

Palestine - 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 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	7.9	5.3	3.8	3.0	2.4	2.0	1.8	1.7	1.7	1.6	
1	19 (17-24)	12 (11-15)	8.2 (7.0-10)	5.9 (4.6-7.4)	4.5 (3.3-5.7)	3.7 (2.6-4.8)	3.1 (2.1-4.1)	2.8 (1.8-3.8)	2.6 (1.7-3.7)	2.5 (1.6-3.5)	2.4 (1.5-3.4)	
2	28 (22-39)	18 (15-26)	12 (9.4-17)	8.9 (6.2-13)	6.8 (4.3-10)	5.5 (3.2-8.8)	4.6 (2.5-7.7)	4.1 (2.2-7.1)	3.9 (2.0-6.7)	3.7 (1.9-6.5)	3.6 (1.8-6.3)	
3	40 (29-54)	27 (19-36)	18 (13-26)	13 (8.3-20)	%10.0 (5.7-17)	8.0 (4.2-14)	6.7 (3.3-12)	6.0 (2.9-11)	5.7 (2.6-11)	5.4 (2.5-10)	5.2 (2.4-10)	
4	55 (39-68)	38 (26-47)	26 (17-33)	19 (12-26)	14 (9.4-21)	11 (7.1-18)	9.6 (5.5-16)	8.6 (4.7-14)	8.1 (4.3-14)	7.7 (4.0-13)	7.4 (3.8-13)	
5	70 (59-79)	51 (41-59)	37 (29-41)	27 (20-32)	20 (15-26)	16 (12-21)	14 (10-18)	12 (8.8-17)	11 (8.0-16)	11 (7.4-15)	10 (7.1-15)	
6	83	66	49	36	28	22	19	17	16	15	14	

Ten year probability of osteoporotic 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	15	10	7.3	5.4	4.2	3.4	2.8	2.6	2.4	2.3	2.2
1	23 (21-28)	16 (14-19)	11 (9.2-13)	8.1 (6.4-9.8)	6.3 (4.7-7.8)	5.1 (3.6-6.6)	4.3 (2.9-5.7)	3.9 (2.6-5.3)	3.6 (2.4-5.0)	3.4 (2.2-4.8)	3.2 (2.1-4.5)
2	33 (27-44)	23 (19-31)	16 (12-22)	12 (8.5-17)	9.3 (6.0-14)	7.5 (4.5-12)	6.3 (3.6-10)	5.7 (3.1-9.5)	5.3 (2.8-9.0)	5.0 (2.6-8.5)	4.7 (2.5-8.1)
3	46 (35-57)	32 (25-41)	23 (17-33)	17 (11-26)	13 (8.0-22)	11 (6.0-19)	9.0 (4.7-16)	8.2 (4.1-15)	7.7 (3.7-14)	7.2 (3.4-14)	6.8 (3.2-13)
4	60 (46-71)	44 (32-52)	33 (23-41)	24 (17-33)	19 (13-28)	15 (9.9-24)	13 (7.7-20)	12 (6.7-19)	11 (6.0-18)	10 (5.5-17)	9.7 (5.1-16)
5	74 (66-81)	58 (49-64)	44 (36-49)	34 (27-40)	26 (21-33)	21 (17-28)	18 (14-24)	16 (12-22)	15 (11-21)	14 (9.8-20)	13 (9.2-19)
6	86	72	57	45	35	29	24	22	20	19	18

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	17	12	8.6	6.5	5.0	4.1	3.5	3.1	2.9	2.7	2.5
1	25 (23-29)	18 (16-21)	13 (11-15)	9.6 (7.6-11)	7.5 (5.6-9.3)	6.0 (4.3-7.8)	5.1 (3.5-6.9)	4.6 (3.1-6.3)	4.2 (2.8-5.9)	3.9 (2.6-5.5)	3.7 (2.4-5.2)
2	36 (30-45)	25 (21-33)	19 (14-24)	14 (10-19)	11 (7.2-16)	8.8 (5.4-13)	7.5 (4.4-12)	6.7 (3.8-11)	6.2 (3.4-10)	5.7 (3.1-9.6)	5.3 (2.8-9.0)
3	48 (38-57)	35 (28-45)	26 (19-36)	20 (13-30)	16 (9.6-25)	13 (7.2-21)	11 (5.7-18)	9.6 (4.9-17)	8.8 (4.4-16)	8.2 (4.0-15)	7.6 (3.7-14)
4	61 (49-70)	47 (36-55)	36 (26-45)	28 (20-37)	22 (15-31)	18 (12-26)	15 (9.4-23)	13 (8.0-22)	12 (7.1-20)	11 (6.4-19)	11 (5.9-18)
5	74 (68-80)	60 (53-65)	47 (41-53)	37 (31-44)	30 (24-37)	24 (20-31)	20 (16-27)	18 (14-25)	17 (12-24)	16 (11-22)	15 (10-21)
6	85	73	60	48	39	32	27	25	23	21	20

