

**Ecuador - The probabilities of a hip fracture in men**

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 Ecuador. 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/m<sup>2</sup>.

**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	4.0	2.1	1.1	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
1	6.4 (4.2-8.4)	3.4 (2.2-4.5)	1.8 (1.2-2.4)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (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)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	10 (6.0-15)	5.4 (3.2-8.1)	2.9 (1.7-4.3)	1.5 (0.9-2.3)	0.8 (0.5-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	15 (8.9-24)	8.3 (4.8-13)	4.5 (2.5-7.2)	2.4 (1.3-3.8)	1.3 (0.7-2.0)	0.7 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
4	23 (15-33)	13 (8.0-19)	6.9 (4.3-11)	3.7 (2.3-5.8)	2.0 (1.2-3.1)	1.0 (0.6-1.6)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
5	32 (25-43)	19 (14-26)	10 (7.7-15)	5.7 (4.1-8.1)	3.0 (2.2-4.4)	1.6 (1.1-2.3)	0.8 (0.6-1.2)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
6	45	27	16	8.6	4.6	2.4	1.3	0.7	0.4	0.2	0.2	0.1

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

**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	3.8	2.1	1.1	0.6	0.3	0.2	0.1	0.1	0.0	0.0	0.0
1	5.9 (4.0-7.3)	3.3 (2.2-4.1)	1.8 (1.2-2.2)	1.0 (0.7-1.2)	0.5 (0.4-0.7)	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	9.1 (5.6-13)	5.1 (3.1-7.3)	2.8 (1.7-4.1)	1.5 (0.9-2.2)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	14 (8.4-20)	7.7 (4.7-12)	4.3 (2.6-6.6)	2.4 (1.4-3.7)	1.3 (0.8-2.0)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	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	20 (14-29)	12 (7.7-17)	6.6 (4.3-9.9)	3.6 (2.4-5.6)	2.0 (1.3-3.1)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	29 (23-38)	17 (13-24)	9.8 (7.6-14)	5.5 (4.3-7.8)	3.0 (2.4-4.4)	1.7 (1.3-2.4)	0.9 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
6	40	25	14	8.2	4.6	2.5	1.4	0.8	0.4	0.2	0.1

**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	3.2	1.9	1.1	0.6	0.4	0.2	0.1	0.1	0.0	0.0	0.0
1	4.9 (3.4-5.8)	2.9 (2.0-3.4)	1.7 (1.2-2.0)	1.0 (0.7-1.2)	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 (0.0-0.1)	0.0 (0.0-0.0)
2	7.4 (4.8-10)	4.4 (2.8-6.0)	2.6 (1.6-3.5)	1.5 (1.0-2.1)	0.9 (0.6-1.2)	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)	0.0 (0.0-0.1)
3	11 (7.2-16)	6.6 (4.2-9.6)	3.9 (2.5-5.7)	2.3 (1.4-3.4)	1.3 (0.8-2.0)	0.8 (0.5-1.2)	0.4 (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)
4	16 (12-23)	9.8 (6.9-14)	5.8 (4.1-8.5)	3.4 (2.4-5.1)	2.0 (1.4-3.0)	1.2 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
5	23 (19-30)	14 (12-19)	8.6 (7.1-12)	5.1 (4.2-7.1)	3.0 (2.5-4.2)	1.7 (1.4-2.5)	1.0 (0.8-1.4)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	32	20	12	7.5	4.4	2.6	1.5	0.9	0.5	0.3	0.2

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

**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	2.9	1.8	1.1	0.7	0.4	0.3	0.2	0.1	0.1	0.0	0.0
1	4.3 (3.0-5.0)	2.7 (1.9-3.1)	1.6 (1.2-1.9)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	6.3 (4.3-8.2)	4.0 (2.6-5.1)	2.5 (1.6-3.2)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
3	9.2 (6.4-12)	5.8 (4.0-7.9)	3.6 (2.5-5.0)	2.3 (1.5-3.1)	1.4 (0.9-2.0)	0.9 (0.6-1.2)	0.5 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
4	13 (10-18)	8.4 (6.3-12)	5.3 (4.0-7.5)	3.3 (2.5-4.7)	2.1 (1.5-3.0)	1.3 (0.9-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	19 (16-24)	12 (10-16)	7.7 (6.6-10)	4.8 (4.1-6.7)	3.0 (2.5-4.2)	1.9 (1.6-2.6)	1.2 (1.0-1.6)	0.7 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.2-0.3)
6	25	17	11	7.0	4.4	2.7	1.7	1.1	0.7	0.4	0.3

