

**Hong Kong - The probabilities of a major osteoporotic fracture in women**

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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 Hong Kong. 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/m<sup>2</sup>.

**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	7.0	4.4	2.9	2.1	1.6	1.3	1.1	1.0	1.0	0.9	0.9
1	11 (9.3-14)	6.8 (5.9-8.7)	4.5 (3.8-5.8)	3.3 (2.6-4.1)	2.5 (1.8-3.1)	2.0 (1.4-2.7)	1.7 (1.2-2.3)	1.6 (1.0-2.1)	1.5 (1.0-2.0)	1.4 (0.9-2.0)	1.3 (0.9-1.9)
2	17 (13-24)	10 (8.2-15)	6.9 (5.2-9.9)	4.9 (3.4-7.1)	3.8 (2.4-5.8)	3.0 (1.8-5.0)	2.6 (1.4-4.3)	2.3 (1.2-4.0)	2.2 (1.1-3.8)	2.1 (1.1-3.6)	2.0 (1.0-3.5)
3	25 (17-34)	16 (11-21)	10 (7.2-15)	7.4 (4.6-12)	5.6 (3.2-9.6)	4.5 (2.3-8.1)	3.8 (1.9-7.0)	3.4 (1.6-6.4)	3.2 (1.5-6.1)	3.0 (1.4-5.9)	2.9 (1.3-5.7)
4	35 (24-46)	23 (15-29)	15 (9.9-20)	11 (7.0-15)	8.2 (5.3-12)	6.5 (4.0-10)	5.4 (3.1-9.0)	4.9 (2.6-8.3)	4.6 (2.4-7.9)	4.4 (2.3-7.6)	4.2 (2.1-7.3)
5	48 (39-58)	33 (25-38)	22 (17-25)	16 (12-19)	12 (8.8-15)	9.3 (7.0-12)	7.7 (5.8-11)	6.9 (5.0-9.7)	6.5 (4.5-9.3)	6.2 (4.2-8.9)	5.9 (4.0-8.5)
6	63	45	31	22	16	13	11	9.6	9.0	8.6	8.2

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

**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	11	7.2	5.1	3.7	2.9	2.4	2.0	1.8	1.7	1.6	1.5
1	16 (15-20)	11 (9.7-13)	7.7 (6.5-9.3)	5.7 (4.5-6.9)	4.4 (3.3-5.5)	3.6 (2.5-4.6)	3.0 (2.0-4.0)	2.7 (1.8-3.7)	2.5 (1.7-3.5)	2.4 (1.6-3.3)	2.3 (1.5-3.2)
2	24 (20-33)	16 (13-22)	11 (8.7-16)	8.4 (5.9-12)	6.5 (4.2-9.8)	5.3 (3.2-8.3)	4.4 (2.5-7.2)	4.0 (2.2-6.7)	3.7 (2.0-6.3)	3.5 (1.8-6.0)	3.3 (1.7-5.7)
3	35 (26-45)	24 (18-31)	17 (12-24)	12 (8.0-19)	9.6 (5.6-16)	7.7 (4.2-13)	6.4 (3.3-12)	5.8 (2.9-11)	5.4 (2.6-10)	5.1 (2.4-9.6)	4.8 (2.2-9.2)
4	47 (34-58)	34 (23-40)	24 (16-31)	18 (12-24)	14 (9.3-20)	11 (7.0-17)	9.1 (5.4-15)	8.3 (4.7-14)	7.7 (4.2-13)	7.2 (3.9-12)	6.9 (3.6-12)
5	62 (53-70)	46 (38-51)	33 (27-38)	25 (20-30)	19 (15-24)	15 (12-20)	13 (9.9-17)	12 (8.5-16)	11 (7.6-15)	10 (7.0-14)	9.6 (6.5-14)
6	76	59	45	34	26	21	18	16	15	14	13

