

**Tunisia - The probabilities of a hip fracture in men**

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 Tunisia. 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/m<sup>2</sup>.

**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	2.8	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
1	4.5 (3.0-5.9)	2.4 (1.6-3.1)	1.3 (0.8-1.7)	0.7 (0.4-0.9)	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)	0.0 (0.0-0.0)
2	7.0 (4.2-10)	3.7 (2.2-5.7)	2.0 (1.2-3.0)	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 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
3	11 (6.3-17)	5.8 (3.4-9.2)	3.1 (1.8-5.0)	1.6 (0.9-2.6)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	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 (0.0-0.0)
4	16 (10-24)	8.9 (5.6-14)	4.8 (3.0-7.5)	2.6 (1.6-4.0)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
5	24 (18-32)	13 (9.8-19)	7.3 (5.3-10)	3.9 (2.8-5.6)	2.1 (1.5-3.0)	1.1 (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)
6	34	20	11	5.9	3.2	1.7	0.9	0.5	0.3	0.1	0.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Tunisia.

**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	2.8	1.5	0.8	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0
1	4.3 (2.9-5.4)	2.4 (1.6-3.0)	1.3 (0.9-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	6.5 (4.1-9.3)	3.6 (2.3-5.2)	2.0 (1.3-2.9)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	9.8 (6.2-14)	5.5 (3.4-8.2)	3.1 (1.9-4.6)	1.7 (1.0-2.6)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	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)
4	14 (9.8-21)	8.3 (5.5-12)	4.7 (3.1-6.9)	2.6 (1.7-3.9)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
5	21 (16-28)	12 (9.4-17)	6.9 (5.3-9.7)	3.9 (3.0-5.5)	2.2 (1.6-3.1)	1.2 (0.9-1.7)	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)
6	29	18	10	5.8	3.2	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	2.5	1.5	0.9	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.0
1	3.8 (2.6-4.5)	2.2 (1.6-2.7)	1.3 (0.9-1.6)	0.8 (0.5-0.9)	0.4 (0.3-0.5)	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	5.6 (3.7-7.5)	3.3 (2.2-4.5)	1.9 (1.3-2.7)	1.1 (0.8-1.6)	0.7 (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)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	8.1 (5.6-11)	4.9 (3.3-6.7)	2.9 (2.0-4.0)	1.7 (1.2-2.4)	1.0 (0.7-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
4	12 (8.5-16)	7.1 (5.1-9.9)	4.2 (3.0-6.0)	2.5 (1.8-3.6)	1.5 (1.1-2.1)	0.9 (0.6-1.3)	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)
5	16 (13-21)	10 (8.2-14)	6.1 (5.0-8.4)	3.7 (3.0-5.1)	2.2 (1.8-3.0)	1.3 (1.0-1.8)	0.8 (0.6-1.1)	0.4 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
6	22	14	8.8	5.3	3.2	1.9	1.1	0.7	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 men from Tunisia.

**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	2.1	1.3	0.8	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	3.1 (2.2-3.5)	1.9 (1.4-2.2)	1.2 (0.9-1.4)	0.8 (0.6-0.9)	0.5 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	4.4 (3.2-5.5)	2.8 (2.0-3.5)	1.8 (1.3-2.2)	1.1 (0.8-1.4)	0.7 (0.5-0.9)	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 (0.1-0.1)	0.0 (0.0-0.1)
3	6.2 (4.5-8.3)	4.0 (2.9-5.3)	2.5 (1.8-3.4)	1.6 (1.1-2.1)	1.0 (0.7-1.3)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)
4	8.6 (6.8-11)	5.6 (4.3-7.4)	3.6 (2.7-4.8)	2.3 (1.7-3.0)	1.4 (1.1-1.9)	0.9 (0.7-1.2)	0.6 (0.4-0.8)	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	12 (10-15)	7.7 (6.6-10)	5.0 (4.2-6.6)	3.2 (2.7-4.2)	2.0 (1.7-2.7)	1.3 (1.1-1.7)	0.8 (0.7-1.1)	0.5 (0.4-0.7)	0.3 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	16	11	6.9	4.4	2.8	1.8	1.1	0.7	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	1.6	1.1	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	2.5 (2.2-3.4)	1.7 (1.5-2.3)	1.1 (1.0-1.5)	0.8 (0.7-1.0)	0.5 (0.4-0.7)	0.3 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	3.9 (3.0-5.2)	2.6 (2.1-3.5)	1.8 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.0)	0.5 (0.4-0.7)	0.3 (0.3-0.5)	0.2 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	6.0 (4.4-7.7)	4.1 (3.0-5.2)	2.7 (2.0-3.5)	1.8 (1.4-2.4)	1.2 (0.9-1.6)	0.8 (0.6-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.2)
4	9.0 (6.6-11)	6.2 (4.5-7.7)	4.2 (3.1-5.3)	2.9 (2.1-3.6)	1.9 (1.4-2.4)	1.3 (0.9-1.6)	0.9 (0.6-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.5)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
5	13 (9.9-15)	9.3 (6.8-11)	6.4 (4.7-7.3)	4.4 (3.2-5.0)	3.0 (2.1-3.4)	2.0 (1.4-2.3)	1.3 (1.0-1.5)	0.9 (0.7-1.0)	0.6 (0.5-0.7)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
6	19	14	9.5	6.6	4.5	3.1	2.1	1.4	1.0	0.7	0.5

