

Morocco - 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 Morocco. 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	1.1	1.0	1.0	0.8	0.7	0.6	0.6
1	1.9 (1.3-2.9)	1.6 (1.1-2.4)	1.5 (1.0-2.1)	1.3 (0.9-1.8)	1.2 (0.8-1.6)	1.0 (0.7-1.4)	0.9 (0.6-1.2)
2	3.1 (1.7-5.1)	2.6 (1.4-4.4)	2.4 (1.3-4.1)	2.1 (1.1-3.6)	1.8 (0.9-3.1)	1.6 (0.8-2.7)	1.4 (0.7-2.4)
3	5.1 (2.5-8.7)	4.2 (2.0-7.4)	3.7 (1.7-6.8)	3.2 (1.5-5.9)	2.8 (1.3-5.1)	2.4 (1.1-4.5)	2.1 (1.0-3.9)
4	8.1 (4.3-13)	6.5 (3.5-10)	5.6 (3.0-9.3)	4.9 (2.6-8.1)	4.2 (2.2-7.0)	3.6 (1.9-6.1)	3.2 (1.6-5.3)
5	13 (7.5-16)	10 (6.2-13)	8.5 (5.5-11)	7.3 (4.8-9.8)	6.3 (4.2-8.5)	5.4 (3.6-7.4)	4.7 (3.1-6.4)
6	20	15	13	11	9.4	8.1	7.0

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.8	1.6	1.4	1.2	1.1	0.9	0.8
1	2.9 (2.1-4.3)	2.5 (1.7-3.5)	2.3 (1.5-3.1)	2.0 (1.3-2.7)	1.7 (1.2-2.3)	1.5 (1.0-2.0)	1.3 (0.9-1.7)
2	4.8 (2.7-7.6)	4.0 (2.2-6.4)	3.5 (1.9-5.9)	3.0 (1.6-5.1)	2.6 (1.4-4.5)	2.3 (1.2-3.9)	2.0 (1.1-3.4)
3	7.6 (4.1-13)	6.2 (3.2-11)	5.4 (2.7-9.6)	4.7 (2.3-8.4)	4.0 (2.0-7.3)	3.5 (1.7-6.4)	3.0 (1.5-5.5)
4	12 (6.8-18)	9.6 (5.6-15)	8.2 (4.6-13)	7.1 (3.9-11)	6.1 (3.3-10)	5.3 (2.9-8.7)	4.6 (2.5-7.5)
5	19 (12-24)	15 (9.6-19)	12 (8.3-16)	11 (7.2-14)	9.1 (6.2-12)	7.8 (5.4-11)	6.8 (4.6-9.1)
6	28	22	18	16	13	12	10

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.8	2.4	2.1	1.8	1.6	1.4	1.2
1	4.5 (3.2-6.3)	3.7 (2.6-5.1)	3.3 (2.3-4.5)	2.9 (2.0-3.8)	2.5 (1.7-3.3)	2.1 (1.5-2.8)	1.9 (1.3-2.5)
2	7.2 (4.4-11)	5.9 (3.4-9.1)	5.2 (2.9-8.3)	4.4 (2.5-7.2)	3.8 (2.1-6.3)	3.3 (1.8-5.5)	2.8 (1.6-4.8)
3	11 (6.7-18)	9.1 (5.1-15)	7.9 (4.1-13)	6.8 (3.5-12)	5.8 (3.0-10)	5.0 (2.6-8.8)	4.3 (2.2-7.7)
4	18 (11-25)	14 (8.6-21)	12 (7.1-18)	10 (6.0-16)	8.7 (5.1-14)	7.5 (4.3-12)	6.5 (3.7-10)
5	26 (18-33)	21 (14-26)	18 (12-23)	15 (11-20)	13 (9.1-17)	11 (7.8-15)	9.5 (6.7-13)
6	39	31	25	22	19	16	14

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.9	3.2	2.9	2.5	2.1	1.8	1.6
1	6.2 (4.6-8.4)	5.1 (3.7-6.7)	4.5 (3.2-5.8)	3.8 (2.7-4.9)	3.3 (2.3-4.2)	2.8 (2.0-3.6)	2.4 (1.7-3.1)
2	9.8 (6.4-14)	7.9 (4.9-12)	6.8 (4.0-11)	5.8 (3.4-9.1)	5.0 (2.9-7.9)	4.3 (2.4-6.8)	3.7 (2.1-5.9)
3	15 (9.9-22)	12 (7.5-19)	10 (5.9-17)	8.8 (5.0-15)	7.5 (4.2-13)	6.4 (3.5-11)	5.5 (3.0-9.4)
4	23 (15-31)	18 (12-26)	15 (10-23)	13 (8.4-20)	11 (7.0-17)	9.5 (5.9-15)	8.2 (4.9-13)
5	33 (24-40)	27 (20-33)	22 (17-28)	19 (14-25)	16 (12-21)	14 (10-18)	12 (8.7-16)
6	45	38	32	27	23	20	17

