Singapore (Chinese) - 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 (Chinese). 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	1.6	1.4	1.3	1.2	1.0	0.9	0.8
1	2.7 (1.9-4.1)	2.3 (1.6-3.4)	2.1 (1.4-3.0)	1.9 (1.3-2.6)	1.6 (1.1-2.2)	1.4 (0.9-1.9)	1.2 (0.8-1.7)
2	4.5 (2.4-7.4)	3.7 (2.0-6.2)	3.3 (1.8-5.7)	2.9 (1.5-5.0)	2.5 (1.3-4.4)	2.2 (1.1-3.8)	1.9 (1.0-3.3)
3	7.3 (3.6-12)	5.9 (2.9-10)	5.2 (2.5-9.4)	4.5 (2.1-8.2)	3.9 (1.8-7.1)	3.4 (1.6-6.2)	2.9 (1.4-5.4)
4	12 (6.2-18)	9.2 (5.1-15)	7.9 (4.2-13)	6.8 (3.6-11)	5.9 (3.1-9.7)	5.1 (2.7-8.5)	4.4 (2.3-7.4)
5	18 (11-23)	14 (8.8-18)	12 (7.8-16)	10 (6.7-14)	8.8 (5.8-12)	7.6 (5.1-10)	6.6 (4.4-9.0)
6	28	21	18	15	13	11	9.8

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.9	2.5	2.3	2.0	1.7	1.5	1.3
1	4.8 (3.4-7.1)	4.0 (2.8-5.7)	3.6 (2.5-4.9)	3.1 (2.1-4.2)	2.7 (1.8-3.6)	2.3 (1.6-3.2)	2.0 (1.4-2.7)
2	7.9 (4.5-13)	6.4 (3.6-10)	5.5 (3.0-9.1)	4.8 (2.6-8.0)	4.2 (2.2-7.0)	3.6 (1.9-6.1)	3.1 (1.7-5.3)
3	13 (6.9-20)	10 (5.2-17)	8.5 (4.3-15)	7.4 (3.7-13)	6.4 (3.2-11)	5.5 (2.7-9.9)	4.8 (2.3-8.6)
4	20 (11-29)	15 (9.0-23)	13 (7.4-20)	11 (6.3-18)	9.6 (5.4-15)	8.3 (4.6-13)	7.2 (3.9-12)
5	30 (19-37)	23 (15-29)	19 (13-25)	17 (11-22)	14 (9.8-19)	12 (8.5-16)	11 (7.3-14)
6	44	34	28	24	21	18	16

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	5.3	4.4	3.9	3.3	2.9	2.5	2.2
1	8.7 (6.4-12)	7.0 (5.0-9.5)	6.1 (4.3-8.1)	5.2 (3.7-7.0)	4.5 (3.1-6.0)	3.9 (2.7-5.2)	3.4 (2.3-4.5)
2	14 (8.7-21)	11 (6.5-16)	9.4 (5.4-15)	8.1 (4.6-13)	7.0 (3.9-11)	6.0 (3.4-9.8)	5.2 (2.9-8.5)
3	22 (13-32)	17 (9.8-27)	14 (7.7-24)	12 (6.5-21)	11 (5.6-18)	9.1 (4.7-16)	7.9 (4.1-14)
4	33 (20-45)	26 (16-37)	21 (13-32)	18 (11-28)	16 (9.6-24)	14 (8.1-21)	12 (6.9-19)
5	47 (34-55)	37 (27-45)	31 (22-38)	27 (19-34)	23 (17-30)	20 (14-26)	17 (12-23)
6	64	52	43	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 (Chinese).

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	9.3	7.4	6.3	5.4	4.7	4.0	3.5
1	15 (11-19)	12 (8.6-15)	9.8 (7.1-13)	8.4 (6.0-11)	7.2 (5.1-9.3)	6.2 (4.4-8.0)	5.4 (3.8-6.9)
2	23 (15-33)	18 (11-25)	15 (9.0-22)	13 (7.6-19)	11 (6.5-17)	9.4 (5.5-15)	8.1 (4.7-13)
3	34 (23-47)	27 (17-39)	22 (13-34)	19 (11-30)	16 (9.4-26)	14 (7.9-23)	12 (6.7-20)
4	48 (34-61)	38 (26-52)	32 (22-45)	28 (19-40)	24 (16-35)	21 (14-31)	18 (11-27)
5	64 (52-72)	53 (42-62)	45 (35-54)	39 (30-48)	34 (26-42)	30 (23-37)	26 (19-33)
6	78	69	59	53	47	41	36