**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	2.9	1.9	1.2	0.8	0.5	0.3	0.2	0.2	0.1	0.1	0.0
1	4.7 (4.1-6.1)	3.1 (2.7-4.0)	2.0 (1.8-2.6)	1.3 (1.2-1.7)	0.9 (0.8-1.1)	0.6 (0.5-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)
2	7.5 (6.2-10)	5.0 (4.1-6.7)	3.3 (2.7-4.5)	2.2 (1.8-2.9)	1.4 (1.1-1.9)	0.9 (0.7-1.3)	0.6 (0.5-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	12 (9.3-15)	8.0 (6.2-10)	5.3 (4.1-6.8)	3.5 (2.7-4.5)	2.3 (1.8-3.0)	1.5 (1.2-2.0)	1.0 (0.8-1.3)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.2-0.3)
4	18 (14-21)	13 (9.4-15)	8.5 (6.3-10)	5.7 (4.2-6.8)	3.8 (2.8-4.5)	2.5 (1.8-3.0)	1.6 (1.2-2.0)	1.1 (0.8-1.3)	0.7 (0.5-0.9)	0.5 (0.4-0.6)	0.3 (0.2-0.4)
5	27 (21-29)	19 (15-21)	13 (10-15)	9.0 (6.8-10)	6.0 (4.6-6.8)	4.0 (3.0-4.5)	2.6 (2.0-3.0)	1.8 (1.3-2.0)	1.2 (0.9-1.4)	0.8 (0.6-0.9)	0.6 (0.4-0.6)
6	37	28	20	14	9.4	6.3	4.2	2.9	1.9	1.3	0.9

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

**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	3.2	2.2	1.5	1.1	0.7	0.5	0.4	0.3	0.2	0.1	0.1
1	6.0 (4.4-13)	4.2 (3.1-9.1)	3.0 (2.2-6.5)	2.1 (1.5-4.5)	1.4 (1.0-3.1)	1.0 (0.7-2.2)	0.7 (0.5-1.5)	0.5 (0.4-1.1)	0.3 (0.3-0.8)	0.2 (0.2-0.5)	0.2 (0.1-0.4)
2	11 (6.3-19)	7.6 (4.4-14)	5.4 (3.1-10)	3.8 (2.1-7.3)	2.7 (1.5-5.1)	1.8 (1.0-3.6)	1.3 (0.7-2.5)	0.9 (0.5-1.8)	0.7 (0.4-1.3)	0.5 (0.3-0.9)	0.3 (0.2-0.7)
3	17 (9.0-27)	13 (6.4-20)	9.3 (4.5-15)	6.6 (3.2-11)	4.7 (2.2-7.7)	3.3 (1.5-5.4)	2.3 (1.1-3.8)	1.6 (0.8-2.7)	1.2 (0.5-2.0)	0.8 (0.4-1.4)	0.6 (0.3-1.0)
4	27 (13-35)	20 (9.5-27)	15 (6.8-20)	11 (4.8-15)	7.9 (3.3-11)	5.6 (2.3-7.7)	3.9 (1.6-5.5)	2.8 (1.2-4.0)	2.0 (0.8-2.9)	1.5 (0.6-2.1)	1.1 (0.4-1.5)
5	38 (19-44)	30 (14-35)	23 (10-27)	18 (7.4-20)	13 (5.3-15)	9.2 (3.7-11)	6.6 (2.6-7.7)	4.8 (1.9-5.6)	3.5 (1.4-4.1)	2.5 (1.0-3.0)	1.8 (0.7-2.1)
6	51	43	34	27	20	15	11	7.8	5.7	4.2	3.0

**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	3.3	2.4	1.8	1.3	1.0	0.7	0.5	0.4	0.3	0.2	0.2
1	6.1 (4.3-13)	4.6 (3.2-10)	3.4 (2.4-7.5)	2.5 (1.7-5.6)	1.8 (1.3-4.1)	1.4 (0.9-3.0)	1.0 (0.7-2.2)	0.8 (0.5-1.7)	0.6 (0.4-1.3)	0.4 (0.3-1.0)	0.3 (0.2-0.7)
2	10 (5.9-19)	7.9 (4.4-15)	5.9 (3.3-11)	4.4 (2.4-8.4)	3.3 (1.8-6.3)	2.4 (1.3-4.7)	1.8 (1.0-3.5)	1.4 (0.7-2.7)	1.0 (0.6-2.0)	0.8 (0.4-1.6)	0.6 (0.3-1.2)
3	16 (8.2-26)	13 (6.2-21)	9.8 (4.6-16)	7.4 (3.4-12)	5.6 (2.5-9.4)	4.2 (1.9-7.1)	3.1 (1.4-5.3)	2.4 (1.1-4.1)	1.8 (0.8-3.1)	1.4 (0.6-2.4)	1.0 (0.5-1.8)
4	25 (12-34)	20 (8.9-27)	15 (6.7-22)	12 (5.1-17)	9.0 (3.8-13)	6.8 (2.8-9.8)	5.1 (2.1-7.4)	4.0 (1.6-5.7)	3.0 (1.2-4.4)	2.3 (0.9-3.3)	1.8 (0.7-2.5)
5	34 (17-40)	28 (13-33)	23 (9.9-27)	18 (7.5-21)	14 (5.7-17)	11 (4.3-13)	8.2 (3.2-9.9)	6.4 (2.5-7.7)	4.9 (1.9-6.0)	3.8 (1.4-4.6)	2.9 (1.1-3.5)
6	46	39	32	26	21	16	13	10	7.8	6.0	4.6