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	4.1	3.6	3.1	2.6	2.2	1.9
1	7.9 (5.8-9.8)	6.4 (4.7-8.1)	5.5 (4.0-7.0)	4.6 (3.4-5.9)	3.9 (2.8-5.0)	3.3 (2.4-4.3)	2.8 (2.0-3.7)
2	12 (8.1-17)	9.9 (6.4-14)	8.2 (5.2-12)	6.9 (4.4-9.7)	5.8 (3.6-8.2)	4.9 (3.0-6.9)	4.1 (2.6-5.9)
3	19 (13-27)	15 (9.9-22)	12 (7.8-19)	10 (6.5-16)	8.7 (5.4-13)	7.3 (4.5-11)	6.1 (3.7-9.4)
4	29 (20-39)	23 (16-33)	19 (13-27)	16 (11-23)	13 (8.8-19)	11 (7.3-16)	9.0 (6.0-13)
5	41 (35-50)	34 (28-42)	28 (23-34)	23 (19-29)	19 (15-25)	16 (13-21)	13 (10-17)
6	55	48	40	34	28	24	20

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.0	5.1	4.5	3.8	3.2	2.7	2.3
1	9.8 (6.8-15)	8.1 (5.8-11)	6.9 (5.0-8.5)	5.7 (4.1-6.9)	4.8 (3.4-5.8)	4.0 (2.9-4.9)	3.3 (2.4-4.1)
2	16 (9.5-24)	13 (7.9-19)	11 (6.6-15)	8.7 (5.4-12)	7.2 (4.5-10)	5.9 (3.7-8.2)	4.9 (3.1-6.8)
3	24 (14-36)	20 (12-29)	16 (10-24)	13 (8.2-20)	11 (6.7-16)	9.0 (5.5-13)	7.3 (4.5-11)
4	35 (22-48)	30 (19-42)	25 (16-35)	20 (13-29)	17 (11-24)	14 (8.6-20)	11 (7.0-16)
5	48 (34-58)	43 (30-53)	37 (26-45)	31 (22-38)	25 (18-32)	21 (15-27)	17 (12-22)
6	60	57	51	44	37	31	25

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.9	6.1	5.5	4.5	3.7	3.1	2.6
1	11 (7.6-17)	9.6 (6.8-14)	8.3 (6.0-11)	6.8 (4.9-8.9)	5.6 (4.0-7.2)	4.6 (3.3-5.8)	3.8 (2.7-4.7)
2	17 (11-27)	15 (9.3-22)	13 (8.0-18)	10 (6.5-14)	8.4 (5.3-11)	6.8 (4.3-9.3)	5.6 (3.5-7.6)
3	25 (15-37)	22 (14-32)	19 (12-27)	16 (9.8-22)	13 (7.9-18)	10 (6.4-14)	8.3 (5.2-12)
4	35 (22-47)	32 (20-43)	28 (18-38)	23 (15-32)	19 (12-26)	15 (9.7-22)	12 (7.8-18)
5	47 (32-56)	43 (30-52)	39 (27-48)	33 (23-41)	27 (19-34)	22 (15-29)	18 (13-24)
6	58	55	52	45	38	32	26

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.4	6.8	6.2	5.0	4.1	3.4	2.7
1	12 (8.1-19)	11 (7.4-17)	9.6 (6.7-14)	7.7 (5.4-11)	6.2 (4.3-8.7)	5.0 (3.5-6.9)	4.1 (2.8-5.5)
2	18 (11-29)	16 (10-25)	15 (9.2-21)	12 (7.3-17)	9.5 (5.9-14)	7.6 (4.7-11)	6.1 (3.8-8.7)
3	27 (16-39)	24 (14-35)	22 (13-31)	18 (11-25)	14 (8.4-21)	11 (6.7-17)	9.1 (5.3-14)
4	37 (23-49)	34 (21-45)	31 (20-41)	26 (16-35)	21 (13-29)	17 (10-24)	14 (8.2-19)
5	48 (33-57)	45 (31-54)	42 (29-51)	35 (24-44)	30 (20-37)	24 (16-31)	20 (13-26)
6	59	56	53	47	40	34	28

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.7	7.1	6.5	5.2	4.1	3.3	2.7
1	12 (8.4-20)	11 (7.7-18)	10 (7.0-16)	8.1 (5.6-12)	6.4 (4.4-9.7)	5.1 (3.5-7.6)	4.1 (2.7-5.9)
2	19 (12-31)	17 (11-28)	16 (9.8-24)	12 (7.7-19)	9.9 (6.1-15)	7.9 (4.8-12)	6.2 (3.8-9.6)
3	28 (16-41)	25 (15-37)	23 (14-34)	19 (11-28)	15 (8.5-23)	12 (6.7-18)	9.5 (5.2-15)
4	38 (23-50)	35 (22-47)	32 (20-43)	27 (16-36)	22 (13-30)	18 (10-25)	14 (8.3-20)
5	49 (34-57)	46 (32-55)	43 (30-52)	37 (24-45)	31 (20-39)	25 (16-33)	21 (13-27)
6	59	57	55	48	41	35	29