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	15	12	10	8.8	7.6	6.5	5.6
1	23 (18-28)	18 (14-22)	15 (12-19)	13 (9.8-16)	11 (8.4-14)	9.6 (7.1-12)	8.2 (6.1-11)
2	35 (25-45)	27 (19-36)	22 (15-30)	19 (13-26)	16 (11-23)	14 (9.0-20)	12 (7.6-17)
3	50 (37-64)	40 (28-54)	32 (21-46)	28 (18-40)	24 (15-35)	20 (13-30)	18 (11-26)
4	66 (55-78)	55 (44-70)	46 (35-60)	40 (30-53)	34 (25-47)	29 (21-41)	25 (18-36)
5	79 (75-85)	71 (65-79)	61 (54-70)	54 (47-64)	48 (40-57)	42 (35-50)	36 (30-44)
6	87	84	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 Singapore (Chinese).

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	21	17	15	13	11	9.2	7.9
1	33 (25-44)	26 (20-34)	22 (17-25)	18 (14-22)	16 (12-19)	13 (10-16)	11 (8.6-14)
2	48 (33-63)	39 (26-52)	32 (21-41)	27 (18-35)	23 (15-30)	20 (13-25)	17 (11-22)
3	63 (47-77)	54 (38-70)	45 (30-60)	39 (26-53)	33 (22-46)	28 (18-40)	24 (16-34)
4	76 (62-84)	70 (55-82)	61 (46-75)	54 (40-68)	47 (34-61)	41 (29-54)	35 (25-47)
5	84 (76-88)	82 (72-87)	76 (66-83)	70 (59-78)	63 (52-72)	56 (46-65)	49 (40-58)
6	88	88	87	83	78	71	64

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	26	21	18	15	13	11	9.2
1	38 (29-52)	32 (24-42)	26 (20-33)	22 (17-28)	19 (14-23)	16 (12-19)	13 (10-16)
2	51 (38-67)	45 (32-58)	38 (26-50)	32 (22-43)	27 (18-36)	23 (15-30)	19 (13-25)
3	64 (50-77)	59 (45-72)	52 (38-65)	45 (32-58)	39 (27-51)	33 (22-44)	28 (19-37)
4	74 (62-82)	71 (59-80)	66 (53-77)	59 (46-72)	52 (40-65)	46 (34-58)	39 (29-51)
5	81 (73-85)	80 (71-85)	78 (68-84)	72 (61-80)	66 (55-74)	60 (48-68)	53 (42-61)
6	85	85	85	82	78	72	66

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	27	23	20	17	14	12	10
1	39 (30-53)	34 (26-46)	30 (23-38)	25 (19-32)	21 (16-27)	18 (13-22)	15 (11-18)
2	51 (39-67)	47 (34-61)	41 (29-53)	35 (25-46)	30 (20-39)	25 (17-33)	21 (14-28)
3	63 (49-75)	60 (45-73)	55 (41-67)	48 (35-61)	42 (29-53)	35 (25-46)	30 (20-40)
4	72 (60-81)	70 (57-80)	67 (55-77)	61 (48-72)	54 (41-66)	48 (35-60)	41 (29-53)
5	78 (70-82)	78 (69-83)	77 (67-83)	72 (61-79)	67 (54-74)	60 (48-69)	54 (42-63)
6	81	83	83	80	76	71	66

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	24	23	22	18	15	13	11
1	35 (26-49)	32 (24-43)	30 (23-38)	26 (19-32)	22 (16-27)	18 (13-22)	15 (11-18)
2	47 (35-63)	43 (31-58)	41 (29-52)	35 (24-45)	30 (20-39)	25 (17-33)	21 (14-28)
3	59 (44-72)	55 (41-69)	52 (38-65)	46 (32-59)	40 (27-52)	34 (23-45)	29 (19-39)
4	68 (55-77)	66 (53-76)	64 (51-74)	58 (44-69)	51 (38-63)	45 (32-56)	38 (27-49)
5	74 (66-78)	75 (65-80)	74 (63-80)	68 (57-76)	63 (50-71)	56 (44-65)	50 (38-59)
6	75	79	80	77	73	67	61