

Singapore (Chinese) - 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 Singapore (Chinese). 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	9.8	5.3	2.8	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0
1	15 (10-20)	8.4 (5.5-11)	4.5 (2.9-5.9)	2.4 (1.5-3.1)	1.2 (0.8-1.6)	0.7 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	23 (14-33)	13 (7.8-19)	7.1 (4.1-11)	3.8 (2.2-5.7)	2.0 (1.2-3.0)	1.0 (0.6-1.6)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	34 (21-49)	20 (12-30)	11 (6.3-17)	5.9 (3.3-9.5)	3.1 (1.8-5.1)	1.7 (0.9-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	47 (33-64)	29 (19-42)	17 (10-25)	9.1 (5.6-14)	4.9 (3.0-7.7)	2.6 (1.6-4.1)	1.4 (0.8-2.2)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	62 (51-75)	41 (32-54)	24 (18-34)	14 (10-20)	7.5 (5.5-11)	4.0 (2.9-5.8)	2.1 (1.5-3.1)	1.1 (0.8-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
6	76	55	35	20	11	6.1	3.2	1.7	0.9	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 Singapore (Chinese).

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	7.2	4.0	2.2	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	19 (13-24)	11 (7.5-14)	6.2 (4.2-7.7)	3.4 (2.3-4.3)	1.9 (1.3-2.3)	1.0 (0.7-1.3)	0.6 (0.4-0.7)	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	28 (18-38)	17 (11-23)	9.6 (5.9-14)	5.3 (3.2-7.7)	2.9 (1.8-4.3)	1.6 (1.0-2.3)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	40 (27-54)	25 (16-36)	14 (8.8-22)	8.2 (4.9-13)	4.5 (2.7-7.1)	2.5 (1.5-3.9)	1.4 (0.8-2.2)	0.7 (0.4-1.2)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	53 (40-68)	35 (25-48)	21 (14-31)	12 (8.2-18)	6.9 (4.5-11)	3.8 (2.5-5.9)	2.1 (1.4-3.3)	1.2 (0.7-1.8)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	67 (59-78)	47 (40-60)	30 (25-40)	18 (14-25)	10 (8.1-15)	5.8 (4.5-8.3)	3.2 (2.5-4.6)	1.8 (1.4-2.5)	1.0 (0.8-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
6	79	61	42	26	15	8.7	4.9	2.7	1.5	0.9	0.5

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	8.9	5.3	3.1	1.8	1.0	0.6	0.4	0.2	0.1	0.1
1	22 (16-25)	13 (9.4-16)	8.0 (5.5-9.4)	4.7 (3.2-5.5)	2.8 (1.9-3.2)	1.6 (1.1-1.9)	0.9 (0.6-1.1)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	31 (21-40)	20 (13-26)	12 (7.8-16)	7.2 (4.6-9.8)	4.2 (2.7-5.8)	2.5 (1.6-3.4)	1.4 (0.9-2.0)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	42 (30-54)	28 (19-38)	18 (12-25)	11 (6.9-15)	6.4 (4.1-9.3)	3.7 (2.4-5.6)	2.2 (1.4-3.3)	1.3 (0.8-1.9)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	54 (44-67)	38 (29-51)	25 (18-35)	16 (11-22)	9.5 (6.7-14)	5.6 (3.9-8.3)	3.3 (2.3-4.9)	1.9 (1.3-2.9)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.6)
5	67 (61-76)	50 (45-61)	35 (30-45)	22 (19-30)	14 (12-19)	8.3 (6.9-12)	4.9 (4.1-6.9)	2.9 (2.4-4.1)	1.7 (1.4-2.5)	1.0 (0.9-1.5)	0.6 (0.5-0.9)
6	77	63	46	31	20	12	7.3	4.3	2.6	1.6	0.9

