

Supplementary File – A scorecard for osteoporosis in Canada and seven Canadian provinces

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Appendix S1: Database Search Strategies

Ovid Multifile

Database: Embase <1974 to 2018 October 05>, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 05, 2018>

Search Strategy:

-
- 1 exp Osteoporosis/ (169537)
 - 2 osteopor*.tw,kf. (172444)
 - 3 bone loss*.tw,kf. (59655)
 - 4 Bone Density/ (132606)
 - 5 (bone? adj3 densit*).tw,kf. (120362)
 - 6 bmd.tw,kf. (69856)
 - 7 Bone Diseases, Metabolic/ (9104)
 - 8 Bone Demineralization, Pathologic/ (2652)
 - 9 (bone? adj3 (calcifi* or deminerali*)).tw,kf. (10273)
 - 10 or/1-9 [OSTEOPOROSIS] (354563)
 - 11 exp Child/ not (Adolescent/ or exp Adult/) (2193324)
 - 12 exp Infant/ not (Adolescent/ or exp Adult/) (1315343)
 - 13 10 not (11 or 12) [CHILD-, INFANT-ONLY REMOVED] (345134)
 - 14 exp Canada/ (308200)
 - 15 canada.cp. (526675)
 - 16 (canada or canadian\$ or alberta or british columbia or columbie britannique).af. (2451058)
 - 17 (saskatchewan or manitoba or ontario or quebec or new brunswick or nouveau brunswick).af. (725177)
 - 18 (nova scotia or nouvelle ecosse or prince edward island or ile du prince edward or newfoundland or terre neuve or labrador or nun?v?t or nun?v?t or nwt or territoires du nord ouest or northwest territories or yukon).af. (56600)
 - 19 (canada or canadian\$ or alberta or british columbia or col?mbie brit?an?ique).in,jw,nw. (2037416)
 - 20 (saskatchewan or manitoba or ontario or quebec or new brunswick or nouveau brunswick).in,jw,nw. (642673)
 - 21 (nova scotia or nouvelle ecosse or prince edward island or ile du prince edward or newfoundland or terre neuve or labrador or nun?v?t or nun?v?t or nwt or territoires du nord ouest or northwest territories or yukon).in,jw,nw. (42266)
 - 22 (Vancouver or Victoria or Calgary or Edmonton or Regina or Saskatoon or Winnipeg or Toronto or Hamilton or Ottawa or Montreal or "St. John" or Fredericton or Halifax or Dartmouth or Charlottetown or "St. John's").af. (2106063)
 - 23 (Whitehorse or Yellowknife or Iqaluit).af. (1090)
 - 24 (Vancouver or Victoria or Calgary or Edmonton or Regina or Saskatoon or Winnipeg or Toronto or Hamilton or Ottawa or Montreal or "St. John" or Fredericton or Halifax or Dartmouth or Charlottetown or "St. John's").in,jw,nw. (1815565)
 - 25 (Whitehorse or Yellowknife or Iqaluit).in,jw,nw. (879)
 - 26 (First Nation or First Nations or Inuit or Metis).af. (7626)
 - 27 (First Nation or First Nations or Inuit or Metis).in,jw,nw. (1020)
 - 28 or/14-27 [CANADA FILTER] (3069677)
 - 29 13 and 28 [OSTEOPOROSIS - CANADA] (21174)

