

Israel - 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 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	15	9.7	6.5	4.7	3.6	3.0	2.5	2.3	2.1	2.0	2.0	
1	23 (20-29)	15 (13-19)	10 (8.6-13)	7.2 (5.7-9.1)	5.5 (4.1-6.9)	4.5 (3.1-5.8)	3.8 (2.5-5.0)	3.4 (2.2-4.7)	3.2 (2.1-4.4)	3.1 (2.0-4.3)	2.9 (1.9-4.1)	
2	34 (26-47)	22 (18-31)	15 (12-21)	11 (7.6-15)	8.3 (5.3-13)	6.7 (3.9-11)	5.6 (3.1-9.3)	5.0 (2.7-8.6)	4.7 (2.5-8.2)	4.5 (2.3-7.9)	4.3 (2.2-7.6)	
3	48 (35-62)	32 (24-42)	22 (16-31)	16 (10-24)	12 (7.0-20)	9.7 (5.2-17)	8.2 (4.1-15)	7.3 (3.5-14)	6.9 (3.2-13)	6.6 (3.0-13)	6.3 (2.9-12)	
4	63 (46-76)	45 (31-55)	31 (21-39)	23 (15-31)	17 (12-25)	14 (8.7-22)	12 (6.8-19)	10 (5.8-17)	9.8 (5.3-17)	9.4 (4.9-16)	9.0 (4.7-15)	
5	77 (67-86)	59 (49-67)	43 (34-48)	32 (25-37)	24 (19-30)	20 (15-26)	16 (12-22)	15 (11-20)	14 (9.7-19)	13 (9.1-19)	13 (8.6-18)	
6	89	74	57	43	33	27	22	20	19	18	17	

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	18	12	8.8	6.6	5.1	4.2	3.5	3.2	3.0	2.8	2.7
1	27 (24-32)	19 (16-22)	13 (11-16)	9.8 (7.8-12)	7.7 (5.7-9.6)	6.3 (4.4-8.1)	5.3 (3.6-7.0)	4.8 (3.2-6.6)	4.5 (3.0-6.2)	4.2 (2.8-5.9)	4.0 (2.6-5.6)
2	38 (32-50)	27 (22-36)	19 (15-26)	14 (10-20)	11 (7.3-17)	9.2 (5.6-14)	7.7 (4.4-12)	7.1 (3.9-12)	6.6 (3.5-11)	6.2 (3.3-11)	5.9 (3.1-10)
3	52 (41-64)	38 (29-48)	28 (20-38)	21 (14-32)	16 (9.7-26)	13 (7.3-23)	11 (5.8-20)	10 (5.0-18)	9.5 (4.6-17)	8.9 (4.2-17)	8.4 (3.9-16)
4	67 (52-77)	51 (38-59)	38 (27-48)	29 (20-39)	23 (16-33)	19 (12-28)	16 (9.5-25)	14 (8.2-23)	13 (7.4-22)	13 (6.8-21)	12 (6.4-20)
5	80 (73-87)	65 (56-71)	51 (42-56)	40 (32-47)	31 (25-39)	26 (21-33)	22 (17-29)	20 (15-27)	18 (13-25)	17 (12-24)	16 (11-23)
6	90	79	64	52	42	35	29	27	25	23	22

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	22	16	11	8.7	6.8	5.5	4.7	4.3	4.0	3.7	3.4
1	32 (29-36)	23 (21-26)	17 (14-20)	13 (10-15)	10 (7.6-13)	8.2 (5.9-11)	7.0 (4.9-9.4)	6.4 (4.3-8.7)	5.9 (3.9-8.1)	5.4 (3.6-7.6)	5.1 (3.3-7.2)
2	44 (38-55)	33 (27-41)	24 (19-31)	19 (13-25)	15 (9.7-21)	12 (7.4-18)	10 (6.0-16)	9.2 (5.2-15)	8.5 (4.7-14)	7.9 (4.2-13)	7.4 (3.9-12)
3	58 (48-68)	44 (36-56)	34 (25-46)	26 (18-39)	21 (13-33)	17 (9.7-28)	14 (7.8-25)	13 (6.8-23)	12 (6.0-22)	11 (5.5-20)	10 (5.1-19)
4	72 (59-80)	58 (45-66)	45 (34-56)	36 (26-47)	29 (21-40)	23 (16-35)	20 (13-31)	18 (11-29)	17 (9.7-27)	16 (8.8-26)	15 (8.1-24)
5	83 (78-88)	71 (64-75)	58 (51-65)	47 (40-55)	38 (32-47)	32 (26-40)	27 (21-36)	25 (19-33)	23 (17-31)	21 (15-29)	20 (14-28)
6	91	83	71	60	50	42	36	33	31	29	27