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Tunisia.

**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	1.1	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0
1	2.1 (1.5-4.8)	1.5 (1.0-3.4)	1.1 (0.7-2.4)	0.8 (0.5-1.7)	0.5 (0.4-1.2)	0.4 (0.3-0.9)	0.3 (0.2-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	3.7 (2.1-7.1)	2.7 (1.5-5.2)	1.9 (1.0-3.7)	1.4 (0.7-2.6)	1.0 (0.5-1.9)	0.7 (0.4-1.3)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.1-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)
3	6.2 (2.9-10)	4.5 (2.1-7.3)	3.2 (1.5-5.3)	2.3 (1.1-3.8)	1.6 (0.8-2.7)	1.2 (0.5-1.9)	0.8 (0.4-1.4)	0.6 (0.3-1.0)	0.4 (0.2-0.7)	0.3 (0.1-0.5)	0.2 (0.1-0.4)
4	9.9 (4.1-14)	7.2 (3.0-10)	5.2 (2.1-7.3)	3.8 (1.5-5.3)	2.7 (1.1-3.8)	1.9 (0.8-2.7)	1.4 (0.5-1.9)	1.0 (0.4-1.4)	0.7 (0.3-1.0)	0.5 (0.2-0.8)	0.4 (0.2-0.6)
5	15 (6.2-18)	11 (4.5-14)	8.2 (3.2-10)	6.0 (2.3-7.4)	4.3 (1.6-5.3)	3.1 (1.2-3.8)	2.2 (0.8-2.7)	1.6 (0.6-2.0)	1.2 (0.4-1.5)	0.9 (0.3-1.1)	0.6 (0.2-0.8)
6	22	17	13	9.3	6.8	4.9	3.5	2.6	1.9	1.4	1.0

**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	0.9	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1
1	1.6 (1.1-3.6)	1.2 (0.8-2.7)	0.9 (0.6-2.0)	0.7 (0.5-1.5)	0.5 (0.3-1.1)	0.4 (0.3-0.9)	0.3 (0.2-0.6)	0.2 (0.1-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)	0.1 (0.1-0.2)
2	2.8 (1.4-5.4)	2.1 (1.1-4.1)	1.5 (0.8-3.1)	1.2 (0.6-2.3)	0.9 (0.4-1.7)	0.6 (0.3-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.1-0.4)	0.2 (0.1-0.3)
3	4.5 (2.0-7.6)	3.4 (1.5-5.7)	2.6 (1.1-4.3)	1.9 (0.8-3.3)	1.4 (0.6-2.5)	1.1 (0.5-1.8)	0.8 (0.4-1.4)	0.6 (0.3-1.1)	0.5 (0.2-0.8)	0.4 (0.2-0.6)	0.3 (0.1-0.5)
4	7.2 (2.9-10)	5.5 (2.1-8.0)	4.1 (1.6-6.1)	3.1 (1.2-4.6)	2.3 (0.9-3.5)	1.8 (0.7-2.6)	1.3 (0.5-2.0)	1.0 (0.4-1.5)	0.8 (0.3-1.2)	0.6 (0.2-0.9)	0.5 (0.2-0.7)
5	11 (4.3-13)	8.4 (3.2-10)	6.4 (2.4-7.8)	4.9 (1.8-6.0)	3.7 (1.4-4.5)	2.8 (1.0-3.4)	2.1 (0.8-2.6)	1.6 (0.6-2.0)	1.2 (0.5-1.5)	1.0 (0.4-1.2)	0.7 (0.3-0.9)
6	16	13	9.8	7.5	5.7	4.3	3.3	2.5	2.0	1.5	1.2

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Tunisia.

