultural Online Access) [searched 9.8.99]
- Waternet [searched 9.8.99]
- AMED (Allied and Complementary Medicine Database) [searched 13.10.99]
- Psyclit [searched 17.8.99]
- LILACS (Latin American and Caribbean Health Sciences Literature) [searched 13.8.99]

Update searches

- Medline [searched 10.2.00]
- Embase [searched 10.2.00]
- Toxline [searched 2.2.00]
- Social Science Citation Index [searched 1.2.00]

Appendix B. Section 3: Preliminary Search strategy to retrieve systematic reviews & meta-analyses

MEDLINE SEARCH STRATEGY (using Silverplatter software)

1. meta in ab
2. synthesis in ab
3. literature in ab
4. randomised in mesh
5. published in ab
6. meta-analysis in PT
7. extraction in ab
8. trials in mesh
9. controlled in mesh
10. medline in ab
11. selection in ab
12. sources in ab
13. trials in ab
14. review in ab
15. review in pt
16. articles in ab
17. reviewed in ab
18. english in ab
19. language in ab
20. comment in pt
21. letter in pt
22. editorial in pt
23. ANIMAL in TG
24. human in TG
25. #23 not (#23 and #24)
26. explode "Fluoridation"/ all subheadings
27. explode "Fluorides"/ all subheadings
28. explode "Fluorine"/ all subheadings
29. fluorid* in ti,ab
30. fluorin* in ti,ab
31. flurid* in ti,ab
32. flurin* in ti,ab
33. #27 or #28 or #29 or #30 or #31 or #32
34. water in ti,ab
35. supplement* in ti,ab
36. additive* in ti,ab
37. "Dietary-Supplements"/ all subheadings
38. explode "Water-Supply"/ all subheadings
39. #34 or #35 or #36 or #37 or #38
40. #39 near #33
41. #40 or #26
42. "Dental-Caries-Susceptibility"/ all subheadings
43. explode "Treatment-Outcome"/ all subheadings
44. effective* in ti,ab
45. prevention in ti,ab
46. preventative in ti,ab
47. preventive in ti,ab
48. explode "Primary-Prevention"/ all subheadings
49. #42 or #43 or #44 or #48
50. #45 or #46 or #47
51. tooth in ti,ab
52. teeth in ti,ab
53. dental in ti,ab

54. (dentition or enamel) in ti,ab
55. #51 or #52 or #53 or #54
56. decay* in ti,ab
57. erode* in ti,ab
58. erosion in ti,ab
59. caries in ti,ab
60. mottle* in ti,ab
61. discolor* in ti,ab
62. discolour* in ti,ab
63. cosmetic effect*
64. appearance in ti,ab
65. #56 or #57 or #58 or #59 or #60 or #61 or #62 or #63 or #64
66. #55 near #65
67. explode "Dental-Caries"/ all subheadings
68. #66 or #67
69. "Fluorosis,-Dental"/ all subheadings
70. "Tooth-Discoloration"/ all subheadings
71. (fluorosis or flurosis) in ti,ab
72. #50 near (#66 or #71)
73. #69 or #70 or #71 or #72
74. "Hazardous-Substances"/ all subheadings
75. toxicity in ti,ab
76. toxic in ti,ab
77. safety in ti,ab
78. allerg* in ti,ab
79. #74 or #75 or 76 or #77 or #78
80. adverse in ti,ab
81. side in ti,ab
82. undesirable
83. unpleasant
84. unattractive
85. #80 or #81 or #82 or #83 or #84
86. effect in ti,ab
87. effects in ti,ab
88. reaction* in ti,ab
89. result in ti,ab
90. results in ti,ab
91. #86 or #87 or #88 or #89 or #90
92. #85 near #91
93. #79 or #92
94. #49 or #68 or #73 or #93 or #72
95. #41 and #94
96. #95 not (#20 or #21 or #22 or #25)
97. #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13
or #14 or #15 or #16 or #17 or #18 or #19
98. #96 and #97

Appendix B. Section 4: Final search strategies to retrieve clinical trials and primary studies

MEDLINE SEARCH STRATEGY (using Silverplatter software)

