Palestine - The probabilities of a hip fracture in women

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	9.3	4.9	2.5	1.3	0.7	0.3	0.2	0.1	0.1	0.0	0.0
1	15 (9.8-19)	7.8 (5.1-10)	4.0 (2.6-5.3)	2.1 (1.4-2.7)	1.1 (0.7-1.4)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	22 (14-32)	12 (7.2-18)	6.4 (3.7-9.7)	3.3 (1.9-5.1)	1.7 (1.0-2.6)	0.9 (0.5-1.3)	0.4 (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)
3	33 (20-49)	19 (11-29)	10 (5.6-16)	5.2 (2.9-8.6)	2.7 (1.5-4.5)	1.4 (0.8-2.3)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	46 (32-64)	28 (18-41)	15 (9.6-24)	8.2 (5.0-13)	4.2 (2.6-6.8)	2.2 (1.3-3.5)	1.1 (0.7-1.8)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
5	62 (51-76)	40 (31-52)	23 (17-32)	12 (9.2-18)	6.6 (4.8-9.5)	3.4 (2.5-5.0)	1.7 (1.3-2.6)	0.9 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
6	77	54	33	19	%10.0	5.2	2.7	1.4	0.7	0.4	0.2

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	11	5.9	3.2	1.7	0.9	0.5	0.3	0.2	0.1	0.1	0.0
1	17 (11-20)	9.3 (6.2-11)	5.1 (3.4-6.3)	2.8 (1.8-3.4)	1.5 (1.0-1.8)	0.8 (0.5-1.0)	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)
2	25 (16-34)	14 (8.7-20)	7.9 (4.8-11)	4.3 (2.6-6.3)	2.3 (1.4-3.4)	1.3 (0.8-1.9)	0.7 (0.4-1.0)	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	36 (23-51)	21 (13-32)	12 (7.2-19)	6.7 (3.9-11)	3.7 (2.1-5.8)	2.0 (1.1-3.2)	1.1 (0.6-1.7)	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	49 (36-65)	31 (21-44)	18 (12-27)	10 (6.7-16)	5.6 (3.7-8.8)	3.1 (2.0-4.8)	1.7 (1.1-2.6)	0.9 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	64 (56-77)	43 (36-56)	26 (21-36)	15 (12-21)	8.6 (6.7-12)	4.7 (3.7-6.8)	2.5 (2.0-3.7)	1.4 (1.1-2.1)	0.8 (0.6-1.2)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
6	79	58	38	22	13	7.1	3.9	2.2	1.2	0.7	0.4

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	12	6.6	3.7	2.1	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	17 (12-20)	10 (6.9-12)	5.8 (3.9-6.8)	3.3 (2.2-3.9)	1.8 (1.2-2.2)	1.0 (0.7-1.2)	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)
2	25 (17-34)	15 (9.7-21)	8.8 (5.5-12)	5.0 (3.1-6.9)	2.8 (1.8-3.9)	1.6 (1.0-2.2)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	36 (24-49)	22 (14-32)	13 (8.3-20)	7.6 (4.7-11)	4.3 (2.7-6.6)	2.4 (1.5-3.7)	1.4 (0.9-2.1)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	49 (38-64)	32 (23-44)	19 (14-28)	11 (8.0-17)	6.6 (4.5-9.9)	3.7 (2.6-5.7)	2.1 (1.5-3.2)	1.2 (0.8-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
5	63 (57-75)	44 (38-56)	28 (24-37)	17 (14-23)	9.8 (8.1-14)	5.6 (4.6-7.9)	3.2 (2.6-4.6)	1.9 (1.5-2.7)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	76	58	39	24	14	8.3	4.8	2.8	1.6	1.0	0.6

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	7.2	4.2	2.5	1.4	0.8	0.5	0.3	0.2	0.1	0.1
1	18 (13-21)	11 (7.6-13)	6.4 (4.5-7.6)	3.8 (2.6-4.5)	2.2 (1.5-2.6)	1.3 (0.9-1.5)	0.8 (0.5-0.9)	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	25 (17-32)	16 (11-20)	9.6 (6.3-12)	5.7 (3.7-7.4)	3.3 (2.2-4.4)	2.0 (1.3-2.6)	1.2 (0.8-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
3	35 (25-46)	23 (16-31)	14 (9.4-20)	8.5 (5.6-12)	5.0 (3.3-7.3)	3.0 (1.9-4.3)	1.8 (1.2-2.6)	1.1 (0.7-1.6)	0.6 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
4	47 (38-60)	32 (25-43)	20 (15-28)	12 (9.2-18)	7.5 (5.4-11)	4.4 (3.2-6.5)	2.7 (1.9-3.9)	1.6 (1.2-2.4)	1.0 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.3-0.5)
5	60 (55-71)	43 (38-54)	28 (24-37)	18 (15-24)	11 (9.0-15)	6.5 (5.3-9.1)	4.0 (3.2-5.6)	2.4 (2.0-3.4)	1.5 (1.2-2.1)	0.9 (0.7-1.3)	0.5 (0.4-0.8)
6	73	56	39	25	16	9.5	5.8	3.6	2.2	1.3	0.8

