

Chile - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip 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	5.3	2.7	1.4	0.7	0.4	0.2	0.1	0.1	0.0	0.0	0.0	
1	8.5 (5.6-11)	4.4 (2.9-5.8)	2.3 (1.5-3.0)	1.2 (0.8-1.5)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	
2	13 (7.8-20)	7.0 (4.1-11)	3.6 (2.1-5.5)	1.9 (1.1-2.9)	1.0 (0.5-1.5)	0.5 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	
3	20 (12-32)	11 (6.1-18)	5.7 (3.2-9.4)	3.0 (1.6-4.9)	1.5 (0.8-2.5)	0.8 (0.4-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	
4	30 (19-44)	17 (10-26)	8.9 (5.5-14)	4.6 (2.8-7.4)	2.4 (1.4-3.8)	1.2 (0.7-2.0)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.0 (0.0-0.1)	
5	42 (33-56)	25 (19-34)	14 (10-19)	7.1 (5.2-10)	3.7 (2.7-5.4)	1.9 (1.4-2.8)	1.0 (0.7-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	
6	58	36	20	11	5.7	2.9	1.5	0.8	0.4	0.2	0.1	

Ten year probability of hip 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	5.8	3.2	1.7	0.9	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	9.1 (6.1-11)	5.0 (3.3-6.1)	2.7 (1.8-3.3)	1.5 (1.0-1.8)	0.8 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	14 (8.5-20)	7.8 (4.7-11)	4.2 (2.5-6.2)	2.3 (1.4-3.3)	1.2 (0.7-1.8)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
3	21 (13-32)	12 (7.0-18)	6.6 (3.8-10)	3.6 (2.1-5.7)	1.9 (1.1-3.1)	1.0 (0.6-1.7)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	30 (21-44)	18 (12-27)	10 (6.6-15)	5.5 (3.6-8.6)	3.0 (1.9-4.7)	1.6 (1.0-2.6)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
5	43 (35-56)	26 (21-36)	15 (12-21)	8.4 (6.6-12)	4.6 (3.6-6.6)	2.5 (1.9-3.6)	1.3 (1.0-2.0)	0.7 (0.6-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	57	37	22	13	7.0	3.8	2.1	1.1	0.6	0.4	0.2

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	6.9	3.9	2.2	1.2	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	11 (7.2-12)	6.0 (4.1-7.1)	3.4 (2.3-4.0)	1.9 (1.3-2.3)	1.1 (0.7-1.3)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	16 (10-21)	9.2 (5.8-13)	5.2 (3.3-7.2)	3.0 (1.8-4.1)	1.7 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
3	23 (15-34)	14 (8.7-21)	8.0 (4.9-12)	4.5 (2.8-6.9)	2.6 (1.6-3.9)	1.4 (0.9-2.2)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
4	33 (24-46)	20 (14-29)	12 (8.3-18)	6.9 (4.7-10)	3.9 (2.7-5.9)	2.2 (1.5-3.3)	1.2 (0.8-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	45 (40-58)	29 (25-39)	18 (15-24)	10 (8.4-14)	5.9 (4.8-8.3)	3.3 (2.7-4.7)	1.9 (1.5-2.7)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
6	60	40	25	15	8.7	5.0	2.8	1.7	1.0	0.6	0.3

Ten year probability of hip 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	8.4	4.9	2.9	1.7	1.0	0.6	0.3	0.2	0.1	0.1	0.0
1	13 (8.8-15)	7.5 (5.2-8.9)	4.4 (3.0-5.3)	2.6 (1.8-3.1)	1.5 (1.0-1.8)	0.9 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)
2	18 (12-24)	11 (7.3-15)	6.6 (4.3-8.7)	3.9 (2.5-5.2)	2.3 (1.5-3.0)	1.3 (0.8-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	26 (18-36)	16 (11-23)	9.9 (6.5-14)	5.9 (3.8-8.5)	3.4 (2.2-5.0)	2.0 (1.3-3.0)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	36 (28-49)	23 (18-33)	14 (11-21)	8.7 (6.3-13)	5.2 (3.7-7.6)	3.0 (2.2-4.5)	1.8 (1.3-2.7)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
5	49 (43-60)	33 (28-43)	21 (17-28)	13 (10-18)	7.6 (6.2-11)	4.5 (3.7-6.3)	2.7 (2.2-3.8)	1.7 (1.3-2.3)	1.0 (0.8-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	62	44	29	18	11	6.6	4.0	2.5	1.5	0.9	0.5