1. randomized controlled trial in pt
2. explode "Randomized-Controlled-Trials"/ all subheadings
3. explode "Random-Allocation"/ all subheadings
4. explode "Double-Blind-Method"/ all subheadings
5. explode "Single-Blind-Method"/ all subheadings
6. clinical trial in pt
7. explode "Clinical-Trials"/ all subheadings
8. explode "Controlled-Clinical-Trials"/ all subheadings
9. explode "Placebos"/ all subheadings
10. explode "Research-Design"/ all subheadings
11. explode "Evaluation-Studies"/ all subheadings
12. explode "Follow-Up-Studies"/ all subheadings
13. explode "Prospective-Studies"/ all subheadings
14. TG = "COMPARATIVE-STUDY"
15. random*
16. placebo*
17. explode "Longitudinal-Studies"/ all subheadings
18. explode "Prospective-Studies"/ all subheadings
19. explode "Cohort-Studies"/ all subheadings
20. control* or clinical or cohort or longitudinal or follow-up or prospective
21. single or double or treble or triple
22. project or projects or stud* or trial* or evaluation* or blind or mask*
23. comparative* or evaluative*
24. #15 or #16 or #21 or #20 or #23
25. #24 near #22
26. #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13
or #14 or #17 or #18 or #19
27. #26 or #25
28. editorial in pt
29. comment in pt
30. letter in pt
31. TG = "ANIMAL"
32. TG = "HUMAN"
33. #31 not (#31 and #32)
34. #27 not (#33 or #28 or #29 or #30)
35. explode "Fluoridation"/ all subheadings
36. explode "Fluorides"/ all subheadings
37. explode "Fluorine"/ all subheadings
38. fluorid* in ti,ab
39. fluorin* in ti,ab
40. flurid* in ti,ab
41. flurin* in ti,ab
42. #35 or #36 or #37 or (fluorid*) or #38 or (fluorin*) or #39
43. water in ti,ab
44. supplement* in ti,ab
45. additive* in ti,ab
46. "Dietary-Supplements"/ all subheadings
47. explode "Water-Supply"/ all subheadings
48. #43 or #44 or #45 or #46 or #47
49. #48 and #42
50. #49 or #35
51. "Dental-Caries-Susceptibility"/ all subheadings
52. explode "Treatment-Outcome"/ all subheadings

53.effective* in ti,ab
54.prevention in ti,ab
55.preventive in ti,ab
56.preventative in ti,ab
57.explode "Primary-Prevention"/ all subheadings
58.#51 or #52 or #53 or #57
59.#54 or #55 or #56
60.tooth in ti,ab
61.teeth in ti,ab
62.dental in ti,ab
63.(dentition or enamel) in ti,ab
64.#60 or #61 or #62 or #63
65.decay* in ti,ab
66.erode* in ti,ab
67.erosion in ti,ab
68.caries in ti,ab
69.mottle* in ti,ab
70.discolor* in ti,ab
71.discolour* in ti,ab
72.cosmetic effect*
73.appearance in ti,ab
74.#65 or #66 or #67 or #68 or #69 or #70 or #71 or #72 or #73
75.#64 near #74
76.explode "Dental-Caries"/ all subheadings
77.#66 or #67
78."Fluorosis-Dental"/ all subheadings
79."Tooth-Discoloration"/ all subheadings
80.(fluorosis or flurosis) in ti,ab
81.#59 near (#75 or #80)
82.#78 or #79 or #80 or #81
83."Hazardous-Substances"/ all subheadings
84.toxicity in ti,ab
85.toxic in ti,ab
86.safety in ti,ab
87.allerg* in ti,ab
88.#83 or #84 or #85 or #86 or #87
89.adverse in ti,ab
90.side in ti,ab
91.undesirable in ti,ab
92.unpleasant in ti,ab
93.unattractive in ti,ab
94.#89 or #90 or #91 or #92 or #93
95.effect in ti,ab
96.effects in ti,ab
97.reaction* in ti,ab
98.result in ti,ab
99.results in ti,ab
100. #95 or #96 or #97 or #98 or #99
101. #94 near #100
102. #88 or #101
103. #58 or #77 or #82 or #84 or #81
104. #50 and #103
105. #104 and #34

EMBASE SEARCH STRATEGY (using Silverplatter software)