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	27	19	14	11	8.6	6.9	6.0	5.3	4.8	4.4	4.1
1	37 (34-41)	28 (25-31)	21 (18-23)	16 (13-19)	12 (9.5-16)	10 (7.3-13)	8.7 (6.2-12)	7.8 (5.4-11)	7.1 (4.8-9.8)	6.5 (4.3-9.1)	6.0 (3.9-8.4)
2	50 (44-59)	38 (32-46)	29 (23-36)	22 (17-30)	18 (12-25)	14 (9.2-21)	13 (7.6-19)	11 (6.5-18)	10 (5.7-16)	9.3 (5.1-15)	8.6 (4.7-14)
3	63 (54-72)	50 (42-62)	39 (30-52)	31 (22-44)	25 (16-38)	20 (12-32)	18 (9.9-29)	16 (8.5-27)	14 (7.4-25)	13 (6.6-23)	12 (6.0-22)
4	75 (65-81)	63 (52-71)	51 (40-62)	41 (32-53)	33 (25-46)	27 (20-39)	24 (16-36)	22 (14-33)	20 (12-31)	18 (11-29)	17 (9.6-27)
5	85 (81-88)	75 (70-80)	64 (58-70)	53 (47-61)	44 (38-53)	36 (31-46)	32 (26-42)	29 (22-38)	26 (19-36)	24 (17-33)	23 (16-31)
6	91	85	75	65	55	47	42	38	35	32	30

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	31	23	17	13	10	8.4	7.3	6.4	5.7	5.1	4.6
1	43 (39-50)	33 (29-38)	25 (21-29)	19 (16-22)	15 (12-17)	12 (9.1-14)	10 (7.6-12)	8.8 (6.5-10)	7.8 (5.6-9.2)	7.0 (5.0-8.3)	6.3 (4.4-7.5)
2	58 (49-68)	45 (37-55)	35 (28-44)	27 (20-34)	21 (15-27)	17 (12-22)	14 (9.5-18)	12 (8.0-16)	11 (6.8-14)	9.5 (6.0-13)	8.6 (5.3-12)
3	72 (61-81)	59 (48-71)	47 (36-59)	37 (27-49)	29 (20-39)	23 (15-33)	19 (12-28)	17 (10-25)	14 (8.9-22)	13 (7.8-20)	12 (6.8-18)
4	83 (75-87)	73 (63-80)	61 (50-70)	49 (39-59)	39 (30-48)	31 (23-41)	26 (19-35)	22 (16-31)	19 (14-28)	17 (12-25)	15 (11-23)
5	89 (86-91)	83 (78-87)	74 (67-79)	62 (55-68)	51 (44-57)	41 (35-48)	35 (30-42)	30 (25-37)	26 (22-33)	23 (19-29)	20 (17-27)
6	92	89	84	75	64	54	45	39	34	29	26

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	35	27	21	16	12	10	8.5	7.3	6.3	5.5	4.9
1	50 (43-70)	40 (33-57)	31 (25-45)	23 (18-33)	18 (14-25)	14 (11-19)	12 (9.0-15)	10 (7.5-12)	8.6 (6.4-9.9)	7.4 (5.5-8.7)	6.5 (4.8-7.7)
2	65 (53-82)	54 (42-73)	43 (32-61)	34 (24-49)	26 (18-38)	21 (14-30)	17 (11-24)	14 (9.4-19)	12 (7.9-15)	10 (6.7-14)	8.6 (5.8-12)
3	77 (65-87)	68 (53-81)	58 (41-73)	47 (31-62)	37 (24-50)	30 (19-41)	24 (15-33)	19 (12-27)	16 (10-22)	14 (8.7-19)	11 (7.5-16)
4	85 (75-90)	80 (65-87)	72 (53-81)	62 (42-72)	50 (33-61)	41 (27-51)	33 (22-42)	27 (18-34)	22 (16-29)	18 (13-24)	15 (12-21)
5	89 (83-91)	86 (77-90)	82 (68-86)	75 (58-80)	65 (47-71)	55 (39-61)	46 (33-51)	37 (28-43)	30 (24-35)	25 (20-30)	21 (18-25)
6	91	90	88	84	78	69	60	50	41	34	28

