

Singapore (Malay) - 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 (Malay). 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	6.3	3.2	1.7	0.9	0.4	0.2	0.1	0.1	0.0	0.0	0.0	
1	9.9 (6.6-13)	5.2 (3.4-6.8)	2.7 (1.7-3.5)	1.4 (0.9-1.8)	0.7 (0.5-0.9)	0.4 (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)	0.0 (0.0-0.0)	
2	15 (9.2-23)	8.2 (4.8-12)	4.3 (2.5-6.5)	2.2 (1.3-3.4)	1.1 (0.7-1.7)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	
3	23 (14-36)	13 (7.2-20)	6.7 (3.8-11)	3.5 (1.9-5.7)	1.8 (1.0-3.0)	0.9 (0.5-1.5)	0.5 (0.3-0.8)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	
4	34 (22-49)	19 (12-29)	10 (6.4-16)	5.4 (3.3-8.6)	2.8 (1.7-4.5)	1.4 (0.9-2.3)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
5	47 (38-61)	28 (22-39)	16 (12-22)	8.4 (6.1-12)	4.4 (3.2-6.3)	2.2 (1.6-3.3)	1.2 (0.8-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	
6	63	40	23	13	6.7	3.5	1.8	0.9	0.5	0.3	0.1	

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

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	9.0	4.9	2.7	1.4	0.8	0.4	0.2	0.1	0.1	0.0	0.0
1	14 (9.4-17)	7.7 (5.2-9.5)	4.2 (2.8-5.2)	2.3 (1.5-2.8)	1.2 (0.8-1.5)	0.7 (0.4-0.8)	0.4 (0.2-0.4)	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	21 (13-29)	12 (7.3-17)	6.6 (4.0-9.5)	3.6 (2.2-5.2)	1.9 (1.2-2.8)	1.0 (0.6-1.5)	0.6 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
3	30 (19-44)	18 (11-27)	10 (6.0-16)	5.6 (3.3-8.8)	3.0 (1.8-4.8)	1.6 (1.0-2.6)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
4	43 (31-58)	26 (18-38)	15 (10-23)	8.5 (5.6-13)	4.7 (3.0-7.3)	2.5 (1.6-4.0)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	57 (49-70)	37 (31-49)	22 (18-31)	13 (10-18)	7.1 (5.6-10)	3.9 (3.0-5.6)	2.1 (1.6-3.0)	1.2 (0.9-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
6	72	51	32	19	11	5.9	3.2	1.8	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	7.5	4.2	2.4	1.3	0.7	0.4	0.2	0.1	0.1	0.1
1	19 (14-22)	11 (7.8-13)	6.5 (4.5-7.7)	3.7 (2.5-4.4)	2.1 (1.4-2.5)	1.2 (0.8-1.4)	0.7 (0.4-0.8)	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	28 (19-37)	17 (11-23)	9.9 (6.3-14)	5.7 (3.5-7.8)	3.2 (2.0-4.4)	1.8 (1.1-2.5)	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 (27-53)	25 (16-35)	15 (9.4-22)	8.6 (5.4-13)	4.9 (3.0-7.4)	2.8 (1.7-4.2)	1.6 (1.0-2.4)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	52 (41-67)	35 (26-48)	22 (15-31)	13 (9.0-19)	7.4 (5.1-11)	4.2 (2.9-6.3)	2.4 (1.6-3.7)	1.4 (1.0-2.1)	0.8 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	66 (60-77)	47 (41-59)	31 (26-41)	19 (16-26)	11 (9.1-15)	6.3 (5.2-8.9)	3.6 (3.0-5.2)	2.1 (1.7-3.0)	1.2 (1.0-1.8)	0.7 (0.6-1.0)	0.4 (0.3-0.6)
6	78	61	42	27	16	9.3	5.4	3.2	1.9	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 (Malay).