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	11	7.1	4.4	2.7	1.6	1.0	0.6	0.4	0.3	0.2	0.1
1	18 (16-23)	12 (%10.0-15)	7.2 (6.2-9.2)	4.5 (3.8-5.7)	2.7 (2.3-3.5)	1.7 (1.4-2.1)	1.1 (0.9-1.4)	0.7 (0.6-0.9)	0.4 (0.4-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	28 (23-36)	19 (15-24)	12 (9.3-16)	7.3 (5.7-9.9)	4.5 (3.5-6.2)	2.8 (2.2-3.8)	1.8 (1.4-2.4)	1.1 (0.9-1.5)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
3	41 (33-50)	28 (22-36)	19 (14-24)	12 (8.7-16)	7.4 (5.4-9.8)	4.6 (3.3-6.2)	3.0 (2.1-4.0)	1.9 (1.3-2.5)	1.2 (0.8-1.6)	0.7 (0.5-1.0)	0.5 (0.3-0.6)
4	57 (47-63)	42 (33-48)	29 (22-34)	19 (14-23)	12 (8.7-15)	7.6 (5.5-9.4)	4.9 (3.5-6.1)	3.1 (2.2-3.9)	2.0 (1.4-2.5)	1.2 (0.9-1.6)	0.8 (0.6-1.0)
5	71 (63-74)	57 (48-61)	42 (34-46)	29 (23-32)	19 (15-21)	12 (9.5-14)	7.9 (6.1-9.1)	5.1 (3.9-5.9)	3.2 (2.5-3.7)	2.0 (1.6-2.4)	1.3 (1.0-1.5)
6	82	71	57	42	29	19	13	8.2	5.3	3.4	2.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	10	6.6	4.3	2.7	1.7	1.1	0.8	0.5	0.3	0.2	0.1
1	19 (14-36)	13 (9.2-25)	8.2 (6.0-17)	5.4 (3.8-11)	3.4 (2.5-7.3)	2.3 (1.6-4.9)	1.5 (1.1-3.2)	1.0 (0.7-2.2)	0.7 (0.5-1.4)	0.4 (0.3-0.9)	0.3 (0.2-0.6)
2	31 (19-52)	22 (13-39)	15 (8.4-27)	9.8 (5.4-19)	6.4 (3.5-12)	4.3 (2.3-8.4)	2.9 (1.5-5.7)	1.9 (1.0-3.8)	1.3 (0.7-2.5)	0.8 (0.4-1.7)	0.5 (0.3-1.1)
3	46 (28-64)	34 (19-51)	25 (13-38)	17 (8.2-27)	11 (5.3-19)	7.7 (3.5-13)	5.2 (2.3-8.8)	3.5 (1.5-6.0)	2.3 (1.0-4.0)	1.5 (0.7-2.7)	1.0 (0.4-1.8)
4	61 (39-73)	50 (28-62)	38 (19-50)	27 (13-37)	19 (8.3-27)	13 (5.6-19)	9.0 (3.7-13)	6.1 (2.5-8.9)	4.1 (1.6-6.0)	2.7 (1.1-4.0)	1.8 (0.7-2.7)
5	75 (53-80)	65 (41-71)	54 (29-60)	41 (20-47)	30 (14-35)	22 (9.4-25)	15 (6.3-18)	10 (4.3-12)	7.0 (2.8-8.5)	4.7 (1.9-5.7)	3.1 (1.3-3.8)
6	83	78	69	58	45	34	24	17	12	8.0	5.4