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

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	17	11	6.7	4.2	2.6	1.6	1.0	0.6	0.4	0.2	0.2
1	24 (17-27)	15 (11-18)	9.9 (7.0-11)	6.2 (4.4-7.2)	3.9 (2.7-4.5)	2.4 (1.7-2.8)	1.5 (1.0-1.7)	0.9 (0.6-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.4)	0.2 (0.2-0.3)
2	32 (24-40)	22 (15-28)	14 (9.8-18)	9.2 (6.2-12)	5.8 (3.8-7.5)	3.6 (2.4-4.7)	2.2 (1.5-2.9)	1.4 (0.9-1.8)	0.9 (0.6-1.2)	0.6 (0.4-0.7)	0.4 (0.2-0.5)
3	43 (33-52)	30 (22-38)	20 (15-27)	13 (9.3-18)	8.5 (5.8-12)	5.3 (3.6-7.4)	3.3 (2.2-4.6)	2.1 (1.4-2.9)	1.3 (0.9-1.9)	0.8 (0.6-1.2)	0.5 (0.4-0.8)
4	54 (46-64)	40 (33-50)	28 (22-37)	19 (14-26)	12 (9.2-17)	7.8 (5.8-11)	4.9 (3.6-7.0)	3.1 (2.3-4.4)	2.0 (1.4-2.8)	1.3 (0.9-1.8)	0.8 (0.6-1.2)
5	64 (60-72)	51 (47-60)	37 (34-47)	26 (23-34)	17 (15-23)	11 (9.5-15)	7.1 (6.0-9.7)	4.5 (3.8-6.2)	2.9 (2.4-4.0)	1.8 (1.5-2.6)	1.2 (1.0-1.7)
6	73	62	48	35	24	16	10	6.5	4.2	2.7	1.7

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	17	11	7.5	5.0	3.3	2.1	1.4	0.9	0.6	0.4	0.3
1	25 (22-31)	18 (15-22)	12 (10-15)	8.1 (7.0-10)	5.3 (4.6-6.9)	3.5 (3.0-4.5)	2.3 (2.0-3.0)	1.5 (1.3-2.0)	1.0 (0.9-1.3)	0.7 (0.6-0.9)	0.5 (0.4-0.6)
2	36 (31-45)	27 (22-33)	19 (15-24)	13 (10-17)	8.6 (7.0-11)	5.7 (4.6-7.7)	3.8 (3.0-5.1)	2.5 (2.0-3.4)	1.7 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.1)
3	49 (42-57)	38 (31-45)	28 (23-34)	20 (16-24)	14 (11-17)	9.2 (7.0-12)	6.1 (4.6-7.7)	4.1 (3.1-5.2)	2.8 (2.1-3.6)	1.9 (1.4-2.4)	1.3 (1.0-1.7)
4	62 (55-68)	51 (43-57)	39 (32-45)	29 (23-34)	21 (16-24)	14 (11-17)	9.7 (7.2-12)	6.6 (4.9-8.0)	4.5 (3.3-5.5)	3.1 (2.2-3.8)	2.1 (1.5-2.6)
5	72 (65-75)	63 (55-66)	52 (44-55)	41 (34-44)	31 (24-33)	22 (17-24)	15 (12-17)	10 (8.1-12)	7.3 (5.6-8.2)	5.0 (3.8-5.7)	3.4 (2.6-3.9)
6	79	73	64	54	43	32	23	16	11	7.9	5.5

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

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	15	11	7.7	5.4	3.8	2.6	1.8	1.3	0.9	0.7	0.5
1	25 (20-46)	19 (15-37)	14 (11-28)	10 (7.5-21)	7.2 (5.3-15)	5.1 (3.7-11)	3.5 (2.6-7.6)	2.5 (1.8-5.5)	1.8 (1.3-4.0)	1.3 (0.9-2.8)	0.9 (0.7-2.0)
2	38 (27-58)	30 (20-49)	23 (15-39)	17 (11-31)	13 (7.4-23)	9.1 (5.2-17)	6.4 (3.6-12)	4.7 (2.6-8.9)	3.4 (1.9-6.5)	2.4 (1.3-4.7)	1.7 (0.9-3.4)
3	52 (35-67)	43 (27-59)	35 (21-50)	27 (15-41)	21 (11-32)	15 (7.7-24)	11 (5.4-18)	8.1 (3.9-13)	5.9 (2.8-9.7)	4.3 (2.0-7.1)	3.1 (1.4-5.1)
4	64 (46-74)	56 (37-68)	48 (29-60)	40 (22-50)	31 (16-41)	24 (11-32)	18 (8.1-24)	13 (5.9-18)	10 (4.3-14)	7.3 (3.1-10)	5.3 (2.2-7.5)
5	74 (56-79)	68 (47-74)	61 (39-68)	53 (30-60)	44 (23-50)	36 (17-41)	28 (13-32)	21 (9.3-25)	16 (6.8-19)	12 (4.9-14)	8.9 (3.6-10)
6	81	78	72	66	58	49	40	32	25	19	14

