

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 body mass index (BMI kg/m²), 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.

Age = 50 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.8	2.5	2.4	2.1	1.8	1.6	1.4
1	4.7 (3.2-7.0)	4.0 (2.8-5.8)	3.7 (2.5-5.2)	3.2 (2.2-4.5)	2.8 (1.9-3.9)	2.5 (1.7-3.4)	2.1 (1.4-3.0)
2	7.6 (4.2-12)	6.4 (3.5-11)	5.8 (3.1-9.8)	5.0 (2.7-8.6)	4.4 (2.3-7.5)	3.8 (2.0-6.6)	3.3 (1.7-5.8)
3	12 (6.2-20)	10 (4.9-18)	8.9 (4.3-16)	7.7 (3.7-14)	6.7 (3.2-12)	5.8 (2.8-11)	5.1 (2.4-9.4)
4	19 (10-29)	15 (8.6-24)	13 (7.3-21)	12 (6.2-19)	10 (5.4-16)	8.8 (4.6-14)	7.6 (4.0-13)
5	29 (18-36)	23 (15-30)	20 (13-26)	17 (12-23)	15 (10-20)	13 (8.7-17)	11 (7.6-15)
6	43	34	29	25	22	19	16

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.5	3.9	3.6	3.1	2.7	2.4	2.1
1	7.3 (5.2-11)	6.2 (4.3-8.6)	5.6 (3.9-7.6)	4.9 (3.3-6.6)	4.2 (2.9-5.7)	3.7 (2.5-5.0)	3.2 (2.2-4.3)
2	12 (6.8-18)	9.7 (5.5-15)	8.6 (4.8-14)	7.5 (4.1-12)	6.5 (3.5-11)	5.7 (3.1-9.6)	5.0 (2.7-8.4)
3	18 (10-29)	15 (7.9-25)	13 (6.7-23)	11 (5.7-20)	9.9 (4.9-18)	8.6 (4.3-15)	7.5 (3.7-14)
4	28 (16-40)	23 (14-34)	19 (11-30)	17 (9.7-27)	15 (8.3-23)	13 (7.1-21)	11 (6.2-18)
5	41 (28-50)	33 (23-41)	28 (20-36)	25 (17-32)	21 (15-28)	19 (13-25)	16 (11-22)
6	58	47	40	35	31	27	24

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.9	5.8	5.3	4.6	4.0	3.5	3.0
1	11 (8.2-15)	9.2 (6.6-12)	8.2 (5.8-11)	7.1 (4.9-9.4)	6.2 (4.3-8.1)	5.3 (3.7-7.0)	4.7 (3.2-6.1)
2	17 (11-26)	14 (8.5-21)	12 (7.1-20)	11 (6.1-17)	9.4 (5.3-15)	8.1 (4.5-13)	7.1 (3.9-12)
3	27 (16-39)	22 (12-34)	19 (10-31)	16 (8.6-27)	14 (7.4-24)	12 (6.3-21)	11 (5.5-19)
4	39 (25-53)	32 (20-45)	27 (17-40)	24 (15-36)	21 (12-32)	18 (11-28)	16 (9.1-25)
5	55 (41-63)	45 (33-54)	38 (29-48)	34 (25-42)	30 (22-38)	26 (19-33)	23 (16-29)
6	71	61	52	46	41	36	32

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	8.4	7.4	6.4	5.5	4.8	4.1
1	16 (12-21)	13 (9.7-17)	11 (8.2-15)	9.8 (7.0-13)	8.5 (6.0-11)	7.3 (5.2-9.4)	6.3 (4.4-8.1)
2	25 (17-35)	20 (13-28)	17 (10-26)	15 (8.8-22)	13 (7.5-20)	11 (6.4-17)	9.6 (5.5-15)
3	36 (25-49)	29 (19-43)	25 (15-39)	22 (13-34)	19 (11-30)	16 (9.1-27)	14 (7.8-24)
4	50 (36-64)	42 (29-56)	36 (25-50)	31 (21-45)	27 (18-40)	24 (15-35)	21 (13-31)
5	66 (54-74)	56 (45-66)	49 (39-59)	43 (34-53)	38 (29-47)	33 (26-42)	29 (22-37)
6	80	72	64	57	51	46	40

