

**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 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 Thailand. 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	13	8.2	5.4	3.7	2.8	2.2	1.8	1.5	1.4	1.3	1.3
1	20 (17-26)	13 (11-16)	8.2 (7.2-11)	5.7 (4.6-7.2)	4.2 (3.2-5.3)	3.3 (2.4-4.1)	2.7 (1.8-3.6)	2.3 (1.5-3.1)	2.1 (1.3-2.9)	2.0 (1.3-2.7)	1.9 (1.2-2.6)
2	29 (22-40)	19 (14-26)	12 (9.7-17)	8.5 (6.3-12)	6.3 (4.2-9.2)	4.9 (3.0-7.7)	4.0 (2.3-6.6)	3.4 (1.9-5.8)	3.0 (1.6-5.3)	2.9 (1.5-5.1)	2.8 (1.4-4.9)
3	40 (29-52)	27 (19-35)	18 (13-24)	13 (8.6-18)	9.2 (5.7-15)	7.1 (4.0-12)	5.8 (3.0-10)	4.9 (2.4-9.1)	4.4 (2.1-8.4)	4.2 (1.9-8.0)	4.0 (1.8-7.7)
4	53 (40-65)	38 (26-47)	26 (17-31)	18 (12-24)	13 (8.7-19)	10 (6.6-16)	8.3 (5.0-13)	7.0 (3.9-12)	6.3 (3.4-11)	6.0 (3.1-10)	5.7 (2.9-9.9)
5	66 (56-74)	50 (40-57)	35 (27-40)	25 (19-29)	19 (14-23)	14 (11-19)	12 (8.7-16)	9.8 (7.4-14)	8.8 (6.3-13)	8.3 (5.8-12)	7.9 (5.4-12)
6	77	63	47	34	25	20	16	14	12	11	11

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

**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	15	9.4	6.3	4.4	3.3	2.6	2.1	1.7	1.6	1.5	1.4
1	21 (18-26)	14 (13-17)	9.4 (8.2-12)	6.6 (5.4-8.2)	4.9 (3.8-6.0)	3.8 (2.8-4.8)	3.1 (2.1-4.0)	2.6 (1.7-3.5)	2.3 (1.5-3.2)	2.2 (1.4-3.1)	2.1 (1.3-2.9)
2	30 (24-40)	20 (16-27)	14 (11-19)	9.8 (7.4-13)	7.2 (5.0-10)	5.6 (3.6-8.6)	4.5 (2.7-7.3)	3.8 (2.1-6.3)	3.4 (1.9-5.8)	3.2 (1.7-5.5)	3.0 (1.6-5.2)
3	41 (31-51)	29 (21-36)	20 (15-26)	14 (10-20)	10 (6.8-16)	8.1 (4.8-13)	6.5 (3.6-11)	5.5 (2.8-9.8)	4.9 (2.4-9.1)	4.6 (2.2-8.6)	4.3 (2.0-8.2)
4	53 (41-63)	39 (29-46)	28 (20-33)	20 (14-26)	15 (10-21)	11 (7.8-17)	9.2 (5.8-14)	7.7 (4.5-13)	6.9 (3.8-12)	6.4 (3.4-11)	6.1 (3.2-10)
5	65 (57-72)	50 (42-57)	37 (30-41)	27 (22-32)	20 (16-25)	16 (12-21)	13 (9.8-17)	11 (8.1-15)	9.6 (6.9-14)	8.9 (6.2-13)	8.4 (5.7-12)
6	75	62	48	36	28	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	15	9.9	7.0	5.1	3.9	3.0	2.5	2.1	1.9	1.7	1.6
1	21 (19-24)	14 (13-17)	10 (8.7-12)	7.5 (6.0-8.9)	5.7 (4.3-6.8)	4.4 (3.2-5.6)	3.6 (2.5-4.7)	3.0 (2.0-4.1)	2.7 (1.8-3.8)	2.5 (1.6-3.5)	2.3 (1.5-3.3)
2	29 (23-36)	20 (16-26)	15 (12-19)	11 (8.2-14)	8.2 (5.8-12)	6.4 (4.2-9.6)	5.2 (3.2-8.2)	4.3 (2.5-7.0)	3.9 (2.2-6.6)	3.6 (2.0-6.2)	3.4 (1.8-5.8)
3	38 (30-46)	28 (22-34)	20 (16-27)	15 (11-21)	12 (7.8-17)	9.1 (5.6-15)	7.3 (4.2-12)	6.1 (3.3-11)	5.6 (2.9-10)	5.1 (2.5-9.4)	4.8 (2.3-8.9)
4	48 (39-56)	37 (28-43)	28 (21-33)	21 (15-27)	16 (12-22)	13 (8.8-19)	10 (6.6-16)	8.5 (5.1-14)	7.7 (4.4-13)	7.1 (3.9-12)	6.6 (3.5-11)
5	58 (52-63)	47 (40-51)	36 (30-41)	28 (23-33)	21 (17-27)	17 (14-22)	14 (11-19)	12 (8.9-16)	10 (7.7-15)	9.7 (6.8-14)	9.0 (6.2-13)
6	67	57	45	36	28	23	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 Thailand.

