

Singapore (Indian) - 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 Singapore (Indian). 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	1.5	1.3	1.2	1.1	0.9	0.8	0.7
1	2.4 (1.7-3.7)	2.1 (1.4-3.0)	1.9 (1.3-2.7)	1.7 (1.1-2.3)	1.4 (1.0-2.0)	1.3 (0.8-1.7)	1.1 (0.7-1.5)
2	4.0 (2.2-6.6)	3.3 (1.8-5.6)	3.0 (1.6-5.1)	2.6 (1.4-4.5)	2.2 (1.2-3.9)	2.0 (1.0-3.4)	1.7 (0.9-3.0)
3	6.4 (3.2-11)	5.3 (2.6-9.3)	4.6 (2.2-8.4)	4.0 (1.9-7.4)	3.5 (1.6-6.4)	3.0 (1.4-5.6)	2.6 (1.2-4.9)
4	10 (5.5-16)	8.2 (4.5-13)	7.1 (3.8-12)	6.1 (3.2-10)	5.3 (2.8-8.7)	4.6 (2.4-7.6)	4.0 (2.1-6.6)
5	16 (9.6-21)	13 (7.9-16)	11 (7.0-14)	9.2 (6.0-12)	7.9 (5.2-11)	6.8 (4.5-9.2)	5.9 (3.9-8.0)
6	25	19	16	14	12	10	8.7

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.6	2.2	2.0	1.8	1.5	1.3	1.2
1	4.2 (3.0-6.2)	3.6 (2.5-5.0)	3.2 (2.2-4.4)	2.8 (1.9-3.8)	2.4 (1.6-3.3)	2.1 (1.4-2.8)	1.8 (1.2-2.5)
2	6.9 (4.0-11)	5.7 (3.2-9.1)	5.0 (2.7-8.3)	4.3 (2.3-7.2)	3.7 (2.0-6.3)	3.2 (1.7-5.5)	2.8 (1.5-4.8)
3	11 (6.1-18)	8.9 (4.6-15)	7.7 (3.8-13)	6.6 (3.3-12)	5.7 (2.8-10)	4.9 (2.4-8.9)	4.3 (2.1-7.8)
4	17 (9.8-26)	14 (8.0-21)	12 (6.6-18)	10 (5.6-16)	8.6 (4.8-14)	7.4 (4.1-12)	6.4 (3.5-11)
5	27 (17-33)	21 (14-26)	17 (12-22)	15 (10-20)	13 (8.8-17)	11 (7.6-15)	9.6 (6.6-13)
6	40	31	25	22	19	16	14

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.9	4.0	3.6	3.1	2.7	2.3	2.0
1	7.9 (5.9-11)	6.4 (4.6-8.8)	5.6 (3.9-7.5)	4.8 (3.4-6.5)	4.2 (2.9-5.6)	3.6 (2.5-4.8)	3.1 (2.2-4.1)
2	13 (7.9-20)	10 (6.0-15)	8.7 (5.0-14)	7.5 (4.2-12)	6.4 (3.6-10)	5.6 (3.1-9.1)	4.8 (2.7-7.9)
3	20 (12-30)	16 (9.0-25)	13 (7.1-22)	11 (6.0-19)	9.8 (5.1-17)	8.4 (4.4-15)	7.3 (3.7-13)
4	30 (19-41)	24 (15-34)	20 (12-30)	17 (10-26)	15 (8.8-23)	13 (7.5-20)	11 (6.4-17)
5	44 (31-52)	34 (25-42)	29 (21-36)	25 (18-32)	21 (15-28)	18 (13-24)	16 (11-21)
6	60	49	40	35	31	27	23

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.6	6.9	6.0	5.1	4.4	3.8	3.3
1	14 (10-18)	11 (8.0-14)	9.2 (6.7-12)	7.9 (5.7-10)	6.8 (4.9-8.8)	5.9 (4.2-7.6)	5.1 (3.6-6.5)
2	21 (14-30)	17 (11-24)	14 (8.5-21)	12 (7.2-18)	10 (6.1-16)	8.9 (5.2-14)	7.7 (4.4-12)
3	31 (21-43)	25 (16-37)	21 (12-33)	18 (10-29)	15 (8.8-25)	13 (7.4-22)	12 (6.3-19)
4	44 (31-57)	36 (25-49)	30 (21-43)	26 (18-38)	23 (15-34)	20 (13-29)	17 (11-26)
5	60 (48-68)	50 (39-59)	42 (33-51)	37 (28-46)	32 (25-40)	28 (21-35)	24 (18-31)
6	74	65	56	50	44	39	34

