

**South Korea - 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 South Korea. 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	17	9.5	5.1	2.7	1.4	0.8	0.4	0.2	0.1	0.1	0.0
1	26 (18-33)	15 (9.9-19)	8.0 (5.4-11)	4.3 (2.9-5.7)	2.3 (1.5-3.0)	1.2 (0.8-1.6)	0.6 (0.4-0.8)	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	37 (24-50)	22 (14-31)	12 (7.5-18)	6.7 (4.0-10)	3.6 (2.1-5.5)	1.9 (1.1-2.9)	1.0 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	50 (35-64)	32 (20-45)	19 (11-28)	10 (6.1-16)	5.6 (3.2-8.8)	3.0 (1.7-4.8)	1.6 (0.9-2.5)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	63 (49-76)	44 (31-58)	27 (18-38)	15 (9.9-23)	8.6 (5.4-13)	4.6 (2.9-7.2)	2.5 (1.5-3.8)	1.3 (0.8-2.0)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	75 (66-83)	57 (47-69)	38 (29-49)	23 (17-31)	13 (9.4-18)	7.0 (5.1-10)	3.8 (2.7-5.4)	2.0 (1.4-2.9)	1.1 (0.8-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
6	84	70	51	32	19	10	5.7	3.0	1.6	0.9	0.5

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

**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	17	9.6	5.4	3.0	1.6	0.9	0.5	0.3	0.2	0.1	0.1
1	24 (18-30)	14 (10-18)	8.3 (5.7-10)	4.6 (3.1-5.8)	2.6 (1.7-3.2)	1.4 (1.0-1.8)	0.8 (0.5-1.0)	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	34 (24-45)	21 (14-29)	12 (7.9-17)	7.1 (4.4-10)	3.9 (2.5-5.7)	2.2 (1.3-3.1)	1.2 (0.7-1.7)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	46 (34-58)	30 (20-41)	18 (12-26)	11 (6.7-15)	6.0 (3.7-8.9)	3.3 (2.1-5.0)	1.8 (1.1-2.8)	1.0 (0.6-1.5)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	58 (47-69)	41 (30-53)	26 (18-36)	16 (11-22)	9.0 (6.0-13)	5.0 (3.3-7.5)	2.8 (1.8-4.2)	1.5 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.4)
5	69 (62-77)	53 (45-63)	36 (29-46)	22 (18-30)	13 (10-18)	7.5 (5.8-11)	4.2 (3.2-6.0)	2.3 (1.8-3.3)	1.3 (1.0-1.9)	0.8 (0.6-1.1)	0.4 (0.3-0.6)
6	78	65	47	31	19	11	6.2	3.5	2.0	1.1	0.6

**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	1.1	0.6	0.4	0.2	0.1	0.1
1	21 (15-25)	13 (9.3-15)	7.9 (5.6-9.4)	4.7 (3.3-5.6)	2.8 (1.9-3.3)	1.6 (1.1-1.9)	0.9 (0.7-1.1)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	29 (21-37)	19 (13-24)	12 (7.8-15)	7.0 (4.6-9.4)	4.2 (2.7-5.7)	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	39 (30-49)	26 (19-34)	17 (12-22)	10 (7.0-14)	6.2 (4.1-8.6)	3.7 (2.4-5.2)	2.2 (1.4-3.1)	1.3 (0.8-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	49 (40-59)	35 (27-45)	23 (17-31)	15 (11-20)	9.0 (6.5-13)	5.4 (3.8-7.7)	3.2 (2.3-4.6)	1.9 (1.3-2.7)	1.1 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
5	59 (54-67)	45 (39-54)	31 (27-40)	21 (17-27)	13 (11-17)	7.8 (6.4-11)	4.7 (3.8-6.5)	2.8 (2.3-3.9)	1.7 (1.4-2.4)	1.0 (0.8-1.4)	0.6 (0.5-0.9)
6	68	56	41	28	18	11	6.8	4.1	2.5	1.5	0.9

