

Thailand - 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 Thailand. 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	1.5	1.4	1.4	1.2	1.1	0.9	0.8
1	2.3 (1.6-3.5)	2.3 (1.5-3.2)	2.2 (1.5-3.1)	1.9 (1.3-2.7)	1.7 (1.1-2.3)	1.5 (1.0-2.0)	1.3 (0.8-1.8)
2	3.7 (2.0-6.3)	3.5 (1.8-6.1)	3.4 (1.8-6.0)	3.0 (1.5-5.2)	2.6 (1.3-4.6)	2.2 (1.2-4.0)	1.9 (1.0-3.5)
3	5.7 (2.9-9.9)	5.3 (2.6-9.6)	5.2 (2.5-9.4)	4.5 (2.1-8.2)	3.9 (1.8-7.2)	3.4 (1.6-6.2)	2.9 (1.4-5.4)
4	8.8 (4.6-14)	8.1 (4.2-13)	7.7 (3.9-13)	6.6 (3.4-11)	5.7 (2.9-9.6)	5.0 (2.5-8.4)	4.3 (2.2-7.3)
5	13 (7.9-18)	12 (7.6-16)	11 (7.5-15)	9.7 (6.5-13)	8.4 (5.6-12)	7.3 (4.9-10)	6.3 (4.2-8.8)
6	19	17	16	14	12	10	9.0

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.8	1.8	1.7	1.5	1.3	1.1	1.0
1	2.9 (2.0-4.3)	2.7 (1.8-3.9)	2.7 (1.8-3.7)	2.3 (1.5-3.2)	2.0 (1.3-2.7)	1.7 (1.2-2.4)	1.5 (1.0-2.0)
2	4.6 (2.5-7.5)	4.2 (2.3-7.2)	4.1 (2.2-7.0)	3.5 (1.9-6.1)	3.0 (1.6-5.3)	2.6 (1.4-4.6)	2.3 (1.2-4.0)
3	7.1 (3.8-11)	6.5 (3.4-11)	6.2 (3.1-11)	5.3 (2.6-9.5)	4.6 (2.3-8.2)	3.9 (1.9-7.1)	3.4 (1.7-6.2)
4	11 (6.1-16)	9.7 (5.4-15)	9.1 (4.9-15)	7.9 (4.2-13)	6.7 (3.6-11)	5.8 (3.0-9.6)	5.0 (2.6-8.3)
5	16 (9.8-21)	14 (9.3-19)	13 (9.0-18)	11 (7.7-16)	9.8 (6.6-13)	8.4 (5.7-12)	7.3 (4.9-10)
6	23	21	19	16	14	12	10

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.3	2.2	2.2	1.9	1.6	1.4	1.2
1	3.6 (2.5-5.3)	3.4 (2.3-4.8)	3.4 (2.3-4.6)	2.9 (1.9-3.9)	2.5 (1.7-3.3)	2.1 (1.4-2.9)	1.8 (1.2-2.5)
2	5.6 (3.3-8.8)	5.3 (3.0-8.6)	5.1 (2.8-8.5)	4.3 (2.4-7.4)	3.7 (2.0-6.4)	3.2 (1.7-5.5)	2.7 (1.5-4.8)
3	8.5 (5.0-13)	7.9 (4.5-13)	7.6 (4.0-13)	6.5 (3.4-11)	5.5 (2.9-9.5)	4.7 (2.4-8.2)	4.0 (2.1-7.1)
4	13 (7.7-19)	12 (6.9-18)	11 (6.4-18)	9.5 (5.3-15)	8.1 (4.5-13)	6.9 (3.7-11)	5.9 (3.1-9.6)
5	18 (12-24)	17 (11-22)	16 (11-21)	14 (9.4-18)	12 (8.0-16)	9.9 (6.8-14)	8.4 (5.8-12)
6	25	24	23	19	16	14	12

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.8	2.7	2.7	2.3	2.0	1.7	1.4
1	4.3 (3.0-6.0)	4.2 (2.9-5.7)	4.1 (2.8-5.5)	3.5 (2.4-4.6)	2.9 (2.0-3.9)	2.5 (1.7-3.3)	2.1 (1.4-2.8)
2	6.4 (4.0-9.7)	6.2 (3.8-9.8)	6.1 (3.6-9.9)	5.2 (3.0-8.5)	4.4 (2.5-7.3)	3.7 (2.1-6.3)	3.1 (1.8-5.4)
3	9.5 (5.8-14)	9.2 (5.5-14)	9.0 (5.2-14)	7.6 (4.3-12)	6.4 (3.6-11)	5.4 (3.0-9.0)	4.6 (2.5-7.7)
4	14 (8.8-19)	13 (8.5-19)	13 (7.9-20)	11 (6.5-17)	9.2 (5.4-14)	7.8 (4.4-12)	6.5 (3.6-11)
5	19 (13-25)	19 (13-25)	18 (13-24)	15 (11-21)	13 (9.2-18)	11 (7.7-15)	9.2 (6.5-13)
6	26	25	25	21	18	15	13

