Morocco - 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 Morocco. 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/m².

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	6.5	3.5	1.8	1.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	10 (6.8-13)	5.5 (3.6-7.2)	2.9 (1.9-3.9)	1.5 (1.0-2.0)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	16 (9.5-23)	8.6 (5.1-13)	4.6 (2.7-7.0)	2.4 (1.4-3.7)	1.3 (0.8-2.0)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
3	23 (14-35)	13 (7.7-21)	7.2 (4.1-11)	3.8 (2.2-6.2)	2.0 (1.1-3.3)	1.1 (0.6-1.8)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
4	34 (23-48)	20 (13-29)	11 (6.9-17)	6.0 (3.7-9.3)	3.2 (1.9-5.0)	1.7 (1.0-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	47 (37-59)	29 (22-39)	16 (12-23)	9.1 (6.6-13)	4.9 (3.5-7.0)	2.6 (1.9-3.8)	1.4 (1.0-2.0)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	61	40	24	14	7.4	3.9	2.1	1.1	0.6	0.3	0.2

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

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	7.1	3.9	2.2	1.2	0.6	0.4	0.2	0.1	0.1	0.0	0.0
1	11 (7.4-13)	6.1 (4.1-7.6)	3.4 (2.3-4.2)	1.9 (1.2-2.3)	1.0 (0.7-1.3)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	16 (10-23)	9.3 (5.8-13)	5.2 (3.2-7.5)	2.9 (1.8-4.2)	1.6 (1.0-2.3)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	24 (15-34)	14 (8.7-21)	8.0 (4.9-12)	4.4 (2.7-6.8)	2.5 (1.5-3.8)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	34 (24-46)	20 (14-29)	12 (8.0-18)	6.7 (4.4-10)	3.7 (2.5-5.7)	2.1 (1.3-3.2)	1.1 (0.7-1.7)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	45 (38-57)	29 (23-39)	17 (14-24)	10 (7.8-14)	5.6 (4.4-8.0)	3.1 (2.4-4.5)	1.7 (1.3-2.5)	0.9 (0.7-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
6	58	40	25	15	8.4	4.7	2.6	1.4	0.8	0.5	0.3

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	7.0	4.1	2.4	1.4	0.8	0.5	0.3	0.2	0.1	0.1	0.0
1	10 (7.4-12)	6.3 (4.4-7.4)	3.7 (2.6-4.4)	2.2 (1.5-2.6)	1.3 (0.9-1.5)	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)	0.1 (0.0-0.1)
2	15 (10-20)	9.3 (6.1-13)	5.6 (3.6-7.6)	3.3 (2.1-4.5)	1.9 (1.2-2.6)	1.1 (0.7-1.5)	0.7 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	22 (15-29)	14 (9.2-19)	8.2 (5.5-12)	4.9 (3.2-7.0)	2.9 (1.9-4.2)	1.7 (1.1-2.5)	1.0 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	30 (23-40)	19 (14-27)	12 (8.6-17)	7.3 (5.1-10)	4.3 (3.0-6.3)	2.5 (1.8-3.7)	1.5 (1.0-2.2)	0.9 (0.6-1.3)	0.5 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	40 (35-50)	27 (23-35)	17 (14-23)	11 (8.7-14)	6.3 (5.2-8.8)	3.8 (3.1-5.3)	2.2 (1.8-3.1)	1.3 (1.1-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	51	36	24	15	9.2	5.5	3.3	1.9	1.2	0.7	0.4

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

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	6.7	4.2	2.6	1.6	1.0	0.6	0.4	0.2	0.2	0.1	0.1
1	9.6 (7.0-11)	6.1 (4.4-6.9)	3.8 (2.7-4.4)	2.4 (1.7-2.7)	1.5 (1.1-1.7)	0.9 (0.7-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	14 (9.7-17)	8.8 (6.2-11)	5.6 (3.9-7.2)	3.5 (2.4-4.6)	2.2 (1.5-2.9)	1.4 (0.9-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	19 (14-25)	13 (9.2-17)	8.1 (5.8-11)	5.1 (3.7-6.9)	3.2 (2.3-4.3)	2.0 (1.4-2.7)	1.2 (0.9-1.7)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
4	26 (21-33)	18 (14-23)	11 (8.8-15)	7.4 (5.6-10)	4.7 (3.5-6.5)	2.9 (2.2-4.1)	1.8 (1.4-2.6)	1.2 (0.9-1.6)	0.7 (0.6-1.0)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
5	34 (30-42)	24 (21-30)	16 (14-21)	10 (9.1-14)	6.7 (5.8-9.0)	4.2 (3.7-5.8)	2.7 (2.3-3.6)	1.7 (1.4-2.3)	1.1 (0.9-1.5)	0.7 (0.6-1.0)	0.4 (0.4-0.6)
6	43	31	22	15	9.4	6.0	3.8	2.4	1.6	1.0	0.6

