

Israel - The probabilities of a major osteoporotic fracture in men

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 Israel. 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	19	12	7.6	5.2	3.8	2.9	2.4	2.0	1.8	1.7	1.6
1	29 (23-36)	18 (16-23)	12 (10-15)	8.0 (6.7-10)	5.8 (4.6-7.3)	4.5 (3.3-5.6)	3.6 (2.5-4.7)	3.1 (2.1-4.1)	2.7 (1.8-3.8)	2.6 (1.7-3.6)	2.5 (1.6-3.5)
2	41 (31-55)	27 (21-37)	18 (14-25)	12 (9.1-17)	8.7 (6.1-12)	6.7 (4.3-10)	5.4 (3.2-8.7)	4.6 (2.5-7.6)	4.1 (2.2-6.9)	3.8 (2.0-6.6)	3.7 (1.9-6.4)
3	55 (41-70)	38 (27-50)	26 (18-34)	18 (13-25)	13 (8.2-20)	9.8 (5.7-16)	7.9 (4.2-14)	6.6 (3.3-12)	5.9 (2.8-11)	5.6 (2.6-11)	5.3 (2.4-10)
4	70 (54-82)	52 (37-64)	36 (25-45)	25 (17-32)	18 (12-25)	14 (9.3-21)	11 (7.0-18)	9.5 (5.5-15)	8.4 (4.6-14)	7.9 (4.2-13)	7.6 (3.9-13)
5	82 (74-89)	66 (55-75)	49 (39-56)	35 (27-39)	26 (20-31)	20 (15-25)	16 (12-21)	13 (10-18)	12 (8.6-17)	11 (7.8-16)	11 (7.3-15)
6	91	79	63	47	35	27	22	18	16	15	15

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

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	22	14	9.6	6.7	5.0	3.9	3.2	2.7	2.4	2.2	2.1
1	32 (27-38)	21 (19-25)	14 (13-17)	10 (8.5-12)	7.5 (5.9-9.1)	5.9 (4.3-7.3)	4.8 (3.4-6.2)	4.0 (2.7-5.3)	3.6 (2.4-4.9)	3.3 (2.2-4.7)	3.1 (2.0-4.4)
2	44 (35-56)	30 (25-40)	21 (17-28)	15 (11-20)	11 (7.8-16)	8.6 (5.6-13)	7.0 (4.2-11)	5.8 (3.3-9.5)	5.3 (2.9-8.8)	4.9 (2.6-8.3)	4.6 (2.4-7.9)
3	58 (45-70)	42 (32-52)	30 (23-38)	21 (16-30)	16 (11-24)	12 (7.5-20)	10 (5.6-17)	8.4 (4.4-15)	7.6 (3.8-14)	7.0 (3.4-13)	6.6 (3.1-12)
4	71 (58-81)	55 (42-65)	41 (30-48)	30 (21-38)	23 (16-31)	18 (12-26)	14 (9.2-22)	12 (7.1-19)	11 (6.1-18)	9.9 (5.4-17)	9.4 (5.0-16)
5	82 (76-88)	69 (60-76)	53 (45-59)	41 (33-46)	31 (25-37)	24 (19-31)	20 (16-26)	16 (13-22)	15 (11-21)	14 (9.8-19)	13 (9.0-18)
6	89	80	67	53	41	33	27	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	23	16	11	8.3	6.3	4.9	4.0	3.3	3.0	2.8	2.6
1	33 (30-37)	23 (21-27)	17 (15-19)	12 (10-14)	9.3 (7.3-11)	7.3 (5.5-9.0)	5.9 (4.2-7.6)	4.9 (3.4-6.6)	4.5 (3.0-6.1)	4.1 (2.7-5.7)	3.8 (2.5-5.3)
2	44 (37-54)	32 (27-41)	24 (20-30)	18 (14-23)	13 (9.7-18)	11 (7.1-15)	8.6 (5.4-13)	7.1 (4.2-11)	6.5 (3.7-10)	5.9 (3.3-9.8)	5.5 (3.0-9.2)
3	57 (47-66)	44 (35-52)	33 (26-42)	25 (18-34)	19 (13-28)	15 (9.4-24)	12 (7.1-20)	10 (5.6-18)	9.2 (4.8-16)	8.4 (4.2-15)	7.8 (3.8-14)
4	69 (59-77)	56 (45-63)	44 (33-51)	34 (25-42)	26 (19-35)	21 (15-30)	17 (11-25)	14 (8.9-22)	13 (7.6-21)	12 (6.7-19)	11 (6.1-18)
5	79 (74-83)	68 (61-73)	56 (49-60)	44 (38-50)	35 (29-42)	28 (23-35)	23 (19-30)	19 (15-26)	17 (13-24)	16 (12-22)	15 (11-21)
6	86	78	67	56	45	37	31	26	23	22	20

