

Taiwan - 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 Taiwan. 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	12	6.3	3.3	1.7	0.9	0.4	0.2	0.1	0.1	0.0	0.0
1	19 (13-24)	10 (6.6-13)	5.2 (3.4-6.8)	2.7 (1.8-3.5)	1.4 (0.9-1.8)	0.7 (0.5-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	28 (17-40)	16 (9.3-23)	8.3 (4.8-12)	4.3 (2.5-6.6)	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)
3	40 (25-58)	23 (14-36)	13 (7.3-21)	6.8 (3.8-11)	3.5 (1.9-5.8)	1.8 (1.0-3.0)	0.9 (0.5-1.5)	0.5 (0.3-0.8)	0.3 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	55 (40-73)	34 (23-49)	19 (12-30)	10 (6.5-16)	5.5 (3.4-8.7)	2.8 (1.7-4.5)	1.5 (0.9-2.3)	0.8 (0.5-1.2)	0.4 (0.2-0.7)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	71 (61-84)	48 (38-62)	29 (22-39)	16 (12-22)	8.4 (6.2-12)	4.4 (3.2-6.4)	2.3 (1.6-3.3)	1.2 (0.9-1.7)	0.6 (0.5-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
6	85	64	41	23	13	6.7	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 women from Taiwan.

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	14	7.7	4.2	2.3	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	21 (14-25)	12 (8.0-15)	6.6 (4.4-8.1)	3.6 (2.4-4.4)	1.9 (1.3-2.4)	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	31 (20-42)	18 (11-25)	10 (6.2-15)	5.6 (3.4-8.1)	3.0 (1.8-4.4)	1.6 (1.0-2.4)	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	43 (29-60)	27 (17-39)	15 (9.3-24)	8.6 (5.1-14)	4.7 (2.8-7.5)	2.6 (1.5-4.1)	1.4 (0.8-2.2)	0.8 (0.4-1.2)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	58 (44-74)	38 (27-53)	23 (15-34)	13 (8.6-20)	7.3 (4.7-11)	4.0 (2.6-6.2)	2.2 (1.4-3.4)	1.2 (0.8-1.9)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	73 (65-84)	52 (44-65)	33 (27-44)	19 (15-27)	11 (8.6-16)	6.1 (4.7-8.7)	3.3 (2.6-4.8)	1.8 (1.4-2.7)	1.0 (0.8-1.5)	0.6 (0.5-0.8)	0.3 (0.3-0.5)
6	85	67	46	28	16	9.1	5.0	2.8	1.6	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	16	9.5	5.4	3.0	1.7	1.0	0.5	0.3	0.2	0.1	0.1
1	24 (17-28)	14 (9.9-17)	8.3 (5.7-9.8)	4.7 (3.2-5.6)	2.6 (1.8-3.1)	1.5 (1.0-1.8)	0.8 (0.6-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	35 (23-45)	21 (14-28)	13 (7.9-17)	7.2 (4.5-9.9)	4.1 (2.5-5.7)	2.3 (1.4-3.2)	1.3 (0.8-1.8)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
3	47 (33-62)	31 (20-43)	19 (12-27)	11 (6.8-16)	6.2 (3.8-9.4)	3.5 (2.2-5.4)	2.0 (1.2-3.1)	1.2 (0.7-1.8)	0.7 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.4)
4	61 (49-76)	42 (32-57)	27 (19-38)	16 (11-24)	9.4 (6.5-14)	5.4 (3.7-8.1)	3.1 (2.1-4.7)	1.8 (1.2-2.7)	1.0 (0.7-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
5	75 (70-85)	56 (50-69)	38 (32-49)	23 (20-32)	14 (12-19)	8.0 (6.6-11)	4.6 (3.8-6.6)	2.7 (2.2-3.9)	1.6 (1.3-2.3)	0.9 (0.7-1.3)	0.5 (0.4-0.8)
6	86	70	51	33	20	12	6.9	4.1	2.4	1.4	0.8

