

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 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 the US (Asian). 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/m ²)						
	15	20	25	30	35	40	45
0	1.7	1.6	1.6	1.4	1.2	1.1	0.9
1	2.7 (1.8-3.8)	2.5 (1.7-3.5)	2.5 (1.6-3.3)	2.1 (1.4-2.9)	1.9 (1.3-2.6)	1.6 (1.1-2.2)	1.4 (1.0-2.0)
2	4.2 (2.2-7.1)	3.9 (2.1-6.8)	3.8 (2.0-6.6)	3.3 (1.7-5.8)	2.9 (1.5-5.1)	2.5 (1.3-4.5)	2.2 (1.1-3.9)
3	6.5 (3.2-12)	6.0 (2.9-11)	5.7 (2.7-11)	5.0 (2.3-9.2)	4.3 (2.0-8.1)	3.8 (1.8-7.1)	3.3 (1.5-6.3)
4	10 (5.4-16)	9.0 (4.7-15)	8.5 (4.4-14)	7.4 (3.8-12)	6.4 (3.3-11)	5.6 (2.9-9.5)	4.9 (2.5-8.3)
5	15 (9.5-20)	13 (8.8-18)	12 (8.5-17)	11 (7.4-15)	9.4 (6.5-13)	8.2 (5.7-11)	7.2 (5.0-9.9)
6	22	19	18	16	14	12	10

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.4	2.3	2.3	2.0	1.7	1.5	1.3
1	3.8 (2.6-5.4)	3.6 (2.5-4.9)	3.5 (2.4-4.7)	3.1 (2.1-4.1)	2.7 (1.8-3.6)	2.3 (1.6-3.1)	2.1 (1.4-2.7)
2	6.0 (3.3-9.8)	5.5 (3.0-9.4)	5.3 (2.9-9.2)	4.7 (2.5-8.0)	4.1 (2.2-7.1)	3.6 (1.9-6.2)	3.1 (1.6-5.4)
3	9.2 (4.7-16)	8.4 (4.2-15)	8.0 (3.9-14)	7.0 (3.4-13)	6.1 (2.9-11)	5.3 (2.6-9.8)	4.7 (2.2-8.6)
4	14 (8.0-21)	12 (6.9-20)	12 (6.4-19)	10 (5.5-17)	9.0 (4.8-15)	7.8 (4.1-13)	6.8 (3.6-11)
5	20 (14-27)	18 (13-24)	17 (12-23)	15 (10-20)	13 (9.1-18)	11 (8.0-15)	9.9 (7.0-14)
6	29	26	24	21	18	16	14

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	2.9	2.8	2.4	2.1	1.9	1.6
1	4.9 (3.4-6.7)	4.5 (3.1-6.0)	4.3 (2.9-5.6)	3.7 (2.5-4.9)	3.3 (2.2-4.3)	2.8 (1.9-3.7)	2.5 (1.7-3.2)
2	7.5 (4.4-12)	6.9 (3.9-11)	6.5 (3.6-11)	5.7 (3.1-9.5)	4.9 (2.7-8.3)	4.3 (2.3-7.3)	3.7 (2.0-6.4)
3	11 (6.4-19)	10 (5.5-18)	9.7 (4.9-17)	8.4 (4.3-15)	7.3 (3.7-13)	6.4 (3.2-11)	5.6 (2.7-10)
4	17 (11-26)	15 (9.1-24)	14 (8.1-23)	12 (6.9-20)	11 (6.0-17)	9.3 (5.1-15)	8.1 (4.4-13)
5	25 (17-32)	22 (16-29)	20 (15-27)	18 (13-24)	15 (11-21)	13 (9.7-18)	12 (8.4-16)
6	35	31	29	25	22	19	17

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.7	3.3	3.2	2.7	2.4	2.1	1.8
1	5.8 (4.2-7.7)	5.2 (3.6-6.8)	4.8 (3.4-6.2)	4.2 (2.9-5.4)	3.6 (2.5-4.7)	3.1 (2.1-4.0)	2.7 (1.8-3.5)
2	8.9 (5.5-13)	7.9 (4.7-12)	7.3 (4.2-12)	6.3 (3.6-10)	5.4 (3.1-8.9)	4.7 (2.6-7.8)	4.1 (2.3-6.8)
3	13 (8.4-20)	12 (6.8-19)	11 (5.9-18)	9.3 (5.0-16)	8.0 (4.3-14)	6.9 (3.7-12)	6.0 (3.1-11)
4	20 (13-28)	17 (11-26)	16 (9.7-24)	14 (8.2-21)	12 (7.0-19)	10 (5.9-16)	8.8 (5.0-14)
5	28 (21-35)	25 (18-32)	22 (17-29)	19 (14-26)	17 (12-22)	15 (11-19)	13 (9.2-17)
6	39	34	31	27	24	20	18