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	36	28	22	17	13	11	9.1	7.7	6.6	5.7	4.9
1	50 (43-69)	40 (34-59)	32 (26-47)	25 (20-37)	20 (15-28)	16 (12-22)	13 (9.9-18)	11 (8.2-14)	9.1 (6.8-11)	7.7 (5.7-9.0)	6.6 (4.8-7.6)
2	63 (52-79)	54 (42-72)	44 (33-63)	35 (26-52)	28 (20-42)	23 (16-34)	19 (13-27)	15 (10-22)	13 (8.6-18)	11 (7.1-14)	8.9 (6.0-12)
3	74 (62-84)	67 (52-80)	58 (42-73)	48 (33-63)	39 (26-53)	32 (21-44)	26 (17-36)	22 (14-29)	18 (11-24)	15 (9.4-20)	12 (7.8-17)
4	82 (71-87)	77 (62-84)	70 (52-79)	62 (43-72)	52 (34-63)	44 (28-54)	37 (23-45)	30 (19-37)	25 (16-31)	20 (14-26)	17 (12-21)
5	86 (78-89)	83 (73-87)	79 (65-84)	73 (56-79)	66 (47-71)	57 (40-63)	49 (34-55)	41 (28-46)	34 (24-39)	28 (20-32)	23 (17-27)
6	88	87	85	82	77	70	62	54	45	37	31

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	33	27	21	17	14	12	9.9	8.4	7.1	6.1	5.2
1	45 (37-63)	37 (30-54)	30 (24-45)	24 (19-36)	20 (15-29)	17 (13-24)	14 (10-19)	12 (8.6-16)	9.9 (7.2-13)	8.3 (6.1-10)	7.1 (5.1-8.4)
2	57 (46-73)	49 (38-66)	41 (31-58)	34 (24-49)	28 (20-41)	24 (16-34)	20 (13-28)	16 (11-23)	14 (9.2-19)	11 (7.7-16)	9.6 (6.4-13)
3	68 (55-80)	61 (47-75)	54 (39-68)	45 (31-59)	39 (26-51)	33 (21-44)	27 (18-37)	23 (15-31)	19 (12-26)	16 (10-22)	13 (8.4-18)
4	77 (64-84)	72 (56-80)	65 (48-75)	58 (40-68)	51 (34-61)	44 (29-53)	37 (24-46)	31 (20-39)	26 (17-33)	22 (14-28)	18 (12-23)
5	82 (72-86)	79 (66-84)	75 (59-80)	69 (51-75)	63 (45-69)	56 (39-63)	49 (33-55)	42 (29-48)	36 (24-41)	30 (21-35)	25 (18-30)
6	85	84	82	78	74	68	62	54	47	40	34

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	29	24	19	16	14	12	10	8.6	7.4	6.3	5.4
1	38 (30-52)	32 (24-45)	26 (20-38)	22 (16-31)	19 (14-27)	16 (12-22)	14 (9.9-19)	12 (8.4-16)	10 (7.2-13)	8.6 (6.1-11)	7.3 (5.2-9.0)
2	48 (37-62)	42 (31-55)	35 (25-48)	30 (21-42)	26 (18-36)	22 (15-31)	19 (13-27)	16 (11-23)	14 (9.1-19)	12 (7.7-16)	9.9 (6.5-13)
3	58 (45-70)	52 (38-64)	45 (32-58)	39 (27-51)	35 (23-45)	30 (20-40)	26 (17-34)	22 (14-30)	19 (12-26)	16 (10-22)	14 (8.6-19)
4	67 (54-76)	62 (47-71)	56 (41-66)	50 (35-60)	45 (30-54)	40 (26-48)	34 (23-43)	30 (20-37)	26 (17-32)	22 (14-28)	18 (12-24)
5	75 (62-80)	71 (56-76)	66 (50-72)	61 (44-67)	56 (39-62)	50 (35-57)	45 (30-52)	39 (27-46)	34 (23-40)	29 (20-35)	25 (17-30)
6	80	78	75	71	66	61	56	50	44	39	34