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

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	19	12	6.9	4.1	2.4	1.4	0.8	0.5	0.3	0.2	0.1
1	27 (20-32)	17 (12-20)	10 (7.3-12)	6.2 (4.3-7.3)	3.6 (2.5-4.3)	2.1 (1.5-2.5)	1.3 (0.9-1.5)	0.8 (0.5-0.9)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	38 (27-47)	25 (17-31)	15 (10-20)	9.2 (6.0-12)	5.5 (3.5-7.2)	3.2 (2.1-4.2)	1.9 (1.2-2.6)	1.2 (0.8-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.3)
3	51 (38-63)	34 (24-46)	22 (15-30)	14 (9.0-19)	8.2 (5.3-12)	4.8 (3.1-7.0)	2.9 (1.9-4.3)	1.8 (1.1-2.6)	1.1 (0.7-1.6)	0.6 (0.4-1.0)	0.4 (0.3-0.6)
4	64 (54-76)	46 (37-59)	31 (24-42)	20 (15-28)	12 (8.8-17)	7.2 (5.2-10)	4.4 (3.2-6.5)	2.7 (1.9-3.9)	1.6 (1.2-2.4)	1.0 (0.7-1.5)	0.6 (0.4-0.9)
5	76 (71-84)	59 (54-71)	42 (37-53)	28 (23-37)	17 (14-24)	11 (8.7-15)	6.5 (5.3-9.0)	4.0 (3.2-5.6)	2.4 (2.0-3.4)	1.5 (1.2-2.1)	0.9 (0.7-1.2)
6	85	72	55	38	25	15	9.5	5.8	3.6	2.2	1.3

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	22	14	8.7	5.4	3.3	2.0	1.3	0.8	0.5	0.3	0.2
1	33 (29-40)	22 (19-27)	14 (12-18)	8.8 (7.5-11)	5.5 (4.6-6.9)	3.4 (2.9-4.3)	2.1 (1.8-2.7)	1.4 (1.1-1.7)	0.9 (0.7-1.1)	0.5 (0.5-0.7)	0.3 (0.3-0.4)
2	48 (41-58)	34 (28-43)	22 (18-29)	14 (11-19)	9.0 (7.0-12)	5.6 (4.3-7.7)	3.6 (2.8-4.9)	2.3 (1.7-3.1)	1.4 (1.1-2.0)	0.9 (0.7-1.2)	0.6 (0.4-0.8)
3	64 (55-72)	48 (39-57)	34 (26-42)	23 (17-29)	14 (11-19)	9.2 (6.6-12)	5.9 (4.2-7.9)	3.8 (2.7-5.1)	2.4 (1.7-3.2)	1.5 (1.1-2.1)	0.9 (0.7-1.3)
4	77 (70-82)	64 (54-70)	48 (39-56)	34 (26-40)	23 (17-28)	15 (11-18)	9.6 (7.0-12)	6.2 (4.4-7.8)	3.9 (2.8-5.0)	2.5 (1.8-3.2)	1.6 (1.1-2.0)
5	85 (81-87)	77 (71-80)	64 (56-68)	49 (41-53)	34 (28-38)	23 (18-26)	15 (12-18)	10 (7.9-12)	6.5 (5.0-7.5)	4.1 (3.2-4.8)	2.6 (2.0-3.0)
6	89	85	77	64	49	35	24	16	10	6.7	4.3

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

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	23	15	10	6.6	4.2	2.8	1.8	1.2	0.8	0.5	0.3
1	38 (31-64)	27 (21-50)	19 (14-36)	13 (9.2-25)	8.2 (5.9-17)	5.5 (3.9-12)	3.7 (2.6-7.8)	2.4 (1.7-5.2)	1.6 (1.1-3.5)	1.1 (0.7-2.3)	0.7 (0.5-1.5)
2	54 (40-77)	42 (28-66)	31 (19-52)	22 (13-39)	15 (8.4-28)	10 (5.6-19)	6.9 (3.7-13)	4.6 (2.5-9.1)	3.1 (1.6-6.1)	2.0 (1.1-4.1)	1.3 (0.7-2.7)
3	69 (53-84)	59 (39-76)	47 (28-65)	35 (19-52)	25 (12-39)	18 (8.4-28)	12 (5.6-20)	8.3 (3.7-14)	5.6 (2.5-9.6)	3.7 (1.6-6.5)	2.5 (1.1-4.3)
4	80 (66-87)	73 (53-83)	63 (40-75)	51 (28-64)	39 (19-51)	28 (13-39)	20 (8.9-29)	14 (6.0-20)	9.7 (4.0-14)	6.5 (2.7-9.6)	4.4 (1.8-6.5)
5	87 (76-89)	83 (67-87)	76 (55-82)	67 (42-73)	55 (30-62)	43 (21-50)	32 (15-38)	23 (10-28)	16 (6.9-19)	11 (4.6-13)	7.6 (3.1-9.1)
6	89	88	85	80	71	60	48	36	26	18	13

