

Colombia - 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 Colombia. 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	9.7	5.9	3.8	2.6	1.9	1.5	1.2	1.0	0.9	0.9	0.8	
1	15 (12-19)	9.1 (7.9-12)	5.8 (5.1-7.5)	4.0 (3.3-5.1)	2.9 (2.2-3.7)	2.2 (1.6-2.8)	1.8 (1.3-2.4)	1.5 (1.0-2.1)	1.4 (0.9-1.9)	1.3 (0.8-1.8)	1.3 (0.8-1.8)	
2	22 (16-31)	14 (10-20)	8.8 (6.8-13)	6.0 (4.4-8.5)	4.3 (3.0-6.3)	3.3 (2.1-5.2)	2.7 (1.6-4.5)	2.3 (1.3-3.9)	2.0 (1.1-3.6)	1.9 (1.0-3.4)	1.9 (0.9-3.3)	
3	31 (22-42)	20 (14-27)	13 (9.2-17)	8.9 (6.1-13)	6.4 (4.0-10)	4.9 (2.8-8.3)	4.0 (2.1-7.1)	3.3 (1.7-6.2)	3.0 (1.4-5.6)	2.8 (1.3-5.4)	2.7 (1.2-5.2)	
4	43 (30-54)	29 (19-37)	19 (12-23)	13 (8.4-17)	9.3 (6.1-13)	7.1 (4.6-11)	5.7 (3.4-9.1)	4.8 (2.7-8.0)	4.2 (2.3-7.3)	4.0 (2.1-6.9)	3.8 (1.9-6.7)	
5	56 (45-65)	39 (31-47)	27 (20-31)	18 (14-21)	13 (9.8-16)	10 (7.4-13)	8.0 (6.0-11)	6.7 (5.0-9.5)	6.0 (4.3-8.6)	5.6 (3.9-8.2)	5.4 (3.6-7.9)	
6	68	51	36	25	18	14	11	9.3	8.2	7.7	7.4	

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

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	13	8.3	5.5	3.9	2.9	2.3	1.9	1.6	1.4	1.3	1.3
1	19 (16-23)	12 (11-15)	8.3 (7.3-10)	5.9 (4.8-7.2)	4.4 (3.3-5.4)	3.4 (2.5-4.3)	2.8 (1.9-3.6)	2.3 (1.6-3.1)	2.1 (1.4-2.9)	2.0 (1.3-2.8)	1.9 (1.2-2.6)
2	27 (21-36)	18 (14-24)	12 (9.8-17)	8.7 (6.5-12)	6.4 (4.5-9.3)	5.0 (3.2-7.7)	4.1 (2.4-6.5)	3.4 (1.9-5.7)	3.1 (1.7-5.2)	2.9 (1.5-5.0)	2.7 (1.4-4.7)
3	37 (28-47)	26 (19-33)	18 (13-23)	13 (8.9-18)	9.3 (6.0-14)	7.2 (4.3-12)	5.8 (3.2-10)	4.9 (2.5-8.8)	4.4 (2.2-8.2)	4.1 (2.0-7.7)	3.9 (1.8-7.4)
4	49 (38-58)	35 (26-42)	25 (17-30)	18 (12-23)	13 (9.1-19)	10 (6.9-15)	8.3 (5.1-13)	6.9 (4.0-11)	6.2 (3.4-10)	5.8 (3.1-9.9)	5.5 (2.9-9.4)
5	61 (53-68)	46 (38-53)	34 (27-38)	25 (19-29)	18 (14-23)	14 (11-19)	11 (8.8-16)	9.6 (7.3-13)	8.6 (6.2-12)	8.0 (5.6-12)	7.6 (5.1-11)
6	72	58	44	33	25	19	16	13	12	11	10