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

**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	3.3	2.6	2.0	1.5	1.2	0.9	0.7	0.6	0.5	0.4	0.3
1	5.9 (4.3-13)	4.7 (3.3-10)	3.7 (2.6-8.2)	2.9 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)	1.4 (1.0-3.1)	1.1 (0.8-2.5)	0.9 (0.6-2.0)	0.7 (0.5-1.6)	0.6 (0.4-1.3)
2	9.9 (5.5-19)	8.0 (4.4-15)	6.3 (3.4-12)	5.0 (2.7-9.6)	3.9 (2.1-7.6)	3.1 (1.6-5.9)	2.4 (1.3-4.7)	2.0 (1.0-3.8)	1.6 (0.8-3.0)	1.3 (0.7-2.4)	1.0 (0.5-2.0)
3	16 (7.7-25)	13 (6.1-20)	10 (4.8-17)	8.2 (3.8-13)	6.5 (3.0-11)	5.1 (2.3-8.6)	4.1 (1.8-6.9)	3.3 (1.5-5.6)	2.7 (1.2-4.6)	2.2 (1.0-3.7)	1.7 (0.8-3.0)
4	23 (11-31)	19 (8.5-27)	16 (6.8-22)	13 (5.4-18)	10 (4.2-15)	8.2 (3.3-12)	6.6 (2.7-9.6)	5.4 (2.2-7.8)	4.4 (1.7-6.4)	3.5 (1.4-5.2)	2.9 (1.1-4.2)
5	32 (15-37)	27 (12-32)	23 (9.9-27)	19 (7.9-23)	16 (6.3-19)	13 (5.0-15)	10 (4.0-12)	8.4 (3.3-10)	6.9 (2.6-8.2)	5.6 (2.1-6.7)	4.6 (1.7-5.5)
6	42	37	32	27	22	19	15	13	11	8.7	7.1

**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	3.0	2.5	2.0	1.6	1.3	1.1	0.9	0.8	0.6	0.5	0.4
1	5.4 (3.9-12)	4.5 (3.2-9.9)	3.7 (2.6-8.2)	3.0 (2.1-6.8)	2.5 (1.8-5.6)	2.0 (1.4-4.6)	1.7 (1.2-3.9)	1.4 (1.0-3.3)	1.2 (0.8-2.7)	1.0 (0.7-2.3)	0.8 (0.6-1.9)
2	9.1 (5.0-17)	7.6 (4.1-14)	6.3 (3.4-12)	5.2 (2.8-10)	4.3 (2.3-8.3)	3.6 (1.9-6.9)	3.0 (1.6-5.8)	2.5 (1.3-4.9)	2.1 (1.1-4.1)	1.8 (0.9-3.5)	1.5 (0.8-2.9)
3	14 (7.0-23)	12 (5.8-20)	10 (4.8-17)	8.5 (3.9-14)	7.1 (3.2-12)	5.9 (2.7-9.8)	5.0 (2.2-8.3)	4.2 (1.9-7.1)	3.6 (1.6-6.0)	3.0 (1.3-5.1)	2.5 (1.1-4.3)
4	21 (9.7-29)	18 (8.1-26)	16 (6.7-22)	13 (5.6-19)	11 (4.6-16)	9.3 (3.8-13)	7.9 (3.2-11)	6.7 (2.7-9.8)	5.7 (2.3-8.3)	4.9 (1.9-7.1)	4.1 (1.6-6.0)
5	30 (14-35)	26 (12-31)	23 (9.9-27)	20 (8.2-23)	17 (6.8-20)	14 (5.7-17)	12 (4.8-15)	10 (4.1-12)	8.9 (3.4-11)	7.6 (2.9-9.2)	6.5 (2.5-7.8)
6	40	36	32	28	24	21	18	16	13	12	10