**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	10	7.3	5.5	4.3	3.4	2.8	2.3	2.1	1.9	1.8
1	19 (17-22)	14 (12-16)	10 (8.6-12)	7.9 (6.3-9.2)	6.1 (4.6-7.4)	4.9 (3.5-6.1)	4.0 (2.8-5.2)	3.4 (2.3-4.5)	3.0 (2.0-4.2)	2.8 (1.8-3.9)	2.6 (1.6-3.6)
2	26 (21-31)	19 (16-23)	14 (12-18)	11 (8.4-15)	8.6 (6.2-12)	6.9 (4.6-10)	5.6 (3.6-8.7)	4.8 (2.9-7.6)	4.3 (2.5-7.0)	3.9 (2.2-6.6)	3.6 (1.9-6.1)
3	34 (27-40)	26 (21-31)	20 (16-26)	15 (11-21)	12 (8.3-18)	9.5 (6.2-15)	7.8 (4.7-13)	6.6 (3.8-11)	5.9 (3.2-10)	5.4 (2.8-9.6)	5.0 (2.5-9.1)
4	42 (35-48)	33 (27-39)	26 (20-32)	20 (16-27)	16 (12-22)	13 (9.3-19)	11 (7.1-16)	9.0 (5.6-14)	8.1 (4.8-13)	7.4 (4.2-12)	6.9 (3.8-12)
5	50 (45-55)	41 (36-47)	33 (28-39)	26 (22-32)	21 (17-27)	17 (14-23)	14 (11-19)	12 (9.3-17)	11 (8.0-16)	9.9 (7.0-14)	9.1 (6.3-14)
6	58	49	41	33	27	22	18	16	14	13	12

**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	13	9.6	7.4	5.8	4.6	3.7	3.0	2.6	2.3	2.1	1.9
1	18 (15-22)	14 (11-17)	10 (8.1-13)	8.1 (6.1-10)	6.4 (4.7-7.9)	5.1 (3.7-6.3)	4.1 (2.9-5.0)	3.5 (2.4-4.3)	3.1 (2.1-3.8)	2.8 (1.9-3.4)	2.5 (1.7-3.1)
2	25 (19-32)	19 (15-25)	15 (11-20)	11 (8.3-15)	8.9 (6.3-12)	7.0 (4.8-9.9)	5.7 (3.8-8.0)	4.8 (3.1-6.8)	4.2 (2.6-6.0)	3.8 (2.3-5.4)	3.4 (2.1-4.9)
3	33 (25-40)	26 (20-33)	20 (15-27)	16 (11-21)	12 (8.5-17)	9.7 (6.5-14)	7.7 (5.0-11)	6.5 (4.1-9.7)	5.6 (3.5-8.6)	5.0 (3.0-7.8)	4.5 (2.7-7.1)
4	42 (33-49)	34 (26-41)	27 (20-34)	21 (15-27)	17 (12-22)	13 (9.1-18)	10 (7.1-15)	8.7 (5.8-13)	7.5 (4.9-11)	6.6 (4.3-10)	5.9 (3.8-9.1)
5	51 (43-57)	43 (36-49)	35 (28-41)	28 (22-34)	22 (18-28)	18 (14-23)	14 (11-18)	12 (9.1-16)	9.9 (7.8-14)	8.7 (6.8-12)	7.7 (6.1-11)
6	60	52	44	36	29	23	19	15	13	11	9.9