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	13	8.7	6.1	4.5	3.4	2.7	2.2	1.8	1.7	1.5	1.4
1	18 (17-22)	13 (11-15)	9.0 (7.7-11)	6.6 (5.4-7.9)	5.0 (3.9-6.0)	4.0 (2.9-5.0)	3.2 (2.2-4.2)	2.7 (1.8-3.6)	2.4 (1.6-3.4)	2.2 (1.5-3.2)	2.1 (1.3-3.0)
2	26 (21-33)	18 (15-24)	13 (10-17)	9.6 (7.2-13)	7.3 (5.1-10)	5.7 (3.7-8.6)	4.7 (2.9-7.3)	3.9 (2.3-6.3)	3.5 (2.0-5.9)	3.2 (1.8-5.5)	3.0 (1.6-5.2)
3	35 (27-43)	25 (20-31)	18 (14-24)	14 (9.9-19)	10 (6.9-16)	8.2 (5.0-13)	6.6 (3.8-11)	5.5 (3.0-9.7)	5.0 (2.6-9.0)	4.6 (2.3-8.5)	4.3 (2.1-8.0)
4	46 (36-53)	34 (26-40)	25 (19-31)	19 (14-25)	14 (10-20)	11 (8.0-17)	9.3 (6.0-14)	7.7 (4.7-12)	7.0 (4.0-12)	6.4 (3.6-11)	6.0 (3.2-10)
5	57 (50-62)	44 (38-49)	34 (28-38)	26 (21-31)	20 (16-25)	16 (12-20)	13 (10-17)	11 (8.1-15)	9.6 (7.0-14)	8.8 (6.2-13)	8.2 (5.6-12)
6	67	55	43	34	26	21	17	14	13	12	11

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

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	7.9	5.7	4.3	3.3	2.6	2.1	1.7	1.6	1.4	1.3
1	16 (14-18)	11 (10-13)	8.3 (7.1-9.5)	6.2 (5.0-7.1)	4.8 (3.7-5.6)	3.7 (2.8-4.6)	3.0 (2.2-3.9)	2.5 (1.7-3.4)	2.3 (1.5-3.1)	2.0 (1.3-2.9)	1.9 (1.2-2.7)
2	22 (18-27)	16 (13-20)	12 (9.6-15)	8.8 (6.8-11)	6.8 (5.0-9.4)	5.4 (3.7-7.8)	4.3 (2.8-6.5)	3.6 (2.2-5.7)	3.2 (1.9-5.2)	2.9 (1.6-4.8)	2.7 (1.5-4.5)
3	29 (23-35)	22 (17-27)	16 (13-21)	12 (9.3-17)	9.5 (6.7-14)	7.5 (4.9-12)	6.1 (3.7-9.9)	5.1 (2.9-8.6)	4.6 (2.5-8.0)	4.1 (2.2-7.4)	3.8 (1.9-6.9)
4	38 (31-44)	29 (23-34)	22 (17-27)	17 (13-22)	13 (9.8-18)	10 (7.7-15)	8.4 (5.8-13)	7.1 (4.5-11)	6.3 (3.8-10)	5.7 (3.3-9.5)	5.2 (2.9-8.8)
5	47 (42-52)	38 (33-42)	29 (25-34)	23 (19-27)	18 (15-22)	14 (12-18)	11 (9.3-15)	9.6 (7.6-13)	8.5 (6.4-12)	7.7 (5.6-11)	7.1 (4.9-10)
6	57	46	37	29	23	19	15	13	11	10	9.5

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	9.3	6.9	5.1	3.9	3.0	2.4	1.9	1.6	1.4	1.3	1.1
1	14 (12-17)	10 (8.4-13)	7.5 (6.1-9.4)	5.7 (4.5-7.0)	4.3 (3.4-5.3)	3.4 (2.6-4.1)	2.7 (2.0-3.2)	2.2 (1.6-2.7)	1.9 (1.4-2.3)	1.7 (1.2-2.1)	1.5 (1.1-1.9)
2	20 (16-25)	15 (11-19)	11 (8.3-14)	8.3 (6.1-11)	6.3 (4.6-8.4)	4.8 (3.4-6.6)	3.8 (2.6-5.2)	3.1 (2.1-4.3)	2.7 (1.7-3.8)	2.4 (1.5-3.3)	2.1 (1.3-3.0)
3	28 (22-35)	21 (16-27)	16 (12-21)	12 (8.4-16)	9.0 (6.2-13)	6.9 (4.6-9.9)	5.3 (3.5-7.9)	4.4 (2.8-6.6)	3.7 (2.3-5.7)	3.2 (2.0-5.0)	2.9 (1.7-4.5)
4	38 (30-45)	29 (23-36)	22 (17-28)	17 (13-21)	13 (9.3-17)	9.8 (7.0-13)	7.5 (5.3-10)	6.1 (4.2-8.6)	5.1 (3.5-7.4)	4.4 (3.0-6.5)	3.8 (2.6-5.8)
5	48 (41-54)	39 (32-44)	31 (25-35)	24 (19-28)	18 (14-22)	14 (11-17)	11 (8.3-13)	8.4 (6.7-11)	7.0 (5.6-9.3)	6.0 (4.8-8.1)	5.2 (4.1-7.1)
6	59	50	41	32	25	19	15	12	9.6	8.0	6.9

