

File S1. Search strategy

Search concepts

- P-Population: Person's life course, lifelong, lifetime, trajectory.
- E-Exposure: Dental visit, dental utilisation, dental care, oral healthcare, dental services, dental treatment.
- O-Outcome: Oral health, oral disease, OH-QoL, dental pain, toothache, dental caries, gingivitis, periodontitis, tooth loss.

Database: Ovid MEDLINE(R) ALL <1946 to March 02, 2023>

Search Strategy:

1 exp dental care/ (34596)

2 exp dental health services/ (39738)

3 ((oral or dental) adj2 (care or visit* or treatment* or healthcare or utili* or service* or appointment* or checkup* or check-up*)),mp. (94567)

4 1 or 2 or 3 (94567)

5 exp oral health/ (19961)

6 exp mouth diseases/ (327002)

7 exp dental caries/ (49860)

8 exp periodontal diseases/ (94678)

9 exp periodontitis/ (34311)

10 exp apical periodontitis/ (5353)

11 exp chronic periodontitis/ (3651)

12 exp gingivitis/ (11988)

13 exp toothache/ (2906)

14 exp tooth loss/ (4406)

21 15 ((dental or oral) adj5 health).mp. (61074)
 22 16 ((mouth or oral or dental) adj3 disease*).mp. (48622)
 23 17 caries.mp. (66325)
 24 18 (cariou adj3 (denti* or lesion* or teeth or tooth)).mp. (6096)
 25 19 ((dental or tooth or teeth or root* or early) adj3 (caries or decay or cavit* or
 26 deminerali*))).mp. (81256)
 27 20 ((periodontal or gum) adj3 disease*).mp. (43520)
 28 21 periodontitis.mp. (41851)
 29 22 ((apical or periapical or chronic or adult) adj3 periodontitis).mp. (13730)
 30 23 gingivitis.mp. (15116)
 31 24 toothache*.mp. (3917)
 32 25 tooth loss.mp. (7915)
 33 26 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 or 20 or
 34 21 or 22 or 23 or 24 or 25 (476630)
 35 27 exp longitudinal studies/ (163498)
 36 28 exp cohort studies/ or exp case control study/ (2699588)
 37 29 exp follow-up studies/ (690140)
 38 30 exp prospective studies/ (1716376)
 39 31 exp epidemiologic studies/ (3087159)
 40 32 ((longitudinal or observational or cohort or concurrent or incidence or follow up or
 41 followup or follow-up or prospective or case-control) adj2 (stud* or analys* or survey* or
 42 design* or research))).mp. (3218873)
 43 33 ((birth or close* or histor*) adj2 stud*).mp. (27063)
 44 34 27 or 28 or 29 or 30 or 31 or 32 or 33 (3590551)
 45 35 life course.mp. or exp Life Change Events/ (33878)

46 36 lifelong.mp. (23691)

47 37 lifetime.mp. (102570)

48 38 trajector*.mp. (102132)

49 39 35 or 36 or 37 or 38 (256724)

50 40 4 and 26 and 34 and 39 (130)

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52 **Database: Embase <1974 to 2023 March 02>**

53 Search Strategy:

54 1 exp dental care/ (194609)

55 2 exp dental health services/ (194609)

56 3 ((oral or dental) adj2 (care or visit* or treatment* or healthcare or utili* or service* or

57 appointment* or checkup* or check-up*)).mp. (126480)

58 4 1 or 2 or 3 (289924)

59 5 exp oral health/ (866817)

60 6 exp mouth diseases/ (626599)

61 7 exp dental caries/ (54209)

62 8 exp periodontal diseases/ (115021)

63 9 exp periodontitis/ (51675)

64 10 exp chronic periodontitis/ (5512)

65 11 exp gingivitis/ (18918)

66 12 exp toothache/ (8650)

67 13 exp tooth loss/ (115021)

68 14 ((dental or oral) adj5 health).mp. (55274)

69 15 ((mouth or oral or dental) adj3 disease*).mp. (57606)

70 16 caries.mp. (65443)