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	5.6	3.8	2.5	1.6	1.1	0.7	0.5	0.3	0.2	0.1	0.1
1	8.9 (7.9-12)	6.0 (5.3-7.8)	4.0 (3.5-5.2)	2.7 (2.3-3.5)	1.8 (1.5-2.3)	1.2 (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)	0.2 (0.1-0.2)
2	14 (11-17)	9.3 (7.6-12)	6.3 (5.1-8.3)	4.2 (3.4-5.6)	2.8 (2.3-3.7)	1.9 (1.5-2.5)	1.2 (1.0-1.6)	0.8 (0.7-1.1)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.4)
3	20 (16-25)	14 (11-18)	9.8 (7.6-12)	6.7 (5.1-8.5)	4.5 (3.4-5.7)	3.0 (2.3-3.8)	2.0 (1.5-2.5)	1.3 (1.0-1.7)	0.9 (0.7-1.2)	0.6 (0.5-0.8)	0.4 (0.3-0.5)
4	29 (23-34)	21 (17-25)	15 (11-18)	10 (7.8-12)	7.0 (5.3-8.5)	4.7 (3.5-5.7)	3.1 (2.3-3.8)	2.1 (1.6-2.6)	1.5 (1.1-1.8)	1.0 (0.7-1.2)	0.7 (0.5-0.8)
5	39 (32-43)	30 (24-33)	22 (17-24)	16 (12-17)	11 (8.1-12)	7.3 (5.5-8.1)	4.9 (3.7-5.5)	3.4 (2.5-3.8)	2.3 (1.7-2.6)	1.6 (1.2-1.8)	1.1 (0.8-1.2)
6	50	40	31	23	16	11	7.7	5.3	3.7	2.5	1.7

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

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	4.6	3.2	2.3	1.6	1.1	0.8	0.5	0.4	0.3	0.2	0.1
1	8.4 (6.2-18)	6.1 (4.4-13)	4.3 (3.1-9.4)	3.1 (2.2-6.7)	2.2 (1.6-4.8)	1.5 (1.1-3.3)	1.1 (0.8-2.3)	0.8 (0.6-1.7)	0.5 (0.4-1.2)	0.4 (0.3-0.9)	0.3 (0.2-0.6)
2	14 (8.6-25)	10 (6.2-19)	7.6 (4.4-14)	5.4 (3.1-10)	3.9 (2.2-7.2)	2.7 (1.6-5.2)	1.9 (1.1-3.7)	1.4 (0.8-2.6)	1.0 (0.6-1.9)	0.7 (0.4-1.4)	0.5 (0.3-1.0)
3	22 (12-33)	17 (8.6-26)	12 (6.2-20)	9.1 (4.4-15)	6.6 (3.1-11)	4.7 (2.2-7.7)	3.3 (1.6-5.5)	2.4 (1.1-4.0)	1.8 (0.8-2.9)	1.3 (0.6-2.1)	0.9 (0.4-1.5)
4	32 (17-41)	25 (12-33)	19 (9.0-26)	15 (6.5-20)	11 (4.7-15)	7.8 (3.3-11)	5.6 (2.4-7.7)	4.1 (1.7-5.6)	3.0 (1.2-4.1)	2.2 (0.9-3.0)	1.6 (0.6-2.2)
5	43 (23-50)	36 (18-42)	28 (13-33)	22 (9.6-26)	17 (6.9-20)	12 (5.0-15)	9.0 (3.6-11)	6.6 (2.6-7.9)	4.9 (1.9-5.8)	3.6 (1.4-4.2)	2.6 (1.0-3.1)
6	55	47	39	32	25	19	14	11	7.8	5.8	4.3

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	3.9	2.9	2.1	1.6	1.2	0.9	0.6	0.5	0.4	0.3	0.2
1	7.0 (5.0-15)	5.3 (3.8-12)	4.0 (2.8-8.8)	3.0 (2.1-6.6)	2.2 (1.5-5.0)	1.6 (1.1-3.7)	1.2 (0.8-2.8)	0.9 (0.6-2.1)	0.7 (0.5-1.6)	0.5 (0.4-1.2)	0.4 (0.3-0.9)
2	12 (6.5-21)	8.9 (4.9-17)	6.8 (3.7-13)	5.1 (2.8-9.8)	3.9 (2.1-7.4)	2.9 (1.5-5.6)	2.2 (1.1-4.2)	1.7 (0.9-3.2)	1.3 (0.7-2.4)	1.0 (0.5-1.9)	0.7 (0.4-1.4)
3	18 (9.0-28)	14 (6.9-23)	11 (5.2-18)	8.4 (3.9-14)	6.4 (2.9-11)	4.8 (2.2-8.1)	3.6 (1.6-6.2)	2.8 (1.2-4.8)	2.2 (1.0-3.7)	1.6 (0.7-2.8)	1.3 (0.6-2.2)
4	26 (12-35)	21 (9.6-29)	17 (7.3-23)	13 (5.5-19)	10 (4.2-14)	7.7 (3.1-11)	5.9 (2.4-8.5)	4.6 (1.8-6.7)	3.5 (1.4-5.1)	2.7 (1.1-4.0)	2.1 (0.8-3.0)
5	36 (18-42)	30 (14-35)	24 (11-29)	20 (8.2-23)	15 (6.2-18)	12 (4.7-14)	9.2 (3.6-11)	7.2 (2.8-8.6)	5.6 (2.1-6.7)	4.4 (1.6-5.2)	3.4 (1.3-4.1)
6	47	40	34	28	22	18	14	11	8.7	6.8	5.3

