

Singapore (Chinese) - The probabilities of a hip fracture in women

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	7.1	3.7	1.9	1.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	11 (7.4-14)	5.9 (3.8-7.7)	3.0 (2.0-4.0)	1.6 (1.0-2.0)	0.8 (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)	0.0 (0.0-0.0)
2	17 (10-26)	9.3 (5.4-14)	4.8 (2.8-7.4)	2.5 (1.4-3.8)	1.3 (0.7-2.0)	0.7 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	26 (15-40)	14 (8.1-23)	7.6 (4.2-12)	4.0 (2.2-6.5)	2.0 (1.1-3.4)	1.0 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
4	38 (25-54)	22 (14-33)	12 (7.3-18)	6.2 (3.8-9.8)	3.2 (1.9-5.1)	1.6 (1.0-2.6)	0.8 (0.5-1.4)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	52 (42-66)	32 (24-43)	18 (13-25)	9.5 (7.0-14)	5.0 (3.6-7.2)	2.6 (1.9-3.7)	1.3 (1.0-1.9)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
6	68	45	26	14	7.6	3.9	2.0	1.1	0.6	0.3	0.2

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	9.3	5.1	2.8	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0
1	14 (9.7-17)	8.0 (5.3-9.8)	4.4 (2.9-5.4)	2.4 (1.6-2.9)	1.3 (0.8-1.6)	0.7 (0.5-0.8)	0.4 (0.2-0.5)	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	22 (14-30)	12 (7.5-18)	6.8 (4.1-9.9)	3.7 (2.2-5.4)	2.0 (1.2-2.9)	1.1 (0.6-1.6)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	32 (20-46)	19 (11-28)	11 (6.2-16)	5.8 (3.4-9.2)	3.1 (1.8-5.0)	1.7 (1.0-2.7)	0.9 (0.5-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
4	44 (32-61)	27 (19-40)	16 (11-24)	8.9 (5.8-14)	4.9 (3.1-7.6)	2.6 (1.7-4.1)	1.4 (0.9-2.2)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	59 (51-73)	39 (32-51)	23 (19-32)	13 (11-19)	7.4 (5.8-11)	4.0 (3.2-5.8)	2.2 (1.7-3.2)	1.2 (1.0-1.8)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
6	75	53	34	20	11	6.1	3.3	1.9	1.0	0.6	0.3

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	13	7.3	4.1	2.3	1.3	0.7	0.4	0.2	0.1	0.1	0.0
1	19 (13-22)	11 (7.6-13)	6.4 (4.3-7.5)	3.6 (2.4-4.3)	2.0 (1.4-2.4)	1.1 (0.8-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	28 (18-37)	17 (11-23)	9.7 (6.1-13)	5.5 (3.4-7.6)	3.1 (1.9-4.3)	1.8 (1.1-2.4)	1.0 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	39 (27-54)	25 (16-35)	15 (9.1-22)	8.4 (5.2-13)	4.8 (2.9-7.3)	2.7 (1.6-4.2)	1.5 (0.9-2.4)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	53 (41-69)	35 (26-48)	21 (15-31)	13 (8.8-19)	7.3 (5.0-11)	4.1 (2.8-6.3)	2.4 (1.6-3.6)	1.4 (0.9-2.1)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	67 (61-80)	48 (41-61)	31 (26-41)	19 (15-26)	11 (8.9-15)	6.2 (5.1-8.8)	3.6 (2.9-5.1)	2.1 (1.7-3.0)	1.2 (1.0-1.7)	0.7 (0.6-1.0)	0.4 (0.3-0.6)
6	81	62	43	27	16	9.2	5.3	3.1	1.8	1.1	0.6