71 17 (carious adj3 (denti* or lesion* or teeth or tooth)).mp. (5937)
 72 18 ((dental or tooth or teeth or root* or early) adj3 (caries or decay or cavit* or
 73 deminerali*))).mp. (66185)
 74 19 ((periodontal or gum) adj3 disease*).mp. (62909)
 75 20 periodontitis.mp. (47761)
 76 21 ((apical or periapical or chronic or adult) adj3 periodontitis).mp. (13332)
 77 22 gingivitis.mp. (20996)
 78 23 toothache*.mp. (2167)
 79 24 tooth loss.mp. (6385)
 80 25 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 or 20 or
 81 21 or 22 or 23 or 24 (1524363)
 82 26 exp longitudinal studies/ (189535)
 83 27 exp cohort studies/ or exp case control study/ (1199050)
 84 28 exp follow-up studies/ (2011288)
 85 29 exp prospective studies/ (2220725)
 86 30 exp epidemiologic studies/ (4382092)
 87 31 ((longitudinal or observational or cohort or concurrent or incidence or follow up or
 88 followup or follow-up or prospective or case-control) adj2 (stud* or analys* or survey* or
 89 design* or research)).mp. (3784433)
 90 32 ((birth or close* or histor*) adj2 stud*).mp. (38374)
 91 33 26 or 27 or 28 or 29 or 30 or 31 or 32 (7911500)
 92 34 life course.mp. or exp Life Change Events/ (43668)
 93 35 lifelong.mp. (34613)
 94 36 lifetime.mp. (125379)
 95 37 trajector*.mp. (126330)

96 38 34 or 35 or 36 or 37 (322941)

97 39 4 and 25 and 33 and 38 (362)

98 -----

99 **Web of Science Search Strategy (v0.1)**

100 Database: All Databases

101 Entitlements:

102 - WOS: 1900 to 2023

103 - KJD: 1980 to 2023 (Korean Journal Database)

104 - MEDLINE: 1950 to 2023

105 - PPRN: 1991 to 2023 (Preprint)

106 - SCIELO: 2002 to 2023

107

108 Searches:

109 1: TS=((oral or dental) NEAR/2 (care or visit* or treatment* or healthcare or utili* or service*

110 or appointment* or checkup* or check-up*)) and Preprint Citation Index (Exclude – Database)

111 Date Run: Thu Mar 02 2023 11:42:49 GMT+0000 (Greenwich Mean Time)

112 Results: 130472

113

114 2: TS=((dental or oral) NEAR/5 health) and Preprint Citation Index (Exclude – Database)

115 Date Run: Thu Mar 02 2023 11:43:39 GMT+0000 (Greenwich Mean Time)

116 Results: 83664

117

118 3: TS=((mouth or oral or dental) NEAR/3 disease*) and Preprint Citation Index (Exclude –

119 Database)

120 Date Run: Thu Mar 02 2023 11:44:06 GMT+0000 (Greenwich Mean Time)

121 Results: 196341

122

123 4: TS=(caries) and Preprint Citation Index (Exclude – Database)

124 Date Run: Thu Mar 02 2023 11:44:21 GMT+0000 (Greenwich Mean Time)

125 Results: 91137

126

127 5: TS=(carious NEAR/3 (denti* or lesion* or teeth or tooth)) and Preprint Citation Index
128 (Exclude – Database)

129 Date Run: Thu Mar 02 2023 11:44:30 GMT+0000 (Greenwich Mean Time)

130 Results: 9181

131

132 6: TS=((dental or tooth or teeth or root* or early) NEAR/3 (caries or decay or cavit* or
133 deminerali*)) and Preprint Citation Index (Exclude – Database)

134 Date Run: Thu Mar 02 2023 11:44:41 GMT+0000 (Greenwich Mean Time)

135 Results: 103886

136

137 7: TS=((periodontal or gum) NEAR/3 disease*) and Preprint Citation Index (Exclude –
138 Database)

139 Date Run: Thu Mar 02 2023 11:44:53 GMT+0000 (Greenwich Mean Time)

140 Results: 62051

141

142 8: TS=(periodontitis) and Preprint Citation Index (Exclude – Database)