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.7	4.1	3.7	3.2	2.7	2.3	2.0
1	7.3 (5.4-9.2)	6.2 (4.6-7.9)	5.5 (4.0-7.0)	4.6 (3.4-6.0)	4.0 (2.9-5.1)	3.4 (2.4-4.4)	2.9 (2.1-3.8)
2	11 (7.4-16)	9.4 (6.0-13)	8.1 (5.1-11)	6.9 (4.3-9.6)	5.8 (3.6-8.2)	4.9 (3.1-7.0)	4.2 (2.6-6.0)
3	17 (12-25)	14 (9.1-21)	12 (7.5-18)	10 (6.3-15)	8.6 (5.3-13)	7.2 (4.4-11)	6.1 (3.7-9.5)
4	26 (18-36)	21 (15-30)	18 (12-26)	15 (10-22)	13 (8.6-19)	11 (7.1-16)	8.9 (6.0-13)
5	37 (31-46)	31 (26-39)	26 (21-33)	22 (17-28)	18 (15-24)	15 (12-20)	13 (10-17)
6	50	44	37	32	27	22	19

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.4	5.3	4.6	3.8	3.2	2.7	2.3
1	11 (7.4-16)	8.5 (6.1-12)	7.0 (5.1-8.5)	5.8 (4.3-7.0)	4.8 (3.5-5.9)	4.0 (3.0-5.0)	3.4 (2.5-4.2)
2	17 (10-26)	14 (8.3-20)	11 (6.8-15)	8.9 (5.6-12)	7.4 (4.6-10)	6.1 (3.8-8.3)	5.0 (3.2-6.9)
3	26 (16-39)	21 (13-31)	17 (10-25)	14 (8.4-20)	11 (6.9-17)	9.3 (5.7-14)	7.6 (4.7-11)
4	38 (24-51)	32 (20-45)	26 (17-36)	21 (14-30)	17 (11-25)	14 (9.1-21)	12 (7.5-17)
5	51 (37-61)	46 (33-55)	38 (28-47)	32 (23-40)	27 (19-33)	22 (16-28)	18 (13-23)
6	63	60	53	46	39	33	27

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.0	7.4	6.3	5.2	4.4	3.6	3.0
1	15 (10-23)	12 (8.6-17)	9.7 (7.2-13)	8.0 (5.9-10)	6.6 (4.8-8.4)	5.4 (4.0-6.8)	4.5 (3.3-5.5)
2	23 (15-34)	19 (12-27)	15 (9.6-21)	12 (7.8-17)	10 (6.4-14)	8.2 (5.2-11)	6.8 (4.3-9.1)
3	33 (21-46)	28 (18-40)	23 (15-32)	19 (12-26)	15 (9.8-22)	12 (8.0-18)	10 (6.5-14)
4	45 (30-56)	40 (27-52)	33 (23-45)	28 (19-38)	23 (15-32)	19 (12-26)	15 (10-22)
5	56 (42-65)	53 (38-62)	47 (34-56)	40 (28-48)	33 (24-41)	28 (19-35)	23 (16-29)
6	67	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 men from the US (Asian).

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	8.7	7.2	6.0	4.9	4.1	3.4
1	17 (12-27)	14 (10-21)	11 (8.3-16)	9.3 (6.8-13)	7.6 (5.5-10)	6.2 (4.5-8.1)	5.1 (3.7-6.6)
2	26 (17-40)	22 (14-32)	18 (11-25)	14 (9.1-21)	12 (7.4-17)	9.5 (6.0-13)	7.8 (4.9-11)
3	38 (25-52)	32 (21-45)	27 (17-38)	22 (14-31)	18 (11-26)	15 (9.3-21)	12 (7.5-17)
4	50 (34-62)	45 (31-58)	39 (26-51)	32 (22-43)	27 (18-37)	22 (14-31)	18 (12-25)
5	62 (47-70)	58 (43-67)	53 (38-62)	45 (32-54)	39 (27-47)	32 (22-40)	27 (18-33)
6	72	70	66	59	52	45	38

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.5	7.8	6.5	5.3	4.4	3.6	2.9
1	16 (11-25)	13 (9.1-20)	10 (7.5-15)	8.4 (6.0-12)	6.8 (4.9-9.4)	5.5 (3.9-7.5)	4.5 (3.2-6.0)
2	24 (16-37)	20 (13-30)	16 (10-24)	13 (8.3-19)	11 (6.6-15)	8.5 (5.3-12)	6.9 (4.3-9.7)
3	35 (22-49)	30 (19-43)	25 (16-35)	20 (13-29)	16 (10-24)	13 (8.2-19)	11 (6.5-15)
4	48 (32-60)	42 (28-55)	36 (24-48)	30 (20-41)	25 (16-34)	20 (13-28)	16 (10-23)
5	60 (44-68)	56 (40-65)	50 (35-59)	43 (29-52)	36 (24-44)	30 (20-37)	24 (16-31)
6	70	68	63	56	49	42	35