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

**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	13	8.1	5.2	3.2	2.0	1.3	0.8	0.5	0.3	0.2	0.1
1	18 (13-20)	12 (8.5-13)	7.5 (5.4-8.5)	4.7 (3.4-5.4)	3.0 (2.1-3.4)	1.9 (1.3-2.1)	1.2 (0.8-1.3)	0.7 (0.5-0.8)	0.5 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	24 (18-30)	16 (12-20)	11 (7.6-13)	6.8 (4.8-8.7)	4.3 (3.0-5.5)	2.7 (1.9-3.5)	1.7 (1.2-2.2)	1.1 (0.7-1.4)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
3	32 (25-40)	22 (17-29)	15 (11-19)	9.7 (7.1-13)	6.2 (4.5-8.3)	3.9 (2.8-5.3)	2.5 (1.8-3.3)	1.6 (1.1-2.1)	1.0 (0.7-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.6)
4	41 (34-49)	29 (24-37)	20 (16-26)	14 (11-18)	8.8 (6.8-12)	5.6 (4.3-7.7)	3.6 (2.7-4.9)	2.3 (1.7-3.1)	1.5 (1.1-2.0)	0.9 (0.7-1.3)	0.6 (0.5-0.9)
5	49 (45-57)	38 (34-45)	27 (24-34)	19 (16-24)	12 (11-16)	8.0 (6.9-11)	5.1 (4.4-6.9)	3.3 (2.8-4.4)	2.1 (1.8-2.9)	1.4 (1.2-1.9)	0.9 (0.8-1.2)
6	58	47	35	25	17	11	7.2	4.6	3.0	2.0	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	11	7.4	4.9	3.3	2.2	1.4	1.0	0.6	0.4	0.3	0.2
1	16 (15-21)	11 (10-15)	7.8 (6.9-10)	5.2 (4.6-6.9)	3.5 (3.1-4.6)	2.3 (2.1-3.1)	1.5 (1.4-2.0)	1.0 (0.9-1.4)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.3-0.4)
2	24 (20-30)	17 (14-22)	12 (9.7-15)	8.2 (6.6-11)	5.5 (4.4-7.2)	3.7 (3.0-4.9)	2.5 (2.0-3.3)	1.7 (1.3-2.2)	1.1 (0.9-1.5)	0.8 (0.6-1.0)	0.5 (0.4-0.7)
3	33 (27-40)	25 (20-30)	18 (14-22)	12 (9.8-16)	8.6 (6.7-11)	5.8 (4.5-7.4)	3.9 (3.0-5.0)	2.7 (2.0-3.4)	1.8 (1.4-2.3)	1.2 (1.0-1.6)	0.8 (0.7-1.1)
4	44 (36-50)	34 (27-40)	26 (20-30)	19 (14-22)	13 (9.9-16)	9.0 (6.8-11)	6.1 (4.6-7.5)	4.2 (3.1-5.1)	2.9 (2.2-3.5)	2.0 (1.5-2.4)	1.4 (1.0-1.7)
5	54 (46-58)	45 (37-49)	35 (28-39)	26 (21-29)	19 (15-21)	14 (10-15)	9.4 (7.0-10)	6.5 (4.8-7.2)	4.5 (3.4-5.0)	3.1 (2.3-3.5)	2.2 (1.6-2.4)
6	64	55	45	36	27	20	14	9.9	7.0	4.9	3.4

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

**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	8.6	6.1	4.4	3.1	2.2	1.5	1.1	0.8	0.5	0.4	0.3
1	15 (11-30)	11 (8.2-23)	8.0 (5.9-17)	5.8 (4.2-12)	4.1 (3.0-8.9)	2.9 (2.1-6.4)	2.0 (1.5-4.5)	1.5 (1.1-3.3)	1.1 (0.8-2.4)	0.8 (0.6-1.7)	0.6 (0.4-1.2)
2	24 (15-40)	18 (11-31)	14 (8.2-24)	10 (5.9-18)	7.2 (4.2-13)	5.2 (3.0-9.6)	3.7 (2.1-6.9)	2.7 (1.5-5.0)	1.9 (1.1-3.7)	1.4 (0.8-2.7)	1.0 (0.6-1.9)
3	35 (21-49)	28 (16-40)	21 (11-32)	16 (8.3-25)	12 (5.9-19)	8.7 (4.2-14)	6.3 (3.0-10)	4.6 (2.2-7.5)	3.4 (1.6-5.5)	2.4 (1.1-4.0)	1.8 (0.8-2.9)
4	46 (28-57)	39 (21-49)	31 (16-41)	25 (12-33)	19 (8.6-25)	14 (6.2-19)	10 (4.5-14)	7.6 (3.3-10)	5.6 (2.4-7.7)	4.1 (1.7-5.7)	3.0 (1.3-4.2)
5	58 (37-65)	51 (29-58)	43 (23-49)	35 (17-41)	28 (13-33)	21 (9.2-25)	16 (6.7-19)	12 (4.9-14)	9.1 (3.6-11)	6.7 (2.6-7.9)	5.0 (1.9-5.8)
6	69	63	55	47	39	31	24	19	14	11	8.0

