

Tunisia - 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 Tunisia. 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	0.5	0.5	0.4	0.4	0.3	0.3	0.3
1	0.8 (0.6-1.3)	0.7 (0.5-1.1)	0.7 (0.5-1.0)	0.6 (0.4-0.8)	0.5 (0.3-0.7)	0.4 (0.3-0.6)	0.4 (0.3-0.5)
2	1.4 (0.7-2.3)	1.2 (0.6-2.0)	1.1 (0.6-1.9)	0.9 (0.5-1.6)	0.8 (0.4-1.4)	0.7 (0.4-1.2)	0.6 (0.3-1.1)
3	2.2 (1.1-3.9)	1.9 (0.9-3.3)	1.7 (0.8-3.1)	1.4 (0.7-2.7)	1.2 (0.6-2.3)	1.1 (0.5-2.0)	0.9 (0.4-1.8)
4	3.6 (1.9-5.7)	2.9 (1.6-4.7)	2.5 (1.3-4.2)	2.2 (1.1-3.7)	1.9 (1.0-3.2)	1.6 (0.8-2.7)	1.4 (0.7-2.4)
5	5.7 (3.3-7.4)	4.5 (2.8-6.0)	3.8 (2.5-5.2)	3.3 (2.1-4.5)	2.8 (1.9-3.9)	2.4 (1.6-3.3)	2.1 (1.4-2.9)
6	9.0	7.0	5.8	5.0	4.2	3.6	3.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.7	0.6	0.6	0.5	0.4	0.4	0.3
1	1.1 (0.8-1.6)	1.0 (0.7-1.4)	0.9 (0.6-1.2)	0.8 (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 (1.0-2.9)	1.5 (0.8-2.5)	1.4 (0.7-2.3)	1.2 (0.6-2.0)	1.0 (0.5-1.7)	0.9 (0.5-1.5)	0.8 (0.4-1.3)
3	2.9 (1.6-4.8)	2.4 (1.2-4.2)	2.1 (1.0-3.8)	1.8 (0.9-3.3)	1.6 (0.8-2.9)	1.3 (0.7-2.5)	1.2 (0.6-2.1)
4	4.7 (2.6-7.2)	3.8 (2.2-6.0)	3.2 (1.8-5.3)	2.8 (1.5-4.6)	2.4 (1.3-3.9)	2.0 (1.1-3.4)	1.8 (0.9-2.9)
5	7.4 (4.5-9.5)	5.8 (3.7-7.6)	4.9 (3.2-6.6)	4.2 (2.8-5.6)	3.6 (2.4-4.8)	3.1 (2.1-4.2)	2.6 (1.8-3.6)
6	12	8.9	7.4	6.3	5.3	4.5	3.9

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.0	0.8	0.8	0.7	0.6	0.5	0.4
1	1.5 (1.1-2.2)	1.3 (0.9-1.8)	1.2 (0.8-1.6)	1.0 (0.7-1.4)	0.9 (0.6-1.2)	0.8 (0.5-1.0)	0.7 (0.5-0.9)
2	2.5 (1.5-3.8)	2.1 (1.2-3.3)	1.9 (1.0-3.1)	1.6 (0.9-2.7)	1.4 (0.8-2.3)	1.2 (0.6-2.0)	1.0 (0.6-1.7)
3	3.9 (2.3-6.1)	3.3 (1.8-5.4)	2.9 (1.5-5.0)	2.4 (1.3-4.3)	2.1 (1.1-3.7)	1.8 (0.9-3.2)	1.5 (0.8-2.7)
4	6.1 (3.6-9.1)	5.0 (3.1-7.8)	4.4 (2.6-7.0)	3.7 (2.1-6.0)	3.1 (1.8-5.1)	2.7 (1.5-4.4)	2.3 (1.3-3.8)
5	9.4 (6.0-12)	7.7 (5.1-10)	6.6 (4.5-8.7)	5.5 (3.8-7.4)	4.7 (3.2-6.4)	4.0 (2.7-5.4)	3.4 (2.3-4.6)
6	14	12	9.7	8.2	6.9	5.9	5.0

