

**The US (Asian) - 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 the US (Asian). 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/m<sup>2</sup>.

**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	11	7.3	5.0	3.6	2.8	2.3	1.9	1.7	1.5	1.5	1.4
1	18 (15-22)	11 (9.9-14)	7.7 (6.5-9.7)	5.6 (4.4-7.0)	4.3 (3.2-5.4)	3.5 (2.4-4.5)	2.9 (2.0-3.9)	2.5 (1.7-3.5)	2.3 (1.5-3.2)	2.2 (1.4-3.1)	2.1 (1.3-3.0)
2	26 (20-36)	17 (13-24)	12 (8.8-16)	8.4 (5.9-12)	6.4 (4.1-9.8)	5.2 (3.1-8.3)	4.4 (2.4-7.3)	3.8 (2.0-6.4)	3.4 (1.8-5.9)	3.2 (1.7-5.7)	3.1 (1.6-5.5)
3	37 (27-50)	25 (18-33)	17 (12-24)	12 (7.9-19)	9.4 (5.5-16)	7.6 (4.1-13)	6.4 (3.2-12)	5.5 (2.6-10)	5.0 (2.3-9.4)	4.7 (2.2-9.1)	4.5 (2.1-8.7)
4	51 (36-63)	35 (24-44)	25 (16-31)	18 (12-24)	14 (8.9-20)	11 (6.8-17)	9.1 (5.3-15)	7.8 (4.3-13)	7.1 (3.8-12)	6.7 (3.5-12)	6.5 (3.3-11)
5	65 (55-75)	48 (38-55)	34 (27-38)	25 (19-30)	19 (15-24)	15 (12-20)	13 (9.7-18)	11 (8.1-15)	9.9 (7.0-14)	9.5 (6.5-14)	9.1 (6.2-13)
6	79	62	46	34	26	21	18	15	14	13	12

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

**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	9.1	6.5	4.9	3.9	3.2	2.7	2.3	2.1	2.0	1.9
1	20 (18-24)	14 (12-17)	9.8 (8.1-12)	7.4 (5.7-8.9)	5.8 (4.3-7.3)	4.7 (3.3-6.2)	4.0 (2.7-5.4)	3.4 (2.3-4.7)	3.1 (2.1-4.4)	3.0 (1.9-4.2)	2.8 (1.8-4.0)
2	29 (23-38)	20 (16-27)	14 (11-19)	11 (7.5-15)	8.5 (5.4-13)	7.0 (4.2-11)	5.9 (3.3-9.6)	5.0 (2.7-8.4)	4.6 (2.5-7.8)	4.4 (2.3-7.5)	4.1 (2.1-7.1)
3	40 (31-50)	29 (22-37)	21 (15-30)	16 (10-24)	12 (7.2-20)	10 (5.5-17)	8.5 (4.3-15)	7.3 (3.6-13)	6.7 (3.2-12)	6.3 (2.9-12)	5.9 (2.8-11)
4	53 (40-63)	39 (28-47)	29 (20-37)	22 (15-31)	17 (12-26)	14 (9.0-22)	12 (7.1-19)	10 (5.8-17)	9.4 (5.1-16)	8.9 (4.7-15)	8.4 (4.4-14)
5	67 (58-74)	52 (43-57)	39 (32-45)	30 (24-37)	24 (19-31)	20 (16-26)	17 (13-23)	14 (10-20)	13 (9.2-18)	12 (8.5-17)	12 (7.9-17)
6	79	65	51	40	32	27	23	19	18	17	16

**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	14	10	7.4	5.7	4.6	3.7	3.1	2.7	2.5	2.3	2.1
1	20 (19-24)	15 (13-17)	11 (9.0-13)	8.5 (6.6-10)	6.8 (5.0-8.5)	5.5 (3.9-7.2)	4.6 (3.2-6.2)	3.9 (2.6-5.4)	3.6 (2.4-5.1)	3.4 (2.2-4.8)	3.2 (2.1-4.5)
2	29 (24-37)	21 (17-27)	16 (12-21)	12 (8.6-17)	9.8 (6.4-15)	8.0 (4.9-12)	6.7 (3.9-11)	5.7 (3.2-9.4)	5.3 (2.9-8.8)	4.9 (2.6-8.3)	4.6 (2.4-7.8)
3	40 (31-48)	30 (23-39)	23 (16-32)	18 (12-27)	14 (8.5-23)	11 (6.5-19)	9.6 (5.1-17)	8.2 (4.2-15)	7.6 (3.7-14)	7.0 (3.4-13)	6.6 (3.1-12)
4	52 (40-59)	40 (30-48)	31 (23-40)	24 (18-33)	20 (14-28)	16 (11-24)	13 (8.3-21)	11 (6.8-19)	11 (6.0-17)	9.9 (5.5-16)	9.2 (5.0-16)
5	65 (58-69)	52 (45-57)	41 (35-48)	33 (27-40)	27 (22-34)	22 (18-29)	18 (14-25)	16 (12-22)	15 (10-20)	14 (9.4-19)	13 (8.7-18)
6	76	64	53	43	35	29	25	21	20	18	17