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	12	10	8.8	7.5	6.5	5.6
1	23 (18-28)	18 (14-22)	15 (12-19)	13 (9.8-16)	11 (8.3-14)	9.5 (7.1-12)	8.2 (6.0-10)
2	35 (25-45)	27 (19-36)	22 (15-30)	19 (12-26)	16 (11-23)	14 (9.0-19)	12 (7.6-17)
3	50 (36-64)	40 (28-54)	32 (21-46)	28 (18-40)	24 (15-35)	20 (13-30)	17 (11-26)
4	65 (54-77)	55 (44-69)	46 (35-60)	40 (30-53)	34 (25-47)	29 (21-41)	25 (18-36)
5	78 (74-84)	71 (65-79)	61 (54-70)	54 (47-64)	48 (40-57)	41 (35-50)	36 (29-44)
6	86	83	77	70	63	56	50

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	17	14	12	10	8.5	7.3
1	33 (25-46)	26 (20-35)	21 (16-26)	18 (13-21)	15 (11-18)	13 (9.5-15)	11 (8.0-13)
2	48 (34-64)	39 (27-53)	32 (21-42)	27 (18-35)	23 (15-30)	19 (12-25)	16 (10-21)
3	63 (48-77)	55 (39-70)	46 (30-61)	39 (26-54)	33 (22-46)	28 (18-40)	24 (15-34)
4	75 (62-84)	70 (55-82)	62 (47-76)	55 (40-69)	48 (34-62)	41 (29-55)	35 (24-47)
5	83 (75-87)	81 (72-86)	77 (66-84)	70 (59-79)	64 (52-73)	56 (45-66)	49 (39-58)
6	87	87	86	83	78	72	65

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	26	21	18	15	12	10	8.8
1	39 (31-54)	32 (25-45)	26 (20-34)	22 (17-29)	19 (14-24)	16 (12-20)	13 (9.7-16)
2	53 (40-69)	46 (33-61)	38 (27-51)	33 (22-44)	28 (18-37)	23 (15-31)	19 (13-26)
3	65 (52-78)	60 (46-73)	53 (38-67)	46 (32-60)	39 (27-52)	33 (23-45)	28 (19-38)
4	75 (63-83)	72 (60-81)	67 (53-78)	61 (46-73)	54 (40-66)	47 (34-59)	40 (29-52)
5	81 (73-85)	80 (71-85)	79 (68-84)	73 (62-80)	67 (55-75)	61 (48-69)	54 (42-63)
6	84	85	85	82	78	73	67

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	27	23	21	17	14	12	10
1	39 (31-55)	34 (26-47)	30 (23-39)	25 (19-32)	21 (16-27)	18 (13-22)	15 (11-18)
2	52 (40-68)	47 (34-62)	42 (29-54)	36 (25-47)	30 (20-40)	25 (17-33)	21 (14-28)
3	64 (51-77)	60 (46-73)	55 (41-68)	48 (35-61)	42 (30-54)	36 (25-47)	30 (20-40)
4	74 (62-82)	72 (58-80)	68 (55-78)	62 (48-73)	55 (41-67)	48 (35-60)	41 (29-53)
5	79 (72-82)	79 (70-84)	78 (67-83)	73 (61-80)	67 (55-75)	61 (48-70)	54 (42-63)
6	80	83	84	81	77	72	67

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	24	22	21	18	15	13	11
1	34 (26-48)	31 (23-43)	30 (22-38)	25 (19-32)	21 (15-26)	18 (13-22)	15 (11-18)
2	46 (34-61)	43 (31-57)	40 (28-51)	34 (24-45)	29 (20-38)	25 (16-33)	21 (14-27)
3	57 (43-70)	54 (40-68)	52 (37-64)	45 (32-58)	39 (27-51)	33 (22-44)	28 (18-38)
4	67 (54-76)	65 (51-75)	63 (50-73)	57 (43-68)	50 (37-62)	44 (31-55)	38 (26-49)
5	73 (65-77)	74 (63-79)	72 (62-79)	67 (56-75)	62 (50-70)	55 (43-64)	49 (37-58)
6	75	78	79	76	71	66	60