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.2	1.1	1.0	0.8	0.7	0.6	0.5
1	1.9 (1.3-2.6)	1.7 (1.2-2.3)	1.5 (1.1-2.0)	1.3 (0.9-1.7)	1.1 (0.8-1.5)	0.9 (0.6-1.2)	0.8 (0.5-1.1)
2	2.9 (1.9-4.3)	2.6 (1.6-3.9)	2.3 (1.4-3.7)	2.0 (1.1-3.2)	1.7 (1.0-2.7)	1.4 (0.8-2.4)	1.2 (0.7-2.0)
3	4.5 (2.9-6.6)	3.9 (2.4-6.1)	3.6 (2.0-5.9)	3.0 (1.7-5.0)	2.5 (1.4-4.2)	2.1 (1.2-3.6)	1.8 (1.0-3.1)
4	6.8 (4.5-9.9)	5.9 (3.9-8.9)	5.3 (3.3-8.3)	4.5 (2.7-7.0)	3.7 (2.2-5.9)	3.1 (1.9-5.0)	2.7 (1.5-4.3)
5	10 (6.9-13)	8.9 (6.1-12)	7.9 (5.6-10)	6.6 (4.6-8.8)	5.5 (3.9-7.5)	4.6 (3.3-6.3)	3.9 (2.7-5.3)
6	15	13	11	9.5	8.0	6.7	5.6

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.3	1.2	1.2	1.0	0.8	0.7	0.6
1	2.0 (1.4-2.6)	1.8 (1.3-2.4)	1.7 (1.2-2.3)	1.4 (1.0-1.9)	1.2 (0.8-1.6)	1.0 (0.7-1.3)	0.8 (0.6-1.1)
2	3.1 (1.9-4.8)	2.8 (1.7-4.2)	2.6 (1.6-3.8)	2.1 (1.3-3.2)	1.8 (1.1-2.6)	1.5 (0.9-2.2)	1.2 (0.7-1.8)
3	4.8 (2.8-7.6)	4.3 (2.6-6.5)	3.9 (2.4-5.9)	3.2 (2.0-4.8)	2.6 (1.6-4.0)	2.1 (1.3-3.3)	1.8 (1.1-2.7)
4	7.5 (4.6-11)	6.6 (4.1-9.9)	5.8 (3.7-8.8)	4.7 (3.0-7.2)	3.8 (2.4-5.9)	3.1 (2.0-4.8)	2.6 (1.6-3.9)
5	11 (8.9-15)	10 (7.8-13)	8.8 (6.8-12)	7.1 (5.4-9.6)	5.7 (4.3-7.8)	4.6 (3.5-6.3)	3.7 (2.8-5.2)
6	17	15	13	11	8.5	6.8	5.5

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.3	1.3	1.3	1.1	0.9	0.8	0.6
1	2.1 (1.3-3.3)	2.0 (1.3-2.9)	2.0 (1.3-2.5)	1.6 (1.1-2.0)	1.3 (0.9-1.7)	1.1 (0.7-1.4)	0.9 (0.6-1.1)
2	3.4 (1.8-5.9)	3.2 (1.8-5.2)	3.0 (1.8-4.6)	2.4 (1.4-3.6)	1.9 (1.2-2.9)	1.6 (0.9-2.3)	1.3 (0.8-1.9)
3	5.5 (2.6-9.6)	5.0 (2.5-8.4)	4.6 (2.5-7.2)	3.6 (2.0-5.7)	2.9 (1.6-4.6)	2.3 (1.3-3.6)	1.9 (1.0-2.9)
4	8.8 (4.4-14)	7.9 (4.1-12)	7.1 (3.9-11)	5.6 (3.1-8.5)	4.4 (2.5-6.7)	3.5 (2.0-5.3)	2.8 (1.6-4.2)
5	14 (7.7-19)	12 (7.2-17)	11 (7.0-15)	8.6 (5.6-12)	6.7 (4.4-9.3)	5.3 (3.5-7.4)	4.1 (2.8-5.8)
6	20	18	16	13	10	8.0	6.3

