

Ecuador - 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 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/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	2.9	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
1	4.7 (3.0-6.1)	2.4 (1.6-3.2)	1.2 (0.8-1.6)	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)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	7.4 (4.3-11)	3.8 (2.2-5.8)	2.0 (1.1-3.0)	1.0 (0.6-1.6)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
3	11 (6.5-18)	6.0 (3.4-9.9)	3.1 (1.7-5.2)	1.6 (0.9-2.7)	0.8 (0.5-1.4)	0.4 (0.2-0.7)	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 (0.0-0.1)	0.0 (0.0-0.0)
4	17 (11-27)	9.3 (5.8-15)	4.9 (3.0-7.8)	2.5 (1.5-4.0)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.0 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
5	26 (20-36)	14 (11-20)	7.5 (5.5-11)	3.9 (2.8-5.7)	2.0 (1.5-2.9)	1.0 (0.7-1.5)	0.5 (0.4-0.8)	0.3 (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)
6	37	21	11	6.0	3.1	1.6	0.8	0.4	0.2	0.1	0.1	0.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	2.7	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
1	4.3 (2.9-5.3)	2.3 (1.5-2.9)	1.3 (0.8-1.6)	0.7 (0.5-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	6.7 (4.1-9.7)	3.7 (2.2-5.3)	2.0 (1.2-2.9)	1.1 (0.6-1.6)	0.6 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
3	10 (6.1-16)	5.7 (3.3-9.0)	3.1 (1.8-4.9)	1.7 (1.0-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
4	16 (10-23)	8.7 (5.7-13)	4.8 (3.1-7.4)	2.6 (1.7-4.1)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
5	23 (18-31)	13 (10-18)	7.3 (5.7-10)	4.0 (3.1-5.7)	2.2 (1.7-3.1)	1.2 (0.9-1.7)	0.6 (0.5-0.9)	0.3 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
6	33	19	11	6.0	3.3	1.8	1.0	0.5	0.3	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	2.7	1.5	0.8	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.0
1	4.2 (2.8-4.9)	2.3 (1.6-2.8)	1.3 (0.9-1.6)	0.7 (0.5-0.9)	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)	0.0 (0.0-0.0)
2	6.4 (4.0-8.8)	3.6 (2.2-5.0)	2.0 (1.3-2.8)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	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)	0.0 (0.0-0.0)
3	9.7 (6.0-14)	5.5 (3.4-8.4)	3.1 (1.9-4.8)	1.8 (1.1-2.7)	1.0 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (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)
4	14 (10-21)	8.3 (5.8-13)	4.8 (3.3-7.2)	2.7 (1.8-4.1)	1.5 (1.0-2.3)	0.8 (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)
5	21 (18-29)	12 (10-17)	7.1 (5.9-10)	4.0 (3.3-5.8)	2.3 (1.9-3.3)	1.3 (1.0-1.8)	0.7 (0.6-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
6	30	18	11	6.0	3.4	1.9	1.1	0.6	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 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	2.8	1.6	0.9	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.0
1	4.2 (2.9-5.0)	2.5 (1.7-3.0)	1.4 (1.0-1.7)	0.8 (0.6-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	6.3 (4.1-8.3)	3.7 (2.4-4.9)	2.2 (1.4-2.9)	1.3 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
3	9.4 (6.2-13)	5.6 (3.6-8.1)	3.3 (2.1-4.8)	1.9 (1.2-2.8)	1.1 (0.7-1.6)	0.6 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
4	14 (10-20)	8.3 (6.0-12)	4.9 (3.5-7.2)	2.9 (2.1-4.3)	1.7 (1.2-2.5)	1.0 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
5	20 (17-27)	12 (10-17)	7.3 (5.9-10)	4.3 (3.5-6.0)	2.5 (2.0-3.5)	1.5 (1.2-2.1)	0.9 (0.7-1.2)	0.5 (0.4-0.8)	0.3 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	28	17	11	6.3	3.7	2.2	1.3	0.8	0.5	0.3	0.2