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	21	15	10	7.0	4.8	3.3	2.3	1.6	1.1	0.8	0.5
1	34 (27-59)	25 (19-47)	18 (13-36)	13 (9.1-26)	9.1 (6.3-19)	6.4 (4.4-14)	4.5 (3.1-9.7)	3.2 (2.1-6.9)	2.2 (1.5-4.8)	1.5 (1.0-3.4)	1.1 (0.7-2.3)
2	49 (35-70)	39 (26-61)	30 (18-50)	22 (13-39)	16 (8.8-29)	11 (6.2-22)	8.2 (4.3-16)	5.8 (3.0-11)	4.1 (2.1-8.1)	2.9 (1.5-5.7)	2.0 (1.0-4.0)
3	62 (45-78)	53 (35-71)	43 (26-62)	34 (18-51)	25 (13-40)	19 (9.2-31)	14 (6.5-23)	10 (4.6-17)	7.2 (3.2-12)	5.1 (2.2-8.7)	3.6 (1.5-6.2)
4	74 (57-83)	66 (46-78)	58 (36-70)	48 (26-61)	38 (19-50)	30 (14-41)	23 (10-32)	17 (7.1-24)	12 (5.0-18)	8.6 (3.5-13)	6.1 (2.4-9.2)
5	81 (67-85)	77 (58-82)	70 (48-76)	62 (38-69)	53 (29-60)	43 (22-50)	34 (16-41)	26 (11-32)	19 (8.2-24)	14 (5.8-18)	10 (4.1-13)
6	86	84	80	74	67	58	48	39	30	22	16

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

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	16	12	8.5	6.1	4.5	3.3	2.4	1.8	1.3	0.9	0.7
1	26 (20-48)	20 (15-39)	15 (11-30)	11 (7.9-23)	8.3 (5.8-18)	6.2 (4.3-13)	4.6 (3.2-10)	3.4 (2.3-7.5)	2.5 (1.7-5.5)	1.9 (1.2-4.1)	1.4 (0.9-3.0)
2	39 (27-60)	31 (20-51)	25 (15-42)	19 (11-33)	14 (8.1-26)	11 (6.1-21)	8.3 (4.5-16)	6.2 (3.3-12)	4.6 (2.4-9.0)	3.4 (1.8-6.7)	2.5 (1.3-5.0)
3	52 (35-69)	44 (27-62)	36 (21-53)	29 (16-44)	23 (12-36)	18 (8.8-29)	14 (6.6-23)	11 (4.9-17)	7.9 (3.6-13)	5.9 (2.7-10)	4.4 (2.0-7.4)
4	65 (46-76)	58 (37-70)	50 (29-62)	41 (22-54)	34 (17-45)	28 (13-37)	22 (9.8-30)	17 (7.4-24)	13 (5.5-19)	9.8 (4.1-14)	7.4 (3.0-11)
5	74 (56-79)	69 (48-75)	63 (39-69)	55 (31-61)	47 (25-54)	40 (20-46)	33 (15-39)	26 (11-31)	21 (8.7-25)	16 (6.5-19)	12 (4.8-15)
6	81	78	74	68	61	54	46	38	31	24	19

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	9.6	7.3	5.5	4.2	3.3	2.6	2.0	1.5	1.2	0.9	0.7
1	17 (12-33)	13 (9.5-27)	10 (7.2-21)	7.8 (5.5-17)	6.2 (4.3-13)	4.8 (3.4-11)	3.8 (2.6-8.3)	3.0 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)	1.4 (0.9-3.1)
2	26 (17-44)	21 (13-36)	17 (10-30)	13 (7.7-24)	11 (6.1-20)	8.5 (4.7-16)	6.7 (3.7-13)	5.3 (2.9-10)	4.1 (2.2-8.0)	3.2 (1.7-6.3)	2.5 (1.3-4.9)
3	38 (22-54)	32 (18-47)	26 (14-40)	21 (11-33)	17 (8.5-28)	14 (6.7-23)	11 (5.3-18)	8.9 (4.1-15)	7.1 (3.2-12)	5.6 (2.5-9.4)	4.3 (2.0-7.4)
4	50 (31-63)	44 (25-56)	37 (20-49)	31 (16-42)	26 (12-36)	22 (9.9-30)	18 (7.9-25)	14 (6.2-20)	12 (4.9-16)	9.2 (3.8-13)	7.2 (3.0-10)
5	62 (40-68)	57 (34-63)	50 (27-56)	43 (22-50)	38 (18-43)	32 (15-37)	27 (12-32)	22 (9.4-26)	18 (7.5-22)	15 (5.9-18)	12 (4.6-14)
6	72	68	62	56	51	44	38	32	27	22	18