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

**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	14	11	8.0	6.2	4.9	4.0	3.3	2.8	2.6	2.4	2.2
1	20 (19-23)	15 (13-17)	12 (9.6-13)	9.0 (7.1-11)	7.2 (5.4-9.0)	5.8 (4.2-7.6)	4.8 (3.4-6.5)	4.2 (2.8-5.7)	3.8 (2.5-5.2)	3.5 (2.3-4.9)	3.2 (2.1-4.5)
2	28 (24-35)	22 (18-27)	17 (13-21)	13 (9.4-18)	10 (7.0-15)	8.4 (5.4-13)	7.0 (4.3-11)	6.0 (3.5-9.5)	5.4 (3.1-8.8)	5.0 (2.7-8.2)	4.6 (2.5-7.6)
3	38 (31-47)	30 (24-38)	23 (17-32)	18 (13-27)	15 (9.4-23)	12 (7.1-19)	9.9 (5.6-17)	8.5 (4.6-15)	7.7 (4.0-14)	7.1 (3.6-13)	6.5 (3.2-12)
4	50 (40-56)	39 (31-47)	31 (24-40)	25 (19-34)	20 (15-28)	16 (11-24)	14 (9.0-21)	12 (7.3-19)	11 (6.4-17)	9.8 (5.7-16)	9.1 (5.1-15)
5	61 (56-66)	50 (45-56)	41 (36-47)	33 (28-40)	27 (23-34)	22 (19-29)	19 (15-25)	16 (12-22)	15 (11-20)	13 (9.4-19)	12 (8.6-18)
6	71	61	51	42	35	29	25	21	19	18	17

**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	15	11	8.6	6.7	5.3	4.3	3.5	3.0	2.7	2.4	2.2
1	22 (19-26)	16 (14-20)	13 (10-15)	9.7 (7.8-12)	7.7 (6.0-9.1)	6.1 (4.7-7.2)	5.0 (3.7-5.8)	4.2 (3.1-4.9)	3.7 (2.7-4.4)	3.4 (2.4-4.0)	3.0 (2.1-3.6)
2	31 (25-39)	24 (19-30)	18 (14-23)	14 (10-18)	11 (7.9-14)	8.7 (6.0-11)	7.0 (4.7-9.3)	5.9 (3.9-8.0)	5.2 (3.3-7.0)	4.6 (2.9-6.3)	4.1 (2.6-5.7)
3	42 (33-52)	33 (25-43)	26 (19-34)	20 (14-27)	15 (11-22)	12 (8.0-18)	9.7 (6.3-15)	8.2 (5.1-12)	7.1 (4.4-11)	6.3 (3.8-9.9)	5.6 (3.4-8.9)
4	55 (46-63)	45 (36-53)	35 (28-43)	28 (21-35)	22 (16-28)	17 (13-23)	14 (9.9-19)	11 (8.1-16)	9.7 (6.9-14)	8.5 (6.0-13)	7.6 (5.3-11)
5	67 (60-72)	57 (50-62)	47 (40-53)	38 (32-43)	30 (25-35)	24 (19-28)	19 (15-23)	15 (13-20)	13 (11-17)	12 (9.6-15)	10 (8.5-14)
6	76	69	59	50	40	32	26	21	18	15	14

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

**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	16	12	9.5	7.5	5.9	4.7	3.8	3.3	2.9	2.5	2.3
1	24 (19-39)	19 (15-31)	15 (11-23)	11 (8.7-18)	9.0 (6.7-13)	7.0 (5.3-10)	5.6 (4.1-7.7)	4.7 (3.5-6.1)	4.0 (3.0-5.0)	3.5 (2.6-4.1)	3.1 (2.2-3.6)
2	36 (25-53)	29 (20-44)	22 (15-35)	17 (12-27)	14 (9.0-21)	11 (7.0-16)	8.3 (5.4-12)	6.8 (4.5-9.8)	5.7 (3.8-8.0)	4.9 (3.2-6.6)	4.2 (2.8-5.5)
3	49 (34-64)	41 (26-55)	33 (20-45)	26 (16-36)	20 (12-29)	16 (9.3-23)	12 (7.2-18)	9.9 (6.0-14)	8.2 (5.0-12)	6.9 (4.2-9.9)	5.8 (3.6-8.3)
4	62 (44-72)	54 (36-65)	45 (28-56)	37 (22-47)	30 (17-38)	23 (14-30)	18 (11-23)	15 (8.9-19)	12 (7.6-16)	9.8 (6.5-13)	8.1 (5.6-11)
5	73 (56-78)	66 (47-73)	59 (39-65)	50 (32-56)	41 (26-47)	33 (21-38)	26 (16-30)	21 (14-25)	17 (12-20)	14 (9.9-17)	11 (8.6-14)
6	80	76	70	63	55	46	37	30	24	20	16