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	3.3	2.0	1.2	0.7	0.4	0.3	0.2	0.1	0.1	0.0	0.0
1	5.5 (4.6-6.9)	3.3 (2.8-4.2)	2.0 (1.7-2.6)	1.2 (1.0-1.6)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.2-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	9.0 (7.0-12)	5.5 (4.3-7.5)	3.4 (2.6-4.6)	2.1 (1.6-2.8)	1.3 (1.0-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	14 (11-19)	9.1 (6.5-12)	5.6 (4.0-7.5)	3.4 (2.4-4.6)	2.1 (1.5-2.8)	1.3 (0.9-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	23 (17-27)	15 (11-18)	9.1 (6.6-11)	5.7 (4.1-7.1)	3.5 (2.5-4.4)	2.1 (1.5-2.7)	1.4 (1.0-1.7)	0.9 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.2-0.3)
5	34 (28-38)	23 (18-26)	15 (12-17)	9.2 (7.2-11)	5.7 (4.4-6.6)	3.5 (2.7-4.1)	2.2 (1.7-2.6)	1.4 (1.1-1.7)	0.9 (0.7-1.0)	0.6 (0.4-0.7)	0.4 (0.3-0.4)
6	49	34	23	15	9.2	5.8	3.7	2.3	1.5	0.9	0.6

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	4.2	2.7	1.7	1.1	0.7	0.4	0.3	0.2	0.1	0.1	0.1
1	8.2 (5.9-17)	5.3 (3.8-11)	3.4 (2.4-7.2)	2.2 (1.5-4.6)	1.4 (1.0-2.9)	0.9 (0.6-1.9)	0.6 (0.4-1.3)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
2	15 (8.3-27)	9.7 (5.4-19)	6.3 (3.4-12)	4.1 (2.2-8.1)	2.6 (1.4-5.2)	1.7 (0.9-3.4)	1.1 (0.6-2.3)	0.7 (0.4-1.5)	0.5 (0.3-1.0)	0.3 (0.2-0.7)	0.2 (0.1-0.4)
3	25 (12-39)	17 (8.0-27)	11 (5.2-19)	7.4 (3.3-13)	4.8 (2.1-8.2)	3.2 (1.4-5.5)	2.1 (0.9-3.7)	1.4 (0.6-2.4)	0.9 (0.4-1.6)	0.6 (0.3-1.1)	0.4 (0.2-0.7)
4	38 (19-51)	28 (13-38)	19 (8.3-27)	13 (5.3-18)	8.4 (3.4-12)	5.6 (2.3-8.3)	3.7 (1.5-5.6)	2.5 (1.0-3.7)	1.6 (0.7-2.5)	1.1 (0.4-1.6)	0.7 (0.3-1.1)
5	54 (30-61)	42 (21-48)	30 (14-36)	21 (9.1-25)	14 (5.9-17)	9.6 (3.9-12)	6.5 (2.6-7.8)	4.3 (1.7-5.3)	2.9 (1.2-3.5)	1.9 (0.8-2.3)	1.3 (0.5-1.5)
6	70	59	45	33	23	16	11	7.4	4.9	3.3	2.2

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	5.2	3.5	2.3	1.6	1.0	0.7	0.5	0.3	0.2	0.2	0.1
1	9.7 (6.7-20)	6.7 (4.5-14)	4.5 (3.1-9.7)	3.0 (2.0-6.6)	2.1 (1.4-4.5)	1.4 (1.0-3.1)	1.0 (0.7-2.2)	0.7 (0.5-1.5)	0.5 (0.3-1.0)	0.3 (0.2-0.7)	0.2 (0.2-0.5)
2	17 (9.4-31)	12 (6.4-22)	8.2 (4.3-16)	5.6 (2.9-11)	3.8 (2.0-7.6)	2.7 (1.4-5.4)	1.9 (0.9-3.8)	1.3 (0.6-2.6)	0.9 (0.4-1.8)	0.6 (0.3-1.3)	0.4 (0.2-0.9)
3	27 (14-42)	20 (9.6-32)	14 (6.5-23)	9.7 (4.4-16)	6.7 (3.0-11)	4.7 (2.1-8.1)	3.3 (1.4-5.8)	2.3 (1.0-4.1)	1.6 (0.7-2.8)	1.1 (0.5-2.0)	0.8 (0.3-1.4)
4	40 (20-52)	30 (14-41)	22 (9.9-32)	16 (6.8-23)	11 (4.6-17)	8.1 (3.3-12)	5.7 (2.3-8.6)	4.0 (1.6-6.1)	2.8 (1.1-4.3)	2.0 (0.8-3.0)	1.4 (0.5-2.1)
5	54 (30-61)	44 (22-51)	34 (16-40)	25 (11-31)	18 (7.7-23)	13 (5.4-17)	9.5 (3.8-12)	6.8 (2.7-8.6)	4.8 (1.9-6.0)	3.3 (1.3-4.3)	2.3 (0.9-3.0)
6	67	58	48	37	28	21	15	11	7.9	5.6	3.9

