Thailand - The probabilities of a hip fracture in men

The following tables give the 10-year probability (%) of a hip 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/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	11	5.8	3.1	1.6	0.9	0.5	0.2	0.1	0.1	0.0	0.0
1	17 (11-21)	9.1 (6.1-12)	4.9 (3.3-6.5)	2.6 (1.7-3.5)	1.4 (0.9-1.8)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	25 (16-35)	14 (8.6-21)	7.7 (4.6-11)	4.1 (2.4-6.2)	2.2 (1.3-3.3)	1.2 (0.7-1.8)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	35 (23-49)	21 (13-31)	12 (6.9-18)	6.4 (3.7-10)	3.4 (2.0-5.4)	1.8 (1.0-2.9)	1.0 (0.5-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	48 (34-62)	30 (20-43)	18 (11-26)	9.7 (6.1-15)	5.3 (3.3-8.2)	2.8 (1.7-4.4)	1.5 (0.9-2.3)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
5	61 (51-73)	42 (33-53)	25 (19-34)	15 (11-20)	8.0 (5.8-11)	4.3 (3.1-6.2)	2.3 (1.6-3.3)	1.2 (0.9-1.8)	0.6 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.1-0.3)
6	74	55	36	21	12	6.5	3.5	1.8	1.0	0.5	0.3

Ten year probability of hip 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	12	6.6	3.6	2.0	1.1	0.6	0.3	0.2	0.1	0.1	0.0
1	17 (12-21)	10 (6.9-12)	5.6 (3.8-7.1)	3.1 (2.1-3.9)	1.7 (1.2-2.2)	0.9 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	25 (17-34)	15 (9.6-21)	8.6 (5.4-12)	4.8 (3.0-6.9)	2.7 (1.6-3.9)	1.5 (0.9-2.1)	0.8 (0.5-1.2)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	35 (24-47)	22 (14-31)	13 (8.1-19)	7.3 (4.5-11)	4.1 (2.5-6.2)	2.3 (1.4-3.4)	1.2 (0.8-1.9)	0.7 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	47 (36-60)	31 (22-42)	19 (13-27)	11 (7.3-16)	6.2 (4.1-9.2)	3.4 (2.3-5.2)	1.9 (1.2-2.9)	1.0 (0.7-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	59 (51-70)	42 (34-53)	27 (21-35)	16 (12-22)	9.2 (7.1-13)	5.2 (4.0-7.3)	2.9 (2.2-4.1)	1.6 (1.2-2.3)	0.9 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	71	54	37	23	13	7.7	4.3	2.4	1.3	0.8	0.4

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	11	6.6	3.9	2.3	1.3	0.8	0.5	0.3	0.2	0.1	0.1
1	16 (12-19)	9.8 (6.9-12)	5.9 (4.1-7.0)	3.5 (2.4-4.1)	2.0 (1.4-2.4)	1.2 (0.8-1.4)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	23 (16-29)	14 (9.7-19)	8.7 (5.8-12)	5.2 (3.4-7.0)	3.1 (2.0-4.2)	1.8 (1.2-2.5)	1.1 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	31 (23-40)	20 (14-27)	13 (8.7-17)	7.7 (5.2-11)	4.6 (3.0-6.4)	2.7 (1.8-3.8)	1.6 (1.0-2.3)	0.9 (0.6-1.3)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	41 (33-51)	28 (21-37)	18 (13-25)	11 (8.0-16)	6.7 (4.8-9.6)	4.0 (2.8-5.8)	2.4 (1.7-3.4)	1.4 (1.0-2.0)	0.8 (0.6-1.2)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
5	51 (45-60)	37 (32-46)	25 (21-32)	16 (13-21)	9.7 (8.0-13)	5.9 (4.8-8.1)	3.5 (2.8-4.8)	2.1 (1.7-2.9)	1.2 (1.0-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.6)
6	62	48	34	22	14	8.5	5.1	3.0	1.8	1.1	0.7

Ten year probability of hip 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	9.9	6.3	4.0	2.5	1.5	1.0	0.6	0.4	0.2	0.2	0.1
1	14 (10-16)	9.0 (6.6-10)	5.8 (4.2-6.5)	3.6 (2.6-4.1)	2.3 (1.6-2.6)	1.4 (1.0-1.6)	0.9 (0.6-1.0)	0.6 (0.4-0.6)	0.4 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	19 (14-24)	13 (9.2-16)	8.3 (5.9-10)	5.3 (3.7-6.7)	3.3 (2.3-4.3)	2.1 (1.4-2.7)	1.3 (0.9-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	26 (20-33)	18 (13-23)	12 (8.6-15)	7.5 (5.5-10)	4.8 (3.5-6.4)	3.0 (2.2-4.1)	1.9 (1.4-2.5)	1.2 (0.9-1.6)	0.8 (0.5-1.0)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
4	34 (28-42)	24 (19-30)	16 (13-21)	11 (8.2-14)	6.8 (5.2-9.2)	4.3 (3.3-5.9)	2.7 (2.1-3.8)	1.7 (1.3-2.4)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.5 (0.4-0.7)
5	42 (38-50)	31 (28-38)	22 (19-28)	15 (13-19)	9.6 (8.3-13)	6.2 (5.3-8.3)	3.9 (3.4-5.3)	2.5 (2.1-3.4)	1.6 (1.4-2.2)	1.0 (0.9-1.4)	0.7 (0.6-0.9)
6	51	40	29	20	13	8.6	5.5	3.6	2.3	1.5	1.0