1. explode "controlled-study"/ all subheadings
2. "randomization"/ all subheadings
3. "placebo"/ all subheadings
4. random*
5. randomized in de
6. "double-blind-procedure"/ all subheadings
7. "single-blind-procedure"/ all subheadings
8. "prospective-study"/ all subheadings
9. "longitudinal-study"/ all subheadings
10. explode "cohort-analysis"/ all subheadings
11. explode "clinical-trial"/ all subheadings
12. "major-clinical-study"/ all subheadings
13. explode "evaluation-and-follow-up"/ all subheadings
14. explode "comparative-study"/ all subheadings
15. control* or clinical or cohort or longitudinal or follow-up
16. double or single or treble or triple
17. project or projects or stud* or trial* or evaluation* or blind or mask*
18. placebo*
19. comparative* or evaluative* or prospective*
20. #4 or #15 or #16 or #18 or #19
21. #20 near #17
22. "methodology"/ all subheadings
23. "technique"/ all subheadings
24. #1 or #2 or #3 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14
or #22 or #23
25. #21 or #24
26. note in dt
27. letter in dt
28. editorial in dt
29. #26 or #27 or #28
30. #25 not #29
31. explode "animal"/ all subheadings
32. explode "animal-experiment"/ all subheadings
33. explode "human"/ all subheadings
34. explode "human-experiment"/ all subheadings
35. #31 or #32
36. #33 or #34
37. #35 not (#35 and #36)
38. #30 not #37
39. explode "fluoridation"/ all subheadings
40. fluoride* in su
41. explode "fluorine"/ all subheadings
42. fluorid* in ti,ab
43. flurid* in ti,ab
44. fluorin* in ti,ab
45. flurin* in ti,ab
46. #39 or #40 or #41 or #42 or #43 or #44 or #45
47. water in ti,ab
48. supplement* in ti,ab
49. additive* in ti,ab
50. explode "diet-supplementation"/ all subheadings
51. explode "water-supply"/ all subheadings
52. #47 or #48 or #49 or #50 or #51
53. #52 near #46
54. #39 or #53
55. efficacy in ti,ab
56. explode "treatment-outcome"/ all subheadings

57.effective* in ti,ab
58.prevention in ti,ab
59.preventative in ti,ab
60.preventive in ti,ab
61.explode "caries-prevention"/ all subheadings
62."primary-prevention"/ all subheadings
63.preventing in ti,ab
64.#58 or #59 or #60 or #61 or #62 or #63
65.#55 or #56 or #57
66.tooth in ti,ab
67.teeth in ti,ab
68.dental in ti,ab
69.(dentition or enamel) in ti,ab
70.#66 or #67 or #68 or #69
71.decay* in ti,ab
72.erode* in ti,ab
73.caries in ti,ab
74.mottle* in ti,ab
75.discolor* in ti,ab
76.discolour* in ti,ab
77.cosmetic effect* in ti,ab
78.appearance in ti,ab
79.#71 or #72 or #73 or #74 or #75 or #76 or #77 or #78
80.#70 near #79
81."dental-caries"/ all subheadings
82.#80 or #81
83."fluorosis"/ all subheadings
84."tooth-color"/ all subheadings
85.(fluorosis or flurosis) in ti,ab
86.#64 near (#82 or #85)
87.#83 or #84 or #86
88.explode "toxicity"/ all subheadings
89.toxicity in ti,ab
90.toxic* in ti,ab
91.safety in ti,ab
92.allerg* in ti,ab
93."allergic-reaction"/ all subheadings
94.#88 or #87 or #89 or #90 or #91 or #92 or #93
95.adverse in ti,ab
96.side in ti,ab
97.undesirable in ti,ab
98.unpleasant in ti,ab
99.unattractive in ti,ab
100. #95 or #96 or #97 or #98 or #99
101. effect in ti,ab
102. effects in ti,ab
103. reaction* in ti,ab
104. result in ti,ab
105. results in ti,ab
106. #101 or #102 or #103 or #104 or #105
107. #100 near #106
108. explode "side-effect"/ all subheadings
109. #107 or #108
110. #94 or #109
111. #65 or #87 or #110 or #86
112. #54 and #111
113. #112 and #38
114. "rat-" in DE
115. #113 not #114

HEALTHSTAR SEARCH STRATEGY (using Ovid software) (limited to exclude Medline references)