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

**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	12	9.2	7.2	5.7	4.6	3.7	3.0	2.6	2.3	2.1	1.9
1	18 (13-30)	14 (9.9-24)	11 (7.7-19)	8.7 (6.0-14)	6.9 (4.7-11)	5.4 (3.7-8.4)	4.4 (3.0-6.4)	3.7 (2.5-5.2)	3.2 (2.1-4.2)	2.8 (1.9-3.5)	2.5 (1.7-3.0)
2	25 (17-39)	20 (13-31)	16 (10-25)	13 (8.1-20)	10 (6.3-15)	8.0 (5.0-12)	6.3 (3.9-9.4)	5.2 (3.3-7.6)	4.4 (2.8-6.3)	3.8 (2.4-5.3)	3.3 (2.1-4.5)
3	35 (22-47)	29 (17-40)	23 (14-33)	19 (11-26)	15 (8.5-21)	12 (6.7-17)	9.1 (5.2-13)	7.4 (4.3-11)	6.2 (3.7-9.0)	5.2 (3.1-7.5)	4.5 (2.7-6.4)
4	45 (29-55)	38 (23-48)	32 (19-41)	26 (15-34)	21 (12-27)	16 (9.1-22)	13 (7.2-17)	11 (6.0-14)	8.7 (5.1-12)	7.2 (4.4-10)	6.1 (3.8-8.5)
5	55 (37-62)	48 (31-55)	41 (25-48)	35 (20-41)	28 (16-34)	23 (13-28)	18 (11-23)	15 (8.9-19)	12 (7.6-16)	10 (6.6-13)	8.3 (5.8-11)
6	65	59	52	45	38	31	25	20	17	14	11

**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	9.7	7.8	6.2	5.0	4.1	3.3	2.7	2.3	2.0	1.8	1.6
1	15 (11-26)	12 (8.5-21)	9.6 (6.7-17)	7.7 (5.3-13)	6.2 (4.2-11)	4.9 (3.4-8.3)	4.0 (2.7-6.5)	3.4 (2.3-5.3)	2.9 (2.0-4.4)	2.5 (1.7-3.6)	2.2 (1.5-3.0)
2	22 (14-35)	18 (11-29)	14 (9.1-23)	12 (7.2-19)	9.2 (5.7-15)	7.4 (4.6-12)	5.9 (3.7-9.2)	5.0 (3.1-7.5)	4.2 (2.6-6.2)	3.5 (2.2-5.1)	3.0 (1.9-4.3)
3	30 (19-43)	25 (15-36)	21 (12-30)	17 (9.8-25)	14 (7.8-20)	11 (6.3-16)	8.7 (5.0-13)	7.2 (4.2-10)	6.0 (3.5-8.6)	5.0 (3.0-7.1)	4.3 (2.5-6.0)
4	40 (24-51)	34 (20-44)	29 (16-38)	24 (13-32)	19 (11-26)	16 (8.5-21)	13 (6.9-17)	10 (5.8-14)	8.6 (4.8-12)	7.2 (4.1-9.6)	6.0 (3.5-8.0)
5	50 (31-57)	44 (26-51)	38 (22-45)	32 (18-38)	27 (14-32)	22 (12-27)	18 (9.4-22)	15 (7.9-18)	12 (6.7-15)	10 (5.8-13)	8.4 (5.0-11)
6	60	55	49	42	36	30	25	21	17	14	12