30 exp ANIMALS/ not (exp ANIMALS/ and HUMANS/) (16122695)
31 29 not 30 [ANIMAL-ONLY REMOVED] (12808)
32 (comment or editorial or news or newspaper article).pt. (1836716)
33 (letter not (letter and randomized controlled trial)).pt. (2030188)
34 31 not (32 or 33) [OPINION PIECES REMOVED] (12189)
35 limit 34 to yr="2010-current" (5095)
36 35 use ppez [MEDLINE RECORDS] (3223)
37 exp osteoporosis/ (169537)
38 osteopor*.tw,kw. (178762)
39 bone loss*.tw,kw. (60087)
40 bone density/ (132606)
41 (bone? adj3 densit*).tw,kw. (121599)
42 bmd.tw,kw. (70121)
43 metabolic bone disease/ (11442)
44 bone demineralization/ (2600)
45 (bone? adj3 (calcifi* or deminerali*)).tw,kw. (10340)
46 or/37-45 [OSTEOPOROSIS] (357812)
47 exp adolescent/ not exp adult/ (1073035)
48 exp child/ not exp adult/ (2860635)
49 46 not (47 or 48) [ADOLESCENT-/CHILD-/INFANT-ONLY REMOVED] (340872)
50 exp Canada/ (308200)
51 canada.cp. (526675)
52 (canada or canadian\$ or alberta or british columbia or columbie britannique).af. (2451058)
53 (saskatchewan or manitoba or ontario or quebec or new brunswick or nouveau
brunswick).af. (725177)
54 (nova scotia or nouvelle ecosse or prince edward island or ile du prince edward or
newfoundland or terre neuve or labrador or nun?v?t or nun?v?t or nwt or territoires du nord ouest
or northwest territories or yukon).af. (56600)
55 (canada or canadian\$ or alberta or british columbia or col?mbie brit?an?ique).in,jx.
(1835331)
56 (saskatchewan or manitoba or ontario or quebec or new brunswick or nouveau
brunswick).in,jx. (635827)
57 (nova scotia or nouvelle ecosse or prince edward island or ile du prince edward or
newfoundland or terre neuve or labrador or nun?v?t or nun?v?t or nwt or territoires du nord ouest
or northwest territories or yukon).in,jx. (41705)
58 (Vancouver or Victoria or Calgary or Edmonton or Regina or Saskatoon or Winnipeg or
Toronto or Hamilton or Ottawa or Montreal or "St. John" or Fredericton or Halifax or Dartmouth
or Charlottetown or "St. John's").af. (2106063)
59 (Whitehorse or Yellowknife or Iqaluit).af. (1090)
60 (Vancouver or Victoria or Calgary or Edmonton or Regina or Saskatoon or Winnipeg or
Toronto or Hamilton or Ottawa or Montreal or "St. John" or Fredericton or Halifax or Dartmouth
or Charlottetown or "St. John's").in,jx. (1809960)
61 (Whitehorse or Yellowknife or Iqaluit).in,jx. (879)
62 (First Nation or First Nations or Inuit or Metis).af. (7626)
63 (First Nation or First Nations or Inuit or Metis).in,jx. (1012)
64 or/50-63 [CANADA FILTER] (3069677)
65 49 and 64 [OSTEOPOROSIS - CANADA] (20798)

66 exp animal/ or animal experimentation/ or exp animal model/ or exp animal experiment/ or nonhuman/ or exp vertebrate/ (46658192)
 67 exp human/ or exp human experimentation/ or exp human experiment/ (36149770)
 68 66 not 67 (10509954)
 69 65 not 68 [ANIMAL-ONLY REMOVED] (18246)
 70 editorial.pt. (1047383)
 71 letter.pt. not (letter.pt. and randomized controlled trial/) (2025290)
 72 69 not (70 or 71) [OPINION PIECES REMOVED] (17518)
 73 conference abstract.pt. (3164612)
 74 72 not 73 [CONFERENCE ABSTRACTS REMOVED] (14319)
 75 limit 74 to yr="2010-current" (7201)
 76 75 use oemzd [EMBASE RECORDS] (4063)
 77 36 or 76 [BOTH DATABASES] (7286)
 78 limit 77 to english (7226)
 79 limit 78 to yr="2015-current" (3363)
 80 remove duplicates from 79 (2212)
 81 78 not 79 (3863)
 82 remove duplicates from 81 (2693)
 83 80 or 82 [TOTAL UNIQUE RECORDS] (4905)
 84 83 use ppez [MEDLINE UNIQUE RECORDS] (3188)
 85 83 use oemzd [EMBASE UNIQUE RECORDS] (1717)

