

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 body mass index (BMI kg/m²), 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.

Age = 50 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.4	1.2	1.1	1.0	0.9	0.8	0.7
1	2.2 (1.5-3.4)	2.0 (1.3-2.8)	1.8 (1.2-2.5)	1.6 (1.1-2.2)	1.4 (0.9-1.9)	1.2 (0.8-1.6)	1.0 (0.7-1.4)
2	3.7 (2.0-6.0)	3.1 (1.7-5.2)	2.8 (1.5-4.9)	2.5 (1.3-4.2)	2.1 (1.1-3.7)	1.9 (1.0-3.2)	1.6 (0.8-2.8)
3	5.9 (2.9-10)	4.9 (2.4-8.8)	4.4 (2.1-8.0)	3.8 (1.8-7.0)	3.3 (1.5-6.1)	2.8 (1.3-5.3)	2.5 (1.2-4.6)
4	9.4 (5.0-15)	7.6 (4.2-12)	6.6 (3.5-11)	5.7 (3.0-9.5)	5.0 (2.6-8.3)	4.3 (2.2-7.2)	3.7 (1.9-6.3)
5	15 (8.8-19)	12 (7.3-15)	10 (6.6-13)	8.6 (5.7-12)	7.4 (4.9-10)	6.4 (4.3-8.7)	5.6 (3.7-7.6)
6	23	18	15	13	11	9.5	8.2

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.6	1.5	1.3	1.1	1.0	0.9
1	3.1 (2.2-4.6)	2.6 (1.8-3.7)	2.4 (1.6-3.2)	2.0 (1.4-2.8)	1.8 (1.2-2.4)	1.5 (1.0-2.1)	1.3 (0.9-1.8)
2	5.1 (2.9-8.2)	4.2 (2.3-6.7)	3.7 (2.0-6.1)	3.2 (1.7-5.3)	2.7 (1.5-4.6)	2.4 (1.3-4.0)	2.1 (1.1-3.5)
3	8.2 (4.4-13)	6.6 (3.4-11)	5.7 (2.8-10)	4.9 (2.4-8.7)	4.2 (2.1-7.6)	3.6 (1.8-6.6)	3.2 (1.5-5.8)
4	13 (7.2-19)	10 (5.9-16)	8.6 (4.9-14)	7.4 (4.1-12)	6.4 (3.5-10)	5.5 (3.0-9.0)	4.8 (2.6-7.9)
5	20 (13-25)	16 (10-20)	13 (8.7-17)	11 (7.5-15)	9.6 (6.5-13)	8.2 (5.6-11)	7.1 (4.9-9.6)
6	31	23	19	16	14	12	10

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.9	2.4	2.2	1.9	1.6	1.4	1.2
1	4.8 (3.5-6.8)	3.9 (2.8-5.3)	3.4 (2.4-4.5)	2.9 (2.0-3.9)	2.5 (1.8-3.4)	2.2 (1.5-2.9)	1.9 (1.3-2.5)
2	7.8 (4.7-12)	6.2 (3.6-9.4)	5.3 (3.0-8.5)	4.5 (2.5-7.3)	3.9 (2.2-6.4)	3.4 (1.9-5.6)	2.9 (1.6-4.8)
3	12 (7.4-19)	9.6 (5.4-16)	8.1 (4.3-14)	7.0 (3.6-12)	6.0 (3.1-10)	5.1 (2.6-9.1)	4.4 (2.3-7.9)
4	19 (11-27)	15 (9.0-22)	12 (7.5-19)	10 (6.3-16)	9.0 (5.3-14)	7.7 (4.5-12)	6.7 (3.8-11)
5	29 (20-35)	22 (15-28)	18 (13-23)	16 (11-20)	13 (9.5-18)	12 (8.1-15)	9.9 (7.0-13)
6	42	33	27	23	20	17	14

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.6	3.7	3.2	2.8	2.4	2.0	1.8
1	7.5 (5.7-10)	5.9 (4.4-7.8)	5.0 (3.6-6.5)	4.3 (3.1-5.6)	3.7 (2.6-4.8)	3.2 (2.2-4.1)	2.7 (1.9-3.5)
2	12 (7.8-17)	9.2 (5.8-13)	7.7 (4.6-12)	6.6 (3.9-10)	5.7 (3.3-8.8)	4.8 (2.8-7.7)	4.2 (2.4-6.7)
3	18 (12-26)	14 (8.8-22)	12 (6.7-19)	10 (5.7-16)	8.6 (4.8-14)	7.3 (4.0-12)	6.3 (3.4-11)
4	28 (18-37)	21 (14-30)	18 (11-26)	15 (9.8-23)	13 (8.3-20)	11 (6.9-17)	9.4 (5.8-15)
5	40 (30-47)	31 (24-38)	26 (19-32)	22 (16-28)	19 (14-24)	16 (12-21)	14 (10-18)
6	55	44	36	31	27	23	20