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	6.5	4.0	2.4	1.5	0.9	0.6	0.4	0.2	0.1	0.1
1	17 (15-21)	11 (9.1-13)	6.7 (5.6-8.4)	4.1 (3.4-5.2)	2.5 (2.1-3.1)	1.5 (1.3-1.9)	1.0 (0.8-1.2)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	27 (21-35)	17 (14-23)	11 (8.5-15)	6.8 (5.2-9.2)	4.1 (3.2-5.7)	2.6 (2.0-3.5)	1.6 (1.2-2.2)	1.0 (0.8-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
3	40 (31-49)	27 (20-34)	17 (13-23)	11 (8.0-15)	6.8 (4.9-9.2)	4.3 (3.0-5.8)	2.7 (1.9-3.7)	1.7 (1.2-2.3)	1.1 (0.8-1.5)	0.7 (0.5-0.9)	0.4 (0.3-0.6)
4	55 (45-63)	40 (31-47)	27 (20-33)	18 (13-22)	11 (8.1-14)	7.0 (5.0-8.8)	4.5 (3.2-5.7)	2.8 (2.0-3.6)	1.8 (1.3-2.3)	1.1 (0.8-1.4)	0.7 (0.5-0.9)
5	71 (63-75)	56 (47-60)	40 (33-45)	27 (22-31)	18 (14-20)	11 (8.9-13)	7.3 (5.7-8.5)	4.7 (3.6-5.4)	3.0 (2.3-3.5)	1.9 (1.5-2.2)	1.2 (0.9-1.4)
6	82	71	56	40	27	18	12	7.6	4.9	3.1	2.0

Ten year probability of hip 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	13	8.2	5.2	3.4	2.1	1.4	0.9	0.6	0.4	0.3	0.2
1	23 (17-43)	15 (11-31)	10 (7.4-21)	6.6 (4.7-14)	4.3 (3.0-9.0)	2.8 (2.0-6.0)	1.9 (1.3-4.0)	1.2 (0.9-2.6)	0.8 (0.6-1.7)	0.5 (0.4-1.1)	0.3 (0.2-0.7)
2	37 (24-60)	26 (16-46)	18 (10-33)	12 (6.7-23)	7.9 (4.3-15)	5.3 (2.8-10)	3.5 (1.9-7.0)	2.3 (1.2-4.7)	1.5 (0.8-3.1)	1.0 (0.5-2.0)	0.7 (0.3-1.3)
3	53 (33-72)	41 (23-60)	30 (15-46)	21 (10-34)	14 (6.5-23)	9.5 (4.3-16)	6.4 (2.8-11)	4.3 (1.9-7.5)	2.8 (1.2-5.0)	1.9 (0.8-3.3)	1.2 (0.5-2.2)
4	69 (47-80)	58 (34-71)	45 (24-59)	33 (16-45)	23 (10-33)	16 (6.9-23)	11 (4.6-16)	7.6 (3.1-11)	5.1 (2.0-7.6)	3.4 (1.3-5.1)	2.2 (0.9-3.4)
5	81 (62-86)	73 (49-79)	62 (36-69)	49 (26-56)	37 (17-43)	27 (12-31)	19 (8.0-22)	13 (5.4-16)	8.7 (3.6-11)	5.9 (2.4-7.1)	3.9 (1.6-4.8)
6	88	84	77	67	53	41	30	21	15	10	6.7

