

**Canada - The probabilities of a major osteoporotic fracture in men**

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus fracture) according to the T-score for femoral neck BMD, the number of clinical risk factors (CRF) and age. Each table provides a mean estimate and a range, based on the epidemiology of Canada. The range is not a confidence interval, but because the weight of different risk factors varies, is a true range.

Note that the BMI is set at 24 kg/m<sup>2</sup>.

**Age = 50 years**

Number of CRFs	BMD T-score (femoral neck)											
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0	
0	16	11	7.3	5.4	4.2	3.5	3.0	2.6	2.4	2.3	2.2	
1	24 (21-30)	16 (14-20)	11 (9.4-14)	8.2 (6.4-10)	6.4 (4.7-8.0)	5.3 (3.7-6.8)	4.5 (3.0-6.0)	3.9 (2.5-5.3)	3.5 (2.3-4.9)	3.4 (2.2-4.7)	3.2 (2.1-4.5)	
2	35 (28-47)	24 (19-33)	17 (13-23)	12 (8.5-17)	9.5 (6.0-15)	7.8 (4.6-13)	6.6 (3.7-11)	5.7 (3.1-9.7)	5.2 (2.7-9.0)	5.0 (2.6-8.6)	4.8 (2.4-8.4)	
3	48 (36-61)	34 (25-43)	24 (17-34)	18 (11-27)	14 (8.0-23)	11 (6.0-20)	9.5 (4.8-17)	8.3 (4.0-15)	7.5 (3.5-14)	7.2 (3.3-14)	6.9 (3.1-13)	
4	62 (47-74)	46 (33-55)	34 (23-42)	25 (17-34)	20 (13-29)	16 (9.9-25)	13 (7.8-22)	12 (6.5-19)	11 (5.7-18)	10 (5.3-17)	9.8 (5.0-17)	
5	76 (66-83)	60 (49-67)	45 (36-51)	34 (27-41)	27 (21-34)	22 (17-29)	19 (14-25)	16 (12-23)	15 (10-21)	14 (9.8-20)	14 (9.3-19)	
6	86	73	58	46	36	30	25	22	20	19	18	

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**Age = 55 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	19	13	9.3	7.1	5.6	4.6	3.9	3.4	3.1	2.9	2.8
1	27 (25-33)	19 (17-23)	14 (11-17)	11 (8.1-13)	8.3 (6.1-10)	6.8 (4.8-9.0)	5.8 (3.9-7.8)	5.0 (3.3-6.8)	4.6 (3.0-6.4)	4.3 (2.8-6.1)	4.1 (2.6-5.8)
2	38 (32-49)	27 (22-36)	20 (15-27)	15 (11-22)	12 (7.8-18)	10 (6.0-16)	8.4 (4.8-14)	7.3 (4.0-12)	6.7 (3.6-11)	6.3 (3.3-11)	6.0 (3.1-10)
3	51 (40-61)	38 (29-49)	28 (20-40)	22 (14-33)	17 (10-28)	14 (7.8-24)	12 (6.2-21)	10 (5.2-19)	9.5 (4.6-18)	9.0 (4.3-17)	8.5 (4.0-16)
4	65 (51-73)	50 (38-58)	39 (28-48)	30 (21-41)	24 (17-35)	20 (13-30)	17 (10-27)	14 (8.3-24)	13 (7.3-22)	13 (6.8-21)	12 (6.4-20)
5	76 (69-82)	63 (54-68)	50 (42-57)	40 (33-48)	32 (26-41)	27 (21-35)	23 (18-31)	20 (15-27)	18 (13-26)	17 (12-24)	16 (11-23)
6	85	75	63	51	42	36	30	27	24	23	22

**Age = 60 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	15	11	8.5	6.8	5.6	4.7	4.0	3.7	3.5	3.2
1	29 (26-33)	21 (18-24)	16 (13-19)	12 (9.6-15)	9.9 (7.3-13)	8.2 (5.8-11)	6.9 (4.7-9.3)	5.9 (3.9-8.1)	5.4 (3.6-7.6)	5.1 (3.3-7.1)	4.8 (3.1-6.8)
2	39 (33-48)	29 (24-37)	23 (17-29)	18 (12-25)	14 (9.3-21)	12 (7.2-18)	9.9 (5.8-16)	8.5 (4.8-14)	7.8 (4.3-13)	7.3 (3.9-12)	6.9 (3.6-12)
3	51 (42-60)	40 (32-51)	31 (23-43)	25 (17-36)	20 (12-31)	16 (9.5-27)	14 (7.6-24)	12 (6.2-21)	11 (5.6-20)	10 (5.1-19)	9.7 (4.7-18)
4	63 (52-70)	51 (40-60)	41 (31-52)	33 (25-45)	27 (19-39)	23 (15-34)	19 (12-30)	17 (9.8-26)	15 (8.7-25)	14 (8.0-24)	13 (7.4-22)
5	74 (68-78)	63 (56-69)	52 (45-60)	43 (36-52)	36 (30-45)	30 (25-39)	26 (20-34)	22 (17-30)	21 (15-29)	19 (14-27)	18 (13-26)
6	82	73	64	54	46	39	34	29	27	26	24

