

Morocco - 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 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	0.8	0.8	0.8	0.7	0.6	0.5	0.4
1	1.3 (0.9-2.0)	1.2 (0.8-1.8)	1.2 (0.8-1.7)	1.0 (0.7-1.4)	0.9 (0.6-1.2)	0.8 (0.5-1.1)	0.7 (0.5-0.9)
2	2.1 (1.1-3.6)	1.9 (1.0-3.4)	1.8 (1.0-3.2)	1.6 (0.8-2.8)	1.4 (0.7-2.5)	1.2 (0.6-2.1)	1.0 (0.5-1.9)
3	3.4 (1.7-5.9)	3.0 (1.5-5.4)	2.8 (1.3-5.2)	2.4 (1.1-4.5)	2.1 (1.0-3.9)	1.8 (0.9-3.4)	1.6 (0.7-3.0)
4	5.3 (2.8-8.5)	4.6 (2.4-7.6)	4.3 (2.2-7.1)	3.7 (1.9-6.2)	3.2 (1.6-5.3)	2.7 (1.4-4.6)	2.4 (1.2-4.0)
5	8.2 (4.8-11)	7.0 (4.4-9.5)	6.3 (4.2-8.6)	5.5 (3.6-7.5)	4.7 (3.1-6.5)	4.1 (2.7-5.6)	3.5 (2.3-4.9)
6	13	11	9.4	8.0	6.9	5.9	5.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.1	1.1	1.0	0.9	0.8	0.7	0.6
1	1.8 (1.2-2.7)	1.7 (1.1-2.3)	1.6 (1.1-2.2)	1.4 (0.9-1.9)	1.2 (0.8-1.6)	1.0 (0.7-1.4)	0.9 (0.6-1.2)
2	2.9 (1.6-4.6)	2.6 (1.4-4.3)	2.4 (1.3-4.2)	2.1 (1.1-3.6)	1.8 (1.0-3.2)	1.6 (0.8-2.8)	1.4 (0.7-2.4)
3	4.5 (2.4-7.4)	4.0 (2.0-6.9)	3.7 (1.8-6.7)	3.2 (1.6-5.8)	2.7 (1.3-5.0)	2.4 (1.2-4.3)	2.0 (1.0-3.8)
4	6.9 (4.0-11)	6.1 (3.4-9.7)	5.6 (3.0-9.1)	4.8 (2.6-7.9)	4.1 (2.2-6.8)	3.5 (1.8-5.9)	3.0 (1.6-5.1)
5	11 (6.5-14)	9.1 (5.9-12)	8.3 (5.5-11)	7.1 (4.7-9.6)	6.1 (4.1-8.3)	5.2 (3.5-7.2)	4.5 (3.0-6.2)
6	16	14	12	10	8.8	7.6	6.5

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	1.4	1.4	1.2	1.0	0.9	0.7
1	2.4 (1.7-3.5)	2.2 (1.5-3.1)	2.1 (1.4-2.8)	1.8 (1.2-2.4)	1.5 (1.0-2.1)	1.3 (0.9-1.8)	1.1 (0.8-1.5)
2	3.7 (2.2-5.8)	3.4 (1.9-5.5)	3.2 (1.8-5.3)	2.7 (1.5-4.6)	2.3 (1.3-4.0)	2.0 (1.1-3.4)	1.7 (0.9-3.0)
3	5.8 (3.4-9.0)	5.2 (2.9-8.5)	4.8 (2.5-8.3)	4.1 (2.1-7.2)	3.5 (1.8-6.2)	3.0 (1.5-5.3)	2.6 (1.3-4.6)
4	8.8 (5.5-13)	7.8 (4.7-12)	7.2 (4.1-11)	6.1 (3.4-9.8)	5.2 (2.9-8.5)	4.4 (2.4-7.3)	3.8 (2.0-6.3)
5	13 (8.4-17)	12 (7.7-15)	11 (7.3-14)	9.0 (6.2-12)	7.6 (5.2-10)	6.5 (4.5-8.9)	5.5 (3.8-7.6)
6	19	17	15	13	11	9.3	7.9

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.7	1.6	1.4	1.2	1.0	0.9
1	2.9 (2.0-4.0)	2.6 (1.9-3.6)	2.5 (1.7-3.3)	2.1 (1.4-2.8)	1.8 (1.2-2.4)	1.5 (1.0-2.0)	1.3 (0.9-1.7)
2	4.5 (2.8-6.6)	4.1 (2.5-6.2)	3.8 (2.2-6.1)	3.2 (1.8-5.2)	2.7 (1.5-4.5)	2.3 (1.3-3.8)	1.9 (1.1-3.3)
3	6.7 (4.3-9.8)	6.1 (3.8-9.4)	5.7 (3.2-9.2)	4.8 (2.7-7.9)	4.0 (2.2-6.7)	3.4 (1.9-5.7)	2.9 (1.6-4.9)
4	10 (6.5-14)	9.1 (5.9-14)	8.4 (5.2-13)	7.0 (4.3-11)	5.9 (3.5-9.3)	5.0 (2.9-7.9)	4.2 (2.4-6.8)
5	15 (9.9-19)	13 (9.2-17)	12 (8.6-16)	10 (7.2-14)	8.5 (6.0-12)	7.2 (5.1-9.8)	6.0 (4.2-8.4)
6	21	19	17	15	12	10	8.6