Cochrane Library

Search Name: Osteoporosis - Canada

Date Run: 07/10/2018 18:29:37

Comment: 2018 Oct 7 - Conference abstracts removed - Date limits 2010 - present

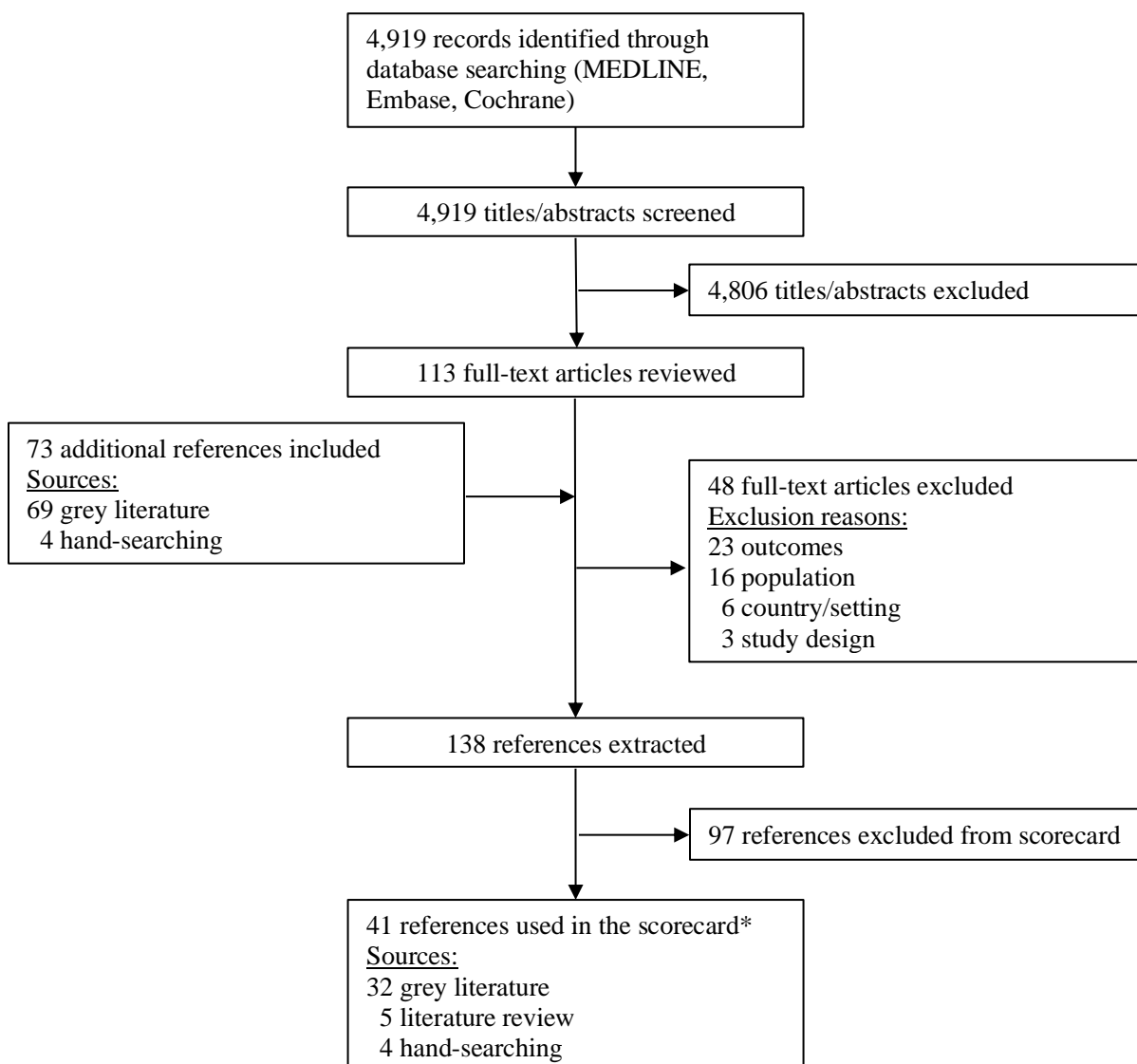
ID	Search Hits
#1	MeSH descriptor: [Osteoporosis] explode all trees 3686
#2	osteopor*:ti,ab,kw 8094
#3	(bone next loss*):ti,ab,kw 3812
#4	MeSH descriptor: ["Bone Density"] explode all trees 4374
#5	(bone* near/3 densit*):ti,ab,kw 9132
#6	bmd:ti,ab,kw 4673
#7	MeSH descriptor: ["Bone Diseases, Metabolic"] explode all trees 440
#8	MeSH descriptor: ["Bone Demineralization, Pathologic"] explode all trees 16
#9	(bone* near/3 (calcifi* or deminerali*)):ti,ab,kw 314
#10	{or #1-#9} 14928
#11	MeSH descriptor: [Child] explode all trees 477
#12	MeSH descriptor: [Infant] explode all trees 13195
#13	#10 not (#11 OR #12) 14828
#14	MeSH descriptor: [Canada] explode all trees 3229
#15	(canada or canadian* or alberta or "british columbia" or "columbie britannique"):ti,ab,kw 11646
#16	(saskatchewan or manitoba or ontario or quebec or "new brunswick" or "nouveau brunswick"):ti,ab,kw 5163

