China - 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 China. 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	2.1	1.9	1.8	1.6	1.4	1.2	1.0
1	3.4 (2.3-5.1)	3.0 (2.0-4.3)	2.8 (1.9-3.9)	2.4 (1.6-3.4)	2.1 (1.4-2.9)	1.9 (1.2-2.5)	1.6 (1.1-2.2)
2	5.5 (3.0-9.0)	4.8 (2.5-8.0)	4.3 (2.3-7.5)	3.8 (2.0-6.5)	3.3 (1.7-5.7)	2.9 (1.5-5.0)	2.5 (1.3-4.4)
3	8.9 (4.5-15)	7.4 (3.6-13)	6.7 (3.2-12)	5.8 (2.7-11)	5.0 (2.4-9.3)	4.4 (2.1-8.1)	3.8 (1.8-7.1)
4	14 (7.6-21)	11 (6.3-18)	10 (5.4-16)	8.7 (4.6-14)	7.6 (4.0-13)	6.6 (3.4-11)	5.7 (3.0-9.6)
5	22 (13-27)	17 (11-23)	15 (10-20)	13 (8.7-17)	11 (7.5-15)	9.8 (6.6-13)	8.5 (5.7-12)
6	32	26	22	19	16	14	12

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	2.8	2.5	2.3	2.0	1.8	1.5	1.3
1	4.6 (3.3-6.7)	4.0 (2.8-5.6)	3.6 (2.5-5.0)	3.2 (2.2-4.3)	2.7 (1.9-3.7)	2.4 (1.6-3.2)	2.1 (1.4-2.8)
2	7.5 (4.3-12)	6.3 (3.5-10)	5.6 (3.1-9.4)	4.9 (2.6-8.2)	4.2 (2.3-7.2)	3.7 (2.0-6.3)	3.2 (1.7-5.5)
3	12 (6.4-19)	9.7 (5.0-17)	8.6 (4.3-15)	7.4 (3.7-13)	6.4 (3.2-12)	5.6 (2.7-10)	4.9 (2.4-8.9)
4	18 (11-27)	15 (8.8-23)	13 (7.3-20)	11 (6.2-18)	9.7 (5.3-16)	8.4 (4.6-14)	7.3 (3.9-12)
5	28 (18-34)	22 (15-28)	19 (13-25)	16 (11-22)	14 (9.8-19)	12 (8.5-17)	11 (7.4-14)
6	41	33	27	24	21	18	16

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	3.9	3.4	3.1	2.6	2.3	2.0	1.7
1	6.3 (4.6-8.9)	5.3 (3.8-7.2)	4.8 (3.3-6.3)	4.1 (2.8-5.5)	3.6 (2.5-4.7)	3.1 (2.1-4.1)	2.7 (1.8-3.5)
2	10 (6.1-15)	8.3 (4.9-13)	7.3 (4.1-12)	6.3 (3.5-10)	5.4 (3.0-8.9)	4.7 (2.6-7.8)	4.1 (2.2-6.8)
3	16 (9.4-24)	13 (7.2-21)	11 (5.9-19)	9.5 (5.0-16)	8.2 (4.3-14)	7.1 (3.7-12)	6.2 (3.1-11)
4	24 (15-34)	19 (12-29)	16 (10-25)	14 (8.5-22)	12 (7.2-19)	11 (6.1-17)	9.2 (5.2-15)
5	35 (25-43)	28 (20-35)	24 (17-31)	21 (15-27)	18 (13-23)	16 (11-20)	13 (9.6-18)
6	49	40	34	30	26	22	19

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

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	5.2	4.3	3.8	3.3	2.8	2.4	2.1
1	8.3 (6.2-11)	6.8 (4.9-8.9)	5.9 (4.2-7.6)	5.0 (3.6-6.5)	4.3 (3.0-5.6)	3.7 (2.6-4.8)	3.2 (2.2-4.1)
2	13 (8.4-19)	10 (6.5-15)	9.0 (5.3-14)	7.7 (4.5-12)	6.6 (3.8-10)	5.7 (3.3-9.0)	4.9 (2.8-7.9)
3	20 (13-28)	16 (9.9-24)	14 (7.8-22)	12 (6.6-19)	9.9 (5.5-16)	8.5 (4.7-14)	7.3 (3.9-12)
4	29 (19-39)	24 (16-33)	20 (13-30)	17 (11-26)	15 (9.3-22)	13 (7.8-19)	11 (6.6-17)
5	41 (31-49)	34 (25-41)	29 (22-36)	25 (18-31)	21 (16-27)	18 (13-24)	16 (11-21)
6	55	47	40	35	30	26	22