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	16	9.5	5.7	3.3	1.9	1.1	0.7	0.4	0.3	0.2	0.1
1	23 (17-27)	14 (10-17)	8.5 (5.9-10)	5.0 (3.5-6.0)	3.0 (2.0-3.5)	1.7 (1.2-2.1)	1.0 (0.7-1.2)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	32 (23-40)	21 (14-26)	13 (8.3-16)	7.6 (4.9-9.8)	4.5 (2.9-5.9)	2.6 (1.7-3.4)	1.6 (1.0-2.1)	1.0 (0.6-1.3)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
3	44 (32-55)	29 (20-39)	18 (12-25)	11 (7.4-16)	6.7 (4.4-9.5)	3.9 (2.6-5.7)	2.4 (1.5-3.5)	1.4 (0.9-2.1)	0.9 (0.6-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.5)
4	56 (47-68)	40 (31-52)	26 (20-36)	16 (12-23)	9.8 (7.2-14)	5.9 (4.3-8.5)	3.6 (2.6-5.2)	2.2 (1.6-3.2)	1.3 (0.9-1.9)	0.8 (0.6-1.2)	0.5 (0.3-0.7)
5	69 (64-78)	52 (46-63)	36 (31-46)	23 (19-31)	14 (12-19)	8.6 (7.1-12)	5.3 (4.3-7.4)	3.2 (2.6-4.5)	2.0 (1.6-2.8)	1.2 (1.0-1.7)	0.7 (0.6-1.0)
6	79	65	47	32	20	12	7.7	4.7	2.9	1.8	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	16	10	6.2	3.8	2.3	1.4	0.9	0.6	0.4	0.2	0.1
1	25 (22-31)	16 (14-20)	10 (8.7-13)	6.3 (5.4-8.0)	3.9 (3.3-4.9)	2.4 (2.0-3.1)	1.5 (1.3-1.9)	1.0 (0.8-1.2)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
2	37 (31-47)	25 (20-32)	16 (13-22)	10 (8.1-14)	6.4 (5.0-8.7)	4.0 (3.1-5.4)	2.5 (2.0-3.5)	1.6 (1.2-2.2)	1.0 (0.8-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.6)
3	52 (43-60)	37 (29-45)	25 (19-32)	16 (12-21)	10 (7.6-14)	6.6 (4.7-8.7)	4.2 (3.0-5.6)	2.7 (1.9-3.6)	1.7 (1.2-2.3)	1.1 (0.8-1.4)	0.7 (0.5-0.9)
4	67 (58-73)	52 (43-59)	38 (29-44)	25 (19-30)	17 (12-20)	11 (7.7-13)	6.9 (5.0-8.5)	4.4 (3.2-5.5)	2.8 (2.0-3.5)	1.8 (1.3-2.2)	1.1 (0.8-1.4)
5	79 (73-81)	67 (59-71)	52 (44-57)	38 (31-42)	26 (20-29)	17 (13-19)	11 (8.6-13)	7.1 (5.5-8.2)	4.6 (3.5-5.3)	2.9 (2.3-3.4)	1.8 (1.4-2.1)
6	86	79	67	52	38	26	17	11	7.4	4.8	3.0

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

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	9.7	6.3	4.1	2.6	1.7	1.1	0.7	0.5	0.3	0.2
1	26 (20-48)	18 (14-35)	12 (8.8-24)	7.9 (5.7-16)	5.1 (3.7-11)	3.4 (2.4-7.3)	2.3 (1.6-4.9)	1.5 (1.1-3.2)	1.0 (0.7-2.1)	0.7 (0.5-1.4)	0.4 (0.3-0.9)
2	40 (27-63)	30 (19-50)	21 (12-37)	14 (8.1-26)	9.4 (5.2-18)	6.3 (3.4-12)	4.3 (2.3-8.4)	2.8 (1.5-5.6)	1.9 (1.0-3.8)	1.2 (0.7-2.5)	0.8 (0.4-1.7)
3	56 (38-74)	44 (27-63)	33 (18-49)	24 (12-37)	16 (7.8-26)	11 (5.2-18)	7.6 (3.5-13)	5.1 (2.3-8.8)	3.4 (1.5-5.9)	2.3 (1.0-4.0)	1.5 (0.7-2.6)
4	70 (50-80)	60 (38-72)	49 (27-61)	37 (18-48)	26 (12-36)	19 (8.2-26)	13 (5.5-19)	9.0 (3.7-13)	6.0 (2.5-8.9)	4.1 (1.6-6.0)	2.7 (1.1-4.0)
5	80 (64-85)	74 (52-79)	64 (39-70)	52 (28-59)	40 (20-46)	30 (14-35)	21 (9.3-25)	15 (6.3-18)	10 (4.2-12)	7.0 (2.8-8.4)	4.7 (1.9-5.7)
6	86	83	77	68	56	44	33	24	17	12	7.9