**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	17	13	11	8.6	7.0	5.6	4.6	4.0	3.5	3.1	2.7
1	25 (20-40)	20 (16-33)	16 (12-26)	13 (9.9-21)	10 (7.9-16)	8.4 (6.3-13)	6.8 (5.0-9.9)	5.8 (4.3-8.1)	5.0 (3.6-6.7)	4.3 (3.1-5.5)	3.7 (2.7-4.6)
2	36 (26-52)	30 (21-45)	24 (17-37)	20 (13-30)	16 (11-24)	13 (8.4-19)	10 (6.7-15)	8.4 (5.6-13)	7.1 (4.7-10)	6.1 (4.0-8.7)	5.2 (3.4-7.2)
3	48 (33-62)	41 (27-55)	34 (22-47)	28 (18-40)	23 (14-32)	18 (11-26)	15 (9.0-21)	12 (7.5-17)	10 (6.3-14)	8.6 (5.3-12)	7.3 (4.5-10)
4	59 (42-70)	53 (35-64)	46 (29-57)	39 (24-49)	32 (19-41)	26 (15-34)	21 (12-27)	18 (11-23)	15 (8.9-19)	12 (7.7-16)	10 (6.6-14)
5	69 (52-75)	64 (45-70)	58 (39-64)	51 (33-57)	44 (27-50)	37 (22-42)	30 (18-35)	25 (16-30)	21 (13-25)	18 (11-21)	15 (9.9-18)
6	77	73	68	63	56	49	41	35	30	25	21

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

**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	15	12	10	8.4	6.9	5.6	4.8	4.1	3.6	3.1	2.8
1	23 (17-36)	19 (14-30)	15 (12-25)	13 (9.5-20)	10 (7.7-16)	8.5 (6.2-13)	7.1 (5.2-11)	6.1 (4.4-8.9)	5.2 (3.8-7.4)	4.5 (3.3-6.2)	3.9 (2.8-5.2)
2	32 (23-48)	27 (19-41)	23 (15-35)	19 (13-29)	15 (10-24)	13 (8.4-20)	11 (7.0-16)	8.9 (5.9-14)	7.6 (5.0-12)	6.5 (4.3-9.7)	5.6 (3.7-8.2)
3	44 (30-58)	38 (25-51)	32 (21-45)	27 (17-38)	23 (14-32)	19 (11-27)	16 (9.3-22)	13 (7.9-19)	11 (6.7-16)	9.5 (5.7-13)	8.1 (4.9-11)
4	55 (38-66)	50 (32-60)	43 (27-54)	38 (23-47)	32 (19-41)	27 (15-34)	22 (13-29)	19 (11-25)	16 (9.5-21)	14 (8.1-18)	12 (7.0-15)
5	66 (48-72)	61 (42-68)	55 (37-62)	49 (31-56)	43 (26-49)	37 (22-42)	32 (19-37)	27 (16-32)	23 (14-27)	20 (12-23)	17 (11-20)
6	75	71	67	61	55	49	43	38	33	28	24

**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	11	8.9	7.5	6.2	5.2	4.3	3.8	3.3	2.9	2.5	2.2
1	16 (12-26)	13 (9.9-22)	11 (8.2-18)	9.4 (6.9-15)	7.9 (5.7-13)	6.5 (4.7-10)	5.6 (4.1-8.9)	4.9 (3.5-7.6)	4.3 (3.1-6.5)	3.7 (2.7-5.5)	3.2 (2.3-4.7)
2	23 (16-35)	20 (13-30)	17 (11-26)	14 (9.2-22)	12 (7.7-19)	9.9 (6.4-16)	8.5 (5.5-13)	7.4 (4.8-12)	6.4 (4.1-10)	5.5 (3.6-8.6)	4.8 (3.1-7.4)
3	32 (21-45)	28 (18-40)	24 (15-35)	21 (13-30)	17 (10-25)	15 (8.7-21)	13 (7.5-19)	11 (6.5-16)	9.5 (5.6-14)	8.2 (4.8-12)	7.1 (4.2-10)
4	43 (27-54)	38 (23-48)	34 (20-43)	29 (17-38)	25 (14-33)	21 (12-28)	19 (10-24)	16 (8.9-21)	14 (7.8-18)	12 (6.8-16)	10 (5.9-14)
5	55 (36-61)	50 (31-56)	45 (27-51)	40 (23-46)	35 (20-40)	30 (17-35)	27 (15-31)	23 (13-27)	20 (11-24)	18 (9.9-21)	15 (8.7-18)
6	66	62	57	52	47	41	37	33	29	26	22