Palestine - 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 Palestine. 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	13	6.9	3.7	2.0	1.0	0.5	0.3	0.2	0.1	0.0	0.0
1	20 (13-25)	11 (7.3-14)	5.9 (3.9-7.7)	3.1 (2.1-4.1)	1.6 (1.1-2.2)	0.9 (0.6-1.1)	0.5 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
2	29 (19-41)	17 (10-25)	9.2 (5.5-14)	4.9 (2.9-7.5)	2.6 (1.5-4.0)	1.4 (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)
3	41 (27-58)	25 (15-37)	14 (8.2-22)	7.7 (4.4-12)	4.1 (2.3-6.7)	2.2 (1.2-3.6)	1.1 (0.6-1.9)	0.6 (0.3-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	55 (41-71)	36 (24-50)	21 (14-31)	12 (7.4-18)	6.4 (3.9-%10.0	3.4 (2.1-5.4)	1.8 (1.1-2.9)	0.9 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
5	70 (60-81)	49 (39-62)	31 (23-41)	18 (13-25)	9.7 (7.1-14)	5.2 (3.8-7.6)	2.8 (2.0-4.0)	1.5 (1.1-2.1)	0.8 (0.6-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
6	82	64	43	26	15	7.9	4.2	2.2	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 Palestine.

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	15	8.3	4.6	2.5	1.4	0.8	0.4	0.2	0.1	0.1	0.0
1	22 (15-27)	13 (8.7-16)	7.1 (4.8-8.8)	4.0 (2.7-4.9)	2.2 (1.5-2.7)	1.2 (0.8-1.5)	0.6 (0.4-0.8)	0.4 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	32 (21-42)	19 (12-26)	11 (6.8-15)	6.1 (3.8-8.8)	3.4 (2.1-4.9)	1.9 (1.1-2.7)	1.0 (0.6-1.5)	0.6 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
3	43 (30-58)	28 (18-39)	16 (10-24)	9.3 (5.7-14)	5.2 (3.1-8.0)	2.9 (1.7-4.5)	1.6 (0.9-2.5)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	57 (44-71)	38 (28-52)	24 (16-34)	14 (9.3-21)	7.9 (5.2-12)	4.4 (2.9-6.8)	2.4 (1.6-3.7)	1.3 (0.9-2.1)	0.7 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.2-0.4)
5	70 (63-80)	51 (43-63)	34 (27-44)	20 (16-28)	12 (9.2-17)	6.7 (5.2-9.4)	3.7 (2.9-5.3)	2.0 (1.6-2.9)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	81	65	46	29	17	9.9	5.5	3.1	1.7	1.0	0.6

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	13	8.1	4.8	2.8	1.6	0.9	0.5	0.3	0.2	0.1	0.1
1	20 (14-23)	12 (8.5-14)	7.2 (5.0-8.5)	4.3 (2.9-5.0)	2.5 (1.7-2.9)	1.5 (1.0-1.7)	0.8 (0.6-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	28 (19-36)	18 (12-24)	11 (7.0-15)	6.4 (4.1-8.8)	3.8 (2.4-5.2)	2.2 (1.4-3.1)	1.3 (0.8-1.8)	0.8 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	38 (28-49)	25 (17-34)	16 (11-22)	9.6 (6.2-14)	5.7 (3.7-8.3)	3.4 (2.1-4.9)	2.0 (1.2-2.9)	1.1 (0.7-1.7)	0.7 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
4	50 (40-62)	35 (26-46)	23 (17-31)	14 (10-20)	8.5 (6.0-12)	5.0 (3.5-7.4)	3.0 (2.1-4.4)	1.7 (1.2-2.6)	1.0 (0.7-1.6)	0.6 (0.4-0.9)	0.4 (0.3-0.6)
5	62 (56-72)	46 (40-57)	31 (27-41)	20 (17-27)	12 (10-17)	7.4 (6.1-10)	4.4 (3.6-6.2)	2.6 (2.1-3.6)	1.6 (1.3-2.2)	0.9 (0.8-1.3)	0.6 (0.5-0.8)
6	73	58	42	28	18	11	6.5	3.8	2.3	1.4	0.8

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

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	12	7.7	4.8	3.0	1.8	1.1	0.7	0.4	0.3	0.2	0.1
1	17 (13-20)	11 (8.0-13)	7.1 (5.0-8.1)	4.4 (3.1-5.1)	2.8 (1.9-3.2)	1.7 (1.2-2.0)	1.1 (0.7-1.2)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	24 (17-30)	16 (11-20)	10 (7.1-13)	6.5 (4.4-8.4)	4.1 (2.7-5.3)	2.5 (1.7-3.3)	1.6 (1.0-2.1)	1.0 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
3	33 (25-41)	22 (16-29)	15 (11-19)	9.5 (6.7-13)	6.0 (4.2-8.1)	3.8 (2.6-5.2)	2.3 (1.6-3.2)	1.5 (1.0-2.0)	0.9 (0.6-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
4	43 (35-52)	30 (24-39)	21 (16-28)	14 (10-19)	8.7 (6.6-12)	5.5 (4.1-7.7)	3.4 (2.6-4.9)	2.2 (1.6-3.1)	1.4 (1.0-2.0)	0.9 (0.7-1.3)	0.6 (0.4-0.8)
5	53 (49-62)	40 (36-49)	28 (25-36)	19 (17-25)	12 (11-17)	7.9 (6.8-11)	5.0 (4.3-6.8)	3.2 (2.7-4.4)	2.0 (1.7-2.8)	1.3 (1.1-1.8)	0.8 (0.7-1.2)
6	63	50	37	26	17	11	7.2	4.6	3.0	1.9	1.2