143 Date Run: Thu Mar 02 2023 11:45:04 GMT+0000 (Greenwich Mean Time)

144 Results: 55337

145

146 9: TS=((apical or periapical or chronic or adult) NEAR/3 periodontitis) and Preprint Citation
 147 Index (Exclude – Database)
 148 Date Run: Thu Mar 02 2023 11:45:12 GMT+0000 (Greenwich Mean Time)
 149 Results: 18946
 150
 151 10: TS=(gingivitis) and Preprint Citation Index (Exclude – Database)
 152 Date Run: Thu Mar 02 2023 11:45:22 GMT+0000 (Greenwich Mean Time)
 153 Results: 20047
 154
 155 11: TS=(toothache*) and Preprint Citation Index (Exclude – Database)
 156 Date Run: Thu Mar 02 2023 11:45:31 GMT+0000 (Greenwich Mean Time)
 157 Results: 4704
 158
 159 12: TS=(tooth NEAR/3 loss) and Preprint Citation Index (Exclude – Database)
 160 Date Run: Thu Mar 02 2023 11:47:11 GMT+0000 (Greenwich Mean Time)
 161 Results: 15795
 162
 163 13: #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1 and
 164 Preprint Citation Index (Exclude – Database)
 165 Date Run: Thu Mar 02 2023 11:47:23 GMT+0000 (Greenwich Mean Time)
 166 Results: 503495
 167
 168 14: TS=((longitudinal or observational or cohort or concurrent or incidence or follow up or
 169 prospective or case control or case-control) (stud* or analys* or survey* or design* or
 170 research)) and Preprint Citation Index (Exclude – Database)

171 Date Run: Thu Mar 02 2023 11:51:21 GMT+0000 (Greenwich Mean Time)
172 Results: 6720229
173
174 15: TS=((birth or close* or histor*) NEAR/2 stud*) and Preprint Citation Index (Exclude –
175 Database)
176 Date Run: Thu Mar 02 2023 11:51:35 GMT+0000 (Greenwich Mean Time)
177 Results: 119734
178
179 16: #15 OR #14 and Preprint Citation Index (Exclude – Database)
180 Date Run: Thu Mar 02 2023 11:51:57 GMT+0000 (Greenwich Mean Time)
181 Results: 6806556
182
183 17: TS=(life course) and Preprint Citation Index (Exclude – Database)
184 Date Run: Thu Mar 02 2023 11:52:07 GMT+0000 (Greenwich Mean Time)
185 Results: 139485
186
187 18: TS=(lifelong) and Preprint Citation Index (Exclude – Database)
188 Date Run: Thu Mar 02 2023 11:52:13 GMT+0000 (Greenwich Mean Time)
189 Results: 44093
190
191 19: TS=(lifetime) and Preprint Citation Index (Exclude – Database)
192 Date Run: Thu Mar 02 2023 11:52:19 GMT+0000 (Greenwich Mean Time)
193 Results: 442394
194
195 20: TS=(trajector*) and Preprint Citation Index (Exclude – Database)

196 Date Run: Thu Mar 02 2023 11:52:25 GMT+0000 (Greenwich Mean Time)

197 Results: 406850

198

199 21: #20 OR #19 OR #18 OR #17 and Preprint Citation Index (Exclude – Database)

200 Date Run: Thu Mar 02 2023 11:52:35 GMT+0000 (Greenwich Mean Time)

201 Results: 1018065

202

203 22: #21 AND #16 AND #13 and Preprint Citation Index (Exclude – Database)

204 Date Run: Thu Mar 02 2023 11:54:43 GMT+0000 (Greenwich Mean Time)

205 Results: 1390

206

207 **CINAHL**

208 Thursday, March 02, 2023 12:15:21 PM

209

S6	S1 AND S2 AND S3 AND S4	Expanders - Apply equivalent subjects Search modes -Boolean/Phrase	Interface - EBSCO host Research Databases Search Screen - Advanced Search Database - CINAHL	86
S5	TX (cross sectional study or cross-sectional study) OR TX cross-sectional research OR TX cross sectional OR TX (case report or case study or clinical case or case series) OR TX (meta-analysis or systematic review or literature review or metaanalysis or overview or review or meta-synthesis or metasynthesis)	Expanders - Apply equivalent subjects Search modes -Boolean/Phrase	Interface - EBSCO host Research Databases Search Screen - Advanced Search Database - CINAHL	2,034,611
S4	TX (life course theory or life course perspective or life course approach) OR TX lifespan OR TX lifetime	Expanders - Apply equivalent subjects	Interface - EBSCO host Research Databases Search Screen	76,023