Ten year probability of osteoporotic 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	19	13	9.8	7.4	5.7	4.5	3.9	3.5	3.2	2.9	2.7
1	27 (25-30)	19 (17-22)	14 (12-16)	11 (8.6-13)	8.3 (6.4-10)	6.6 (4.8-8.6)	5.8 (4.1-7.7)	5.1 (3.5-7.0)	4.6 (3.1-6.5)	4.2 (2.8-6.0)	3.9 (2.5-5.5)
2	37 (32-45)	27 (23-34)	20 (16-25)	15 (11-21)	12 (8.2-17)	9.6 (6.1-14)	8.3 (5.0-13)	7.4 (4.3-12)	6.7 (3.7-11)	6.1 (3.3-10.0)	5.6 (3.0-9.2)
3	49 (40-57)	37 (30-47)	28 (21-38)	22 (15-31)	17 (11-26)	14 (8.1-22)	12 (6.6-20)	10 (5.6-18)	9.5 (4.9-17)	8.6 (4.3-16)	7.9 (3.9-14)
4	61 (51-67)	48 (38-56)	38 (29-47)	29 (22-39)	23 (17-33)	19 (13-28)	16 (11-25)	14 (9.0-23)	13 (7.8-21)	12 (6.9-20)	11 (6.2-18)
5	73 (68-77)	61 (55-65)	49 (43-55)	39 (34-46)	31 (27-39)	25 (21-32)	22 (17-29)	20 (15-27)	18 (13-25)	16 (11-23)	15 (10-21)
6	82	72	60	50	41	33	29	26	24	22	20

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	19	14	10	7.8	6.0	4.9	4.2	3.7	3.3	3.0	2.7
1	27 (24-32)	20 (17-24)	15 (12-18)	11 (8.9-13)	8.6 (6.6-10)	6.9 (5.2-8.0)	5.9 (4.3-6.8)	5.1 (3.7-6.0)	4.5 (3.2-5.4)	4.1 (2.8-4.8)	3.7 (2.5-4.4)
2	38 (31-47)	28 (23-36)	21 (16-27)	16 (12-21)	12 (8.6-16)	9.7 (6.6-13)	8.2 (5.4-11)	7.1 (4.5-9.6)	6.2 (3.9-8.5)	5.5 (3.4-7.6)	5.0 (3.0-6.9)
3	51 (41-62)	39 (30-50)	30 (22-40)	22 (16-31)	17 (11-24)	13 (8.8-20)	11 (7.1-17)	9.7 (6.0-15)	8.4 (5.1-13)	7.5 (4.5-12)	6.7 (3.9-11)
4	65 (55-72)	52 (42-61)	41 (32-49)	31 (24-39)	24 (18-31)	19 (14-25)	16 (11-22)	13 (9.4-19)	11 (8.0-17)	10 (7.0-15)	9.0 (6.2-14)
5	77 (70-80)	66 (58-71)	54 (46-59)	42 (36-48)	33 (27-38)	26 (21-31)	21 (18-26)	18 (15-23)	15 (13-20)	13 (11-18)	12 (9.8-16)
6	84	77	67	55	44	35	28	24	20	18	16

Ten year probability of osteoporotic 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	18	13	10	7.8	6.0	5.0	4.3	3.7	3.3	2.9	2.6
1	27 (22-42)	20 (16-31)	15 (12-23)	12 (8.7-16)	8.8 (6.6-12)	7.2 (5.3-9.1)	6.0 (4.4-7.2)	5.1 (3.7-5.9)	4.4 (3.2-5.2)	3.8 (2.8-4.6)	3.4 (2.4-4.1)
2	39 (28-57)	30 (21-45)	23 (16-34)	17 (12-26)	13 (8.6-19)	10 (6.8-15)	8.4 (5.6-11)	7.0 (4.6-9.2)	5.9 (3.9-8.0)	5.1 (3.4-7.1)	4.5 (2.9-6.4)
3	53 (37-68)	43 (28-57)	33 (21-45)	25 (15-35)	19 (11-27)	15 (9.0-21)	12 (7.3-17)	9.7 (6.1-14)	8.1 (5.1-11)	6.8 (4.4-9.7)	5.9 (3.8-8.3)
4	67 (48-77)	57 (38-67)	46 (29-56)	36 (22-45)	27 (17-34)	21 (13-27)	17 (11-22)	14 (9.3-18)	11 (7.9-15)	9.2 (6.8-13)	7.8 (5.9-11)
5	77 (61-82)	70 (51-76)	60 (41-66)	49 (32-55)	38 (25-43)	30 (20-35)	24 (17-28)	19 (14-23)	15 (12-19)	12 (10-16)	10 (9.0-13)
6	84	80	73	63	52	42	33	26	21	17	14

