

Chile - 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 Chile. 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/m².

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	9.1	5.5	3.6	2.4	1.8	1.4	1.2	1.0	0.9	0.8	0.8
1	14 (11-18)	8.6 (7.5-11)	5.5 (4.8-7.1)	3.8 (3.1-4.8)	2.7 (2.1-3.5)	2.1 (1.6-2.7)	1.7 (1.2-2.3)	1.5 (1.0-2.0)	1.3 (0.9-1.8)	1.3 (0.8-1.7)	1.2 (0.8-1.7)
2	21 (15-30)	13 (10-19)	8.4 (6.6-12)	5.7 (4.2-8.1)	4.1 (2.8-6.0)	3.2 (2.0-5.0)	2.6 (1.5-4.3)	2.2 (1.2-3.7)	2.0 (1.0-3.4)	1.9 (1.0-3.3)	1.8 (0.9-3.1)
3	31 (21-42)	19 (14-27)	13 (8.9-17)	8.5 (5.8-13)	6.2 (3.8-9.8)	4.7 (2.7-8.1)	3.8 (2.0-6.9)	3.2 (1.6-6.0)	2.9 (1.4-5.5)	2.7 (1.3-5.2)	2.6 (1.2-5.0)
4	43 (30-55)	28 (19-37)	18 (12-23)	13 (8.1-16)	9.0 (5.8-13)	6.9 (4.5-10)	5.5 (3.3-8.9)	4.6 (2.6-7.7)	4.1 (2.2-7.0)	3.9 (2.0-6.7)	3.7 (1.9-6.5)
5	56 (46-67)	39 (31-47)	26 (20-31)	18 (14-21)	13 (9.7-16)	9.8 (7.4-13)	7.9 (5.9-11)	6.6 (4.9-9.2)	5.8 (4.2-8.3)	5.5 (3.8-7.9)	5.2 (3.6-7.6)
6	71	52	36	25	18	14	11	9.2	8.1	7.6	7.2

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

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	10	6.3	4.1	2.9	2.1	1.6	1.3	1.1	1.0	0.9	0.9
1	15 (13-18)	9.6 (8.6-12)	6.3 (5.6-7.7)	4.4 (3.7-5.3)	3.2 (2.5-3.9)	2.4 (1.8-3.0)	2.0 (1.4-2.5)	1.6 (1.1-2.2)	1.5 (1.0-2.0)	1.4 (0.9-1.9)	1.3 (0.8-1.8)
2	22 (17-30)	14 (11-20)	9.5 (7.6-13)	6.5 (5.0-9.0)	4.7 (3.4-6.7)	3.6 (2.4-5.5)	2.9 (1.8-4.6)	2.4 (1.4-4.0)	2.2 (1.2-3.6)	2.0 (1.1-3.4)	1.9 (1.0-3.3)
3	32 (23-42)	21 (15-27)	14 (10-18)	9.6 (6.9-14)	7.0 (4.5-11)	5.3 (3.2-8.8)	4.2 (2.3-7.4)	3.5 (1.8-6.3)	3.1 (1.5-5.8)	2.9 (1.4-5.5)	2.7 (1.3-5.2)
4	43 (32-54)	29 (21-37)	20 (14-24)	14 (9.4-18)	10 (6.8-14)	7.6 (5.2-11)	6.1 (3.9-9.5)	5.0 (3.0-8.2)	4.5 (2.5-7.5)	4.1 (2.2-7.0)	3.9 (2.0-6.7)
5	56 (48-65)	40 (33-47)	28 (22-32)	20 (15-23)	14 (11-17)	11 (8.4-14)	8.6 (6.6-11)	7.0 (5.4-9.7)	6.3 (4.6-8.8)	5.8 (4.1-8.3)	5.4 (3.7-7.9)
6	69	53	38	27	20	15	12	9.7	8.6	8.0	7.5