1. exp randomized controlled trials/
2. randomized controlled trial.pt.
3. exp random allocation/
4. exp double blind method/
5. exp single blind method/
6. clinical trial.pt.
7. exp clinical trials/
8. exp controlled clinical trials/
9. exp placebos/
10. exp research design/
11. exp evaluation studies/
12. exp follow up studies/
13. exp prospective studies/
14. comparative study/
15. random\$.tw.
16. placebo\$.tw.
17. exp longitudinal studies/
18. exp cohort studies/
19. (control\$ or clinical or cohort or longitudinal or follow-up or prospective).tw. [tw=abstract, title, title continuation]
20. (single or treble or triple or double).tw. [tw=abstract, title, title continuation]
21. (project or projects or stud\$ or trial\$ or evaluation\$ or blind or mask\$).tw. [tw=abstract, title, title continuation]
22. (comparative\$ or evaluative\$).tw. [tw=abstract, title, title continuation]
23. 15 or 16 or 20 or 19 or 22
24. ((random\$ or placebo\$ or (single or treble or triple or double) or (control\$ or clinical or cohort or longitudinal or follow-up or prospective) or (comparative\$ or evaluative\$)) adj (project or projects or stud\$ or trial\$ or evaluation\$ or blind or mask\$)).tw.
25. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
26. 9 or 10 or 11 or 12 or 13 or 14 or 17 or 18
27. 26 or 25
28. editorial.pt.
29. comment.pt.
30. letter.pt.
31. animal/
32. human/
33. 31 not (31 and 32)
34. 27 not (33 or 28 or 29 or 30)
35. exp fluoridation/
36. exp fluorides/
37. exp fluorine/
38. fluorid\$.tw.
39. fluorin\$.tw.
40. flurin\$.tw.
41. flurid\$.tw.
42. 35 or 36 or 37 or 38 or 39 or 40 or 41
43. water.tw.
44. supplement\$.tw.
45. additive\$.tw.
46. dietary supplements/
47. exp water supply/
48. 43 or 44 or 45 or 46 or 47
49. 48 and 42
50. 49 or 35

51.dental caries susceptibility/
52.exp treatment outcome/
53.effective\$.tw.
54.prevention.tw.
55.preventive.tw.
56.preventative.tw.
57.exp primary prevention/
58.51 or 52 or 53 or 57
59.54 or 55 or 56
60.tooth.tw.
61.teeth.tw.
62.dental.tw.
63.(dentition or enamel).tw. [tw=abstract, title, title continuation]
64.60 or 61 or 62 or 63
65.decay\$.tw.
66.erode\$.tw.
67.erosion.tw.
68.caries.tw.
69.mottle\$.tw.
70.discolor\$.tw.
71.discolour\$.tw.
72.cosmetic effect\$.tw.
73.appearance.tw.
74.65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73
75.((tooth or teeth or dental or (dentition or enamel)) adj (decay\$ or erode\$ or erosion or caries or mottle\$ or discolor\$ or discolour\$ or cosmetic effect\$ or appearance)).tw.
76.exp dental caries/
77.66 or 67
78.fluorosis dental/
79.tooth discoloration/
80.(fluorosis or flurosis).tw. [tw=abstract, title, title continuation]
81.58 and (75 or 80)
82.78 or 79 or 81
83.hazardous substances/
84.toxicity.tw.
85.toxic.tw.
86.safety.tw.
87.allerg\$.tw.
88.efficacy.tw.
89.83 or 84 or 85 or 86 or 87 or 88
90.adverse.tw.
91.side.tw.
92.undesirable.tw.
93.unpleasant.tw.
94.unattractive.tw.
95.90 or 91 or 92 or 93 or 94
96.effect.tw.
97.effects.tw.
98.reaction\$.tw.
99.result.tw.
100. results.tw.
101. 95 or 96 or 97 or 98 or 99
102. ((adverse or side or undesirable or unpleasant or unattractive) adj (effect or effects or reaction\$ or result or results)).tw.
103. 89 or 102
104. 59 or 82 or 103 or 81
105. 50 and 104
106. 105 and 34

LILACS SEARCH STRATEGY (cd-rom: 34th version)