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**Age = 65 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	15	12	9.2	7.4	6.0	5.0	4.3	3.9	3.6	3.4
1	28 (25-32)	22 (19-24)	17 (14-19)	13 (10-16)	11 (8.0-13)	8.7 (6.3-11)	7.3 (5.1-9.7)	6.3 (4.2-8.6)	5.7 (3.8-7.9)	5.3 (3.4-7.4)	4.9 (3.2-6.9)
2	38 (33-45)	30 (24-36)	23 (18-30)	19 (14-25)	15 (10-22)	12 (7.9-18)	10 (6.3-16)	8.9 (5.2-14)	8.1 (4.6-13)	7.5 (4.1-12)	6.9 (3.8-11)
3	49 (41-58)	39 (32-50)	31 (24-42)	25 (18-36)	21 (14-31)	17 (10-27)	14 (8.3-24)	12 (6.8-21)	11 (6.0-20)	10 (5.4-19)	9.7 (4.9-17)
4	60 (51-67)	50 (41-59)	41 (32-51)	34 (26-44)	28 (21-39)	23 (16-34)	19 (13-30)	17 (11-27)	16 (9.3-25)	14 (8.3-23)	13 (7.5-22)
5	69 (64-74)	60 (54-67)	51 (45-59)	43 (37-52)	36 (31-45)	30 (26-39)	26 (21-34)	23 (17-31)	21 (15-29)	19 (14-27)	18 (12-25)
6	77	69	61	53	45	39	33	29	27	25	24

**Age = 70 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	16	12	9.7	7.8	6.3	5.2	4.5	4.0	3.6	3.3
1	28 (24-34)	22 (18-27)	17 (14-21)	14 (11-16)	11 (8.4-13)	8.8 (6.6-10)	7.2 (5.3-8.5)	6.2 (4.4-7.3)	5.5 (3.9-6.5)	5.0 (3.5-5.9)	4.5 (3.1-5.4)
2	39 (31-47)	31 (24-38)	24 (19-31)	19 (14-25)	15 (11-20)	12 (8.5-16)	9.9 (6.7-13)	8.5 (5.5-12)	7.5 (4.8-10)	6.7 (4.2-9.3)	6.1 (3.8-8.5)
3	50 (41-60)	41 (32-51)	33 (24-43)	26 (19-35)	21 (14-29)	17 (11-24)	14 (8.8-20)	12 (7.3-17)	10 (6.3-16)	9.1 (5.5-14)	8.2 (4.9-13)
4	61 (52-68)	52 (43-60)	43 (34-52)	35 (27-44)	28 (21-36)	23 (17-30)	18 (13-25)	16 (11-22)	14 (9.5-20)	12 (8.3-18)	11 (7.4-16)
5	70 (64-75)	63 (55-69)	54 (47-61)	45 (38-52)	37 (31-44)	30 (25-37)	25 (20-31)	21 (17-27)	18 (15-24)	16 (13-21)	14 (12-19)
6	77	71	64	56	48	39	32	27	24	21	19

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**Age = 75 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	16	13	10	8.3	6.8	5.6	4.8	4.3	3.8	3.4
1	30 (23-46)	24 (18-37)	19 (14-29)	15 (11-23)	12 (8.9-18)	9.8 (7.1-14)	7.9 (5.7-11)	6.7 (4.8-8.7)	5.9 (4.2-7.2)	5.2 (3.6-6.0)	4.6 (3.2-5.4)
2	41 (30-56)	34 (24-48)	28 (19-40)	22 (15-32)	18 (12-26)	14 (9.2-20)	11 (7.3-16)	9.5 (6.1-13)	8.1 (5.2-11)	7.0 (4.5-9.1)	6.1 (4.0-8.0)
3	52 (38-65)	45 (31-58)	38 (25-50)	31 (20-42)	25 (16-35)	20 (12-28)	16 (9.7-23)	13 (8.1-19)	11 (6.9-16)	9.6 (6.0-14)	8.2 (5.2-12)
4	63 (47-73)	56 (40-67)	49 (33-60)	42 (27-52)	35 (22-44)	28 (18-36)	23 (14-29)	19 (12-24)	16 (10-21)	13 (8.7-18)	11 (7.6-15)
5	72 (57-78)	67 (50-73)	60 (43-67)	53 (36-60)	46 (30-53)	38 (25-45)	31 (20-37)	26 (17-31)	21 (15-26)	18 (13-22)	15 (12-19)
6	79	75	70	64	57	49	41	35	29	24	20