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.5	5.8	4.8	4.1	3.5	3.0	2.5
1	12 (9.2-15)	9.1 (6.9-11)	7.3 (5.5-9.2)	6.2 (4.6-7.8)	5.2 (3.9-6.7)	4.4 (3.3-5.7)	3.8 (2.8-4.9)
2	19 (13-26)	14 (9.3-19)	11 (7.2-15)	9.4 (6.0-13)	7.9 (5.0-11)	6.7 (4.2-9.4)	5.6 (3.5-8.0)
3	29 (20-41)	22 (14-32)	17 (11-25)	14 (8.9-21)	12 (7.4-18)	10 (6.2-15)	8.5 (5.2-13)
4	43 (33-56)	33 (25-45)	26 (19-36)	22 (15-31)	18 (13-26)	15 (11-22)	13 (8.8-19)
5	59 (53-68)	48 (42-57)	38 (32-46)	32 (27-39)	27 (22-33)	23 (18-28)	19 (15-24)
6	73	65	53	46	39	33	28

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	8.9	7.3	6.1	5.2	4.4	3.7
1	19 (14-27)	14 (11-20)	11 (8.4-14)	9.4 (7.0-11)	7.9 (5.8-9.4)	6.6 (4.9-7.9)	5.5 (4.1-6.7)
2	30 (19-43)	23 (14-33)	18 (11-24)	15 (9.2-20)	12 (7.6-16)	10 (6.3-14)	8.4 (5.3-11)
3	44 (29-59)	35 (22-50)	27 (17-39)	23 (14-33)	19 (11-27)	15 (9.5-23)	13 (7.8-19)
4	59 (43-72)	51 (35-65)	40 (28-54)	34 (23-47)	29 (19-40)	24 (16-34)	20 (13-28)
5	72 (59-79)	67 (52-75)	57 (44-66)	49 (37-59)	42 (32-51)	36 (27-44)	30 (22-37)
6	81	79	73	66	59	51	44

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	12	11	8.9	7.5	6.3	5.3
1	23 (17-35)	19 (14-27)	16 (12-20)	13 (9.9-17)	11 (8.2-14)	9.3 (6.9-11)	7.8 (5.7-9.1)
2	35 (24-49)	29 (19-40)	24 (16-32)	20 (13-27)	16 (11-22)	14 (8.9-18)	11 (7.4-15)
3	48 (34-62)	41 (29-55)	34 (23-46)	29 (19-39)	24 (16-33)	20 (13-28)	17 (11-23)
4	61 (45-72)	55 (41-68)	48 (35-61)	41 (30-53)	35 (25-46)	29 (21-40)	24 (17-34)
5	72 (58-78)	68 (54-76)	62 (49-71)	55 (43-64)	48 (36-57)	41 (31-50)	35 (26-43)
6	80	78	75	69	63	55	48

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	17	15	13	11	9.3	7.8	6.6
1	25 (18-37)	22 (16-31)	19 (14-25)	16 (12-20)	14 (9.9-17)	11 (8.2-14)	9.4 (6.8-11)
2	36 (25-50)	32 (22-44)	28 (19-37)	24 (16-31)	20 (13-26)	16 (11-22)	14 (8.8-18)
3	48 (33-62)	44 (30-57)	39 (27-51)	33 (23-44)	28 (19-37)	23 (16-31)	19 (13-26)
4	59 (44-70)	56 (42-67)	52 (39-64)	45 (33-57)	39 (27-50)	33 (23-44)	28 (19-37)
5	69 (56-76)	67 (54-75)	64 (52-72)	58 (45-67)	51 (39-60)	44 (34-53)	38 (28-46)
6	77	76	74	69	63	57	50

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	13	12	10	8.4	7.0	5.9
1	23 (17-34)	20 (15-29)	18 (13-24)	15 (11-20)	12 (8.9-16)	10 (7.3-13)	8.5 (6.0-11)
2	33 (23-48)	30 (20-42)	26 (18-35)	22 (14-29)	18 (12-24)	15 (9.6-20)	12 (7.9-17)
3	45 (31-59)	41 (28-55)	37 (25-49)	31 (21-42)	26 (17-35)	22 (14-30)	18 (11-25)
4	57 (42-68)	53 (39-65)	49 (36-61)	43 (30-55)	36 (25-48)	31 (21-41)	25 (17-35)
5	66 (54-73)	65 (51-72)	62 (49-70)	55 (42-64)	48 (36-57)	42 (31-51)	35 (26-44)
6	73	73	72	67	61	54	47