Singapore (Malay) - 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 (Malay). 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/m²)						
	15	20	25	30	35	40	45
0	1.4	1.3	1.2	1.0	0.9	0.8	0.7
1	2.4 (1.6-3.6)	2.1 (1.4-3.0)	1.9 (1.3-2.7)	1.6 (1.1-2.3)	1.4 (1.0-2.0)	1.2 (0.8-1.7)	1.1 (0.7-1.5)
2	3.9 (2.1-6.5)	3.3 (1.8-5.5)	3.0 (1.6-5.1)	2.6 (1.4-4.4)	2.2 (1.2-3.9)	1.9 (1.0-3.4)	1.7 (0.9-3.0)
3	6.4 (3.2-11)	5.2 (2.5-9.2)	4.6 (2.2-8.4)	4.0 (1.9-7.3)	3.4 (1.6-6.3)	3.0 (1.4-5.5)	2.6 (1.2-4.8)
4	10 (5.4-16)	8.1 (4.5-13)	7.0 (3.7-11)	6.0 (3.2-10)	5.2 (2.7-8.6)	4.5 (2.4-7.5)	3.9 (2.0-6.5)
5	16 (9.4-20)	13 (7.8-16)	11 (6.9-14)	9.1 (6.0-12)	7.8 (5.2-11)	6.8 (4.5-9.1)	5.8 (3.9-7.9)
6	25	19	16	14	12	10	8.6

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.8	2.4	2.2	1.9	1.7	1.5	1.3
1	4.6 (3.3-6.8)	3.9 (2.7-5.5)	3.5 (2.4-4.8)	3.0 (2.1-4.1)	2.6 (1.8-3.6)	2.3 (1.6-3.1)	2.0 (1.3-2.7)
2	7.5 (4.3-12)	6.2 (3.5-9.9)	5.4 (3.0-9.0)	4.7 (2.6-7.9)	4.1 (2.2-6.9)	3.5 (1.9-6.0)	3.1 (1.6-5.2)
3	12 (6.6-19)	9.7 (5.1-16)	8.4 (4.2-15)	7.2 (3.6-13)	6.2 (3.1-11)	5.4 (2.6-9.7)	4.7 (2.3-8.5)
4	19 (11-28)	15 (8.8-23)	13 (7.2-20)	11 (6.1-17)	9.4 (5.2-15)	8.1 (4.5-13)	7.0 (3.8-11)
5	29 (18-35)	22 (15-28)	19 (13-24)	16 (11-21)	14 (9.5-18)	12 (8.2-16)	10 (7.1-14)
6	42	33	27	24	20	18	15

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	5.4	4.5	4.1	3.5	3.0	2.6	2.3
1	8.7 (6.4-12)	7.2 (5.2-9.9)	6.4 (4.5-8.5)	5.5 (3.8-7.3)	4.7 (3.3-6.3)	4.1 (2.8-5.4)	3.5 (2.4-4.7)
2	14 (8.6-21)	11 (6.7-17)	9.8 (5.6-15)	8.4 (4.8-13)	7.2 (4.1-12)	6.3 (3.5-10)	5.4 (3.0-8.9)
3	21 (13-32)	17 (10-27)	15 (8.0-24)	13 (6.8-21)	11 (5.8-19)	9.4 (4.9-16)	8.1 (4.2-14)
4	32 (20-44)	26 (16-37)	22 (14-33)	19 (12-29)	16 (9.8-25)	14 (8.3-22)	12 (7.0-19)
5	45 (33-54)	37 (27-45)	31 (23-39)	27 (20-35)	24 (17-30)	20 (15-27)	18 (13-23)
6	61	51	44	38	33	29	25

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

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	9.1	7.6	6.7	5.8	5.0	4.3	3.7
1	14 (11-19)	12 (8.7-15)	10 (7.4-13)	8.9 (6.3-11)	7.7 (5.4-9.9)	6.6 (4.6-8.5)	5.7 (4.0-7.3)
2	22 (15-30)	18 (11-25)	16 (9.4-23)	13 (8.0-21)	12 (6.8-18)	9.9 (5.8-16)	8.6 (4.9-14)
3	32 (22-43)	26 (17-39)	23 (14-36)	20 (11-31)	17 (9.7-27)	15 (8.2-24)	13 (7.0-21)
4	44 (32-57)	37 (26-51)	33 (22-46)	28 (19-41)	25 (16-36)	21 (14-32)	18 (11-28)
5	58 (47-67)	51 (40-60)	45 (35-54)	39 (30-49)	34 (26-43)	30 (23-38)	26 (20-34)
6	71	65	59	52	47	41	36