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.1	1.9	1.8	1.5	1.3	1.1	0.9
1	3.3 (2.3-4.2)	3.0 (2.1-3.8)	2.7 (2.0-3.6)	2.3 (1.6-3.0)	1.9 (1.3-2.5)	1.6 (1.1-2.1)	1.3 (0.9-1.8)
2	5.1 (3.2-7.8)	4.5 (2.9-6.8)	4.1 (2.6-6.0)	3.4 (2.1-5.0)	2.8 (1.7-4.1)	2.3 (1.4-3.5)	1.9 (1.2-2.9)
3	7.9 (4.7-12)	7.0 (4.3-10)	6.2 (3.9-9.3)	5.1 (3.2-7.6)	4.1 (2.6-6.3)	3.4 (2.1-5.2)	2.8 (1.7-4.3)
4	12 (7.6-18)	11 (6.8-16)	9.3 (6.0-14)	7.6 (4.8-11)	6.2 (3.9-9.3)	5.0 (3.2-7.6)	4.1 (2.6-6.3)
5	18 (14-24)	16 (13-21)	14 (11-18)	11 (8.7-15)	9.1 (7.0-12)	7.4 (5.6-10)	6.0 (4.5-8.2)
6	26	23	20	17	14	11	8.8

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.3	2.2	2.1	1.7	1.4	1.2	1.0
1	3.9 (2.5-6.2)	3.5 (2.4-5.2)	3.2 (2.2-4.3)	2.6 (1.8-3.4)	2.1 (1.5-2.7)	1.7 (1.2-2.2)	1.4 (1.0-1.8)
2	6.4 (3.5-11)	5.6 (3.3-9.2)	5.0 (3.0-7.6)	4.0 (2.4-6.1)	3.2 (1.9-4.9)	2.6 (1.6-3.9)	2.1 (1.3-3.1)
3	10 (5.1-17)	9.0 (4.7-15)	7.8 (4.4-12)	6.2 (3.5-9.6)	5.0 (2.8-7.7)	4.0 (2.2-6.1)	3.2 (1.8-4.9)
4	16 (8.3-24)	14 (7.5-21)	12 (6.9-18)	9.7 (5.5-15)	7.7 (4.3-12)	6.1 (3.4-9.2)	4.8 (2.7-7.3)
5	24 (14-31)	21 (13-28)	19 (12-25)	15 (9.6-20)	12 (7.7-16)	9.4 (6.2-13)	7.4 (4.9-10)
6	34	31	27	22	18	14	11

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.7	2.6	2.4	2.0	1.6	1.3	1.1
1	4.5 (3.0-7.6)	4.1 (2.8-6.6)	3.8 (2.6-5.5)	3.0 (2.1-4.3)	2.4 (1.6-3.4)	1.9 (1.3-2.7)	1.6 (1.1-2.1)
2	7.3 (4.1-13)	6.6 (3.8-11)	5.9 (3.6-8.9)	4.6 (2.8-7.0)	3.7 (2.2-5.5)	2.9 (1.8-4.3)	2.3 (1.4-3.4)
3	11 (6.0-18)	10 (5.5-16)	9.1 (5.1-14)	7.2 (4.0-11)	5.6 (3.2-8.6)	4.5 (2.5-6.8)	3.5 (2.0-5.4)
4	17 (9.2-25)	16 (8.5-22)	14 (8.1-20)	11 (6.4-16)	8.6 (5.0-13)	6.8 (3.9-9.9)	5.3 (3.1-7.8)
5	25 (15-32)	23 (13-30)	20 (13-27)	16 (10-22)	13 (7.9-17)	10 (6.3-14)	8.0 (5.0-11)
6	35	32	29	24	19	15	12

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.2	3.0	2.8	2.2	1.7	1.4	1.1
1	5.4 (3.5-9.3)	4.8 (3.2-8.1)	4.4 (3.0-6.9)	3.5 (2.3-5.4)	2.7 (1.8-4.2)	2.2 (1.4-3.2)	1.7 (1.1-2.5)
2	8.7 (4.9-15)	7.8 (4.4-13)	7.0 (4.2-11)	5.5 (3.2-8.8)	4.3 (2.5-6.8)	3.3 (2.0-5.3)	2.6 (1.5-4.1)
3	14 (7.2-22)	12 (6.4-19)	11 (5.9-17)	8.5 (4.6-13)	6.7 (3.5-11)	5.2 (2.7-8.2)	4.0 (2.1-6.4)
4	20 (11-29)	18 (9.8-26)	16 (9.1-23)	13 (7.2-19)	10 (5.6-15)	8.0 (4.4-12)	6.2 (3.4-9.1)
5	29 (17-37)	26 (16-34)	24 (14-31)	19 (11-25)	15 (8.9-20)	12 (7.0-16)	9.4 (5.5-13)
6	40	36	33	27	22	18	14

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.8	3.4	3.1	2.4	1.9	1.5	1.2
1	6.5 (4.2-11)	5.7 (3.8-9.9)	5.1 (3.4-8.5)	4.0 (2.6-6.6)	3.1 (2.0-5.0)	2.4 (1.6-3.9)	1.9 (1.2-3.0)
2	10 (6.0-18)	9.3 (5.3-16)	8.3 (4.8-14)	6.4 (3.7-11)	5.0 (2.8-8.4)	3.8 (2.2-6.4)	3.0 (1.7-4.9)
3	16 (8.7-26)	14 (7.7-23)	13 (6.9-20)	10 (5.3-16)	7.8 (4.1-13)	6.1 (3.1-9.9)	4.7 (2.4-7.7)
4	24 (13-34)	22 (12-31)	19 (11-28)	15 (8.2-22)	12 (6.4-18)	9.4 (4.9-14)	7.3 (3.8-11)
5	34 (20-42)	31 (18-39)	28 (17-35)	22 (13-29)	18 (10-24)	14 (8.0-19)	11 (6.2-15)
6	44	41	38	32	26	21	17