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	8.8	6.0	4.0	2.7	1.8	1.3	0.9	0.6	0.4	0.3	0.2
1	16 (11-32)	11 (7.8-23)	7.7 (5.3-16)	5.2 (3.6-11)	3.6 (2.4-7.8)	2.5 (1.7-5.5)	1.7 (1.2-3.8)	1.2 (0.8-2.7)	0.8 (0.6-1.8)	0.6 (0.4-1.3)	0.4 (0.3-0.9)
2	26 (16-44)	19 (11-34)	13 (7.4-25)	9.3 (5.0-18)	6.5 (3.4-13)	4.6 (2.4-9.1)	3.2 (1.7-6.4)	2.3 (1.2-4.5)	1.6 (0.8-3.2)	1.1 (0.6-2.2)	0.8 (0.4-1.5)
3	38 (22-56)	30 (16-45)	22 (11-35)	16 (7.5-26)	11 (5.2-18)	8.0 (3.6-13)	5.7 (2.5-9.6)	4.0 (1.7-6.8)	2.8 (1.2-4.8)	2.0 (0.8-3.4)	1.4 (0.6-2.4)
4	52 (31-65)	43 (23-55)	33 (16-44)	25 (11-34)	18 (7.8-26)	13 (5.6-19)	9.6 (3.9-14)	6.8 (2.7-10)	4.8 (1.9-7.3)	3.4 (1.3-5.1)	2.4 (0.9-3.6)
5	65 (42-71)	57 (33-63)	47 (24-54)	37 (17-43)	28 (12-34)	21 (9.0-26)	16 (6.4-19)	11 (4.5-14)	8.0 (3.2-10)	5.7 (2.2-7.2)	4.0 (1.6-5.1)
6	76	70	61	51	41	32	24	18	13	9.3	6.6

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 women 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	7.4	5.3	3.8	2.7	2.0	1.5	1.1	0.8	0.6	0.4	0.3
1	13 (9.6-27)	9.8 (6.9-20)	7.1 (5.0-15)	5.1 (3.5-11)	3.8 (2.6-8.3)	2.8 (1.9-6.1)	2.1 (1.4-4.5)	1.5 (1.0-3.4)	1.1 (0.8-2.5)	0.8 (0.6-1.8)	0.6 (0.4-1.3)
2	22 (13-37)	16 (9.6-29)	12 (7.0-22)	9.0 (5.0-17)	6.7 (3.7-13)	5.0 (2.7-9.7)	3.7 (2.0-7.3)	2.8 (1.5-5.4)	2.0 (1.1-4.0)	1.5 (0.8-3.0)	1.1 (0.6-2.2)
3	32 (18-48)	25 (13-39)	20 (9.8-31)	15 (7.1-24)	11 (5.3-19)	8.6 (4.0-14)	6.4 (2.9-11)	4.8 (2.2-8.1)	3.6 (1.6-6.1)	2.6 (1.2-4.5)	1.9 (0.9-3.3)
4	44 (25-57)	37 (19-48)	29 (14-40)	23 (11-31)	18 (8.0-25)	14 (6.0-19)	11 (4.4-15)	8.0 (3.3-11)	6.0 (2.4-8.7)	4.5 (1.8-6.5)	3.3 (1.3-4.9)
5	57 (34-63)	49 (27-55)	41 (21-47)	33 (16-39)	27 (12-32)	21 (9.1-26)	17 (6.9-20)	13 (5.2-16)	9.8 (3.9-12)	7.4 (2.9-9.1)	5.5 (2.1-6.8)
6	68	62	54	46	38	32	25	20	15	12	8.9

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	6.9	5.3	4.0	3.1	2.4	1.9	1.5	1.2	0.9	0.7	0.6
1	12 (8.9-25)	9.4 (6.9-20)	7.3 (5.3-16)	5.7 (4.1-12)	4.5 (3.2-%10.0	3.6 (2.5-8.0)	2.8 (2.0-6.3)	2.2 (1.5-5.0)	1.7 (1.2-3.9)	1.4 (0.9-3.1)	1.1 (0.7-2.4)
2	19 (11-33)	15 (8.9-27)	12 (6.9-22)	9.6 (5.4-18)	7.8 (4.3-15)	6.2 (3.4-12)	5.0 (2.7-9.4)	3.9 (2.1-7.5)	3.1 (1.7-5.9)	2.4 (1.3-4.7)	1.9 (1.0-3.7)
3	28 (15-41)	23 (12-35)	19 (9.5-29)	15 (7.5-24)	12 (6.0-20)	10 (4.8-17)	8.2 (3.8-14)	6.6 (3.0-11)	5.2 (2.4-8.8)	4.1 (1.9-7.0)	3.3 (1.5-5.6)
4	38 (20-49)	32 (16-43)	27 (13-37)	23 (10-31)	19 (8.4-26)	16 (6.8-22)	13 (5.5-18)	10 (4.4-15)	8.4 (3.5-12)	6.8 (2.8-9.7)	5.4 (2.2-7.8)
5	49 (28-55)	43 (23-49)	37 (19-43)	32 (15-37)	27 (12-32)	23 (10-27)	19 (8.1-23)	16 (6.5-19)	13 (5.2-15)	11 (4.2-13)	8.5 (3.3-10)
6	60	55	48	42	37	32	28	23	19	16	13