

Chile - The probabilities of a major osteoporotic fracture in women

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	7.3	4.6	3.1	2.3	1.8	1.4	1.2	1.1	1.0	1.0	1.0
1	11 (9.9-15)	7.2 (6.3-9.1)	4.8 (4.0-6.1)	3.5 (2.7-4.4)	2.7 (2.0-3.4)	2.2 (1.5-2.8)	1.8 (1.2-2.5)	1.7 (1.1-2.3)	1.6 (1.0-2.2)	1.5 (1.0-2.1)	1.4 (0.9-2.0)
2	17 (13-25)	11 (8.6-16)	7.3 (5.5-10)	5.2 (3.6-7.6)	4.0 (2.5-6.2)	3.2 (1.9-5.3)	2.7 (1.5-4.6)	2.5 (1.3-4.2)	2.3 (1.2-4.1)	2.2 (1.1-3.9)	2.1 (1.1-3.8)
3	26 (18-36)	16 (12-22)	11 (7.6-16)	7.8 (4.9-12)	6.0 (3.4-10)	4.8 (2.5-8.6)	4.0 (2.0-7.5)	3.6 (1.7-6.9)	3.4 (1.6-6.6)	3.2 (1.5-6.3)	3.1 (1.4-6.1)
4	37 (25-48)	24 (16-30)	16 (10-21)	11 (7.4-16)	8.7 (5.6-13)	6.9 (4.2-11)	5.8 (3.3-9.6)	5.2 (2.8-8.8)	4.9 (2.6-8.4)	4.7 (2.4-8.1)	4.5 (2.3-7.8)
5	50 (40-60)	34 (26-40)	23 (18-26)	16 (12-20)	12 (9.4-16)	9.9 (7.5-13)	8.2 (6.2-11)	7.4 (5.3-10)	6.9 (4.8-9.9)	6.6 (4.5-9.5)	6.3 (4.3-9.1)
6	65	46	32	23	17	14	11	10	9.6	9.1	8.8

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	8.3	5.5	3.8	2.8	2.2	1.7	1.5	1.3	1.2	1.2	1.1
1	13 (11-15)	8.4 (7.4-10)	5.8 (4.9-7.0)	4.2 (3.4-5.1)	3.3 (2.4-4.0)	2.6 (1.9-3.4)	2.2 (1.5-2.9)	2.0 (1.3-2.7)	1.9 (1.2-2.6)	1.7 (1.1-2.4)	1.6 (1.1-2.3)
2	19 (15-26)	13 (10-17)	8.7 (6.6-12)	6.3 (4.5-8.9)	4.9 (3.1-7.3)	3.9 (2.3-6.2)	3.2 (1.8-5.3)	2.9 (1.6-4.9)	2.7 (1.5-4.7)	2.6 (1.3-4.4)	2.4 (1.3-4.2)
3	28 (20-37)	19 (14-24)	13 (9.1-18)	9.3 (6.0-14)	7.1 (4.2-12)	5.7 (3.1-10)	4.7 (2.4-8.6)	4.3 (2.1-8.0)	4.0 (1.9-7.5)	3.7 (1.7-7.1)	3.5 (1.6-6.8)
4	39 (27-48)	27 (18-32)	19 (13-24)	14 (9.1-19)	10 (6.9-15)	8.2 (5.2-13)	6.8 (4.0-11)	6.1 (3.5-10)	5.7 (3.1-9.6)	5.3 (2.8-9.1)	5.0 (2.6-8.6)
5	52 (44-60)	37 (30-42)	26 (21-30)	19 (15-23)	15 (11-18)	12 (9.1-15)	9.6 (7.4-13)	8.6 (6.3-12)	8.0 (5.6-11)	7.5 (5.1-11)	7.1 (4.8-10)
6	66	49	36	27	20	16	13	12	11	10	9.8

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	5.0	3.7	2.8	2.3	1.9	1.7	1.6	1.5	1.4
1	15 (14-18)	11 (9.5-12)	7.5 (6.3-8.7)	5.5 (4.4-6.5)	4.2 (3.2-5.3)	3.4 (2.4-4.4)	2.9 (2.0-3.9)	2.6 (1.7-3.6)	2.4 (1.6-3.3)	2.2 (1.4-3.1)	2.0 (1.3-2.9)
2	23 (19-29)	16 (13-20)	11 (8.6-15)	8.1 (5.9-11)	6.3 (4.2-9.2)	5.0 (3.1-7.7)	4.2 (2.5-6.7)	3.8 (2.1-6.2)	3.5 (1.9-5.8)	3.2 (1.7-5.4)	3.0 (1.6-5.0)
3	32 (25-40)	22 (17-29)	16 (12-22)	12 (7.9-18)	9.1 (5.6-15)	7.2 (4.1-12)	6.1 (3.2-11)	5.5 (2.8-9.9)	5.0 (2.5-9.2)	4.6 (2.2-8.6)	4.3 (2.0-8.1)
4	43 (33-52)	31 (23-37)	23 (16-29)	17 (12-23)	13 (9.0-19)	10 (6.9-16)	8.6 (5.4-14)	7.7 (4.6-13)	7.1 (4.0-12)	6.5 (3.6-11)	6.1 (3.3-10)
5	57 (50-63)	42 (36-46)	31 (26-35)	23 (19-28)	18 (15-23)	14 (12-19)	12 (9.4-16)	11 (8.0-15)	9.8 (7.0-14)	9.1 (6.3-13)	8.5 (5.8-12)
6	70	55	42	32	25	20	17	15	13	12	12