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

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	3.2	2.5	2.0	1.6	1.2	0.9	0.7	0.6	0.5	0.4	0.3
1	5.8 (4.1-13)	4.6 (3.2-10)	3.6 (2.5-8.1)	2.9 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)	1.4 (1.0-3.2)	1.1 (0.8-2.6)	0.9 (0.6-2.1)	0.7 (0.5-1.7)	0.6 (0.4-1.3)
2	9.7 (5.3-18)	7.8 (4.2-15)	6.2 (3.3-12)	4.9 (2.6-9.5)	3.9 (2.1-7.6)	3.1 (1.6-6.0)	2.4 (1.3-4.8)	2.0 (1.0-3.9)	1.6 (0.8-3.1)	1.3 (0.7-2.5)	1.0 (0.5-2.0)
3	15 (7.4-24)	12 (5.9-20)	9.9 (4.7-16)	8.0 (3.7-13)	6.4 (2.9-11)	5.1 (2.3-8.5)	4.1 (1.8-6.8)	3.3 (1.5-5.6)	2.7 (1.2-4.5)	2.2 (1.0-3.7)	1.7 (0.8-3.0)
4	22 (10-31)	18 (8.2-26)	15 (6.5-21)	12 (5.2-18)	10 (4.1-14)	8.0 (3.2-12)	6.5 (2.6-9.4)	5.3 (2.1-7.7)	4.3 (1.7-6.3)	3.5 (1.4-5.1)	2.8 (1.1-4.2)
5	31 (15-37)	27 (12-31)	22 (9.6-26)	18 (7.7-22)	15 (6.1-18)	12 (4.8-15)	10 (3.9-12)	8.2 (3.1-9.9)	6.7 (2.6-8.2)	5.5 (2.1-6.7)	4.5 (1.7-5.4)
6	42	36	31	26	22	18	15	12	10	8.4	6.9

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	2.7	2.3	1.9	1.5	1.2	1.0	0.9	0.7	0.6	0.5	0.4
1	5.0 (3.5-11)	4.1 (2.9-9.1)	3.4 (2.4-7.6)	2.8 (1.9-6.3)	2.3 (1.6-5.2)	1.9 (1.3-4.3)	1.6 (1.1-3.6)	1.3 (0.9-3.1)	1.1 (0.8-2.6)	1.0 (0.7-2.2)	0.8 (0.6-1.9)
2	8.3 (4.5-16)	6.9 (3.7-13)	5.8 (3.1-11)	4.8 (2.5-9.3)	4.0 (2.1-7.8)	3.3 (1.7-6.4)	2.8 (1.4-5.4)	2.3 (1.2-4.6)	2.0 (1.0-3.9)	1.7 (0.9-3.3)	1.4 (0.7-2.8)
3	13 (6.3-21)	11 (5.2-18)	9.3 (4.3-15)	7.8 (3.6-13)	6.5 (2.9-11)	5.4 (2.4-8.9)	4.6 (2.0-7.6)	3.9 (1.7-6.5)	3.3 (1.5-5.5)	2.8 (1.2-4.7)	2.4 (1.0-4.0)
4	19 (8.7-27)	17 (7.2-23)	14 (6.0-20)	12 (5.0-17)	10 (4.1-14)	8.4 (3.4-12)	7.2 (2.9-10)	6.2 (2.4-9.0)	5.3 (2.1-7.7)	4.5 (1.7-6.6)	3.8 (1.5-5.6)
5	28 (13-33)	24 (11-29)	21 (8.9-25)	18 (7.4-21)	15 (6.1-18)	13 (5.1-15)	11 (4.3-13)	9.5 (3.7-11)	8.1 (3.1-9.9)	7.0 (2.6-8.5)	6.0 (2.2-7.3)
6	38	33	29	25	22	19	16	14	12	11	9.1