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	10	7.0	4.8	3.4	2.6	2.0	1.6	1.3	1.2	1.1	1.0
1	15 (14-18)	10 (9.5-12)	7.2 (6.3-8.5)	5.1 (4.3-6.1)	3.8 (3.0-4.5)	3.0 (2.2-3.6)	2.4 (1.7-3.0)	1.9 (1.3-2.6)	1.8 (1.2-2.4)	1.6 (1.1-2.2)	1.5 (1.0-2.1)
2	22 (18-29)	15 (12-20)	11 (8.6-14)	7.5 (5.8-9.9)	5.6 (4.1-7.7)	4.3 (2.9-6.3)	3.5 (2.2-5.3)	2.8 (1.7-4.5)	2.6 (1.4-4.2)	2.3 (1.3-3.9)	2.2 (1.2-3.7)
3	31 (24-38)	22 (16-27)	15 (11-20)	11 (8.1-15)	8.1 (5.5-12)	6.2 (3.9-10)	5.0 (2.9-8.4)	4.1 (2.2-7.2)	3.7 (1.9-6.6)	3.3 (1.7-6.2)	3.1 (1.5-5.8)
4	41 (32-49)	30 (22-35)	21 (15-25)	15 (11-20)	11 (8.1-16)	8.8 (6.2-13)	7.0 (4.7-11)	5.8 (3.6-9.2)	5.2 (3.0-8.5)	4.7 (2.7-7.9)	4.4 (2.4-7.4)
5	53 (46-60)	40 (34-45)	29 (24-32)	21 (17-25)	16 (13-20)	12 (9.9-16)	9.8 (7.8-13)	8.0 (6.3-11)	7.2 (5.3-10)	6.5 (4.6-9.3)	6.0 (4.2-8.7)
6	64	51	38	29	22	17	13	11	9.8	8.9	8.2

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

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	11	7.7	5.6	4.1	3.1	2.4	1.9	1.6	1.4	1.3	1.2
1	16 (15-18)	11 (10-13)	8.1 (7.1-9.2)	6.0 (5.0-6.8)	4.5 (3.6-5.3)	3.5 (2.7-4.3)	2.8 (2.1-3.6)	2.4 (1.7-3.1)	2.1 (1.4-2.8)	1.9 (1.3-2.6)	1.7 (1.1-2.4)
2	22 (18-27)	16 (13-20)	12 (9.6-15)	8.6 (6.8-11)	6.5 (4.9-8.8)	5.1 (3.6-7.2)	4.1 (2.7-6.1)	3.4 (2.1-5.2)	3.0 (1.8-4.8)	2.7 (1.5-4.4)	2.5 (1.4-4.1)
3	30 (24-36)	22 (17-27)	16 (13-21)	12 (9.3-17)	9.2 (6.6-13)	7.2 (4.8-11)	5.8 (3.6-9.3)	4.8 (2.8-8.1)	4.2 (2.3-7.4)	3.8 (2.0-6.8)	3.5 (1.8-6.3)
4	39 (32-45)	30 (23-34)	22 (17-27)	17 (13-21)	13 (9.5-17)	10 (7.4-14)	8.0 (5.7-12)	6.7 (4.4-10)	5.9 (3.7-9.5)	5.3 (3.1-8.8)	4.9 (2.8-8.1)
5	49 (44-54)	38 (34-42)	29 (25-33)	23 (19-27)	17 (15-21)	14 (11-18)	11 (9.0-15)	9.1 (7.3-12)	8.1 (6.1-11)	7.3 (5.3-10)	6.6 (4.7-9.6)
6	59	48	38	30	23	18	15	12	11	9.8	8.9