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	13	8.6	5.8	3.9	2.6	1.8	1.3	0.9	0.6	0.4	0.3
1	22 (16-43)	16 (11-32)	11 (7.6-23)	7.5 (5.1-16)	5.1 (3.5-11)	3.6 (2.4-7.7)	2.5 (1.7-5.4)	1.7 (1.1-3.7)	1.2 (0.8-2.6)	0.8 (0.5-1.8)	0.6 (0.4-1.2)
2	35 (22-58)	26 (15-46)	19 (11-35)	13 (7.1-25)	9.3 (4.9-18)	6.6 (3.4-13)	4.6 (2.3-9.2)	3.2 (1.6-6.5)	2.2 (1.1-4.5)	1.6 (0.8-3.2)	1.1 (0.5-2.2)
3	50 (31-69)	40 (22-59)	30 (16-47)	22 (11-35)	16 (7.3-26)	11 (5.1-19)	8.2 (3.6-14)	5.7 (2.5-10)	4.0 (1.7-7.1)	2.8 (1.2-5.0)	1.9 (0.8-3.5)
4	65 (43-77)	55 (32-68)	45 (23-58)	34 (16-47)	26 (11-36)	19 (8.1-28)	14 (5.7-20)	9.8 (4.0-15)	7.0 (2.8-11)	4.9 (1.9-7.5)	3.4 (1.3-5.3)
5	76 (56-82)	69 (45-76)	60 (35-68)	49 (25-57)	39 (18-46)	30 (13-36)	22 (9.5-27)	16 (6.7-20)	12 (4.7-15)	8.2 (3.3-10)	5.8 (2.3-7.4)
6	84	80	74	65	54	44	34	26	19	14	9.6

Ten year probability of hip 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	11	8.0	5.7	4.0	2.9	2.2	1.6	1.1	0.8	0.6	0.4
1	20 (14-38)	15 (10-29)	11 (7.4-22)	7.6 (5.3-16)	5.6 (3.9-12)	4.2 (2.8-9.0)	3.1 (2.1-6.6)	2.2 (1.5-4.9)	1.6 (1.1-3.6)	1.2 (0.8-2.6)	0.9 (0.6-1.9)
2	31 (20-51)	24 (14-41)	18 (10-33)	13 (7.4-25)	10 (5.4-19)	7.5 (4.0-15)	5.6 (2.9-11)	4.1 (2.1-8.1)	3.0 (1.6-6.0)	2.2 (1.1-4.4)	1.6 (0.8-3.3)
3	44 (27-62)	36 (20-53)	28 (15-44)	22 (11-34)	17 (8.1-27)	13 (6.0-21)	9.6 (4.4-16)	7.2 (3.2-12)	5.3 (2.4-9.0)	3.9 (1.7-6.7)	2.9 (1.2-5.0)
4	58 (37-70)	49 (29-62)	41 (22-53)	33 (16-44)	26 (12-36)	21 (9.0-29)	16 (6.7-23)	12 (5.0-17)	9.0 (3.7-13)	6.7 (2.7-10)	4.9 (2.0-7.4)
5	69 (48-75)	63 (39-69)	55 (31-62)	46 (24-53)	38 (19-45)	31 (14-37)	25 (11-30)	19 (8.1-23)	15 (6.0-18)	11 (4.4-14)	8.2 (3.3-10)
6	79	74	68	60	52	44	36	29	23	18	13

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	8.2	6.2	4.6	3.5	2.7	2.1	1.6	1.2	0.9	0.7	0.6
1	15 (11-30)	11 (8.1-24)	8.6 (6.0-18)	6.6 (4.6-14)	5.1 (3.5-11)	4.0 (2.7-8.7)	3.1 (2.1-6.8)	2.4 (1.6-5.2)	1.8 (1.2-4.0)	1.4 (1.0-3.1)	1.1 (0.7-2.4)
2	24 (15-41)	19 (11-34)	15 (8.4-27)	12 (6.4-21)	9.1 (5.0-17)	7.2 (3.9-14)	5.6 (3.0-11)	4.3 (2.3-8.5)	3.4 (1.8-6.7)	2.6 (1.3-5.2)	2.0 (1.0-4.0)
3	36 (20-52)	29 (16-44)	24 (12-37)	19 (9.3-30)	15 (7.3-25)	12 (5.7-20)	9.6 (4.4-16)	7.5 (3.4-13)	5.9 (2.7-9.9)	4.6 (2.0-7.7)	3.5 (1.6-6.0)
4	49 (28-61)	42 (23-54)	35 (18-46)	29 (14-39)	24 (11-32)	19 (8.5-27)	16 (6.7-22)	12 (5.2-18)	9.8 (4.0-14)	7.7 (3.1-11)	6.0 (2.4-8.9)
5	61 (38-68)	55 (32-61)	48 (25-55)	41 (20-47)	35 (16-41)	29 (13-35)	24 (10-29)	20 (8.2-24)	16 (6.5-19)	13 (5.1-15)	9.9 (3.9-12)
6	72	67	61	55	48	42	36	30	24	20	16