	OR TX lifelong OR TX (trajectory or trajectories) OR TX trajectory theory OR TX trajectory model	Search modes -Boolean/Phrase	- Advanced Search Database - CINAHL	
S3	TX (longitudinal studies or longitudinal research or longitudinal method) OR TX (cohort study or cohort) OR TX (epidemiology or incidence or prevalence or occurrence) OR TX cohort epidemiology study OR TX birth cohort OR TX prospective study OR TX follow-up studies OR TX(observational study or observational research or observational method) OR TX (case control study or case-control)	Expanders - Apply equivalent subjects Search modes -Boolean/Phrase	Interface - EBSCO host Research Databases Search Screen - Advanced Search Database - CINAHL	1,607,829
S2	TX (dental health or oral health or dental hygiene or oral hygiene) OR TX mouth diseases OR TX oral disease OR TX (dental caries or dental decay or dental cavity or dental cavities or tooth decay) OR TX (periodontal disease or periodontitis or chronic periodontitis or gingivitis) OR TX toothache OR TX tooth loss OR TX oral health-related quality of life	Expanders - Apply equivalent subjects Search modes -Boolean/Phrase	Interface - EBSCO host Research Databases Search Screen - Advanced Search Database - CINAHL	36,129
S1	TX (dental care or oral care) OR TX dental visits OR TX dental services OR TX dental service utilization OR TX dental service need OR TX dental appointment OR TX dental check up	Expanders - Apply equivalent subjects Search modes -Boolean/Phrase	Interface - EBSCO host Research Databases Search Screen - Advanced Search Database - CINAHL	53,397

210

211 **SCOPUS**

212 EXPORT DATE:02 Mar 2023 RESULTS: 304

213 ALL ("oral care" OR "oral visit*" OR "oral treatment*" OR "oral healthcare" OR "oral

214 utili*" OR "oral service*" OR "oral appointment*" OR "oral check up" OR "dental care"

215 OR "dental visit*" OR "dental treatment*" OR "dental healthcare" OR "dental utili*" OR
 216 "dental service*" OR "dental appointment*" OR "dental check up") AND ALL ("dental
 217 health" OR "oral health" OR "oral health related quality of life" OR "mouth disease*" OR
 218 "dental disease*" OR "oral disease*" OR caries OR "cariou denti*" OR "cariou teeth"
 219 OR "cariou tooth" OR "cariou lesion*" OR "dental caries" OR "dental decay" OR
 220 "dental cavit*" OR "dental deminerali*" OR "t??th caries" OR "t??th decay" OR "t??th
 221 cavit*" OR "t??th deminerali*" OR "root caries" OR "root decay" OR "root cavit*" OR
 222 "root deminerali*" OR "early caries" OR "early decay" OR "early cavit*" OR "early
 223 deminerali*" OR "periodontal disease*" OR "gum disease*" OR periodontitis OR "apical
 224 periodontitis" OR "periapical periodontitis" OR "chronic periodontitis" OR "adult
 225 periodontitis" OR gingivitis OR toothache* OR "tooth loss") AND ALL ("longitudinal
 226 stud*" OR "longitudinal analys*" OR "longitudinal survey*" OR "longitudinal design*"
 227 OR "longitudinal research" OR "observational stud*" OR "observational analys*" OR
 228 "observational survey*" OR "observational design*" OR "observational research" OR
 229 "cohort stud*" OR "cohort analys*" OR "cohort survey*" OR "cohort design*" OR
 230 "concurrent stud*" OR "concurrent analys*" OR "concurrent survey*" OR "incidence
 231 stud*" OR "incidence analys*" OR "incidence survey*" OR "follow up stud*" OR "follow
 232 up analys*" OR "follow up survey*" OR "prospective stud*" OR "prospective analys*"
 233 OR "prospective survey*" OR "case control stud*" OR "case control analys*" OR "case-
 234 control stud*" OR "case-control analys*" OR "birth cohort stud*" OR "close cohort stud*"
 235) AND ALL ("life course" OR "lifelong" OR "lifetime" OR "trajector*") AND NOT
 236 ALL ("cross-sectional stud*" OR "cross-sectional analys*" OR "cross sectional stud*" OR
 237 "cross sectional analys*" OR "meta analys*" OR "systematic review*" OR "case report*"
 238 OR "case stud*")