1. fluorin\$
2. fluorid\$
3. flurin\$
4. flurid\$
5. #1 or #2 or #3 or #4
6. water or supplement\$ or additive\$
7. effective\$ or prevention or preventive or preventative or efficacy
8. tooth or teeth or dental or dentition or enamel
9. decay\$ or erode\$ or erosion or caries or mottle\$ or discolor \$ or discolour\$
10. fluorosis or flurosis
11. toxic or toxicity or safety or allerg\$
12. adverse or side or undesirable or unattractive or unpleasant
13. effect or effects or reaction\$ or result or results
14. #5 and #6
15. #8 and #9
16. #12 and #13
17. #7 or #15 or #10 or #11 or #16
18. fluoridation
19. #14 or #18
20. 19 and #17

SEARCH STRATEGY FOR ONLINE DATABASES* (including PAIS, Environline, JICST-E Plus, Agricola, Waternet, Water Resources Abstracts, Pascal, Biosis, CAB Health, NTIS, Conference Paper Abstracts and EI Compendex, via the Dialog Host)

*** All these databases were searched at once and duplicates were deduplicated online.**

1. RANDOMIZED CONTROLLED TRIALS!/DE
2. DT=RANDOMIZED CONTROLLED TRIAL
3. RANDOM ALLOCATION!/DE OR RANDOMIZATION/DE OR RANDOMIZED/DE
4. DOUBLE-BLIND METHOD!/DE OR SINGLE BLIND PROCEDURE/DE
5. SINGLE-BLIND METHOD!/DE OR DOUBLE BLIND PROCEDURE/DE
6. DT=CLINICAL TRIAL
7. CLINICAL TRIALS!/DE OR CLINICAL TRIAL!/DE
8. CONTROLLED CLINICAL TRIALS!/DE OR "EVALUATION AND FOLLOW UP"!/DE
9. PLACEBOS!/DE OR PLACEBO/DE OR MAJOR CLINICAL STUDY/DE
10. RESEARCH DESIGN!/DE OR CONTROLLED STUDY!/DE
11. EVALUATIVE STUDIES!/DE OR COHORT ANALYSIS!/DE
12. FOLLOW-UP STUDIES!/DE OR LONGITUDINAL STUDY/DE
13. PROSPECTIVE STUDIES!/DE OR PROSPECTIVE STUDY/DE
14. COMPARATIVE STUDY/GS OR COMPARATIVE STUDY!/DE OR
15. METHODOLOGY/DE OR TECHNIQUE/DE
16. RANDOM?/TI,AB AND PY=1980:1989
17. PLACEBO?/TI,AB AND PY=1980:1989
18. LONGITUDINAL STUDIES!/DE
19. COHORT STUDIES!/DE
20. (CONTROL OR CONTROLS OR CONTROLLED OR CLINICAL OR COHORT OR LONGITUDINAL OR FOLLOW-UP OR PROSPECTIVE)/TI,AB
21. SINGLE OR DOUBLE OR TRIPLE OR TREBLE/TI,AB
22. (PROJECTS OR PROJECTS OR STUDY OR STUDIES OR TRIAL OR TRIALS OR EVALUATION? OR BLINDED OR BLIND OR BLINDING OR MASK OR MASKED)/TI,AB
23. (COMPARATIVE? OR EVALUATIVE?)/TI,AB
24. (S15 OR S16 OR S20 OR S19 OR S22)
25. (S23 (W) S21)
26. (S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8)
27. (S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S17 OR S18)
28. S26 OR S25
29. DT=EDITORIAL
30. DT=COMMENT
31. DT=(LETTER OR NOTE)
32. (ANIMAL/GS OR ANIMAL! OR ANIMAL EXPERIMENT)
33. (HUMAN/GS OR HUMAN!/DE OR HUMAN EXPERIMENT!/DE)
34. S31 NOT (S31 AND S32)
35. (S27 OR S24) NOT (S33 OR S28 OR S29 OR S30)
36. FLUORIDATION!/DE
37. FLUORIDES!/DE OR FLUORIDE!/DE
38. FLUORINE!/DE
39. FLUORID?/TI,AB
40. FLUORIN?/TI,AB
41. FLURIN?/TI,AB
42. FLURID?/TI,AB
43. (S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41)
44. WATER/TI,AB
45. SUPPLEMENT?/TI,AB
46. ADDITIVE?/TI,AB
47. DIETARY SUPPLEMENTS/DE OR DIETARY SUPPLEMENTATION!/DE
48. WATER SUPPLY!/DE
49. (S43 OR S44 OR S45 OR S46 OR S47)
50. S48 AND S42
51. S49 OR S35
52. DENTAL CARIES SUSCEPTIBILITY/DE