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	10	5.9	3.5	2.0	1.2	0.7	0.4	0.3	0.2	0.1
1	24 (17-28)	15 (10-18)	8.9 (6.2-11)	5.3 (3.6-6.3)	3.1 (2.1-3.7)	1.8 (1.2-2.2)	1.1 (0.7-1.3)	0.7 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	34 (24-43)	22 (15-28)	13 (8.7-17)	8.0 (5.1-11)	4.7 (3.0-6.3)	2.7 (1.8-3.7)	1.7 (1.1-2.2)	1.0 (0.6-1.3)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	46 (34-60)	31 (21-42)	19 (13-27)	12 (7.7-17)	7.1 (4.6-10)	4.2 (2.7-6.1)	2.5 (1.6-3.7)	1.5 (1.0-2.2)	0.9 (0.6-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
4	60 (50-74)	42 (33-56)	28 (21-38)	17 (13-25)	10 (7.5-15)	6.2 (4.4-9.2)	3.8 (2.7-5.6)	2.3 (1.6-3.4)	1.4 (1.0-2.1)	0.8 (0.6-1.2)	0.5 (0.4-0.8)
5	73 (68-83)	56 (49-68)	38 (33-49)	25 (21-33)	15 (13-21)	9.2 (7.5-13)	5.6 (4.5-7.9)	3.4 (2.8-4.8)	2.1 (1.7-2.9)	1.3 (1.0-1.8)	0.8 (0.6-1.1)
6	84	69	51	34	22	13	8.3	5.1	3.1	1.9	1.1

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	19	12	7.6	4.6	2.8	1.7	1.1	0.7	0.4	0.3	0.2
1	30 (26-37)	20 (17-24)	12 (11-16)	7.7 (6.5-9.7)	4.7 (4.0-6.0)	2.9 (2.5-3.7)	1.8 (1.6-2.3)	1.2 (1.0-1.5)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.2-0.4)
2	45 (37-55)	31 (25-39)	20 (16-26)	13 (9.8-17)	7.9 (6.0-11)	4.9 (3.7-6.7)	3.1 (2.4-4.3)	2.0 (1.5-2.7)	1.2 (0.9-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)
3	61 (51-71)	45 (35-55)	31 (23-40)	20 (15-27)	13 (9.2-17)	8.1 (5.7-11)	5.2 (3.6-7.1)	3.3 (2.3-4.5)	2.1 (1.4-2.9)	1.3 (0.9-1.8)	0.8 (0.6-1.1)
4	77 (68-82)	62 (51-69)	45 (36-53)	31 (24-38)	20 (15-25)	13 (9.5-16)	8.5 (6.1-11)	5.4 (3.9-6.9)	3.4 (2.4-4.4)	2.2 (1.5-2.8)	1.4 (1.0-1.8)
5	87 (82-89)	77 (70-81)	62 (54-67)	46 (38-51)	31 (25-36)	21 (17-24)	14 (11-16)	8.9 (7.0-10)	5.7 (4.4-6.6)	3.6 (2.8-4.2)	2.3 (1.8-2.7)
6	91	87	77	62	46	32	22	14	9.3	5.9	3.8

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	21	14	9.0	5.8	3.7	2.4	1.6	1.1	0.7	0.5	0.3
1	36 (28-62)	25 (19-47)	17 (13-33)	11 (8.2-23)	7.3 (5.2-15)	4.9 (3.4-10)	3.2 (2.3-6.8)	2.1 (1.5-4.5)	1.4 (1.0-3.0)	0.9 (0.6-2.0)	0.6 (0.4-1.3)
2	53 (38-77)	40 (26-65)	29 (17-50)	20 (11-37)	13 (7.4-25)	9.1 (4.9-18)	6.1 (3.2-12)	4.1 (2.1-8.1)	2.7 (1.4-5.4)	1.8 (0.9-3.6)	1.2 (0.6-2.4)
3	69 (50-85)	58 (37-77)	45 (25-65)	33 (17-51)	23 (11-37)	16 (7.4-27)	11 (4.9-19)	7.4 (3.2-13)	4.9 (2.1-8.7)	3.3 (1.4-5.8)	2.2 (0.9-3.9)
4	82 (65-89)	73 (51-84)	62 (37-76)	49 (26-64)	37 (18-50)	27 (12-37)	19 (8.0-27)	13 (5.3-19)	8.7 (3.5-13)	5.8 (2.3-8.8)	3.9 (1.5-5.9)
5	88 (78-91)	84 (68-89)	77 (54-83)	67 (40-74)	54 (29-61)	41 (20-48)	30 (14-36)	21 (9.4-26)	15 (6.3-18)	10 (4.2-12)	6.8 (2.8-8.3)
6	91	90	87	82	72	59	46	34	24	17	12