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	9.1	6.2	4.2	2.9	2.0	1.4	1.0	0.7	0.5	0.3
1	23 (17-43)	16 (12-33)	12 (8.1-24)	8.0 (5.5-17)	5.5 (3.8-12)	3.9 (2.6-8.4)	2.7 (1.8-5.9)	1.9 (1.3-4.1)	1.3 (0.9-2.9)	0.9 (0.6-2.0)	0.6 (0.4-1.4)
2	35 (23-57)	27 (16-46)	20 (11-35)	14 (7.7-26)	9.9 (5.3-19)	7.0 (3.7-14)	5.0 (2.6-9.8)	3.5 (1.8-7.0)	2.4 (1.2-4.9)	1.7 (0.9-3.4)	1.2 (0.6-2.4)
3	49 (32-67)	40 (23-58)	31 (17-47)	23 (11-36)	17 (7.9-27)	12 (5.6-20)	8.7 (3.9-15)	6.2 (2.7-10)	4.3 (1.9-7.4)	3.0 (1.3-5.3)	2.1 (0.9-3.7)
4	63 (42-74)	54 (32-67)	44 (24-57)	34 (17-46)	26 (12-36)	20 (8.5-28)	14 (6.0-21)	10 (4.2-15)	7.4 (3.0-11)	5.2 (2.1-7.9)	3.7 (1.4-5.6)
5	74 (54-79)	67 (44-73)	58 (34-65)	48 (25-55)	39 (19-45)	30 (14-36)	23 (9.8-28)	17 (7.0-21)	12 (4.9-15)	8.7 (3.5-11)	6.2 (2.4-7.8)
6	81	77	71	62	53	43	34	26	19	14	10

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

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	7.5	5.3	3.8	2.8	2.0	1.5	1.1	0.8	0.6	0.4
1	18 (13-36)	14 (9.7-28)	9.9 (6.9-21)	7.1 (4.9-15)	5.3 (3.6-11)	3.9 (2.7-8.5)	2.9 (1.9-6.3)	2.1 (1.4-4.6)	1.5 (1.0-3.4)	1.1 (0.8-2.5)	0.8 (0.6-1.8)
2	29 (18-48)	22 (13-39)	17 (9.7-30)	12 (6.9-23)	9.4 (5.1-18)	7.0 (3.8-14)	5.2 (2.8-10)	3.9 (2.0-7.6)	2.8 (1.5-5.6)	2.1 (1.1-4.2)	1.5 (0.8-3.1)
3	41 (25-59)	34 (19-50)	26 (14-41)	20 (10-32)	16 (7.5-25)	12 (5.6-20)	9.0 (4.2-15)	6.7 (3.1-11)	5.0 (2.2-8.4)	3.7 (1.6-6.3)	2.7 (1.2-4.6)
4	55 (34-67)	47 (27-59)	38 (20-50)	31 (15-41)	24 (11-33)	19 (8.4-27)	15 (6.2-21)	11 (4.6-16)	8.4 (3.4-12)	6.3 (2.5-9.2)	4.6 (1.8-6.9)
5	67 (45-73)	60 (36-66)	52 (29-58)	43 (22-50)	36 (17-42)	29 (13-35)	23 (9.9-28)	18 (7.4-22)	14 (5.5-17)	10 (4.1-13)	7.7 (3.0-9.6)
6	76	71	65	57	49	42	34	27	21	16	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	6.7	5.0	3.8	2.9	2.2	1.7	1.3	1.0	0.8	0.6	0.5
1	12 (8.7-25)	9.2 (6.6-19)	7.0 (4.9-15)	5.4 (3.7-12)	4.2 (2.9-9.2)	3.3 (2.3-7.2)	2.6 (1.7-5.6)	2.0 (1.3-4.4)	1.5 (1.0-3.4)	1.2 (0.8-2.6)	0.9 (0.6-2.0)
2	20 (12-34)	16 (9.1-28)	12 (6.9-22)	9.4 (5.3-18)	7.4 (4.1-14)	5.9 (3.2-11)	4.6 (2.5-8.9)	3.6 (1.9-7.0)	2.8 (1.5-5.5)	2.2 (1.1-4.3)	1.7 (0.9-3.3)
3	30 (16-45)	24 (13-38)	19 (9.7-31)	15 (7.5-25)	12 (5.9-20)	9.9 (4.6-16)	7.8 (3.6-13)	6.2 (2.8-10)	4.8 (2.2-8.2)	3.8 (1.7-6.4)	2.9 (1.3-5.0)
4	42 (23-54)	35 (18-47)	29 (14-39)	24 (11-33)	20 (8.8-27)	16 (6.9-22)	13 (5.4-18)	10 (4.2-14)	8.0 (3.3-11)	6.3 (2.6-9.1)	4.9 (2.0-7.2)
5	55 (32-61)	48 (26-54)	41 (21-47)	35 (16-40)	29 (13-34)	24 (11-29)	20 (8.3-24)	16 (6.6-19)	13 (5.2-16)	10 (4.1-13)	8.1 (3.2-10)
6	67	61	54	47	41	35	29	24	20	16	13