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	9.9	6.6	4.4	2.9	1.9	1.2	0.8	0.5	0.4	0.2	0.2
1	15 (14-20)	11 (9.2-13)	7.1 (6.2-9.1)	4.7 (4.1-6.1)	3.1 (2.7-4.0)	2.0 (1.8-2.6)	1.3 (1.2-1.7)	0.9 (0.8-1.2)	0.6 (0.5-0.8)	0.4 (0.4-0.5)	0.3 (0.2-0.4)
2	23 (20-29)	16 (14-21)	11 (9.2-15)	7.5 (6.1-9.9)	5.0 (4.1-6.7)	3.3 (2.7-4.4)	2.2 (1.8-2.9)	1.5 (1.2-2.0)	1.0 (0.8-1.3)	0.7 (0.5-0.9)	0.5 (0.4-0.6)
3	34 (28-40)	24 (20-30)	17 (14-21)	12 (9.2-15)	8.0 (6.2-10)	5.3 (4.1-6.8)	3.5 (2.7-4.5)	2.4 (1.8-3.0)	1.6 (1.2-2.1)	1.1 (0.8-1.4)	0.7 (0.6-0.9)
4	46 (38-52)	35 (28-40)	26 (20-30)	18 (14-21)	12 (9.4-15)	8.4 (6.3-10)	5.6 (4.2-6.8)	3.8 (2.8-4.6)	2.6 (1.9-3.1)	1.8 (1.3-2.1)	1.2 (0.9-1.5)
5	58 (50-61)	47 (39-50)	36 (29-39)	27 (21-29)	19 (15-21)	13 (10-15)	8.9 (6.8-%10.0	6.1 (4.6-6.9)	4.2 (3.2-4.7)	2.9 (2.2-3.2)	1.9 (1.5-2.2)
6	68	59	48	38	28	20	14	9.6	6.6	4.6	3.1

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

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	7.5	5.3	3.7	2.6	1.8	1.3	0.9	0.6	0.4	0.3	0.2
1	14 (10-27)	9.8 (7.4-20)	7.0 (5.2-15)	5.0 (3.7-11)	3.5 (2.6-7.6)	2.4 (1.8-5.3)	1.7 (1.2-3.7)	1.2 (0.9-2.7)	0.9 (0.6-1.9)	0.6 (0.4-1.4)	0.4 (0.3-1.0)
2	22 (14-38)	17 (10-29)	12 (7.3-22)	8.8 (5.2-16)	6.3 (3.6-12)	4.5 (2.5-8.5)	3.1 (1.8-6.0)	2.2 (1.3-4.3)	1.6 (0.9-3.1)	1.2 (0.6-2.3)	0.8 (0.5-1.6)
3	33 (20-48)	26 (14-39)	20 (10-31)	15 (7.4-23)	11 (5.3-17)	7.7 (3.7-13)	5.5 (2.6-8.9)	4.0 (1.9-6.5)	2.9 (1.3-4.7)	2.1 (1.0-3.4)	1.5 (0.7-2.5)
4	46 (27-58)	38 (21-49)	30 (15-39)	23 (11-31)	17 (7.9-23)	13 (5.6-17)	9.2 (3.9-12)	6.7 (2.8-9.2)	4.9 (2.0-6.8)	3.6 (1.5-5.0)	2.6 (1.1-3.6)
5	59 (37-66)	51 (29-58)	43 (22-48)	34 (16-39)	27 (12-31)	20 (8.6-23)	15 (6.1-17)	11 (4.5-13)	8.1 (3.2-9.5)	6.0 (2.3-7.0)	4.3 (1.7-5.1)
6	70	64	56	47	38	30	23	17	13	9.7	7.1