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	8.6	5.9	3.9	2.6	1.7	1.2	0.8	0.5	0.4	0.2	0.2
1	13 (12-17)	9.1 (8.0-12)	6.2 (5.5-8.1)	4.2 (3.7-5.5)	2.8 (2.5-3.7)	1.8 (1.6-2.5)	1.2 (1.1-1.6)	0.8 (0.7-1.1)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
2	19 (16-24)	14 (11-17)	9.5 (7.6-12)	6.5 (5.2-8.4)	4.4 (3.5-5.7)	2.9 (2.3-3.8)	2.0 (1.6-2.6)	1.3 (1.1-1.8)	0.9 (0.7-1.2)	0.6 (0.5-0.8)	0.4 (0.3-0.6)
3	27 (22-33)	20 (16-25)	14 (11-18)	9.9 (7.6-12)	6.8 (5.2-8.6)	4.6 (3.5-5.9)	3.1 (2.4-3.9)	2.1 (1.6-2.7)	1.4 (1.1-1.9)	1.0 (0.8-1.3)	0.7 (0.5-0.9)
4	37 (29-43)	28 (22-33)	21 (16-25)	15 (11-18)	10 (7.7-13)	7.1 (5.3-8.7)	4.8 (3.6-5.9)	3.3 (2.5-4.1)	2.3 (1.7-2.8)	1.6 (1.2-1.9)	1.1 (0.8-1.3)
5	47 (39-51)	37 (30-42)	29 (23-32)	21 (16-24)	15 (12-17)	11 (8.0-12)	7.4 (5.5-8.3)	5.1 (3.8-5.7)	3.6 (2.6-4.0)	2.5 (1.8-2.7)	1.7 (1.3-1.9)
6	57	48	38	30	22	16	11	7.8	5.5	3.8	2.7

Ten year probability of hip 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	7.8	5.6	4.0	2.8	2.0	1.4	1.0	0.7	0.5	0.4	0.3
1	14 (10-27)	10 (7.3-21)	7.3 (5.3-16)	5.3 (3.8-11)	3.8 (2.7-8.3)	2.7 (1.9-5.9)	1.9 (1.3-4.2)	1.4 (1.0-3.1)	1.0 (0.7-2.2)	0.7 (0.5-1.6)	0.5 (0.4-1.2)
2	21 (14-36)	16 (10-29)	12 (7.3-22)	9.0 (5.3-17)	6.6 (3.8-12)	4.7 (2.7-8.8)	3.4 (1.9-6.3)	2.5 (1.4-4.6)	1.8 (1.0-3.4)	1.3 (0.7-2.5)	0.9 (0.5-1.8)
3	31 (18-44)	25 (14-36)	19 (10-29)	14 (7.4-22)	11 (5.3-17)	7.9 (3.8-13)	5.7 (2.7-9.2)	4.2 (2.0-6.9)	3.1 (1.4-5.1)	2.3 (1.0-3.7)	1.6 (0.8-2.7)
4	42 (24-52)	34 (18-44)	28 (14-36)	22 (10-29)	17 (7.5-23)	13 (5.4-17)	9.2 (3.9-13)	6.9 (2.9-9.6)	5.1 (2.1-7.1)	3.8 (1.6-5.3)	2.8 (1.1-3.9)
5	53 (32-60)	46 (25-52)	38 (20-44)	31 (15-37)	25 (11-29)	19 (8.1-23)	14 (5.8-17)	11 (4.3-13)	8.2 (3.2-9.8)	6.1 (2.3-7.3)	4.5 (1.7-5.4)
6	64	57	50	42	34	27	21	16	13	9.5	7.1