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.4	1.4	1.5	1.2	1.0	0.8	0.7
1	2.2 (1.4-3.7)	2.2 (1.4-3.4)	2.2 (1.5-3.1)	1.8 (1.2-2.4)	1.4 (1.0-1.9)	1.2 (0.8-1.5)	0.9 (0.6-1.2)
2	3.6 (2.0-6.2)	3.4 (1.9-5.5)	3.3 (2.0-5.0)	2.7 (1.6-3.9)	2.1 (1.3-3.1)	1.7 (1.0-2.5)	1.3 (0.8-2.0)
3	5.7 (2.9-9.4)	5.3 (2.7-8.6)	5.0 (2.7-7.8)	3.9 (2.1-6.2)	3.1 (1.7-4.9)	2.5 (1.3-3.9)	1.9 (1.1-3.1)
4	8.9 (4.5-13)	8.1 (4.3-12)	7.5 (4.3-11)	5.9 (3.4-8.6)	4.6 (2.6-6.8)	3.6 (2.1-5.3)	2.8 (1.6-4.2)
5	13 (7.4-18)	12 (6.9-16)	11 (6.8-15)	8.7 (5.4-12)	6.8 (4.3-9.4)	5.3 (3.4-7.4)	4.1 (2.7-5.8)
6	20	18	16	13	10	7.8	6.1

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	1.6	1.8	1.4	1.1	0.9	0.8
1	2.5 (1.6-4.2)	2.5 (1.6-3.8)	2.6 (1.7-3.7)	2.1 (1.3-2.9)	1.6 (1.1-2.2)	1.3 (0.9-1.7)	1.1 (0.7-1.4)
2	4.0 (2.2-7.0)	3.8 (2.1-6.3)	3.8 (2.2-5.9)	3.0 (1.7-4.6)	2.4 (1.4-3.6)	1.9 (1.1-2.9)	1.5 (0.9-2.3)
3	6.4 (3.2-11)	5.9 (3.0-9.7)	5.7 (3.0-9.2)	4.5 (2.4-7.2)	3.5 (1.8-5.7)	2.8 (1.4-4.5)	2.2 (1.1-3.5)
4	9.9 (5.0-15)	9.0 (4.8-14)	8.5 (4.8-13)	6.6 (3.7-10)	5.2 (2.9-7.9)	4.0 (2.3-6.2)	3.1 (1.8-4.8)
5	15 (8.2-20)	13 (7.7-18)	12 (7.5-17)	9.8 (5.9-13)	7.6 (4.7-11)	5.9 (3.7-8.2)	4.6 (2.9-6.4)
6	22	20	18	14	11	8.7	6.8

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.7	1.8	2.0	1.6	1.3	1.0	0.8
1	2.8 (1.8-4.8)	2.8 (1.8-4.4)	2.9 (1.9-4.2)	2.3 (1.5-3.3)	1.9 (1.2-2.6)	1.5 (1.0-2.0)	1.2 (0.8-1.6)
2	4.6 (2.5-8.0)	4.3 (2.4-7.2)	4.4 (2.5-6.8)	3.4 (1.9-5.3)	2.7 (1.5-4.1)	2.1 (1.2-3.2)	1.7 (1.0-2.6)
3	7.3 (3.7-12)	6.7 (3.4-11)	6.5 (3.4-10)	5.1 (2.7-8.2)	4.0 (2.1-6.5)	3.1 (1.6-5.1)	2.4 (1.3-4.0)
4	11 (5.7-17)	10 (5.4-15)	9.6 (5.4-14)	7.5 (4.2-11)	5.9 (3.3-8.9)	4.6 (2.6-7.0)	3.6 (2.0-5.5)
5	17 (9.3-22)	15 (8.6-20)	14 (8.5-19)	11 (6.7-15)	8.6 (5.3-12)	6.7 (4.1-9.3)	5.2 (3.3-7.3)
6	24	22	20	16	13	9.9	7.7