

China - The probabilities of a major osteoporotic fracture in men

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus fracture) according to the T-score for femoral neck BMD, 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.

Note that the BMI is set at 24 kg/m².

Age = 50 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	8.1	5.3	3.6	2.7	2.1	1.8	1.5	1.3	1.3	1.2
1	20 (16-25)	12 (11-16)	8.1 (7.1-10)	5.6 (4.6-7.1)	4.1 (3.2-5.2)	3.2 (2.3-4.1)	2.6 (1.8-3.5)	2.3 (1.5-3.0)	2.0 (1.3-2.8)	1.9 (1.2-2.7)	1.8 (1.2-2.6)
2	29 (22-40)	19 (14-26)	12 (9.6-17)	8.4 (6.2-12)	6.2 (4.2-9.0)	4.8 (3.0-7.5)	3.9 (2.3-6.5)	3.3 (1.8-5.7)	3.0 (1.6-5.2)	2.8 (1.5-5.0)	2.7 (1.4-4.8)
3	41 (29-54)	27 (19-36)	18 (13-24)	12 (8.6-18)	9.1 (5.7-14)	7.0 (4.0-12)	5.7 (3.0-10)	4.9 (2.4-9.0)	4.3 (2.1-8.2)	4.1 (1.9-7.9)	3.9 (1.8-7.6)
4	55 (40-67)	38 (26-48)	26 (17-32)	18 (12-23)	13 (8.6-19)	10 (6.6-15)	8.2 (4.9-13)	6.9 (3.9-12)	6.2 (3.3-11)	5.9 (3.0-10)	5.6 (2.9-9.7)
5	68 (58-77)	51 (41-59)	36 (28-41)	25 (19-29)	19 (14-23)	14 (11-19)	12 (8.7-16)	9.8 (7.3-14)	8.7 (6.2-12)	8.2 (5.7-12)	7.8 (5.3-11)
6	80	64	48	35	26	20	16	13	12	11	11

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

Age = 55 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	8.6	5.8	4.1	3.1	2.4	2.0	1.7	1.5	1.4	1.3
1	20 (17-24)	13 (12-16)	8.8 (7.6-11)	6.2 (5.1-7.6)	4.6 (3.5-5.7)	3.6 (2.6-4.5)	2.9 (2.0-3.9)	2.5 (1.7-3.3)	2.2 (1.5-3.1)	2.1 (1.3-2.9)	2.0 (1.3-2.8)
2	29 (23-38)	19 (15-26)	13 (10-18)	9.2 (6.9-12)	6.8 (4.7-9.8)	5.3 (3.4-8.2)	4.3 (2.6-7.0)	3.6 (2.0-6.0)	3.3 (1.8-5.6)	3.1 (1.6-5.3)	2.9 (1.5-5.0)
3	39 (30-49)	27 (20-34)	19 (14-25)	13 (9.4-19)	9.9 (6.3-15)	7.7 (4.5-13)	6.2 (3.4-11)	5.2 (2.7-9.5)	4.7 (2.3-8.7)	4.4 (2.1-8.3)	4.2 (1.9-7.9)
4	52 (39-62)	37 (27-45)	26 (18-32)	19 (13-25)	14 (9.6-20)	11 (7.4-16)	8.9 (5.5-14)	7.4 (4.3-12)	6.7 (3.7-11)	6.2 (3.3-11)	5.9 (3.1-10)
5	64 (56-72)	49 (41-55)	36 (29-40)	26 (21-31)	20 (15-24)	15 (12-20)	12 (9.5-17)	10 (7.8-14)	9.3 (6.7-13)	8.6 (6.0-12)	8.1 (5.5-12)
6	75	61	47	35	27	21	17	14	13	12	11