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

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	24	17	13	9.6	7.4	5.8	4.7	4.0	3.5	3.2	2.9
1	33 (31-36)	25 (22-27)	18 (16-21)	14 (12-16)	11 (8.6-13)	8.5 (6.5-10)	6.9 (5.0-8.8)	5.8 (4.1-7.6)	5.2 (3.5-7.0)	4.7 (3.1-6.5)	4.3 (2.8-6.0)
2	44 (37-52)	34 (29-41)	26 (21-31)	20 (16-25)	15 (11-20)	12 (8.5-17)	9.8 (6.4-14)	8.3 (5.1-13)	7.4 (4.4-12)	6.7 (3.8-11)	6.1 (3.4-10)
3	55 (47-63)	44 (36-52)	35 (28-43)	27 (21-36)	21 (15-30)	17 (11-26)	14 (8.5-22)	12 (6.8-19)	10 (5.7-18)	9.4 (5.0-16)	8.6 (4.4-15)
4	66 (58-72)	55 (46-62)	45 (36-52)	36 (28-44)	29 (22-38)	23 (17-32)	19 (14-28)	16 (11-24)	14 (9.0-22)	13 (7.8-21)	12 (6.9-19)
5	75 (71-79)	66 (61-70)	56 (50-61)	46 (40-52)	37 (32-45)	31 (26-38)	25 (21-32)	21 (17-28)	19 (15-26)	18 (13-24)	16 (11-23)
6	82	75	66	56	47	39	33	28	25	23	21

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	25	19	14	11	8.5	6.7	5.4	4.6	4.0	3.6	3.2
1	35 (31-41)	27 (23-32)	20 (17-25)	16 (13-19)	12 (9.7-15)	9.5 (7.4-11)	7.6 (5.8-9.1)	6.4 (4.7-7.5)	5.6 (4.0-6.5)	4.9 (3.5-5.8)	4.4 (3.1-5.3)
2	46 (39-55)	37 (30-45)	29 (23-36)	22 (17-28)	17 (13-22)	14 (9.8-18)	11 (7.5-14)	8.9 (6.1-12)	7.7 (5.1-10)	6.8 (4.3-9.3)	6.0 (3.8-8.3)
3	59 (50-67)	49 (39-58)	39 (30-49)	31 (23-40)	24 (17-33)	19 (13-26)	15 (10-21)	12 (8.0-18)	11 (6.7-16)	9.2 (5.7-14)	8.2 (5.0-13)
4	69 (62-75)	61 (52-68)	51 (42-59)	41 (33-49)	33 (26-41)	26 (20-33)	21 (15-27)	17 (12-23)	14 (10-20)	13 (8.8-18)	11 (7.6-16)
5	77 (72-81)	71 (64-75)	62 (55-68)	53 (45-59)	44 (37-50)	35 (29-41)	28 (23-34)	23 (19-29)	20 (16-25)	17 (14-22)	15 (12-19)
6	82	78	72	64	55	46	37	31	26	22	19

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

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	25	19	15	12	9.4	7.5	6.0	5.1	4.4	3.8	3.4
1	36 (30-56)	29 (23-46)	23 (18-37)	18 (14-29)	14 (11-23)	11 (8.4-17)	8.9 (6.5-13)	7.4 (5.4-10)	6.3 (4.5-8.3)	5.4 (3.9-6.8)	4.7 (3.3-5.6)
2	49 (37-66)	41 (30-58)	34 (24-49)	27 (18-41)	21 (14-33)	17 (11-26)	13 (8.7-20)	11 (7.1-16)	9.0 (5.9-13)	7.6 (4.9-11)	6.5 (4.2-8.7)
3	61 (47-74)	53 (39-67)	46 (31-59)	38 (25-51)	31 (19-42)	25 (15-34)	19 (12-28)	16 (9.4-23)	13 (7.8-19)	11 (6.6-15)	9.1 (5.6-13)
4	71 (57-79)	65 (49-74)	58 (41-68)	50 (33-61)	42 (27-52)	35 (21-44)	28 (17-36)	23 (14-29)	19 (12-24)	15 (9.8-20)	13 (8.4-17)
5	78 (65-83)	74 (58-79)	68 (51-75)	62 (44-69)	54 (36-61)	46 (30-53)	38 (24-44)	32 (20-37)	26 (17-31)	22 (15-26)	18 (13-22)
6	83	81	77	72	66	59	50	43	36	30	25