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	11	8.4	6.3	4.7	3.6	2.8	2.3	1.9	1.7	1.5	1.3
1	17 (14-21)	12 (11-16)	9.2 (7.6-11)	6.9 (5.6-8.6)	5.3 (4.2-6.5)	4.1 (3.1-5.0)	3.2 (2.4-3.9)	2.7 (2.0-3.2)	2.3 (1.7-2.8)	2.0 (1.4-2.4)	1.8 (1.3-2.2)
2	24 (19-30)	18 (14-23)	13 (10-17)	10 (7.6-13)	7.6 (5.6-10)	5.9 (4.2-7.9)	4.6 (3.2-6.2)	3.8 (2.5-5.2)	3.2 (2.1-4.5)	2.8 (1.8-3.9)	2.5 (1.6-3.5)
3	33 (26-41)	26 (20-33)	19 (14-26)	15 (10-20)	11 (7.7-15)	8.4 (5.7-12)	6.5 (4.3-9.5)	5.3 (3.4-7.9)	4.5 (2.8-6.8)	3.9 (2.4-6.0)	3.4 (2.0-5.3)
4	44 (36-51)	35 (28-42)	27 (21-33)	21 (16-26)	16 (12-20)	12 (8.6-16)	9.2 (6.5-12)	7.4 (5.2-10)	6.2 (4.3-8.9)	5.3 (3.6-7.8)	4.6 (3.1-6.9)
5	55 (47-60)	45 (38-51)	36 (30-41)	28 (23-33)	22 (17-26)	17 (13-20)	13 (10-16)	10 (8.1-13)	8.5 (6.8-11)	7.2 (5.8-9.6)	6.2 (5.0-8.4)
6	64	56	47	38	30	23	18	14	12	9.7	8.3

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

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	12	8.9	6.8	5.3	4.2	3.3	2.6	2.2	2.0	1.7	1.5
1	18 (14-32)	14 (10-25)	11 (8.0-19)	8.4 (6.1-14)	6.5 (4.6-11)	5.0 (3.6-7.9)	3.9 (2.8-6.0)	3.3 (2.3-4.7)	2.8 (1.9-3.8)	2.4 (1.7-3.1)	2.1 (1.4-2.5)
2	27 (18-41)	22 (14-34)	17 (11-27)	13 (8.2-21)	9.9 (6.3-16)	7.6 (4.8-12)	5.9 (3.7-9.1)	4.8 (3.0-7.2)	4.0 (2.5-5.7)	3.4 (2.1-4.7)	2.9 (1.8-3.9)
3	38 (25-51)	31 (19-43)	25 (15-35)	19 (11-28)	15 (8.6-22)	12 (6.6-17)	8.9 (5.1-13)	7.1 (4.1-10)	5.8 (3.4-8.5)	4.8 (2.8-7.0)	4.0 (2.4-5.8)
4	49 (33-60)	42 (26-52)	35 (21-44)	28 (16-36)	22 (12-29)	17 (9.6-23)	13 (7.4-18)	10 (6.0-14)	8.4 (5.0-11)	6.9 (4.2-9.3)	5.6 (3.5-7.7)
5	60 (41-67)	53 (34-60)	46 (28-53)	38 (22-45)	31 (17-37)	25 (14-29)	19 (11-23)	15 (8.8-19)	12 (7.4-15)	9.9 (6.3-12)	8.0 (5.4-10)
6	70	64	57	50	42	34	27	22	18	14	11

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	11	8.6	6.9	5.6	4.5	3.7	3.0	2.6	2.3	2.0	1.8
1	16 (12-29)	13 (9.6-23)	11 (7.6-18)	8.5 (6.0-14)	6.8 (4.8-11)	5.5 (3.8-8.8)	4.4 (3.1-6.9)	3.8 (2.6-5.7)	3.2 (2.2-4.6)	2.8 (1.9-3.8)	2.4 (1.7-3.2)
2	24 (16-37)	20 (13-31)	16 (10-25)	13 (8.1-20)	10 (6.5-16)	8.1 (5.1-13)	6.5 (4.1-10)	5.5 (3.5-8.3)	4.6 (2.9-6.8)	3.9 (2.5-5.7)	3.4 (2.1-4.7)
3	33 (21-47)	28 (17-40)	23 (14-33)	19 (11-27)	15 (8.8-22)	12 (7.0-18)	9.6 (5.6-14)	8.0 (4.7-11)	6.6 (3.9-9.4)	5.6 (3.3-7.9)	4.7 (2.8-6.7)
4	44 (27-55)	38 (23-48)	32 (18-41)	26 (15-35)	21 (12-28)	17 (9.6-23)	14 (7.8-19)	12 (6.5-15)	9.5 (5.5-13)	7.9 (4.7-11)	6.6 (4.0-8.9)
5	55 (35-61)	49 (29-55)	42 (24-48)	36 (20-42)	30 (16-35)	24 (13-29)	20 (11-24)	16 (9.1-20)	14 (7.7-17)	11 (6.6-14)	9.3 (5.7-12)
6	65	60	53	46	40	33	28	23	19	16	13