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	16	12	9.5	7.3	5.8	4.9	4.1	3.5	3.1	2.7	2.3
1	24 (19-37)	18 (14-28)	14 (11-21)	11 (8.0-16)	8.4 (6.2-12)	6.9 (5.1-9.3)	5.8 (4.2-7.4)	4.9 (3.5-5.9)	4.1 (3.0-4.8)	3.5 (2.5-4.1)	3.1 (2.2-3.6)
2	34 (24-50)	27 (19-40)	21 (14-31)	16 (11-24)	12 (8.2-18)	9.9 (6.6-15)	8.1 (5.4-12)	6.7 (4.4-9.3)	5.6 (3.7-7.5)	4.8 (3.1-6.2)	4.1 (2.7-5.4)
3	46 (32-60)	37 (25-51)	29 (19-41)	23 (14-32)	18 (11-25)	14 (8.8-20)	11 (7.1-16)	9.4 (5.9-13)	7.7 (4.9-11)	6.4 (4.1-9.0)	5.4 (3.5-7.5)
4	58 (40-69)	49 (32-60)	40 (25-50)	32 (19-40)	25 (15-32)	20 (12-26)	16 (10-21)	13 (8.5-17)	11 (7.2-14)	8.8 (6.1-12)	7.3 (5.3-9.9)
5	69 (51-75)	61 (43-68)	53 (35-59)	43 (27-49)	35 (22-40)	28 (18-33)	23 (15-27)	18 (13-22)	15 (11-18)	12 (9.2-15)	9.8 (7.9-12)
6	78	72	65	56	47	39	32	25	20	16	13

Ten year probability of osteoporotic 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	14	11	8.4	6.5	5.4	4.5	3.8	3.2	2.8	2.4	2.0
1	20 (15-32)	16 (12-25)	12 (9.1-20)	9.7 (7.0-15)	7.9 (5.7-12)	6.5 (4.7-9.4)	5.4 (3.9-7.5)	4.5 (3.2-6.1)	3.8 (2.7-4.9)	3.2 (2.3-4.0)	2.7 (1.9-3.3)
2	29 (20-42)	23 (16-35)	18 (12-28)	14 (9.4-22)	12 (7.6-17)	9.4 (6.2-14)	7.8 (5.1-11)	6.4 (4.2-9.2)	5.3 (3.5-7.5)	4.4 (2.9-6.1)	3.7 (2.4-5.0)
3	39 (26-52)	32 (21-44)	26 (16-36)	20 (13-29)	17 (10-23)	14 (8.2-19)	11 (6.7-16)	9.1 (5.6-13)	7.5 (4.6-11)	6.2 (3.8-8.7)	5.1 (3.2-7.2)
4	50 (34-60)	43 (27-53)	35 (22-45)	29 (17-37)	24 (14-30)	19 (11-25)	16 (9.5-21)	13 (7.9-17)	11 (6.6-14)	8.6 (5.6-11)	7.1 (4.7-9.5)
5	61 (42-67)	54 (35-60)	46 (29-53)	39 (23-45)	32 (19-38)	27 (16-32)	22 (14-27)	18 (11-22)	15 (9.6-18)	12 (8.1-15)	9.9 (6.9-12)
6	70	64	57	50	43	37	31	25	21	17	14

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	13	11	8.6	7.1	6.0	5.2	4.4	3.8	3.3	2.8	2.4
1	19 (13-29)	15 (11-24)	12 (8.6-20)	10 (7.0-16)	8.7 (5.9-14)	7.4 (5.0-11)	6.3 (4.2-9.4)	5.3 (3.6-7.8)	4.5 (3.1-6.4)	3.8 (2.6-5.3)	3.3 (2.2-4.4)
2	25 (17-37)	21 (14-32)	17 (11-26)	14 (9.2-22)	12 (7.9-18)	10 (6.7-15)	8.9 (5.6-13)	7.5 (4.7-11)	6.3 (4.0-9.1)	5.4 (3.4-7.6)	4.5 (2.9-6.4)
3	34 (22-45)	29 (18-39)	24 (15-33)	20 (12-28)	17 (10-24)	15 (8.9-21)	12 (7.5-18)	11 (6.3-15)	8.9 (5.3-12)	7.5 (4.5-11)	6.3 (3.8-8.9)
4	43 (28-53)	37 (23-47)	32 (20-41)	27 (16-35)	24 (14-31)	20 (12-27)	17 (10-23)	15 (8.5-19)	12 (7.2-16)	10 (6.2-14)	8.8 (5.2-12)
5	53 (35-59)	47 (30-54)	41 (25-48)	36 (21-42)	31 (18-38)	27 (16-33)	24 (14-29)	20 (12-25)	17 (10-21)	15 (8.6-18)	12 (7.4-15)
6	63	57	51	45	40	36	31	27	23	20	17