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	10	8.6	7.4	6.3	5.4	4.7
1	20 (15-24)	15 (12-19)	13 (9.7-16)	11 (8.2-14)	9.3 (7.0-12)	8.0 (5.9-10)	6.8 (5.1-8.8)
2	30 (21-39)	23 (16-31)	19 (12-26)	16 (10-22)	14 (8.8-19)	12 (7.5-16)	10 (6.4-14)
3	44 (31-57)	34 (23-48)	28 (18-40)	24 (15-35)	20 (13-30)	17 (11-26)	15 (9.1-22)
4	59 (48-72)	49 (38-63)	40 (30-53)	34 (25-47)	29 (21-41)	25 (18-36)	21 (15-31)
5	74 (69-81)	65 (58-74)	55 (47-64)	48 (41-57)	42 (35-50)	36 (30-44)	31 (25-38)
6	84	79	71	64	57	50	43

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	16	13	11	9.1	7.8	6.6	5.6
1	25 (19-35)	20 (15-26)	16 (12-19)	14 (10-16)	11 (8.6-14)	9.7 (7.2-12)	8.2 (6.1-10)
2	38 (25-52)	30 (20-41)	24 (16-32)	20 (13-27)	17 (11-23)	14 (9.3-19)	12 (7.8-16)
3	53 (37-68)	44 (29-60)	36 (23-49)	30 (19-43)	25 (16-36)	21 (14-31)	18 (11-26)
4	68 (52-79)	60 (44-74)	51 (36-65)	44 (31-58)	37 (26-50)	32 (22-43)	27 (18-37)
5	79 (68-84)	75 (62-82)	67 (55-76)	60 (48-69)	52 (42-62)	45 (36-54)	39 (30-47)
6	85	84	81	75	69	61	54

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	17	14	12	10	8.5	7.1	6.0
1	26 (19-38)	22 (16-30)	18 (14-23)	15 (11-19)	13 (9.3-16)	10 (7.8-13)	8.8 (6.5-10)
2	38 (26-53)	32 (22-44)	27 (18-36)	22 (15-30)	19 (12-25)	15 (10-21)	13 (8.4-17)
3	51 (36-65)	45 (32-59)	38 (26-51)	32 (22-43)	27 (18-37)	23 (15-31)	19 (12-26)
4	63 (48-74)	59 (44-70)	52 (39-65)	45 (33-58)	39 (28-51)	33 (23-44)	27 (19-37)
5	73 (61-80)	71 (58-78)	66 (53-74)	59 (46-68)	52 (40-61)	45 (34-54)	38 (29-47)
6	80	79	77	72	66	59	52

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	14	13	10	8.7	7.2	6.0
1	23 (17-35)	21 (15-29)	18 (13-24)	15 (11-20)	13 (9.1-16)	10 (7.5-13)	8.7 (6.2-11)
2	34 (23-49)	30 (20-42)	27 (18-35)	22 (15-30)	18 (12-25)	15 (9.8-20)	12 (8.0-17)
3	46 (32-61)	42 (28-55)	37 (25-49)	31 (21-42)	26 (17-35)	22 (14-30)	18 (11-25)
4	58 (43-70)	54 (39-66)	50 (36-62)	43 (30-55)	37 (25-48)	31 (21-41)	26 (17-35)
5	69 (56-75)	66 (52-74)	62 (49-71)	56 (43-65)	49 (36-58)	42 (31-51)	36 (26-44)
6	76	75	73	68	62	55	48

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	11	12	9.6	8.0	6.7	5.5
1	18 (13-27)	17 (12-23)	16 (12-21)	13 (9.5-17)	11 (7.8-14)	9.2 (6.4-11)	7.6 (5.3-9.4)
2	26 (17-39)	24 (16-34)	23 (15-31)	19 (12-26)	16 (10-21)	13 (8.3-18)	11 (6.8-15)
3	37 (24-51)	34 (22-46)	31 (20-42)	26 (17-36)	22 (14-31)	18 (11-26)	15 (9.1-21)
4	48 (33-60)	45 (31-56)	42 (29-53)	36 (24-46)	30 (20-40)	25 (16-34)	21 (13-28)
5	59 (45-67)	57 (43-65)	53 (41-62)	47 (35-56)	40 (30-49)	34 (25-42)	29 (21-36)
6	67	67	65	59	52	45	39