**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	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
1	1.2 (0.8-2.8)	1.0 (0.7-2.2)	0.8 (0.5-1.7)	0.6 (0.4-1.4)	0.5 (0.3-1.1)	0.4 (0.2-0.8)	0.3 (0.2-0.7)	0.2 (0.2-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.4)	0.1 (0.1-0.3)
2	2.1 (1.1-4.2)	1.7 (0.9-3.3)	1.3 (0.7-2.6)	1.0 (0.5-2.1)	0.8 (0.4-1.6)	0.6 (0.3-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)	0.3 (0.2-0.7)	0.3 (0.1-0.5)	0.2 (0.1-0.4)
3	3.5 (1.6-5.9)	2.8 (1.2-4.7)	2.2 (1.0-3.7)	1.7 (0.8-2.9)	1.4 (0.6-2.3)	1.1 (0.5-1.8)	0.8 (0.4-1.4)	0.7 (0.3-1.2)	0.5 (0.2-0.9)	0.4 (0.2-0.8)	0.4 (0.2-0.6)
4	5.6 (2.2-8.2)	4.5 (1.7-6.5)	3.5 (1.4-5.2)	2.8 (1.1-4.1)	2.2 (0.8-3.2)	1.7 (0.7-2.5)	1.4 (0.5-2.0)	1.1 (0.4-1.6)	0.9 (0.3-1.3)	0.7 (0.3-1.1)	0.6 (0.2-0.9)
5	8.7 (3.3-11)	6.9 (2.6-8.4)	5.5 (2.1-6.7)	4.4 (1.6-5.3)	3.4 (1.3-4.2)	2.7 (1.0-3.3)	2.2 (0.8-2.7)	1.8 (0.6-2.2)	1.4 (0.5-1.7)	1.1 (0.4-1.4)	0.9 (0.3-1.1)
6	13	10	8.4	6.7	5.3	4.2	3.4	2.7	2.2	1.8	1.5

**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	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
1	1.0 (0.7-2.3)	0.8 (0.6-1.9)	0.7 (0.5-1.5)	0.5 (0.4-1.3)	0.4 (0.3-1.0)	0.4 (0.3-0.9)	0.3 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.4)
2	1.7 (0.9-3.4)	1.4 (0.7-2.8)	1.2 (0.6-2.3)	1.0 (0.5-1.9)	0.8 (0.4-1.6)	0.6 (0.3-1.3)	0.5 (0.3-1.1)	0.5 (0.2-0.9)	0.4 (0.2-0.8)	0.3 (0.2-0.7)	0.3 (0.1-0.6)
3	2.9 (1.3-4.8)	2.4 (1.0-4.0)	1.9 (0.8-3.3)	1.6 (0.7-2.7)	1.3 (0.6-2.2)	1.1 (0.5-1.8)	0.9 (0.4-1.5)	0.8 (0.3-1.3)	0.6 (0.3-1.1)	0.5 (0.2-0.9)	0.5 (0.2-0.8)
4	4.6 (1.8-6.7)	3.8 (1.5-5.6)	3.1 (1.2-4.6)	2.6 (1.0-3.8)	2.1 (0.8-3.1)	1.7 (0.7-2.6)	1.5 (0.6-2.2)	1.2 (0.5-1.8)	1.1 (0.4-1.6)	0.9 (0.3-1.3)	0.8 (0.3-1.1)
5	7.1 (2.7-8.6)	5.9 (2.2-7.2)	4.9 (1.8-6.0)	4.0 (1.5-4.9)	3.3 (1.2-4.1)	2.8 (1.0-3.4)	2.3 (0.8-2.8)	2.0 (0.7-2.4)	1.7 (0.6-2.0)	1.4 (0.5-1.7)	1.2 (0.4-1.5)
6	11	8.9	7.4	6.2	5.1	4.2	3.6	3.1	2.6	2.2	1.9