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	6.0	4.3	3.0	2.2	1.6	1.1	0.8	0.6	0.4	0.3	0.2
1	11 (7.9-23)	8.0 (5.6-17)	5.8 (4.0-12)	4.1 (2.8-9.0)	3.0 (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)	0.6 (0.4-1.4)	0.5 (0.3-1.0)
2	18 (11-33)	14 (7.9-25)	10 (5.6-19)	7.4 (4.0-14)	5.5 (2.9-11)	4.1 (2.1-8.0)	3.0 (1.6-5.9)	2.2 (1.1-4.4)	1.6 (0.8-3.2)	1.2 (0.6-2.4)	0.9 (0.4-1.7)
3	28 (15-43)	22 (11-35)	17 (8.2-27)	12 (5.9-20)	9.3 (4.3-16)	7.0 (3.2-12)	5.2 (2.4-8.8)	3.9 (1.7-6.6)	2.9 (1.3-4.9)	2.1 (0.9-3.6)	1.5 (0.7-2.6)
4	40 (22-52)	33 (16-43)	26 (12-35)	20 (8.8-27)	15 (6.5-21)	12 (4.9-16)	8.7 (3.6-13)	6.5 (2.6-9.5)	4.9 (1.9-7.2)	3.6 (1.4-5.3)	2.6 (1.0-4.0)
5	53 (30-59)	45 (23-51)	37 (18-43)	29 (13-35)	23 (10-28)	18 (7.6-22)	14 (5.7-17)	11 (4.3-13)	8.0 (3.2-10)	6.0 (2.3-7.5)	4.4 (1.7-5.6)
6	64	57	49	41	34	27	22	17	13	9.7	7.3

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	6.0	4.5	3.4	2.6	2.0	1.5	1.2	0.9	0.7	0.6	0.4
1	11 (7.8-22)	8.3 (5.9-18)	6.3 (4.4-14)	4.8 (3.4-11)	3.8 (2.6-8.3)	3.0 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)	1.4 (0.9-3.1)	1.1 (0.7-2.4)	0.8 (0.6-1.8)
2	18 (11-31)	14 (8.1-25)	11 (6.2-20)	8.4 (4.7-16)	6.7 (3.7-13)	5.3 (2.9-10)	4.1 (2.2-8.0)	3.2 (1.7-6.3)	2.5 (1.3-4.9)	2.0 (1.0-3.8)	1.5 (0.8-3.0)
3	27 (14-41)	22 (11-34)	17 (8.6-28)	14 (6.7-22)	11 (5.3-18)	8.9 (4.1-15)	7.0 (3.2-12)	5.6 (2.5-9.4)	4.4 (2.0-7.4)	3.4 (1.5-5.8)	2.6 (1.2-4.5)
4	38 (20-49)	32 (16-42)	26 (13-36)	21 (9.8-29)	18 (7.8-24)	14 (6.2-20)	11 (4.9-16)	9.1 (3.8-13)	7.2 (3.0-10)	5.7 (2.3-8.1)	4.5 (1.8-6.4)
5	50 (28-56)	43 (23-49)	37 (18-42)	31 (14-36)	26 (12-31)	22 (9.3-26)	18 (7.4-21)	14 (5.9-17)	12 (4.6-14)	9.2 (3.6-11)	7.3 (2.8-9.0)
6	62	56	49	43	37	32	26	22	18	14	12