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	13	9.1	6.5	4.9	3.7	3.0	2.6	2.3	2.0	1.9	1.7
1	19 (17-22)	13 (12-15)	9.7 (8.2-11)	7.2 (5.8-8.5)	5.5 (4.2-6.9)	4.4 (3.2-5.6)	3.8 (2.7-5.0)	3.3 (2.3-4.6)	3.0 (2.0-4.2)	2.7 (1.8-3.9)	2.5 (1.6-3.6)
2	27 (23-33)	19 (16-24)	14 (11-18)	10 (7.7-14)	8.1 (5.5-11)	6.4 (4.1-9.4)	5.5 (3.3-8.5)	4.9 (2.8-7.7)	4.4 (2.4-7.1)	4.0 (2.2-6.5)	3.6 (2.0-6.0)
3	37 (30-44)	27 (21-34)	20 (15-27)	15 (10-22)	12 (7.4-18)	9.1 (5.4-15)	7.8 (4.4-13)	6.9 (3.7-12)	6.2 (3.2-11)	5.7 (2.8-10)	5.2 (2.5-9.6)
4	49 (39-55)	37 (28-43)	27 (21-34)	21 (15-28)	16 (12-23)	13 (9.0-19)	11 (7.2-17)	9.7 (6.0-16)	8.7 (5.2-14)	8.0 (4.6-13)	7.3 (4.1-12)
5	61 (55-67)	48 (42-52)	37 (32-42)	28 (24-34)	22 (19-28)	18 (15-23)	15 (12-20)	13 (10-18)	12 (8.7-17)	11 (7.7-15)	10 (6.9-14)
6	73	60	48	38	30	24	20	18	16	15	14

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	16	12	8.6	6.4	4.9	3.9	3.3	2.9	2.5	2.3	2.0
1	24 (22-29)	17 (15-21)	13 (11-15)	9.3 (7.6-11)	7.0 (5.6-8.3)	5.6 (4.3-6.5)	4.7 (3.5-5.5)	4.0 (3.0-4.7)	3.5 (2.5-4.2)	3.1 (2.2-3.7)	2.8 (2.0-3.4)
2	35 (29-44)	25 (20-33)	18 (14-24)	14 (10-18)	10 (7.3-13)	7.9 (5.5-11)	6.6 (4.4-8.8)	5.6 (3.7-7.6)	4.9 (3.1-6.7)	4.3 (2.7-6.0)	3.9 (2.4-5.4)
3	48 (38-59)	36 (27-46)	27 (19-35)	20 (14-27)	15 (9.8-21)	11 (7.4-17)	9.3 (5.9-14)	7.8 (4.8-12)	6.7 (4.1-11)	5.9 (3.5-9.4)	5.3 (3.1-8.4)
4	63 (52-70)	49 (39-57)	37 (29-45)	28 (21-35)	21 (15-27)	16 (12-21)	13 (9.3-18)	11 (7.8-15)	9.2 (6.6-14)	8.0 (5.6-12)	7.1 (4.9-11)
5	76 (69-79)	64 (56-68)	51 (43-55)	39 (32-43)	29 (24-34)	22 (19-27)	18 (15-22)	15 (12-19)	13 (11-16)	11 (9.1-14)	9.5 (7.9-13)
6	85	77	65	52	40	31	25	20	17	15	13

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	20	15	11	8.2	6.3	5.1	4.3	3.7	3.2	2.8	2.5
1	31 (25-48)	23 (18-36)	17 (13-26)	13 (9.7-19)	9.4 (7.2-13)	7.5 (5.7-10)	6.2 (4.6-7.7)	5.2 (3.8-6.1)	4.4 (3.2-5.1)	3.8 (2.8-4.5)	3.3 (2.4-3.9)
2	45 (33-65)	34 (24-52)	26 (18-40)	19 (13-29)	14 (9.5-22)	11 (7.4-16)	8.9 (5.9-13)	7.3 (4.8-9.9)	6.1 (4.0-8.0)	5.1 (3.4-7.0)	4.4 (2.9-6.2)
3	60 (43-75)	48 (32-64)	38 (24-51)	28 (17-40)	21 (13-30)	16 (9.8-23)	13 (7.8-18)	10 (6.4-15)	8.4 (5.3-12)	7.0 (4.5-9.9)	5.9 (3.8-8.4)
4	73 (55-83)	63 (43-74)	52 (33-63)	41 (25-51)	31 (18-39)	24 (15-30)	19 (12-24)	15 (9.7-19)	12 (8.1-16)	9.6 (6.9-13)	8.0 (6.0-11)
5	83 (69-87)	76 (58-82)	67 (47-73)	56 (37-61)	44 (28-49)	35 (23-39)	27 (18-31)	21 (15-25)	17 (13-20)	13 (11-16)	11 (9.3-14)
6	88	85	79	71	59	48	38	30	24	19	15