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	5.5	4.1	3.0	2.2	1.7	1.2	0.9	0.7	0.5	0.4	0.3
1	%10.0 (7.2-21)	7.5 (5.4-16)	5.7 (4.0-12)	4.2 (2.9-9.3)	3.1 (2.2-6.9)	2.3 (1.6-5.2)	1.7 (1.2-3.8)	1.3 (0.9-2.9)	1.0 (0.7-2.2)	0.7 (0.5-1.7)	0.6 (0.4-1.3)
2	16 (9.7-29)	13 (7.3-23)	9.7 (5.5-18)	7.3 (4.1-14)	5.5 (3.0-10)	4.1 (2.2-7.9)	3.1 (1.7-5.9)	2.3 (1.3-4.5)	1.8 (1.0-3.5)	1.4 (0.7-2.6)	1.0 (0.5-2.0)
3	25 (13-38)	20 (10-31)	16 (7.6-25)	12 (5.7-20)	9.2 (4.3-15)	6.9 (3.2-12)	5.2 (2.4-8.8)	4.0 (1.8-6.8)	3.1 (1.4-5.2)	2.3 (1.0-4.0)	1.8 (0.8-3.0)
4	35 (18-47)	29 (14-39)	24 (11-32)	19 (8.4-26)	15 (6.3-20)	11 (4.7-16)	8.5 (3.6-12)	6.6 (2.7-9.4)	5.1 (2.1-7.3)	3.9 (1.6-5.6)	3.0 (1.2-4.3)
5	47 (26-53)	40 (20-46)	34 (16-39)	27 (12-32)	22 (9.4-26)	17 (7.1-20)	13 (5.3-16)	10 (4.1-13)	8.2 (3.2-9.9)	6.3 (2.4-7.7)	4.9 (1.9-5.9)
6	59	52	45	38	31	25	20	16	13	9.9	7.7

FRAX® WHO Fracture Risk Assessment Tool

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

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	4.0	3.1	2.4	1.9	1.5	1.1	0.9	0.7	0.6	0.5	0.4
1	7.2 (5.2-16)	5.7 (4.1-12)	4.5 (3.2-9.9)	3.5 (2.5-7.9)	2.8 (1.9-6.2)	2.2 (1.5-4.8)	1.7 (1.2-3.8)	1.4 (0.9-3.1)	1.1 (0.8-2.5)	0.9 (0.6-2.0)	0.7 (0.5-1.6)
2	12 (6.8-22)	9.6 (5.4-18)	7.7 (4.2-14)	6.1 (3.3-12)	4.8 (2.6-9.2)	3.8 (2.0-7.2)	3.0 (1.6-5.8)	2.4 (1.3-4.6)	1.9 (1.0-3.7)	1.6 (0.8-3.0)	1.2 (0.7-2.4)
3	19 (9.4-29)	15 (7.5-24)	12 (5.9-20)	9.9 (4.6-16)	7.9 (3.6-13)	6.3 (2.9-10)	5.0 (2.3-8.4)	4.1 (1.8-6.9)	3.3 (1.5-5.6)	2.6 (1.2-4.5)	2.1 (0.9-3.6)
4	27 (13-37)	23 (11-31)	19 (8.4-26)	15 (6.7-22)	12 (5.3-18)	%10.0 (4.1-14)	8.1 (3.3-12)	6.6 (2.7-9.5)	5.3 (2.1-7.7)	4.3 (1.7-6.3)	3.5 (1.4-5.1)
5	38 (19-43)	32 (15-37)	27 (12-32)	23 (9.8-27)	19 (7.8-22)	15 (6.2-18)	12 (4.9-15)	10 (4.0-12)	8.4 (3.2-10)	6.9 (2.6-8.2)	5.6 (2.1-6.7)
6	49	43	38	32	27	22	19	16	13	11	8.6

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	3.1	2.5	2.1	1.7	1.4	1.2	1.0	0.8	0.7	0.6	0.5
1	5.5 (3.8-12)	4.6 (3.2-10)	3.8 (2.6-8.5)	3.1 (2.1-7.0)	2.6 (1.8-5.9)	2.1 (1.5-4.8)	1.8 (1.2-4.1)	1.5 (1.0-3.5)	1.3 (0.9-3.0)	1.1 (0.7-2.5)	0.9 (0.6-2.1)
2	9.1 (5.0-17)	7.6 (4.1-15)	6.4 (3.4-12)	5.3 (2.8-10)	4.4 (2.3-8.6)	3.7 (1.9-7.2)	3.1 (1.6-6.1)	2.6 (1.4-5.2)	2.2 (1.2-4.4)	1.9 (1.0-3.8)	1.6 (0.8-3.2)
3	14 (6.9-23)	12 (5.7-19)	10 (4.7-17)	8.5 (3.9-14)	7.1 (3.2-12)	5.9 (2.7-9.9)	5.1 (2.3-8.5)	4.3 (1.9-7.2)	3.7 (1.6-6.2)	3.1 (1.4-5.3)	2.7 (1.2-4.5)
4	21 (9.5-29)	18 (7.9-25)	15 (6.6-22)	13 (5.5-19)	11 (4.5-16)	9.3 (3.7-13)	7.9 (3.2-11)	6.8 (2.7-9.9)	5.8 (2.3-8.5)	5.0 (1.9-7.3)	4.3 (1.6-6.3)
5	30 (14-35)	26 (12-31)	22 (9.7-27)	19 (8.1-23)	16 (6.7-20)	14 (5.6-17)	12 (4.7-15)	10 (4.0-13)	9.0 (3.4-11)	7.7 (2.9-9.4)	6.6 (2.5-8.1)
6	40	36	31	27	24	20	18	15	13	12	%10.0