Age = 60 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	8.7	6.1	4.5	3.4	2.7	2.2	1.8	1.6	1.5	1.4
1	19 (17-22)	13 (12-15)	9.0 (7.8-11)	6.6 (5.4-7.8)	5.0 (3.9-6.0)	3.9 (2.9-4.9)	3.2 (2.2-4.2)	2.7 (1.8-3.6)	2.4 (1.6-3.3)	2.2 (1.4-3.1)	2.1 (1.3-2.9)
2	26 (21-33)	18 (15-24)	13 (11-17)	9.6 (7.3-13)	7.3 (5.1-10)	5.7 (3.7-8.6)	4.6 (2.8-7.3)	3.9 (2.2-6.3)	3.5 (2.0-5.8)	3.2 (1.7-5.5)	3.0 (1.6-5.1)
3	35 (28-43)	26 (20-31)	18 (14-24)	14 (9.9-19)	10 (6.9-16)	8.2 (5.0-13)	6.6 (3.8-11)	5.5 (3.0-9.7)	5.0 (2.6-9.0)	4.6 (2.3-8.4)	4.3 (2.1-8.0)
4	46 (36-53)	34 (26-40)	25 (19-31)	19 (14-25)	14 (10-20)	11 (8.0-17)	9.2 (6.0-14)	7.7 (4.7-12)	7.0 (4.0-11)	6.4 (3.5-11)	6.0 (3.2-10)
5	57 (50-62)	44 (38-49)	34 (28-38)	26 (21-31)	20 (16-25)	16 (12-20)	13 (10-17)	11 (8.1-15)	9.5 (7.0-14)	8.8 (6.2-13)	8.2 (5.6-12)
6	67	55	43	34	26	21	17	14	13	12	11

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

Age = 65 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	12	8.5	6.1	4.6	3.5	2.8	2.2	1.9	1.7	1.5	1.4
1	17 (15-19)	12 (11-14)	8.9 (7.5-10)	6.6 (5.4-7.6)	5.1 (3.9-6.0)	4.0 (3.0-4.9)	3.2 (2.3-4.1)	2.7 (1.9-3.6)	2.4 (1.6-3.3)	2.2 (1.4-3.1)	2.0 (1.3-2.8)
2	23 (19-28)	17 (14-21)	13 (10-16)	9.4 (7.3-12)	7.2 (5.3-9.9)	5.7 (3.9-8.3)	4.6 (3.0-7.0)	3.9 (2.4-6.1)	3.4 (2.0-5.6)	3.1 (1.7-5.2)	2.9 (1.6-4.8)
3	31 (25-37)	23 (18-28)	17 (14-22)	13 (10-18)	10 (7.2-15)	8.0 (5.3-12)	6.5 (4.0-10)	5.4 (3.1-9.1)	4.8 (2.6-8.4)	4.4 (2.3-7.8)	4.0 (2.0-7.3)
4	40 (32-46)	31 (24-35)	23 (18-29)	18 (14-23)	14 (10-19)	11 (8.1-16)	8.9 (6.1-13)	7.5 (4.8-12)	6.7 (4.0-11)	6.1 (3.5-10)	5.6 (3.1-9.3)
5	49 (44-53)	39 (34-44)	30 (26-35)	24 (20-29)	19 (16-23)	15 (12-19)	12 (9.8-16)	10 (8.0-14)	9.0 (6.8-13)	8.2 (5.9-12)	7.5 (5.2-11)
6	58	48	39	31	24	20	16	13	12	11	10

Age = 70 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	11	7.8	5.8	4.4	3.4	2.7	2.1	1.8	1.6	1.4	1.3
1	15 (13-19)	11 (9.5-14)	8.6 (6.9-11)	6.4 (5.1-8.0)	4.9 (3.8-6.1)	3.8 (2.9-4.7)	3.0 (2.2-3.7)	2.5 (1.8-3.0)	2.2 (1.5-2.6)	1.9 (1.3-2.3)	1.7 (1.2-2.1)
2	22 (17-28)	17 (13-21)	12 (9.4-16)	9.3 (6.9-12)	7.1 (5.1-9.5)	5.4 (3.9-7.4)	4.3 (2.9-5.9)	3.5 (2.4-4.9)	3.0 (2.0-4.2)	2.7 (1.7-3.7)	2.4 (1.5-3.4)
3	30 (24-38)	23 (18-30)	18 (13-23)	13 (9.5-18)	10 (7.0-14)	7.7 (5.2-11)	6.0 (4.0-8.8)	4.9 (3.1-7.3)	4.2 (2.6-6.3)	3.6 (2.2-5.6)	3.2 (1.9-5.0)
4	40 (32-47)	32 (25-38)	25 (19-30)	19 (14-24)	14 (10-18)	11 (7.8-15)	8.4 (5.9-12)	6.8 (4.7-9.6)	5.7 (3.9-8.3)	4.9 (3.3-7.3)	4.3 (2.8-6.5)
5	50 (42-56)	41 (34-47)	33 (27-38)	26 (20-30)	20 (16-24)	15 (12-19)	12 (9.2-15)	9.4 (7.4-12)	7.8 (6.2-10)	6.6 (5.3-9.0)	5.7 (4.6-7.9)
6	60	51	43	34	27	21	16	13	11	8.9	7.6