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.3	3.3	3.3	2.8	2.3	2.0	1.7
1	5.0 (3.4-6.4)	4.9 (3.4-6.4)	4.9 (3.4-6.4)	4.0 (2.8-5.4)	3.4 (2.3-4.5)	2.8 (1.9-3.8)	2.3 (1.6-3.2)
2	7.5 (4.6-11)	7.2 (4.5-11)	7.1 (4.4-10)	5.8 (3.6-8.7)	4.8 (3.0-7.3)	4.0 (2.5-6.1)	3.3 (2.0-5.1)
3	11 (6.4-17)	11 (6.3-16)	10 (6.3-15)	8.4 (5.1-13)	6.9 (4.2-10)	5.7 (3.4-8.7)	4.7 (2.8-7.3)
4	16 (10-23)	15 (9.8-22)	15 (9.5-22)	12 (7.7-18)	10 (6.2-15)	8.2 (5.0-12)	6.7 (4.1-10)
5	23 (19-30)	22 (17-29)	21 (16-28)	17 (13-23)	14 (11-19)	12 (8.7-16)	9.5 (7.0-13)
6	32	30	29	24	20	16	13

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.0	3.9	3.9	3.2	2.7	2.2	1.8
1	6.4 (4.1-10)	6.1 (4.1-8.9)	5.9 (4.1-7.8)	4.8 (3.3-6.2)	3.9 (2.7-4.9)	3.2 (2.2-4.0)	2.6 (1.8-3.3)
2	10 (5.6-17)	9.5 (5.5-15)	8.9 (5.4-14)	7.2 (4.4-11)	5.8 (3.5-8.8)	4.7 (2.8-7.1)	3.8 (2.3-5.7)
3	15 (7.9-25)	14 (7.6-23)	13 (7.6-21)	11 (6.1-17)	8.7 (4.8-13)	7.0 (3.9-11)	5.6 (3.1-8.7)
4	23 (13-33)	21 (12-31)	20 (12-28)	16 (9.2-23)	13 (7.4-19)	10 (5.9-15)	8.3 (4.7-12)
5	32 (21-41)	30 (20-39)	28 (19-36)	23 (16-31)	19 (13-25)	15 (10-21)	12 (8.3-17)
6	43	41	39	32	27	22	18

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.7	4.4	4.2	3.4	2.7	2.2	1.8
1	7.6 (5.1-13)	6.9 (4.7-11)	6.4 (4.4-9.4)	5.1 (3.5-7.4)	4.1 (2.8-5.8)	3.3 (2.2-4.6)	2.6 (1.8-3.6)
2	12 (7.1-20)	11 (6.5-18)	9.8 (6.1-15)	7.8 (4.8-12)	6.2 (3.8-9.3)	5.0 (3.0-7.3)	3.9 (2.4-5.8)
3	18 (10-28)	17 (9.2-25)	15 (8.5-22)	12 (6.7-18)	9.4 (5.3-14)	7.5 (4.2-11)	5.9 (3.3-9.1)
4	27 (15-37)	24 (14-33)	22 (13-30)	18 (11-25)	14 (8.3-20)	11 (6.6-16)	8.8 (5.1-13)
5	36 (23-45)	34 (21-42)	31 (20-39)	25 (16-33)	21 (13-27)	16 (10-22)	13 (8.2-18)
6	47	45	42	35	29	24	19

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.7	4.4	4.2	3.4	2.7	2.2	1.8
1	7.8 (5.2-13)	7.0 (4.7-11)	6.5 (4.4-9.7)	5.2 (3.5-7.7)	4.1 (2.7-6.0)	3.3 (2.2-4.7)	2.6 (1.7-3.7)
2	12 (7.3-21)	11 (6.6-18)	10 (6.1-15)	7.9 (4.8-12)	6.3 (3.8-9.6)	5.0 (3.0-7.5)	3.9 (2.3-5.9)
3	19 (11-29)	17 (9.3-26)	15 (8.5-23)	12 (6.7-18)	9.5 (5.2-15)	7.5 (4.1-12)	5.9 (3.2-9.2)
4	28 (16-38)	25 (14-34)	22 (13-31)	18 (10-25)	14 (8.3-20)	11 (6.5-16)	8.9 (5.1-13)
5	38 (24-46)	35 (22-43)	31 (20-39)	26 (16-33)	21 (13-27)	17 (10-22)	13 (8.0-18)
6	49	46	42	36	30	24	19

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.5	4.1	3.8	3.1	2.5	2.0	1.6
1	7.5 (5.0-13)	6.6 (4.5-11)	6.0 (4.1-9.1)	4.8 (3.2-7.1)	3.8 (2.5-5.6)	3.0 (2.0-4.3)	2.4 (1.6-3.4)
2	12 (7.1-20)	11 (6.3-17)	9.4 (5.7-15)	7.4 (4.5-11)	5.8 (3.5-9.0)	4.6 (2.8-7.0)	3.6 (2.2-5.5)
3	18 (10-28)	16 (9.0-25)	14 (8.1-22)	11 (6.4-17)	9.0 (5.0-14)	7.1 (3.9-11)	5.6 (3.0-8.6)
4	27 (15-37)	24 (14-33)	21 (13-30)	17 (10-24)	14 (7.9-19)	11 (6.2-16)	8.5 (4.9-12)
5	37 (23-45)	34 (21-42)	30 (19-38)	25 (15-32)	20 (12-26)	16 (9.7-21)	13 (7.7-17)
6	47	45	41	35	29	23	19