53. TREATMENT OUTCOME!/DE
54. EFFECTIVE?/TI,AB
55. PREVENTION/TI,AB
56. PREVENTIVE/TI,AB
57. PREVENTATIVE/TI,AB
58. PRIMARY PREVENTION!/DE OR CARIES PREVENTION!/DE
59. (S51 OR S52 OR S57)
60. (S53 OR S54 OR S55 OR S56)
61. TOOTH/TI,AB
62. TEETH/TI,AB
63. DENTAL/TI,AB
64. (ENAMEL OR DENTITION)/TI,AB
65. S60 OR S61 OR S62 OR S63
66. DECAY?/TI,AB
67. ERODE?/TI,AB
68. EROSION/TI,AB
69. CARIES/TI,AB
70. MOTTLE?/TI,AB
71. DISCOLOR?/TI,AB
72. DISCOLOUR?/TI,AB
73. COSMETIC EFFECT?
74. APPEARANCE/TI,AB
75. (S65 OR S66 OR S67 OR S68 OR S69 OR S70 OR S71 OR S72 OR S73)
76. S64 (N) S74
77. DENTAL CARIES!/DE
78. (S74 OR S75 OR S76)
79. FLUOROSIS, DENTAL/DE OR FLUOROSIS/DE
80. TOOTH DISCOLORATION/DE OR TOOTH COLOR/DE
81. (FLUOROSIS OR FLUROSIS)/TI,AB
82. S58 (N) (S75 OR S80)
83. (S77 OR S78 OR S79 OR S81)
84. HAZARDOUS SUBSTANCES/DE
85. TOXICITY/TI,AB OR TOXIC/TI,AB
86. TOXICITY!/DE
87. SAFETY/TI,AB
88. ALLERG?/TI,AB OR ALLERGIC REACTION/DE OR SIDE EFFECT!/DE
89. EFFICACY/TI,AB
90. (S83 OR S84 OR S85 OR S86 OR S87 OR S88)
91. ADVERSE/TI,AB
92. SIDE/TI,AB
93. UNDESIRABLE/TI,AB
94. UNATTRACTIVE/TI,AB
95. UNPLEASANT/TI,AB
96. (S90 OR S91 OR S92 OR S93 OR S94)
97. EFFECTS/TI,AB
98. EFFECT/TI,AB
99. REACTION?/TI,AB
100. RESULT/TI,AB
101. RESULTS/TI,AB
102. (S96 OR S97 OR S98 OR S99 OR S100)
103. S95 (N) S101
104. S89 OR S102
105. S59 OR S82 OR S103 OR S81
106. S50 AND S104
107. S105 AND S34
108. RAT/DE OR RATS/DE
109. S106 NOT S107
110. RD S108 (unique items)

INDEX MEDICUS and EXCERPTA MEDICA SEARCH TERMS (The terms changed over the several issues which were hand searched).

The terms which were used related to:

Fluoridation
Fluoride and fluorides
Water supply
Water supplementation
Teeth
Dental health
Caries
Cariostatic agents
Tooth decay

CHEMICAL ABSTRACTS SEARCH TERMS (12th Collective Index. Cd-rom, Cambridge Scientific Abstracts version)

Fluoridation
Fluorides, uses and miscellaneous
Fluorides, occurrence
Fluorides, biological studies

AMED SEARCH STRATEGY (using SilverPlatter software)

1. flurin*
2. flurid*
3. fluorid*
4. fluorin*
5. #3 or #4

HSRProj, Old Medline and TOXLINE SEARCH TERMS* (via Grateful Med interface at <http://igm.nlm.nih.gov/>)

***Search undertaken with the option to exclude all Medline references, and the title and subject fields were searched for each combination**

Fluoridation or Fluridation or Fluorosis
Fluorosis or Fluoride or Fluorides or Fluride
Flurides or Fluorination or Flurination

PSYCLIT SEARCH STRATEGY (using SilverPlatter Software)