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	6.7	5.4	4.7	3.9	3.3	2.8	2.4
1	11 (7.9-13)	8.4 (6.3-11)	7.1 (5.2-8.9)	5.9 (4.4-7.6)	5.0 (3.7-6.4)	4.2 (3.1-5.5)	3.6 (2.6-4.7)
2	17 (11-23)	13 (8.5-18)	11 (6.8-15)	8.9 (5.7-12)	7.5 (4.7-11)	6.3 (4.0-8.9)	5.3 (3.3-7.5)
3	25 (17-35)	20 (13-29)	16 (10-24)	13 (8.5-20)	11 (7.0-17)	9.4 (5.8-14)	7.9 (4.9-12)
4	37 (27-49)	30 (21-41)	24 (17-34)	20 (14-29)	17 (12-24)	14 (9.6-21)	12 (8.0-17)
5	50 (44-59)	43 (37-52)	35 (29-43)	30 (24-37)	25 (20-31)	21 (17-26)	17 (14-22)
6	63	57	49	42	36	30	25

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

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	8.2	6.8	5.8	4.8	4.0	3.4	2.8
1	14 (9.6-20)	11 (7.8-15)	8.9 (6.5-11)	7.4 (5.4-9.2)	6.1 (4.4-7.5)	5.1 (3.7-6.1)	4.2 (3.0-5.2)
2	22 (13-33)	17 (11-26)	14 (8.7-20)	11 (7.1-16)	9.4 (5.8-13)	7.7 (4.8-11)	6.4 (4.0-8.9)
3	32 (20-47)	27 (17-39)	22 (13-31)	18 (11-26)	15 (8.9-22)	12 (7.3-18)	9.7 (5.9-14)
4	45 (30-58)	40 (25-53)	33 (21-45)	27 (17-38)	22 (14-32)	18 (12-27)	15 (9.4-22)
5	58 (44-67)	54 (39-63)	47 (34-56)	40 (29-49)	33 (24-42)	28 (20-35)	23 (16-29)
6	69	67	62	55	47	40	34

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	9.1	7.8	6.9	5.7	4.8	4.0	3.3
1	15 (10-23)	12 (8.8-18)	10 (7.6-14)	8.6 (6.2-11)	7.1 (5.1-9.1)	5.8 (4.2-7.4)	4.8 (3.4-5.9)
2	22 (14-34)	19 (12-28)	16 (10-22)	13 (8.3-18)	11 (6.8-15)	8.7 (5.5-12)	7.1 (4.5-9.6)
3	33 (20-46)	28 (18-40)	24 (16-33)	20 (13-27)	16 (10-22)	13 (8.3-18)	11 (6.7-15)
4	45 (29-56)	40 (26-52)	34 (23-46)	29 (19-39)	24 (16-33)	19 (13-27)	16 (10-22)
5	57 (41-65)	53 (38-62)	47 (34-56)	40 (28-49)	34 (24-42)	28 (19-35)	23 (16-29)
6	68	65	61	54	46	39	33

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	8.7	8.1	7.8	6.5	5.4	4.4	3.7
1	14 (9.5-21)	12 (8.7-18)	12 (8.2-15)	9.5 (6.7-12)	7.8 (5.5-10)	6.4 (4.5-8.0)	5.2 (3.7-6.5)
2	21 (13-32)	19 (12-28)	17 (11-23)	14 (8.9-19)	11 (7.2-16)	9.3 (5.9-13)	7.6 (4.8-10)
3	30 (18-43)	27 (17-39)	24 (16-34)	20 (13-28)	16 (10-23)	13 (8.2-19)	11 (6.6-16)
4	41 (26-53)	38 (24-49)	34 (23-45)	29 (19-39)	24 (15-32)	19 (12-27)	16 (10-22)
5	53 (38-61)	49 (35-58)	46 (33-55)	39 (28-48)	33 (23-41)	27 (19-35)	22 (16-29)
6	64	61	58	51	44	37	31

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	7.9	7.9	8.2	6.8	5.6	4.6	3.8
1	12 (8.5-19)	12 (8.1-17)	12 (8.2-15)	9.6 (6.7-13)	7.9 (5.4-10)	6.4 (4.4-8.1)	5.3 (3.6-6.5)
2	19 (12-29)	17 (11-26)	17 (11-23)	14 (8.7-19)	11 (7.1-16)	9.1 (5.7-13)	7.4 (4.6-10)
3	27 (16-39)	25 (15-36)	24 (14-34)	19 (12-28)	16 (9.4-23)	13 (7.6-19)	10 (6.1-16)
4	37 (24-49)	35 (22-46)	32 (21-43)	27 (17-36)	22 (14-31)	18 (11-25)	15 (9.2-21)
5	48 (34-57)	46 (32-54)	43 (31-52)	37 (26-45)	31 (21-39)	25 (18-33)	21 (14-27)
6	59	57	54	47	41	35	29