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

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	9.3	7.8	6.4	5.3	4.4	3.7	3.1	2.8	2.4	2.2	1.9
1	14 (9.8-23)	12 (8.1-19)	9.6 (6.6-16)	7.9 (5.5-13)	6.6 (4.5-11)	5.4 (3.7-8.7)	4.6 (3.1-7.2)	4.0 (2.7-6.1)	3.5 (2.3-5.1)	3.0 (2.0-4.4)	2.7 (1.8-3.7)
2	20 (13-31)	17 (11-26)	14 (8.9-22)	12 (7.3-18)	9.6 (6.0-15)	7.9 (5.0-12)	6.7 (4.2-10)	5.7 (3.6-8.6)	4.9 (3.1-7.3)	4.3 (2.7-6.2)	3.7 (2.3-5.3)
3	28 (17-39)	24 (14-33)	20 (12-29)	17 (9.9-24)	14 (8.2-20)	11 (6.7-17)	9.6 (5.6-14)	8.2 (4.8-12)	7.1 (4.2-10)	6.1 (3.6-8.6)	5.2 (3.1-7.4)
4	37 (22-47)	32 (19-41)	27 (16-36)	23 (13-31)	20 (11-26)	16 (9.2-22)	14 (7.7-18)	12 (6.6-16)	10 (5.7-13)	8.6 (4.9-12)	7.4 (4.3-9.9)
5	47 (29-54)	42 (25-48)	37 (21-43)	32 (18-38)	27 (15-32)	23 (12-28)	19 (11-24)	17 (9.1-21)	14 (8.0-18)	12 (6.9-15)	10 (6.1-13)
6	58	52	47	41	36	31	27	23	20	17	15

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	7.2	6.1	5.1	4.3	3.6	3.0	2.7	2.3	2.1	1.8	1.6
1	11 (7.6-18)	9.2 (6.4-15)	7.7 (5.4-13)	6.5 (4.5-11)	5.4 (3.8-9.1)	4.6 (3.1-7.5)	4.0 (2.7-6.5)	3.5 (2.4-5.6)	3.0 (2.1-4.8)	2.7 (1.8-4.1)	2.4 (1.6-3.6)
2	16 (10-25)	13 (8.6-21)	11 (7.2-18)	9.7 (6.1-15)	8.1 (5.1-13)	6.8 (4.3-11)	5.9 (3.7-9.2)	5.1 (3.2-8.0)	4.5 (2.8-6.9)	3.9 (2.4-6.0)	3.4 (2.1-5.2)
3	22 (14-32)	19 (12-28)	17 (9.9-24)	14 (8.3-21)	12 (7.0-18)	10 (5.8-15)	8.7 (5.0-13)	7.6 (4.4-11)	6.6 (3.8-9.6)	5.8 (3.3-8.4)	5.0 (2.9-7.2)
4	31 (18-40)	27 (16-35)	23 (13-31)	20 (11-27)	17 (9.5-23)	15 (8.0-20)	13 (6.9-17)	11 (6.1-15)	9.7 (5.3-13)	8.4 (4.7-11)	7.3 (4.1-9.8)
5	40 (24-47)	36 (21-42)	32 (18-38)	28 (15-33)	24 (13-29)	21 (11-25)	18 (9.6-22)	16 (8.4-19)	14 (7.4-17)	12 (6.5-15)	11 (5.7-13)
6	50	46	42	37	33	29	25	22	20	17	15