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	13	9.9	7.4	5.5	4.1	3.0	2.2	1.7	1.3	1.0	0.7
1	22 (17-41)	17 (13-33)	13 (9.6-27)	10 (7.2-21)	7.5 (5.3-16)	5.6 (3.9-12)	4.2 (2.9-9.2)	3.2 (2.2-7.1)	2.4 (1.7-5.4)	1.8 (1.3-4.1)	1.4 (1.0-3.1)
2	32 (22-51)	26 (17-44)	21 (13-36)	17 (9.8-29)	13 (7.4-23)	9.7 (5.5-18)	7.4 (4.1-14)	5.7 (3.1-11)	4.4 (2.4-8.4)	3.3 (1.8-6.5)	2.5 (1.3-4.9)
3	44 (28-60)	37 (22-53)	31 (18-46)	25 (13-39)	20 (10-32)	16 (7.7-25)	12 (5.8-20)	9.5 (4.4-16)	7.4 (3.4-12)	5.7 (2.6-9.6)	4.4 (2.0-7.4)
4	56 (36-68)	49 (30-61)	43 (24-55)	36 (19-47)	30 (15-40)	24 (11-33)	19 (8.6-26)	15 (6.7-21)	12 (5.1-17)	9.3 (3.9-13)	7.2 (3.0-10)
5	67 (46-72)	61 (39-67)	55 (32-61)	48 (26-54)	41 (21-47)	34 (16-39)	28 (13-33)	23 (9.9-27)	18 (7.7-22)	15 (6.0-18)	12 (4.6-14)
6	75	71	66	60	53	46	39	33	27	22	18

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

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	10	8.2	6.4	5.0	3.9	3.0	2.4	1.9	1.5	1.2	1.0
1	17 (13-34)	14 (11-29)	11 (8.3-24)	9.0 (6.5-19)	7.2 (5.1-15)	5.6 (4.0-12)	4.5 (3.1-9.8)	3.6 (2.5-7.9)	2.9 (2.0-6.4)	2.3 (1.6-5.1)	1.8 (1.3-4.1)
2	27 (17-44)	22 (14-38)	18 (11-32)	15 (8.7-27)	12 (6.9-22)	9.6 (5.4-18)	7.7 (4.3-14)	6.3 (3.5-12)	5.1 (2.8-9.6)	4.1 (2.2-7.8)	3.3 (1.8-6.3)
3	37 (23-53)	32 (18-47)	27 (15-41)	23 (12-35)	19 (9.5-30)	15 (7.5-25)	13 (6.0-20)	10 (4.8-17)	8.4 (3.9-14)	6.8 (3.1-11)	5.5 (2.5-9.3)
4	49 (30-61)	44 (25-55)	38 (20-50)	33 (17-44)	28 (13-38)	23 (11-32)	19 (8.7-27)	16 (7.1-23)	13 (5.8-19)	11 (4.7-16)	9.0 (3.8-13)
5	60 (39-66)	55 (33-62)	50 (28-56)	44 (23-50)	39 (19-44)	33 (16-38)	28 (13-33)	24 (10-28)	20 (8.6-24)	17 (7.0-20)	14 (5.6-17)
6	70	66	61	56	50	44	39	34	29	25	21

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	6.8	5.6	4.6	3.7	3.0	2.5	2.0	1.7	1.4	1.2	1.0
1	12 (8.8-25)	10 (7.3-21)	8.3 (5.9-18)	6.8 (4.9-15)	5.6 (4.0-12)	4.6 (3.2-10)	3.8 (2.7-8.5)	3.2 (2.2-7.1)	2.7 (1.9-6.0)	2.3 (1.6-5.0)	1.9 (1.3-4.2)
2	19 (12-34)	16 (9.6-29)	14 (8.0-25)	12 (6.5-21)	9.6 (5.4-18)	7.9 (4.4-15)	6.7 (3.7-12)	5.6 (3.1-11)	4.8 (2.6-9.0)	4.0 (2.2-7.6)	3.4 (1.8-6.4)
3	29 (16-43)	25 (13-38)	21 (11-33)	18 (9.1-29)	15 (7.5-25)	13 (6.1-21)	11 (5.1-18)	9.3 (4.3-15)	7.9 (3.6-13)	6.7 (3.1-11)	5.7 (2.6-9.5)
4	40 (22-51)	35 (18-46)	31 (16-41)	27 (13-37)	23 (11-32)	20 (9.0-27)	17 (7.6-24)	15 (6.4-21)	13 (5.4-18)	11 (4.6-15)	9.2 (3.8-13)
5	51 (30-58)	47 (26-53)	42 (22-48)	38 (19-43)	33 (16-38)	29 (13-34)	25 (11-30)	22 (9.5-26)	19 (8.1-23)	17 (6.8-20)	14 (5.8-17)
6	62	58	54	50	45	40	36	32	28	25	21