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

**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	7.2	6.0	4.9	4.1	3.4	2.8	2.4	2.1	1.8	1.6	1.4
1	11 (7.8-20)	9.1 (6.3-16)	7.5 (5.2-13)	6.2 (4.2-11)	5.1 (3.4-8.8)	4.2 (2.8-7.1)	3.5 (2.4-5.8)	3.0 (2.0-4.9)	2.6 (1.7-4.1)	2.3 (1.5-3.5)	2.0 (1.3-3.0)
2	16 (10-26)	14 (8.6-22)	11 (7.0-18)	9.3 (5.7-15)	7.6 (4.7-12)	6.2 (3.8-10)	5.2 (3.2-8.2)	4.5 (2.7-6.9)	3.8 (2.3-5.8)	3.3 (2.0-4.9)	2.8 (1.7-4.2)
3	23 (14-34)	20 (11-29)	16 (9.5-24)	14 (7.8-20)	11 (6.4-17)	9.2 (5.2-14)	7.7 (4.4-11)	6.5 (3.7-9.6)	5.6 (3.2-8.1)	4.7 (2.7-6.8)	4.1 (2.4-5.8)
4	32 (18-42)	28 (15-36)	23 (13-31)	20 (11-26)	16 (8.7-22)	13 (7.2-18)	11 (6.0-15)	9.5 (5.1-13)	8.1 (4.4-11)	6.8 (3.7-9.2)	5.8 (3.2-7.8)
5	42 (24-48)	37 (20-43)	32 (17-38)	27 (14-32)	23 (12-28)	19 (9.7-23)	16 (8.2-20)	14 (7.0-17)	12 (6.0-14)	9.8 (5.2-12)	8.3 (4.5-11)
6	52	47	42	36	31	27	23	19	16	14	12

**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	5.3	4.5	3.8	3.2	2.7	2.2	2.0	1.7	1.5	1.4	1.2
1	8.0 (5.5-14)	6.8 (4.6-12)	5.7 (3.9-9.8)	4.8 (3.3-8.2)	4.0 (2.7-6.9)	3.4 (2.3-5.7)	2.9 (2.0-4.9)	2.6 (1.7-4.2)	2.3 (1.5-3.6)	2.0 (1.3-3.1)	1.7 (1.2-2.7)
2	12 (7.5-19)	10 (6.3-16)	8.6 (5.3-14)	7.2 (4.4-12)	6.1 (3.7-9.6)	5.1 (3.1-8.1)	4.4 (2.7-6.9)	3.8 (2.3-6.0)	3.3 (2.1-5.2)	2.9 (1.8-4.5)	2.5 (1.6-3.9)
3	17 (10-25)	15 (8.6-22)	13 (7.2-19)	11 (6.1-16)	9.0 (5.1-13)	7.6 (4.3-11)	6.5 (3.7-9.7)	5.7 (3.2-8.4)	4.9 (2.8-7.3)	4.3 (2.4-6.3)	3.7 (2.1-5.4)
4	24 (14-32)	21 (12-28)	18 (9.8-24)	15 (8.3-21)	13 (7.0-18)	11 (5.9-15)	9.6 (5.1-13)	8.4 (4.5-11)	7.3 (3.9-9.9)	6.3 (3.4-8.6)	5.5 (3.0-7.4)
5	33 (18-39)	29 (16-34)	25 (13-30)	22 (11-26)	19 (9.5-23)	16 (8.1-20)	14 (7.0-17)	12 (6.1-15)	11 (5.4-13)	9.2 (4.7-11)	8.0 (4.2-9.9)
6	42	38	34	30	26	23	20	17	15	13	12