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

Age = 75 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	9.3	7.1	5.5	4.2	3.3	2.6	2.1	1.8	1.5	1.3	1.2
1	15 (11-27)	11 (8.3-20)	8.7 (6.3-15)	6.7 (4.8-12)	5.2 (3.6-8.7)	4.0 (2.8-6.5)	3.1 (2.2-4.9)	2.6 (1.8-3.8)	2.2 (1.5-3.0)	1.9 (1.3-2.5)	1.6 (1.1-2.0)
2	22 (15-35)	18 (11-28)	14 (8.5-22)	10 (6.5-17)	8.0 (4.9-13)	6.1 (3.8-9.6)	4.7 (2.9-7.3)	3.8 (2.4-5.7)	3.2 (2.0-4.6)	2.7 (1.7-3.7)	2.3 (1.4-3.1)
3	32 (20-44)	26 (15-37)	20 (12-29)	16 (9.0-23)	12 (6.8-18)	9.3 (5.2-14)	7.1 (4.0-10)	5.7 (3.2-8.3)	4.6 (2.7-6.7)	3.8 (2.2-5.5)	3.2 (1.9-4.6)
4	43 (27-53)	36 (21-45)	29 (16-38)	23 (13-30)	18 (9.7-24)	14 (7.4-19)	11 (5.7-14)	8.4 (4.6-11)	6.7 (3.8-9.1)	5.4 (3.2-7.4)	4.5 (2.7-6.1)
5	54 (34-61)	47 (28-54)	39 (22-46)	32 (18-38)	26 (14-31)	20 (11-24)	16 (8.4-19)	12 (6.9-15)	9.8 (5.7-12)	7.8 (4.8-9.9)	6.3 (4.1-8.1)
6	65	58	51	43	35	28	22	18	14	11	9.0

Age = 80 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	7.6	6.0	4.8	3.8	3.1	2.5	2.0	1.7	1.5	1.3	1.2
1	12 (8.7-22)	9.5 (6.8-17)	7.5 (5.3-14)	6.0 (4.2-11)	4.7 (3.3-8.2)	3.8 (2.6-6.3)	3.0 (2.1-4.9)	2.6 (1.7-4.0)	2.2 (1.5-3.3)	1.9 (1.3-2.7)	1.6 (1.1-2.2)
2	18 (12-30)	15 (9.1-24)	12 (7.2-19)	9.2 (5.7-15)	7.2 (4.5-12)	5.7 (3.5-9.2)	4.5 (2.8-7.2)	3.8 (2.4-5.9)	3.2 (2.0-4.8)	2.7 (1.7-3.9)	2.3 (1.4-3.3)
3	26 (15-38)	21 (12-32)	17 (9.8-26)	14 (7.7-21)	11 (6.2-16)	8.6 (4.9-13)	6.8 (3.9-10)	5.6 (3.2-8.2)	4.6 (2.7-6.7)	3.8 (2.2-5.5)	3.2 (1.9-4.6)
4	36 (21-46)	30 (17-39)	25 (13-33)	20 (11-27)	16 (8.4-22)	13 (6.7-17)	10 (5.4-14)	8.2 (4.5-11)	6.7 (3.8-9.0)	5.5 (3.2-7.4)	4.6 (2.7-6.2)
5	47 (27-53)	40 (22-47)	34 (18-40)	28 (15-33)	23 (12-27)	18 (9.3-22)	15 (7.5-18)	12 (6.2-15)	9.8 (5.3-12)	8.0 (4.5-10)	6.6 (3.8-8.3)
6	58	52	45	38	32	26	21	17	14	11	9.4