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	22	15	10	7.1	4.8	3.3	2.3	1.6	1.1	0.8	0.5
1	36 (28-61)	26 (19-49)	19 (13-37)	13 (9.2-27)	9.2 (6.3-19)	6.5 (4.4-14)	4.5 (3.0-9.7)	3.2 (2.1-6.8)	2.2 (1.5-4.7)	1.5 (1.0-3.3)	1.0 (0.7-2.3)
2	51 (36-74)	41 (26-64)	31 (19-53)	23 (13-41)	16 (8.8-30)	12 (6.2-23)	8.3 (4.3-16)	5.9 (3.0-12)	4.1 (2.1-8.2)	2.8 (1.4-5.8)	2.0 (1.0-4.0)
3	66 (48-82)	56 (37-75)	46 (27-65)	35 (19-53)	27 (13-42)	20 (9.2-32)	14 (6.5-24)	10 (4.5-18)	7.3 (3.1-13)	5.1 (2.2-9.0)	3.6 (1.5-6.4)
4	77 (61-86)	70 (49-81)	61 (38-74)	51 (28-65)	40 (20-54)	31 (14-44)	23 (10-34)	17 (7.2-25)	12 (5.0-19)	8.8 (3.5-13)	6.2 (2.4-9.5)
5	84 (72-88)	80 (63-85)	74 (52-80)	66 (41-73)	56 (31-64)	46 (23-54)	36 (17-43)	27 (12-34)	20 (8.6-25)	15 (6.0-18)	10 (4.2-13)
6	88	87	83	78	71	62	52	41	31	23	17

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	20	14	10	7.4	5.4	3.9	2.9	2.1	1.5	1.1	0.8	
1	32 (25-56)	25 (18-46)	18 (13-36)	14 (9.6-28)	10 (7.0-21)	7.5 (5.2-16)	5.6 (3.8-12)	4.1 (2.8-8.8)	3.0 (2.0-6.5)	2.2 (1.5-4.7)	1.6 (1.1-3.4)	
2	46 (33-68)	38 (25-60)	30 (18-50)	23 (13-40)	17 (9.8-32)	13 (7.2-25)	10 (5.3-19)	7.4 (3.9-15)	5.5 (2.8-11)	4.0 (2.1-8.0)	2.9 (1.5-5.9)	
3	60 (43-77)	52 (34-70)	43 (26-62)	35 (19-52)	28 (14-43)	22 (11-35)	17 (8.0-27)	13 (5.9-21)	9.6 (4.3-16)	7.1 (3.1-12)	5.2 (2.3-9.0)	
4	72 (55-81)	65 (45-77)	58 (36-71)	49 (27-62)	41 (21-54)	34 (16-45)	27 (12-37)	21 (9.0-30)	16 (6.7-23)	12 (4.9-18)	8.9 (3.6-13)	
5	80 (65-84)	76 (57-81)	70 (48-76)	63 (39-70)	56 (31-63)	48 (25-55)	40 (19-47)	32 (15-38)	25 (11-31)	19 (8.1-24)	15 (6.0-18)	
6	85	83	80	75	69	62	54	46	37	30	23	

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	14	11	8.0	6.0	4.7	3.6	2.8	2.1	1.6	1.3	1.0	
1	24 (18-44)	19 (14-36)	14 (10-29)	11 (7.9-23)	8.8 (6.1-18)	6.9 (4.7-15)	5.3 (3.7-11)	4.1 (2.8-9.0)	3.2 (2.2-7.0)	2.5 (1.7-5.4)	1.9 (1.3-4.1)	
2	36 (24-57)	29 (19-49)	24 (14-41)	19 (11-34)	15 (8.5-28)	12 (6.6-23)	9.5 (5.1-18)	7.4 (4.0-14)	5.8 (3.1-11)	4.5 (2.3-8.9)	3.5 (1.8-6.9)	
3	50 (32-67)	42 (25-60)	35 (20-52)	29 (16-45)	24 (12-38)	20 (9.8-32)	16 (7.7-26)	13 (6.0-21)	10 (4.6-17)	7.8 (3.6-13)	6.1 (2.7-10)	
4	63 (43-74)	56 (35-69)	49 (28-62)	42 (22-54)	36 (18-47)	30 (14-41)	25 (11-34)	20 (8.9-28)	16 (7.0-23)	13 (5.4-19)	10 (4.2-15)	
5	73 (54-78)	68 (46-74)	63 (39-69)	56 (32-63)	50 (26-57)	43 (22-50)	37 (17-43)	31 (14-37)	25 (11-31)	21 (8.7-25)	16 (6.8-20)	
6	80	78	74	69	64	58	51	44	37	31	25	