

Ecuador - 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 Ecuador. 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	0.7	0.6	0.5	0.5	0.4	0.4	0.3
1	1.1 (0.8-1.7)	0.9 (0.6-1.4)	0.9 (0.6-1.2)	0.7 (0.5-1.0)	0.7 (0.4-0.9)	0.6 (0.4-0.8)	0.5 (0.3-0.7)
2	1.8 (1.0-3.0)	1.5 (0.8-2.5)	1.4 (0.7-2.3)	1.2 (0.6-2.0)	1.0 (0.5-1.8)	0.9 (0.5-1.5)	0.8 (0.4-1.3)
3	3.0 (1.5-5.1)	2.4 (1.2-4.3)	2.1 (1.0-3.9)	1.8 (0.9-3.4)	1.6 (0.7-2.9)	1.4 (0.6-2.5)	1.2 (0.6-2.2)
4	4.8 (2.5-7.5)	3.8 (2.1-6.1)	3.2 (1.7-5.4)	2.8 (1.5-4.6)	2.4 (1.3-4.0)	2.1 (1.1-3.5)	1.8 (0.9-3.0)
5	7.7 (4.4-9.9)	5.9 (3.6-7.8)	4.9 (3.2-6.6)	4.2 (2.7-5.7)	3.6 (2.4-4.9)	3.1 (2.1-4.3)	2.7 (1.8-3.7)
6	12	9.2	7.5	6.4	5.5	4.7	4.0

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.8	0.7	0.7	0.6	0.5	0.4	0.4
1	1.4 (1.0-2.1)	1.2 (0.8-1.6)	1.0 (0.7-1.4)	0.9 (0.6-1.2)	0.8 (0.5-1.1)	0.7 (0.5-0.9)	0.6 (0.4-0.8)
2	2.3 (1.3-3.7)	1.9 (1.0-3.0)	1.6 (0.9-2.7)	1.4 (0.8-2.4)	1.2 (0.7-2.1)	1.0 (0.6-1.8)	0.9 (0.5-1.6)
3	3.7 (2.0-6.2)	3.0 (1.5-5.1)	2.5 (1.3-4.5)	2.2 (1.1-3.9)	1.9 (0.9-3.4)	1.6 (0.8-2.9)	1.4 (0.7-2.6)
4	6.0 (3.3-9.2)	4.7 (2.7-7.3)	3.9 (2.2-6.3)	3.3 (1.8-5.4)	2.8 (1.6-4.7)	2.4 (1.3-4.1)	2.1 (1.1-3.5)
5	9.6 (5.9-12)	7.3 (4.6-9.4)	5.9 (3.9-7.9)	5.1 (3.4-6.7)	4.3 (2.9-5.8)	3.7 (2.5-5.0)	3.2 (2.1-4.3)
6	15	11	9.0	7.6	6.5	5.5	4.7

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.1	0.9	0.8	0.7	0.6	0.5	0.5
1	1.8 (1.3-2.6)	1.5 (1.1-2.0)	1.3 (0.9-1.7)	1.1 (0.8-1.5)	0.9 (0.7-1.3)	0.8 (0.6-1.1)	0.7 (0.5-0.9)
2	3.0 (1.8-4.7)	2.4 (1.4-3.6)	2.0 (1.1-3.2)	1.7 (1.0-2.8)	1.5 (0.8-2.4)	1.3 (0.7-2.1)	1.1 (0.6-1.8)
3	4.8 (2.8-7.5)	3.7 (2.1-6.2)	3.1 (1.6-5.4)	2.7 (1.4-4.7)	2.3 (1.2-4.0)	2.0 (1.0-3.5)	1.7 (0.9-3.0)
4	7.7 (4.4-11)	5.9 (3.5-8.9)	4.8 (2.9-7.6)	4.1 (2.4-6.5)	3.5 (2.0-5.6)	3.0 (1.7-4.8)	2.5 (1.5-4.1)
5	12 (8.0-15)	9.1 (6.1-12)	7.3 (5.0-9.5)	6.2 (4.3-8.1)	5.2 (3.6-7.0)	4.5 (3.1-6.0)	3.8 (2.7-5.1)
6	19	14	11	9.3	7.9	6.7	5.7

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.6	1.3	1.1	1.0	0.8	0.7	0.6
1	2.6 (1.9-3.5)	2.1 (1.5-2.7)	1.8 (1.3-2.3)	1.5 (1.1-2.0)	1.3 (0.9-1.7)	1.1 (0.8-1.4)	1.0 (0.7-1.2)
2	4.1 (2.7-6.2)	3.2 (2.0-4.8)	2.7 (1.6-4.3)	2.3 (1.4-3.7)	2.0 (1.1-3.2)	1.7 (1.0-2.8)	1.5 (0.8-2.4)
3	6.6 (4.2-9.7)	5.1 (3.0-8.0)	4.2 (2.4-7.1)	3.6 (2.0-6.1)	3.1 (1.7-5.2)	2.6 (1.4-4.5)	2.2 (1.2-3.9)
4	10 (6.4-15)	7.9 (5.0-12)	6.4 (4.1-9.9)	5.4 (3.5-8.5)	4.6 (2.9-7.3)	3.9 (2.4-6.3)	3.4 (2.0-5.4)
5	16 (11-20)	12 (8.6-15)	9.7 (7.0-12)	8.2 (5.9-11)	6.9 (5.0-9.1)	5.9 (4.3-7.8)	5.0 (3.6-6.7)
6	24	18	14	12	10	8.7	7.4