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

Age = 85 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	5.9	4.8	4.0	3.3	2.7	2.3	1.9	1.7	1.5	1.3	1.2
1	9.0 (6.3-16)	7.4 (5.1-13)	6.1 (4.2-11)	5.0 (3.4-8.6)	4.1 (2.8-7.0)	3.4 (2.3-5.6)	2.8 (1.9-4.6)	2.5 (1.6-3.9)	2.1 (1.4-3.3)	1.9 (1.2-2.8)	1.6 (1.1-2.3)
2	14 (8.5-22)	11 (6.9-18)	9.2 (5.7-15)	7.5 (4.6-12)	6.2 (3.8-9.8)	5.0 (3.1-7.9)	4.2 (2.6-6.5)	3.6 (2.2-5.5)	3.1 (1.9-4.6)	2.7 (1.6-3.9)	2.3 (1.4-3.3)
3	20 (11-29)	16 (9.4-24)	14 (7.7-20)	11 (6.3-17)	9.1 (5.2-14)	7.4 (4.2-11)	6.2 (3.5-9.1)	5.3 (3.0-7.7)	4.5 (2.6-6.5)	3.8 (2.2-5.4)	3.3 (1.9-4.7)
4	27 (15-36)	23 (13-31)	19 (10-26)	16 (8.6-22)	13 (7.1-18)	11 (5.8-15)	9.1 (4.9-12)	7.7 (4.1-10)	6.5 (3.5-8.8)	5.5 (3.0-7.4)	4.7 (2.6-6.3)
5	37 (20-43)	32 (17-37)	27 (14-32)	23 (12-27)	19 (9.6-23)	16 (7.9-19)	13 (6.7-16)	11 (5.7-14)	9.3 (4.9-12)	7.9 (4.3-10)	6.7 (3.7-8.5)
6	47	42	36	31	26	22	19	16	13	11	9.5

Age = 90 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	4.6	3.9	3.3	2.8	2.4	2.0	1.8	1.6	1.4	1.3	1.1
1	6.9 (4.7-12)	5.9 (3.9-9.9)	5.0 (3.3-8.3)	4.2 (2.8-7.0)	3.5 (2.3-5.9)	3.0 (2.0-4.9)	2.6 (1.7-4.2)	2.3 (1.5-3.6)	2.0 (1.3-3.2)	1.8 (1.2-2.8)	1.6 (1.0-2.4)
2	10 (6.3-16)	8.7 (5.3-14)	7.3 (4.5-12)	6.2 (3.8-9.8)	5.2 (3.2-8.2)	4.4 (2.7-6.9)	3.8 (2.3-5.9)	3.3 (2.0-5.1)	2.9 (1.8-4.4)	2.6 (1.6-3.8)	2.3 (1.4-3.3)
3	15 (8.5-22)	13 (7.2-18)	11 (6.1-16)	9.0 (5.1-13)	7.6 (4.3-11)	6.4 (3.6-9.5)	5.6 (3.1-8.2)	4.9 (2.8-7.1)	4.2 (2.4-6.2)	3.7 (2.1-5.4)	3.3 (1.9-4.6)
4	21 (11-28)	18 (9.8-24)	15 (8.3-21)	13 (7.0-18)	11 (5.9-15)	9.4 (5.0-13)	8.1 (4.3-11)	7.1 (3.8-9.6)	6.2 (3.3-8.4)	5.4 (2.9-7.3)	4.7 (2.5-6.3)
5	29 (15-34)	25 (13-30)	22 (11-26)	19 (9.5-23)	16 (8.1-19)	13 (6.8-17)	12 (5.9-15)	10 (5.2-13)	8.9 (4.6-11)	7.7 (4.1-9.8)	6.7 (3.6-8.6)
6	38	34	30	26	22	19	17	15	13	11	9.6