1. fluoridation
2. fluorin*
3. fluorid*
4. flurin*
5. flurid*
6. #2 or #3 or #4 or #5
7. water
8. supplement*
9. additive*
10. #7 or #8 or #9
11. effective*
12. prevention
13. preventive
14. preventative
15. efficacy
16. preventing
17. #11 or #12 or #13 or #14 or #15 or #16
18. tooth
19. teeth
20. dental
21. enamel
22. dentition
23. #18 or #19 or #20 or #21 or #22
24. decay*
25. erode*
26. erosion
27. caries
28. mottle*
29. discolor*
30. discolour*
31. #24 or #25 or #26 or #27 or #28 or #29 or #30
32. fluorosis
33. flurosis
34. #32 or #33
35. toxic
36. toxicity
37. safety
38. allerg*
39. #36 or #37 or #38 or #35
40. adverse
41. side
42. undesirable
43. unattractive
44. unpleasant
45. #40 or #41 or #42 or #43 or #44
46. effect
47. effects
48. reaction*
49. result
50. results
51. #46 or #47 or #48 or #49 or #50
52. #6 and #10
53. #23 and #31
54. #45 and #51
55. #17 or #53 or #39 or #54 or #34
56. #1 or #52
57. #56 and #55

58. rat or rats
59. #3 not #58
60. #57 or #1

SCIENCE CITATION INDEX and SOCIAL SCIENCE CITATION INDEX SEARCH STRATEGY (BIDS telnet version)

1. fluoridation
2. fluorin*
3. fluorid*
4. flurin*
5. flurid*
6. #1 or #2 or #3 or #4 or #5
7. water
8. supplement*
9. additive*
10. #7 or #8 or #9
11. effective*
12. prevention
13. preventive
14. prevetative
15. efficacy
16. preventing
17. #11 or #12 or #13 or #14 or #15 or #16
18. tooth
19. teeth
20. dental
21. enamel
22. dentition
23. #18 or #19 or #20 or #21 or #22
24. decay*
25. erode*
26. erosion
27. caries
28. mottle*
29. discolour*
30. discolor*
31. #24 or #25 or #26 or #27 or #28 or #29 or #30
32. fluorosis
33. flurosis
34. #32 or #33
35. toxic
36. toxicity
37. safety
38. allerg*
39. #35 or #36 or #37 or #38
40. adverse
41. side
42. undesirable
43. unattractive
44. unpleasant
45. #40 or #41 or #42 or #43 or #44
46. effect
47. effects
48. reaction*
49. results
50. result
51. #46 or #47 or #48 or #49 or #50
52. #6 and #10

- 53. #23 and #31
- 54. #45 and #51
- 55. #17 or #53 or #39 or #54 or #34
- 56. #1 or #52
- 57. #56 and #55
- 58. #57 or #1

SIGLE and FSTA SEARCH STRATEGY (using the STN host)

These databases were both searched at once and duplicates were deduplicated online.

1. random?
2. placebo?
3. (control or controls or controlled or clinical or cohort or longitudinal or follow-up or prospective)
4. (single or double or triple or treble)
5. (project or projects or study or studies or trial or trials or evaluation? or blinded or blind or blinding or mask or masked)
6. (comparative? or evaluative?)
7. (L1 or L2 or L3 or L4 or L5)
8. (L7(S)L6)
9. fluorid?
10. fluorin?
11. flurin?
12. flurid?
13. (L9 OR L10 OR L11 OR L12)
14. water
15. supplement?
16. additive?
17. (L14 OR L15 OR L16)
18. L13 and L17
19. effective?
20. prevention
21. preventive
22. preventative
23. (L19 OR L20 OR L21 OR L22)
24. tooth
25. teeth
26. dental
27. (enamel or dentition)
28. L24 OR L25 OR L26 OR L27
29. decay?
30. erode?
31. erosion
32. caries
33. mottle?
34. discolor?
35. discolour?
36. cosmetic(A)effect?
37. appearance?
38. L29-L37
39. L28(S)L38
40. (fluorosis or flurosis)
41. L23(S)(L39 or L40)
42. (toxicity or toxic)
43. safety
44. allerg?
45. efficacy
46. (L42 OR L43 OR L44 OR L45)
47. adverse
48. side
49. undesirable
50. unattractive
51. unpleasant
52. (L47 OR L48 OR L49 OR L50 OR L51)
53. effects
54. effect

55. reaction?
56. result
57. results
58. (L53 OR L54 OR L55 OR L56 OR L57)
59. L52(3W)L58
60. L46 or L59
61. L41 OR L60
62. L8 AND L18 AND L61