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

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	7.6	5.8	4.5	3.5	2.7	2.2	1.7	1.5	1.3	1.2	1.0
1	12 (9.0-22)	9.3 (6.8-17)	7.1 (5.1-12)	5.5 (3.9-9.2)	4.2 (3.0-6.9)	3.3 (2.3-5.1)	2.6 (1.8-3.8)	2.2 (1.5-3.0)	1.8 (1.3-2.4)	1.6 (1.1-2.0)	1.4 (1.0-1.7)
2	19 (12-30)	15 (9.2-24)	11 (7.0-18)	8.5 (5.3-14)	6.5 (4.1-10)	5.0 (3.1-7.8)	3.9 (2.4-5.9)	3.1 (2.0-4.6)	2.6 (1.7-3.7)	2.2 (1.4-3.0)	1.9 (1.2-2.5)
3	28 (17-40)	22 (13-32)	17 (9.7-25)	13 (7.4-19)	9.9 (5.6-15)	7.6 (4.3-11)	5.8 (3.3-8.5)	4.6 (2.7-6.8)	3.8 (2.2-5.6)	3.1 (1.9-4.6)	2.6 (1.6-3.8)
4	39 (23-49)	32 (18-41)	25 (14-33)	19 (11-26)	15 (8.1-20)	11 (6.2-15)	8.7 (4.8-12)	6.9 (3.9-9.3)	5.5 (3.2-7.5)	4.5 (2.7-6.1)	3.7 (2.3-5.1)
5	51 (31-58)	43 (25-49)	35 (19-41)	28 (15-33)	22 (12-26)	17 (9.1-20)	13 (7.1-16)	10 (5.8-12)	8.1 (4.9-10)	6.5 (4.2-8.1)	5.2 (3.6-6.7)
6	63	55	47	39	31	24	19	15	12	9.3	7.5

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	5.8	4.6	3.6	2.9	2.3	1.9	1.6	1.3	1.2	1.0	0.9
1	9.1 (6.5-17)	7.2 (5.1-13)	5.7 (4.0-10)	4.5 (3.2-7.8)	3.6 (2.5-6.0)	2.9 (2.0-4.7)	2.3 (1.6-3.7)	1.9 (1.3-3.0)	1.7 (1.1-2.4)	1.4 (1.0-2.0)	1.2 (0.9-1.7)
2	14 (8.8-23)	11 (7.0-18)	8.8 (5.5-14)	6.9 (4.3-11)	5.5 (3.4-8.8)	4.3 (2.7-6.9)	3.4 (2.2-5.4)	2.9 (1.8-4.4)	2.4 (1.5-3.6)	2.0 (1.3-3.0)	1.7 (1.1-2.5)
3	21 (12-31)	17 (9.4-25)	13 (7.5-20)	10 (5.9-16)	8.2 (4.7-12)	6.5 (3.7-9.6)	5.1 (2.9-7.6)	4.2 (2.4-6.1)	3.5 (2.0-5.0)	2.9 (1.7-4.2)	2.5 (1.5-3.5)
4	29 (16-38)	24 (13-32)	19 (10-26)	15 (8.1-21)	12 (6.4-17)	9.6 (5.1-13)	7.6 (4.1-10)	6.2 (3.4-8.3)	5.1 (2.9-6.8)	4.2 (2.5-5.6)	3.5 (2.1-4.7)
5	39 (22-45)	33 (18-39)	27 (14-32)	22 (11-26)	18 (9.0-21)	14 (7.2-17)	11 (5.8-14)	9.1 (4.9-11)	7.4 (4.1-9.2)	6.0 (3.5-7.6)	5.0 (3.0-6.3)
6	50	44	37	31	25	20	16	13	11	8.7	7.1