**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	11	7.8	5.8	4.5	3.7	3.1	2.8	2.6	2.4	2.2
1	23 (21-26)	16 (14-19)	12 (9.8-13)	8.7 (6.9-10)	6.8 (5.1-8.4)	5.4 (3.9-7.1)	4.6 (3.2-6.2)	4.2 (2.8-5.7)	3.8 (2.6-5.4)	3.6 (2.3-5.0)	3.3 (2.2-4.7)
2	33 (27-42)	23 (19-30)	17 (13-22)	13 (9.1-17)	9.9 (6.5-14)	8.0 (4.9-12)	6.8 (4.0-11)	6.1 (3.4-9.9)	5.6 (3.1-9.3)	5.2 (2.8-8.7)	4.9 (2.6-8.1)
3	45 (35-54)	33 (26-42)	24 (18-34)	18 (12-27)	14 (8.7-23)	11 (6.5-19)	9.7 (5.2-17)	8.8 (4.5-16)	8.0 (4.0-15)	7.5 (3.6-14)	7.0 (3.3-13)
4	58 (46-67)	44 (33-52)	33 (24-42)	25 (18-34)	20 (14-29)	16 (11-24)	14 (8.6-21)	12 (7.3-20)	11 (6.5-19)	10 (5.8-17)	9.8 (5.4-16)
5	72 (66-78)	57 (50-62)	44 (38-50)	35 (29-41)	27 (23-34)	22 (18-29)	19 (15-25)	17 (13-23)	16 (11-22)	14 (10-20)	14 (9.3-19)
6	84	71	57	46	37	30	26	23	21	20	18

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

**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	22	15	11	8.6	6.8	5.4	4.7	4.2	3.8	3.5	3.2
1	31 (28-35)	22 (20-25)	17 (14-19)	13 (10-15)	9.9 (7.6-12)	7.9 (5.8-10)	6.9 (4.9-9.2)	6.2 (4.2-8.4)	5.6 (3.8-7.7)	5.1 (3.4-7.1)	4.7 (3.1-6.6)
2	42 (36-51)	31 (26-39)	24 (19-30)	18 (13-24)	14 (9.7-20)	11 (7.3-17)	9.9 (6.0-15)	8.9 (5.2-14)	8.0 (4.5-13)	7.3 (4.0-12)	6.7 (3.7-11)
3	55 (46-64)	42 (35-53)	33 (25-44)	25 (18-37)	20 (13-31)	16 (9.6-26)	14 (7.9-24)	13 (6.7-22)	11 (5.9-20)	10 (5.2-19)	9.6 (4.7-17)
4	68 (57-74)	55 (44-63)	43 (34-54)	34 (26-45)	27 (20-38)	22 (16-33)	19 (13-30)	17 (11-27)	16 (9.5-25)	14 (8.4-23)	13 (7.6-22)
5	80 (75-83)	68 (62-73)	56 (50-62)	45 (40-53)	37 (32-45)	30 (25-38)	26 (21-34)	24 (18-32)	21 (16-29)	20 (14-27)	18 (13-25)
6	88	79	68	57	47	39	35	31	29	26	24

**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	29	21	16	12	9.2	7.4	6.4	5.6	4.9	4.4	4.0
1	40 (37-47)	30 (27-35)	23 (19-27)	17 (14-20)	13 (10-15)	10 (8.1-12)	8.9 (6.7-10)	7.7 (5.7-9.0)	6.8 (4.9-8.0)	6.1 (4.3-7.2)	5.5 (3.9-6.5)
2	55 (47-66)	42 (35-52)	32 (25-41)	24 (18-31)	19 (14-24)	15 (10-19)	12 (8.4-16)	11 (7.0-14)	9.4 (6.0-13)	8.3 (5.2-11)	7.5 (4.6-10)
3	70 (59-80)	56 (45-68)	44 (33-56)	34 (24-45)	26 (18-36)	21 (14-30)	17 (11-25)	15 (9.2-22)	13 (7.8-20)	11 (6.8-18)	10 (6.0-16)
4	82 (74-87)	71 (60-78)	58 (47-67)	46 (36-55)	36 (27-45)	28 (21-37)	24 (17-32)	20 (15-28)	17 (12-25)	15 (11-22)	13 (9.5-20)
5	89 (86-91)	83 (77-86)	72 (65-77)	60 (52-65)	48 (41-54)	38 (33-45)	32 (27-38)	27 (23-33)	23 (20-29)	20 (17-26)	18 (15-24)
6	93	90	84	74	61	50	42	36	31	27	23

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

**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	33	25	19	14	11	9.0	7.6	6.5	5.6	4.9	4.3
1	48 (41-68)	37 (31-55)	28 (23-42)	21 (17-31)	16 (13-23)	13 (10-17)	11 (8.1-13)	9.0 (6.8-11)	7.6 (5.7-8.9)	6.6 (4.9-7.8)	5.8 (4.2-6.9)
2	64 (51-82)	52 (40-72)	41 (30-60)	32 (22-47)	24 (17-36)	19 (13-28)	15 (10-22)	13 (8.5-17)	11 (7.1-14)	8.9 (6.0-12)	7.7 (5.1-11)
3	77 (63-88)	68 (51-82)	56 (39-72)	45 (29-60)	35 (22-47)	27 (17-38)	22 (14-31)	18 (11-25)	15 (9.3-20)	12 (7.8-17)	10 (6.7-14)
4	86 (75-91)	80 (63-88)	71 (51-81)	60 (40-71)	48 (31-59)	39 (25-48)	31 (20-39)	25 (17-32)	20 (14-26)	17 (12-22)	14 (10-19)
5	90 (84-92)	88 (77-91)	83 (67-87)	75 (56-80)	64 (45-69)	53 (37-59)	43 (31-49)	35 (26-40)	28 (22-33)	23 (19-27)	19 (16-23)
6	92	91	90	86	78	69	58	48	39	31	25