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	22	17	13	10	8.1	6.7	5.7	4.9	4.2	3.6	3.2
1	32 (26-49)	25 (20-38)	19 (15-29)	15 (11-22)	12 (8.8-16)	9.6 (7.2-13)	8.0 (5.9-10)	6.7 (4.9-8.1)	5.7 (4.2-6.6)	4.9 (3.6-5.6)	4.2 (3.1-4.9)
2	45 (34-63)	36 (26-53)	28 (20-42)	22 (15-33)	17 (12-25)	14 (9.3-20)	11 (7.6-16)	9.3 (6.2-13)	7.8 (5.2-10)	6.6 (4.4-8.6)	5.6 (3.7-7.5)
3	58 (43-73)	49 (34-64)	39 (26-53)	31 (20-42)	24 (15-33)	20 (12-27)	16 (10-22)	13 (8.2-18)	11 (6.8-15)	8.9 (5.8-12)	7.5 (4.9-10)
4	70 (52-79)	62 (43-72)	52 (34-63)	43 (27-52)	34 (21-42)	28 (17-35)	22 (14-28)	18 (12-23)	15 (10-19)	12 (8.5-16)	10 (7.3-14)
5	79 (64-83)	73 (55-78)	65 (46-71)	56 (38-62)	46 (30-52)	38 (25-44)	31 (21-36)	25 (18-30)	21 (15-24)	17 (13-20)	14 (11-17)
6	85	81	76	69	60	51	42	35	28	23	19

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	22	18	14	11	9.1	7.7	6.5	5.5	4.7	4.1	3.5
1	31 (24-45)	25 (19-37)	20 (15-29)	16 (12-23)	13 (9.6-18)	11 (7.9-15)	9.1 (6.6-12)	7.6 (5.5-9.6)	6.5 (4.7-7.9)	5.5 (4.0-6.5)	4.7 (3.4-5.3)
2	42 (31-57)	35 (25-49)	28 (20-41)	22 (15-33)	18 (12-27)	15 (10-22)	13 (8.5-18)	11 (7.1-15)	8.9 (5.9-12)	7.5 (4.9-10)	6.3 (4.2-8.3)
3	53 (39-67)	46 (32-59)	38 (26-50)	31 (20-42)	26 (16-35)	21 (14-29)	18 (11-24)	15 (9.3-20)	12 (7.8-17)	10 (6.5-14)	8.6 (5.5-12)
4	64 (48-73)	57 (41-67)	49 (33-60)	42 (27-51)	35 (22-44)	30 (19-37)	25 (16-31)	20 (13-26)	17 (11-22)	14 (9.5-18)	12 (8.1-15)
5	73 (58-78)	68 (51-74)	61 (44-67)	53 (36-60)	46 (31-53)	40 (26-46)	34 (23-39)	28 (19-33)	23 (16-28)	19 (14-23)	16 (12-20)
6	80	76	71	65	58	51	44	38	32	26	22

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	17	14	11	8.9	7.5	6.3	5.3	4.5	3.8	3.2	2.7
1	25 (19-37)	20 (15-30)	16 (12-24)	13 (9.5-19)	11 (7.9-16)	9.1 (6.6-13)	7.6 (5.5-11)	6.4 (4.6-8.8)	5.4 (3.9-7.2)	4.5 (3.2-5.9)	3.8 (2.7-4.8)
2	34 (24-48)	28 (20-41)	23 (16-34)	19 (13-28)	16 (10-23)	13 (8.7-20)	11 (7.2-16)	9.1 (6.0-13)	7.6 (5.0-11)	6.4 (4.2-9.1)	5.3 (3.5-7.5)
3	45 (31-58)	38 (26-51)	32 (21-43)	26 (17-36)	22 (14-31)	19 (12-26)	16 (9.6-22)	13 (8.0-18)	11 (6.7-15)	9.0 (5.5-13)	7.5 (4.6-11)
4	56 (40-66)	49 (33-60)	42 (27-52)	36 (22-45)	31 (19-39)	26 (16-33)	22 (13-28)	19 (11-24)	15 (9.5-20)	13 (8.0-17)	11 (6.7-14)
5	66 (50-72)	60 (43-67)	54 (36-61)	47 (31-54)	42 (26-48)	36 (23-42)	31 (19-36)	26 (16-31)	22 (14-26)	18 (12-22)	15 (9.9-18)
6	74	70	65	59	53	47	42	36	30	26	21