#17 ("nova scotia" or "nouvelle ecosse" or "prince edward island" or "ile du prince edward" or newfoundland or "terre neuve" or labrador or nunavut or nwt or "territoires du nord ouest" or "northwest territories" or yukon):ti,ab,kw 200
#18 {or #14-#17} 15449
#19 #13 AND #18 288
#20 Conference Abstract:pt 121946
#21 #19 NOT #20 with Cochrane Library publication date between Jan 2010 and Dec 2018
163

DSR - 2
CENTRAL - 161

Appendix S2: PRISMA

Figure S1. PRISMA flow diagram of study selection



* Following data extraction, 41 of the 138 references were determined to be relevant and were used to directly inform the scorecard.

Appendix S3: Provincial Reimbursement Policies

Table S1. Provincial Drug Plan Formularies

Province	Source	
British Columbia	British Columbia PharmaCare Special Authority	[1]
Alberta	Interactive Drug Benefit List	[2]
Saskatchewan	Saskatchewan Online Formulary Database	[3]
Ontario	Ontario Drug Benefit Formulary/Comparative Drug Index	[4]
Quebec	Codes des médicaments d'exception Liste des médicaments	[5] [6]
New Brunswick	New Brunswick Drug Plans Formulary	[7]
Newfoundland	The Newfoundland and Labrador Prescription Drug Program	[8]

Table S2. Provincial DXA Reimbursement Policies

Province	Source	
British Columbia	BC Guidelines Osteoporosis: Diagnosis, Treatment and Fracture Prevention	[9]
Alberta	Schedule of Medical Benefits	[10]
Saskatchewan	Payment Schedule for Insured Services Provided by a Physician Fully Covered Services	[11] [12]
Ontario	Physician Services Under the Health Insurance Act	[13]
Quebec	Health Insurance: Medical Services	[14]
New Brunswick	Medicare and Drug Plans: Coverage and Claims – Inside New Brunswick	[15]
Newfoundland	Medical Payment Schedule	[16]

Reference List

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3. Government of Saskatchewan (2019) Saskatchewan Online Formulary Database. <http://formulary.drugplan.health.gov.sk.ca/SearchFormulary>. Accessed 26 November 2019
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5. Régie de l'assurance maladie du Québec (2019) Codes des médicaments d'exception http://www.ramq.gouv.qc.ca/SiteCollectionDocuments/professionnels/medicaments/codes-medicaments-exception/codes_medicaments_exception.pdf. Accessed 26 November 2019
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8. Government of Newfoundland and Labrador (2015) The Newfoundland and Labrador Prescription Drug Program https://www.health.gov.nl.ca/health/prescription/special_auth_drug_products.pdf. Accessed 6 December 2019
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12. Government of Saskatchewan (2019) Fully Covered Services. <https://www.saskatchewan.ca/residents/health/prescription-drug-plans-and-health-coverage/health-benefits-coverage/fully-covered-services>. Accessed 6 December 2019
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15. Government of New Brunswick (2019) Medicare and Drug Plans: Coverage and Claims - Inside New Brunswick. <https://www2.gnb.ca/content/gnb/en/departments/health/MedicarePrescriptionDrugPlan/content/medicare/CoverageandClaimsInsideNewBrunswick.html>. Accessed 6 December 2019
16. Department of Health & Community Services (2013) Medical Payment Schedule. <https://www.health.gov.nl.ca/health/mcp/healthplancoverage.html>. Accessed 6 December 2019