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	6.7	5.0	3.7	2.8	2.1	1.5	1.1	0.9	0.7	0.5	0.4
1	12 (8.6-24)	8.9 (6.5-19)	6.8 (4.9-15)	5.1 (3.7-11)	3.9 (2.7-8.5)	2.9 (2.0-6.4)	2.2 (1.5-4.8)	1.7 (1.1-3.7)	1.3 (0.9-2.8)	1.0 (0.7-2.2)	0.7 (0.5-1.7)
2	18 (11-32)	15 (8.4-26)	11 (6.4-21)	8.7 (4.8-16)	6.6 (3.6-13)	5.0 (2.7-9.5)	3.8 (2.0-7.2)	2.9 (1.6-5.6)	2.2 (1.2-4.3)	1.7 (0.9-3.3)	1.3 (0.7-2.5)
3	27 (15-41)	22 (12-34)	18 (8.9-28)	14 (6.7-22)	11 (5.1-18)	8.2 (3.8-14)	6.3 (2.9-10)	4.9 (2.2-8.2)	3.8 (1.7-6.4)	2.9 (1.3-4.9)	2.2 (1.0-3.8)
4	37 (20-49)	31 (16-42)	26 (12-35)	21 (9.5-29)	16 (7.2-23)	13 (5.5-18)	10 (4.1-14)	7.8 (3.2-11)	6.1 (2.5-8.8)	4.7 (1.9-6.9)	3.7 (1.5-5.3)
5	49 (28-55)	42 (22-48)	36 (18-41)	30 (14-35)	24 (11-28)	19 (8.1-23)	15 (6.2-18)	12 (4.8-14)	9.6 (3.7-11)	7.5 (2.9-8.9)	5.8 (2.2-7.0)
6	59	53	47	40	34	28	22	18	14	11	9.0

Ten year probability of hip 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	4.5	3.6	2.8	2.2	1.7	1.3	1.0	0.8	0.7	0.5	0.4
1	8.1 (5.9-17)	6.5 (4.6-14)	5.1 (3.6-11)	4.0 (2.9-8.9)	3.2 (2.2-7.0)	2.5 (1.7-5.5)	2.0 (1.4-4.4)	1.6 (1.1-3.6)	1.3 (0.9-2.9)	1.0 (0.7-2.3)	0.8 (0.6-1.8)
2	13 (7.6-24)	11 (6.0-20)	8.6 (4.8-16)	6.9 (3.7-13)	5.4 (2.9-10)	4.3 (2.3-8.2)	3.4 (1.8-6.6)	2.8 (1.5-5.3)	2.2 (1.2-4.3)	1.8 (0.9-3.5)	1.4 (0.8-2.8)
3	20 (11-32)	17 (8.4-27)	14 (6.6-22)	11 (5.2-18)	8.9 (4.1-15)	7.1 (3.2-12)	5.7 (2.6-9.5)	4.6 (2.1-7.7)	3.7 (1.7-6.3)	3.0 (1.3-5.1)	2.4 (1.1-4.1)
4	29 (15-39)	25 (12-34)	21 (9.4-29)	17 (7.5-24)	14 (5.9-20)	11 (4.7-16)	9.0 (3.7-13)	7.4 (3.0-11)	6.0 (2.4-8.7)	4.9 (2.0-7.1)	4.0 (1.6-5.8)
5	40 (21-46)	35 (17-40)	30 (14-34)	25 (11-29)	21 (8.7-24)	17 (6.9-20)	14 (5.6-16)	11 (4.5-14)	9.4 (3.7-11)	7.7 (3.0-9.2)	6.3 (2.4-7.5)
6	51	46	40	35	29	25	20	17	14	12	9.7

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	2.9	2.4	1.9	1.6	1.3	1.0	0.9	0.7	0.6	0.5	0.4
1	5.3 (3.8-12)	4.4 (3.1-9.6)	3.6 (2.5-8.0)	2.9 (2.1-6.6)	2.4 (1.7-5.4)	2.0 (1.4-4.4)	1.6 (1.1-3.7)	1.4 (1.0-3.1)	1.2 (0.8-2.6)	1.0 (0.7-2.2)	0.8 (0.6-1.8)
2	9.0 (5.0-17)	7.5 (4.1-14)	6.2 (3.4-12)	5.1 (2.7-9.7)	4.2 (2.2-8.0)	3.4 (1.8-6.6)	2.9 (1.5-5.5)	2.4 (1.3-4.7)	2.0 (1.1-3.9)	1.7 (0.9-3.3)	1.4 (0.8-2.8)
3	14 (6.9-23)	12 (5.7-19)	10 (4.7-16)	8.4 (3.9-14)	6.9 (3.2-11)	5.7 (2.6-9.6)	4.8 (2.2-8.1)	4.1 (1.8-6.9)	3.4 (1.5-5.8)	2.9 (1.3-4.9)	2.4 (1.1-4.1)
4	21 (9.8-29)	18 (8.1-25)	15 (6.7-22)	13 (5.6-19)	11 (4.6-16)	9.1 (3.8-13)	7.7 (3.2-11)	6.6 (2.7-9.5)	5.6 (2.3-8.1)	4.7 (1.9-6.9)	4.0 (1.6-5.8)
5	30 (14-35)	26 (12-31)	23 (9.9-27)	20 (8.2-23)	17 (6.8-20)	14 (5.6-17)	12 (4.7-14)	10 (4.0-12)	8.8 (3.4-10)	7.5 (2.9-8.9)	6.4 (2.4-7.6)
6	41	36	32	28	24	21	18	16	13	11	9.8