**Age = 80 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	16	13	11	9.0	7.4	6.2	5.4	4.8	4.3	3.8
1	28 (21-43)	23 (17-36)	19 (14-30)	16 (11-25)	13 (9.3-20)	11 (7.5-16)	8.8 (6.2-13)	7.6 (5.3-11)	6.6 (4.6-8.9)	5.8 (4.0-7.5)	5.1 (3.5-6.3)
2	38 (27-53)	32 (23-46)	27 (19-39)	22 (15-33)	18 (12-27)	15 (10-22)	12 (8.1-18)	11 (6.9-15)	9.2 (5.9-13)	7.9 (5.1-11)	6.9 (4.5-9.3)
3	48 (34-61)	42 (29-55)	36 (24-48)	31 (20-41)	26 (16-35)	21 (13-29)	17 (11-24)	15 (9.2-20)	13 (7.9-18)	11 (6.8-15)	9.4 (5.9-13)
4	58 (42-68)	52 (36-62)	46 (31-56)	40 (26-50)	34 (22-43)	29 (18-37)	24 (15-31)	20 (13-26)	17 (11-23)	15 (9.5-20)	13 (8.3-17)
5	67 (50-73)	62 (44-68)	56 (39-63)	50 (33-57)	44 (28-51)	38 (24-44)	32 (20-38)	28 (17-33)	24 (15-29)	20 (13-25)	17 (12-22)
6	75	71	66	60	54	48	42	36	32	27	23

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**Age = 85 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	18	16	13	11	9.4	7.9	6.8	6.0	5.3	4.8	4.3
1	26 (19-39)	22 (16-34)	19 (13-29)	16 (11-24)	13 (9.3-20)	11 (7.7-17)	9.5 (6.6-14)	8.4 (5.7-12)	7.4 (5.0-10)	6.5 (4.4-8.9)	5.8 (3.9-7.7)
2	34 (24-48)	30 (21-43)	26 (18-37)	22 (15-32)	19 (12-27)	16 (10-23)	13 (8.7-19)	12 (7.5-17)	10 (6.5-15)	9.0 (5.7-13)	7.9 (5.0-11)
3	44 (31-56)	39 (27-51)	34 (23-45)	30 (19-40)	25 (16-35)	22 (14-30)	19 (12-26)	16 (10-22)	14 (8.7-19)	12 (7.6-17)	11 (6.6-15)
4	54 (38-63)	49 (33-59)	44 (29-53)	39 (25-48)	34 (21-43)	29 (18-37)	25 (15-32)	22 (13-29)	19 (12-25)	17 (10-22)	15 (9.0-19)
5	63 (46-69)	58 (41-65)	54 (36-60)	48 (32-55)	43 (27-50)	38 (24-45)	33 (20-40)	30 (18-36)	26 (16-32)	23 (14-28)	20 (13-25)
6	71	67	63	58	53	48	43	39	34	30	27

**Age = 90 years**

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	16	13	11	9.8	8.4	7.1	6.3	5.6	5.0	4.5	4.0
1	22 (16-33)	19 (13-29)	16 (11-25)	14 (9.7-21)	12 (8.2-18)	10 (7.0-15)	8.9 (6.1-13)	7.9 (5.4-12)	7.0 (4.8-10)	6.2 (4.2-9.0)	5.6 (3.8-7.9)
2	29 (20-41)	26 (18-37)	22 (15-32)	19 (13-28)	17 (11-24)	14 (9.3-21)	13 (8.1-18)	11 (7.1-16)	9.9 (6.3-14)	8.7 (5.6-13)	7.7 (4.9-11)
3	38 (26-50)	34 (23-45)	30 (20-41)	26 (17-36)	23 (14-32)	20 (12-28)	18 (11-24)	16 (9.5-22)	14 (8.4-19)	12 (7.4-17)	11 (6.5-15)
4	48 (33-57)	43 (29-53)	39 (26-49)	35 (22-44)	31 (19-39)	27 (16-35)	24 (15-31)	22 (13-28)	19 (11-25)	17 (10-22)	15 (9.0-20)
5	57 (40-64)	53 (36-60)	49 (32-56)	45 (29-51)	40 (25-47)	36 (22-42)	32 (19-38)	29 (17-35)	26 (16-32)	23 (14-28)	21 (12-25)
6	65	62	59	55	50	46	42	38	35	31	28