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	12	10	9.1	7.8	6.7	5.8	4.9
1	19 (14-23)	16 (12-19)	13 (10-17)	11 (8.5-15)	9.8 (7.2-13)	8.4 (6.2-11)	7.2 (5.3-9.3)
2	28 (19-38)	23 (15-31)	20 (13-27)	17 (11-23)	14 (9.1-20)	12 (7.8-17)	10 (6.6-15)
3	41 (29-53)	34 (23-46)	28 (19-40)	24 (16-35)	21 (13-30)	18 (11-26)	15 (9.4-23)
4	55 (43-67)	47 (36-61)	40 (30-53)	34 (25-47)	29 (21-41)	25 (18-36)	22 (15-31)
5	68 (62-76)	62 (55-71)	54 (46-63)	47 (40-57)	41 (34-50)	36 (29-44)	30 (25-38)
6	78	75	69	62	55	49	42

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

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	14	12	10	8.9	7.5	6.4	5.5
1	22 (16-31)	18 (14-24)	15 (12-18)	13 (9.7-16)	11 (8.2-13)	9.3 (6.9-11)	7.9 (5.8-9.8)
2	33 (22-47)	28 (18-39)	23 (15-31)	19 (13-26)	16 (10-22)	14 (8.8-18)	11 (7.4-15)
3	47 (31-62)	40 (27-54)	34 (22-46)	28 (18-40)	24 (15-34)	20 (13-29)	17 (11-24)
4	60 (44-72)	55 (39-68)	47 (34-61)	41 (28-54)	35 (24-47)	29 (20-40)	25 (17-34)
5	72 (60-79)	68 (56-77)	62 (51-72)	55 (44-65)	48 (38-58)	41 (33-50)	35 (28-44)
6	80	79	76	70	63	56	49

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	15	13	11	9.2	7.7	6.5	5.4
1	23 (17-34)	19 (14-27)	16 (12-21)	14 (10-17)	11 (8.4-14)	9.5 (7.0-12)	7.9 (5.8-9.5)
2	33 (23-48)	29 (19-40)	24 (16-33)	20 (13-27)	17 (11-23)	14 (9.1-19)	12 (7.5-15)
3	45 (31-60)	41 (28-54)	35 (24-47)	30 (20-40)	25 (16-33)	21 (14-28)	17 (11-23)
4	57 (42-69)	54 (39-65)	48 (35-61)	41 (30-53)	35 (25-46)	29 (20-40)	25 (17-34)
5	68 (55-75)	65 (52-73)	61 (49-70)	55 (42-64)	48 (36-57)	41 (31-50)	35 (26-43)
6	76	75	73	67	61	54	47

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	14	12	11	9.2	7.6	6.3	5.3
1	22 (16-33)	19 (14-28)	17 (12-22)	14 (9.9-18)	11 (8.1-15)	9.3 (6.6-12)	7.7 (5.4-9.7)
2	32 (22-47)	28 (19-40)	24 (16-33)	20 (13-27)	17 (11-23)	14 (8.8-19)	11 (7.2-15)
3	44 (29-58)	39 (26-53)	35 (23-47)	29 (19-40)	24 (16-33)	20 (13-28)	16 (10-23)
4	55 (40-67)	52 (37-63)	47 (34-59)	41 (28-52)	34 (23-45)	29 (19-39)	24 (16-33)
5	66 (52-73)	64 (49-71)	60 (46-69)	53 (40-62)	46 (34-55)	40 (28-48)	33 (24-42)
6	73	73	71	65	59	52	45

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	12	11	11	8.9	7.4	6.1	5.1
1	18 (13-28)	17 (12-24)	16 (11-21)	13 (9.1-17)	11 (7.5-14)	8.7 (6.1-11)	7.2 (5.0-8.9)
2	27 (18-40)	24 (16-35)	22 (15-31)	19 (12-25)	15 (9.8-21)	12 (8.0-17)	10 (6.5-14)
3	38 (24-52)	34 (22-47)	31 (20-43)	26 (17-36)	22 (13-30)	18 (11-25)	15 (8.8-21)
4	49 (34-61)	46 (31-57)	42 (30-54)	36 (24-47)	30 (20-40)	25 (16-34)	21 (13-29)
5	60 (46-68)	58 (43-66)	54 (41-63)	48 (35-57)	41 (29-50)	35 (25-43)	29 (20-37)
6	68	68	66	59	53	46	39