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.6	2.1	1.8	1.5	1.3	1.1	0.9
1	4.1 (3.1-5.1)	3.2 (2.4-4.0)	2.7 (2.0-3.4)	2.3 (1.7-2.9)	1.9 (1.4-2.5)	1.6 (1.2-2.1)	1.4 (1.0-1.8)
2	6.7 (4.3-9.2)	5.0 (3.2-7.0)	4.1 (2.6-5.8)	3.4 (2.1-4.9)	2.9 (1.8-4.1)	2.4 (1.5-3.5)	2.1 (1.3-3.0)
3	11 (6.9-16)	8.0 (5.0-12)	6.2 (3.8-9.6)	5.2 (3.2-8.1)	4.4 (2.6-6.8)	3.7 (2.2-5.7)	3.1 (1.9-4.8)
4	17 (12-25)	13 (8.8-18)	9.6 (6.7-14)	8.0 (5.5-12)	6.6 (4.6-9.9)	5.5 (3.8-8.3)	4.6 (3.1-7.0)
5	27 (22-33)	20 (16-25)	15 (12-19)	12 (9.8-16)	10 (8.0-13)	8.4 (6.6-11)	7.0 (5.5-9.1)
6	40	30	23	19	16	13	11

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.1	3.3	2.8	2.3	2.0	1.7	1.4
1	6.9 (5.0-10)	5.3 (3.9-7.1)	4.2 (3.1-5.1)	3.5 (2.6-4.3)	3.0 (2.2-3.6)	2.5 (1.8-3.1)	2.1 (1.5-2.6)
2	12 (7.0-18)	8.7 (5.3-13)	6.6 (4.1-9.1)	5.5 (3.4-7.5)	4.5 (2.8-6.1)	3.8 (2.4-5.1)	3.1 (2.0-4.2)
3	19 (11-29)	14 (8.3-22)	11 (6.3-16)	8.6 (5.2-13)	7.1 (4.3-11)	5.8 (3.5-8.7)	4.8 (2.9-7.2)
4	30 (18-42)	23 (14-33)	17 (11-24)	14 (8.8-20)	11 (7.2-16)	9.1 (5.9-13)	7.4 (4.9-11)
5	44 (30-53)	35 (24-43)	26 (19-33)	22 (15-27)	18 (13-22)	14 (11-18)	12 (8.7-15)
6	59	51	40	33	28	23	18

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.0	4.9	4.1	3.4	2.8	2.4	2.0
1	10 (7.1-16)	7.9 (5.7-11)	6.3 (4.7-8.3)	5.2 (3.8-6.7)	4.3 (3.1-5.4)	3.5 (2.6-4.4)	2.9 (2.1-3.5)
2	16 (10-25)	13 (7.9-19)	9.9 (6.3-14)	8.1 (5.1-11)	6.6 (4.2-9.2)	5.4 (3.4-7.4)	4.4 (2.8-6.0)
3	25 (15-36)	20 (12-29)	15 (9.7-22)	13 (7.9-18)	10 (6.4-15)	8.3 (5.2-12)	6.7 (4.3-9.6)
4	36 (22-47)	30 (19-41)	24 (15-33)	19 (13-27)	16 (10-22)	13 (8.4-18)	10 (6.8-15)
5	48 (33-57)	42 (29-51)	35 (24-43)	29 (20-36)	24 (16-30)	19 (13-25)	16 (11-20)
6	60	56	49	42	35	29	24

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.1	6.9	6.0	4.9	4.1	3.3	2.8
1	13 (9.0-21)	11 (7.8-17)	9.3 (6.7-13)	7.6 (5.5-10)	6.2 (4.4-8.3)	5.0 (3.6-6.7)	4.1 (2.9-5.4)
2	20 (13-31)	17 (11-26)	14 (9.1-21)	12 (7.4-17)	9.5 (6.0-13)	7.7 (4.8-11)	6.2 (3.9-8.6)
3	29 (18-42)	26 (16-37)	22 (14-31)	18 (11-25)	14 (9.0-21)	12 (7.2-17)	9.4 (5.8-13)
4	40 (25-52)	36 (23-48)	32 (21-43)	26 (17-36)	22 (14-30)	18 (11-25)	14 (8.9-20)
5	51 (36-60)	48 (34-57)	44 (31-53)	37 (26-46)	31 (21-39)	26 (17-33)	21 (14-27)
6	63	60	57	50	43	36	30

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.5	8.8	8.4	6.9	5.6	4.6	3.8
1	15 (10-24)	14 (9.5-21)	13 (8.9-18)	10 (7.2-14)	8.3 (5.8-11)	6.8 (4.7-9.0)	5.5 (3.8-7.2)
2	23 (14-35)	21 (13-31)	19 (12-27)	15 (9.6-22)	12 (7.7-18)	10 (6.2-14)	8.0 (5.0-11)
3	32 (20-46)	29 (18-42)	27 (17-38)	22 (13-31)	18 (11-26)	15 (8.6-21)	12 (6.8-17)
4	43 (28-56)	40 (26-52)	37 (25-48)	31 (20-41)	26 (16-35)	21 (13-29)	17 (11-24)
5	55 (39-63)	52 (37-60)	49 (35-58)	42 (29-51)	36 (24-44)	30 (20-38)	24 (16-31)
6	65	63	60	54	47	40	34