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

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	4.3	3.5	2.9	2.4	2.0	1.6	1.4	1.2	1.1	0.9	0.8
1	6.8 (4.7-12)	5.5 (3.8-10)	4.5 (3.1-8.1)	3.7 (2.5-6.5)	3.0 (2.0-5.2)	2.5 (1.6-4.2)	2.1 (1.4-3.4)	1.8 (1.2-2.9)	1.5 (1.0-2.4)	1.3 (0.9-2.0)	1.2 (0.8-1.7)
2	10 (6.3-17)	8.5 (5.2-14)	6.9 (4.2-11)	5.6 (3.4-9.2)	4.6 (2.8-7.4)	3.7 (2.2-5.9)	3.1 (1.9-4.9)	2.6 (1.6-4.1)	2.2 (1.4-3.4)	1.9 (1.2-2.9)	1.7 (1.0-2.4)
3	15 (8.6-23)	13 (7.0-19)	10 (5.7-16)	8.4 (4.7-13)	6.9 (3.8-10)	5.6 (3.1-8.4)	4.6 (2.6-6.9)	3.9 (2.2-5.8)	3.3 (1.9-4.8)	2.8 (1.6-4.0)	2.4 (1.4-3.4)
4	22 (12-30)	18 (9.5-25)	15 (7.8-21)	12 (6.4-17)	10 (5.2-14)	8.3 (4.3-11)	6.8 (3.6-9.4)	5.7 (3.0-7.9)	4.8 (2.6-6.6)	4.1 (2.2-5.5)	3.4 (1.9-4.7)
5	30 (16-36)	26 (13-31)	22 (11-26)	18 (8.8-22)	15 (7.2-18)	12 (5.9-15)	10 (4.9-12)	8.4 (4.2-10)	7.0 (3.6-8.8)	5.9 (3.1-7.5)	5.0 (2.7-6.3)
6	40	35	30	25	21	17	14	12	10	8.6	7.2

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	3.5	2.9	2.5	2.1	1.8	1.5	1.3	1.2	1.0	0.9	0.8
1	5.3 (3.6-9.3)	4.4 (3.0-7.8)	3.7 (2.5-6.5)	3.1 (2.1-5.4)	2.6 (1.7-4.5)	2.2 (1.5-3.8)	1.9 (1.3-3.2)	1.7 (1.1-2.8)	1.5 (1.0-2.4)	1.3 (0.9-2.1)	1.2 (0.8-1.8)
2	8.0 (4.9-13)	6.7 (4.1-11)	5.6 (3.4-9.2)	4.7 (2.9-7.7)	4.0 (2.4-6.4)	3.3 (2.0-5.3)	2.9 (1.7-4.6)	2.5 (1.5-3.9)	2.2 (1.3-3.4)	1.9 (1.2-2.9)	1.7 (1.0-2.5)
3	12 (6.6-18)	10 (5.6-15)	8.4 (4.7-13)	7.1 (3.9-11)	5.9 (3.3-9.0)	5.0 (2.7-7.5)	4.3 (2.4-6.4)	3.7 (2.1-5.5)	3.2 (1.8-4.8)	2.8 (1.6-4.1)	2.4 (1.4-3.6)
4	17 (8.9-23)	15 (7.5-20)	12 (6.4-17)	10 (5.4-14)	8.8 (4.5-12)	7.4 (3.8-10)	6.3 (3.3-8.8)	5.5 (2.9-7.6)	4.8 (2.5-6.6)	4.1 (2.2-5.7)	3.6 (1.9-4.9)
5	24 (12-29)	21 (10-25)	18 (8.8-22)	15 (7.4-19)	13 (6.2-16)	11 (5.2-13)	9.3 (4.5-12)	8.1 (4.0-10)	7.0 (3.5-8.8)	6.0 (3.0-7.6)	5.2 (2.7-6.6)
6	33	29	25	22	18	16	14	12	10	8.8	7.6