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	23	18	15	12	9.5	7.6	6.2	5.3	4.5	3.9	3.4
1	33 (26-52)	27 (21-44)	22 (17-37)	18 (14-30)	14 (11-24)	12 (8.6-19)	9.4 (6.8-15)	7.9 (5.7-12)	6.6 (4.8-9.9)	5.6 (4.1-8.1)	4.8 (3.5-6.7)
2	44 (33-62)	38 (27-55)	32 (22-47)	26 (18-40)	21 (14-33)	17 (11-27)	14 (9.2-22)	12 (7.7-18)	9.7 (6.4-15)	8.2 (5.3-12)	6.9 (4.5-10)
3	55 (41-69)	49 (35-63)	43 (29-57)	36 (24-50)	30 (19-43)	25 (16-36)	20 (12-29)	17 (10-24)	14 (8.6-20)	12 (7.1-17)	9.9 (6.0-14)
4	65 (50-75)	60 (43-70)	54 (37-65)	48 (31-58)	41 (25-52)	35 (21-44)	29 (17-37)	24 (14-31)	20 (12-26)	17 (10-22)	14 (8.5-18)
5	74 (59-79)	69 (52-75)	64 (46-71)	59 (40-65)	52 (34-59)	46 (28-52)	39 (23-45)	34 (20-39)	28 (17-33)	24 (14-28)	20 (12-24)
6	80	77	73	69	63	57	50	44	38	33	28

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

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	18	15	13	10	8.6	7.1	6.0	5.2	4.5	3.9	3.5
1	27 (21-44)	23 (17-38)	19 (14-32)	16 (12-27)	13 (9.5-22)	11 (7.7-18)	9.0 (6.4-15)	7.7 (5.5-12)	6.6 (4.7-10)	5.7 (4.0-8.7)	5.0 (3.5-7.3)
2	37 (27-54)	32 (22-48)	27 (19-41)	23 (15-35)	19 (13-30)	16 (10-25)	13 (8.6-21)	11 (7.4-18)	9.8 (6.3-15)	8.4 (5.4-13)	7.2 (4.6-11)
3	48 (34-63)	43 (29-57)	38 (24-51)	32 (20-45)	27 (17-39)	23 (14-33)	20 (12-28)	17 (10-24)	14 (8.5-21)	12 (7.2-18)	10 (6.2-15)
4	59 (42-70)	54 (37-65)	49 (32-60)	43 (27-54)	38 (22-48)	32 (19-42)	28 (16-36)	24 (14-31)	21 (12-27)	18 (10-23)	15 (8.6-20)
5	69 (51-74)	65 (46-71)	60 (40-66)	55 (35-61)	49 (30-55)	43 (25-49)	38 (22-44)	33 (19-39)	29 (16-34)	25 (14-29)	21 (12-25)
6	76	73	70	66	60	55	49	44	39	34	30

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	14	12	10	8.5	7.2	6.1	5.4	4.8	4.2	3.8	3.4
1	20 (14-32)	17 (12-28)	15 (10-24)	13 (8.8-20)	11 (7.4-17)	9.0 (6.2-15)	7.9 (5.4-13)	6.9 (4.8-11)	6.1 (4.2-9.5)	5.4 (3.7-8.3)	4.8 (3.3-7.2)
2	28 (19-41)	24 (16-36)	21 (14-31)	18 (12-27)	15 (9.9-23)	13 (8.4-20)	11 (7.3-18)	10 (6.4-15)	8.9 (5.6-13)	7.8 (4.9-12)	6.9 (4.3-10)
3	37 (25-50)	33 (21-45)	29 (18-40)	25 (16-35)	22 (13-31)	19 (11-27)	16 (9.9-24)	15 (8.6-21)	13 (7.6-18)	11 (6.6-16)	9.8 (5.8-14)
4	47 (31-58)	43 (28-53)	38 (24-48)	34 (21-43)	30 (18-39)	26 (15-34)	23 (13-30)	21 (12-27)	18 (10-24)	16 (9.2-21)	14 (8.1-19)
5	57 (39-64)	53 (35-60)	49 (31-56)	44 (27-51)	40 (23-46)	35 (20-41)	32 (18-37)	28 (16-34)	25 (14-30)	22 (12-27)	20 (11-24)
6	66	63	59	55	51	46	42	38	34	31	27