**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	36	29	22	17	14	12	9.8	8.4	7.2	6.2	5.4
1	50 (42-69)	40 (33-58)	32 (26-47)	25 (20-37)	20 (16-29)	17 (13-23)	14 (10-18)	12 (8.6-14)	9.8 (7.2-12)	8.4 (6.2-9.6)	7.2 (5.3-8.3)
2	63 (52-78)	54 (42-71)	44 (33-62)	36 (26-51)	29 (20-42)	23 (16-34)	19 (13-27)	16 (11-22)	13 (9.1-18)	11 (7.6-15)	9.6 (6.5-12)
3	74 (61-84)	66 (52-79)	57 (42-72)	48 (33-62)	39 (26-52)	33 (21-43)	27 (17-36)	22 (14-30)	18 (12-25)	15 (10-21)	13 (8.4-18)
4	82 (70-87)	76 (62-84)	69 (52-79)	61 (42-71)	52 (35-62)	44 (29-53)	37 (24-45)	30 (20-38)	25 (17-32)	21 (14-27)	17 (12-23)
5	86 (78-89)	84 (72-87)	79 (64-84)	73 (55-78)	65 (47-71)	57 (40-63)	49 (34-55)	41 (29-47)	34 (25-39)	28 (21-33)	23 (18-28)
6	89	88	85	82	76	69	62	53	45	37	31

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

**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	33	27	22	17	14	12	10	8.8	7.5	6.5	5.6
1	45 (37-62)	37 (30-53)	30 (24-43)	24 (19-35)	20 (15-29)	17 (13-23)	14 (11-19)	12 (8.9-16)	10 (7.5-13)	8.8 (6.3-10)	7.5 (5.4-8.7)
2	57 (45-72)	49 (37-65)	41 (30-56)	34 (24-48)	28 (20-40)	24 (16-34)	20 (14-28)	17 (11-23)	14 (9.4-19)	12 (7.9-16)	10 (6.7-13)
3	68 (55-79)	61 (46-74)	53 (38-66)	45 (31-58)	38 (26-50)	32 (21-43)	27 (18-37)	23 (15-31)	19 (12-26)	16 (10-22)	14 (8.8-19)
4	76 (64-83)	71 (56-80)	65 (48-74)	57 (40-67)	50 (34-60)	43 (29-52)	37 (24-45)	31 (21-39)	26 (17-33)	22 (15-28)	18 (13-24)
5	82 (72-85)	79 (66-83)	74 (59-80)	68 (51-74)	62 (45-68)	55 (39-62)	48 (34-55)	41 (29-48)	35 (25-41)	30 (21-35)	25 (18-30)
6	84	84	82	78	73	67	60	53	46	39	33

**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	21	17	14	11	9.5	8.1	6.9	5.9	5.0	4.3	3.6
1	29 (22-42)	24 (18-35)	20 (14-29)	16 (12-24)	14 (9.8-20)	11 (8.2-16)	9.7 (6.9-14)	8.2 (5.8-11)	6.9 (4.9-9.3)	5.9 (4.1-7.7)	5.0 (3.5-6.4)
2	39 (28-53)	33 (23-46)	27 (19-39)	22 (15-33)	19 (13-28)	16 (11-24)	14 (9.0-20)	12 (7.5-17)	9.7 (6.3-14)	8.2 (5.3-12)	6.9 (4.5-9.6)
3	50 (36-62)	43 (30-56)	37 (24-48)	31 (20-42)	26 (17-36)	23 (14-31)	19 (12-26)	16 (10-22)	14 (8.4-19)	11 (7.1-16)	9.6 (5.9-13)
4	60 (45-69)	54 (38-64)	47 (32-57)	41 (27-50)	36 (23-45)	31 (19-39)	26 (16-34)	22 (14-29)	19 (12-24)	16 (10-21)	13 (8.5-17)
5	69 (54-75)	64 (47-70)	58 (41-65)	52 (35-59)	47 (31-53)	41 (26-47)	36 (23-42)	31 (20-36)	26 (17-31)	22 (14-27)	19 (12-23)
6	76	73	68	63	58	52	47	41	35	30	26