**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	5.9	4.5	3.3	2.5	1.8	1.4	1.0	0.8	0.6	0.4	0.3
1	10 (7.7-22)	8.0 (5.8-17)	6.1 (4.3-13)	4.6 (3.2-10)	3.4 (2.4-7.6)	2.5 (1.8-5.7)	1.9 (1.3-4.3)	1.5 (1.0-3.3)	1.1 (0.8-2.5)	0.8 (0.6-1.9)	0.6 (0.4-1.5)
2	17 (10-30)	13 (7.6-24)	10 (5.7-19)	7.8 (4.3-15)	5.9 (3.2-11)	4.5 (2.4-8.5)	3.4 (1.8-6.4)	2.6 (1.4-5.0)	2.0 (1.1-3.8)	1.5 (0.8-2.9)	1.2 (0.6-2.2)
3	25 (14-38)	20 (10-32)	16 (8.0-26)	13 (6.0-20)	9.7 (4.5-16)	7.4 (3.4-12)	5.6 (2.5-9.4)	4.3 (1.9-7.3)	3.3 (1.5-5.7)	2.6 (1.1-4.4)	2.0 (0.9-3.4)
4	36 (19-47)	30 (15-40)	24 (11-33)	19 (8.6-27)	15 (6.5-21)	12 (4.9-17)	9.0 (3.7-13)	7.0 (2.9-10)	5.5 (2.2-7.9)	4.2 (1.7-6.1)	3.2 (1.3-4.7)
5	47 (26-53)	40 (21-46)	34 (16-39)	28 (13-32)	22 (9.6-26)	18 (7.3-21)	14 (5.5-16)	11 (4.3-13)	8.6 (3.3-10)	6.7 (2.6-8.0)	5.2 (2.0-6.3)
6	58	52	45	38	32	26	20	16	13	10	8.1

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

**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	3.9	3.0	2.4	1.9	1.4	1.1	0.9	0.7	0.6	0.5	0.4
1	7.0 (5.1-15)	5.5 (4.0-12)	4.4 (3.1-9.7)	3.4 (2.4-7.7)	2.7 (1.9-6.0)	2.1 (1.5-4.7)	1.7 (1.2-3.8)	1.3 (0.9-3.0)	1.1 (0.7-2.4)	0.9 (0.6-2.0)	0.7 (0.5-1.6)
2	12 (6.6-21)	9.3 (5.2-17)	7.5 (4.1-14)	5.9 (3.2-11)	4.7 (2.5-9.0)	3.7 (2.0-7.1)	2.9 (1.6-5.7)	2.4 (1.2-4.6)	1.9 (1.0-3.7)	1.5 (0.8-3.0)	1.2 (0.6-2.4)
3	18 (9.1-28)	15 (7.2-24)	12 (5.7-19)	9.6 (4.5-16)	7.7 (3.5-13)	6.1 (2.8-10)	4.9 (2.2-8.2)	4.0 (1.8-6.7)	3.2 (1.4-5.4)	2.6 (1.1-4.4)	2.1 (0.9-3.5)
4	26 (13-36)	22 (10-30)	18 (8.1-25)	15 (6.4-21)	12 (5.1-17)	9.7 (4.0-14)	7.8 (3.2-11)	6.4 (2.6-9.2)	5.2 (2.1-7.5)	4.2 (1.7-6.1)	3.4 (1.3-5.0)
5	36 (18-42)	31 (15-36)	26 (12-31)	22 (9.5-26)	18 (7.5-21)	15 (6.0-18)	12 (4.8-14)	9.9 (3.9-12)	8.2 (3.1-9.7)	6.7 (2.5-7.9)	5.4 (2.0-6.5)
6	48	42	36	31	26	22	18	15	12	10	8.4

**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	2.3	1.9	1.5	1.3	1.0	0.8	0.7	0.6	0.5	0.4	0.3
1	4.2 (3.0-9.4)	3.5 (2.5-7.7)	2.9 (2.0-6.4)	2.3 (1.6-5.3)	1.9 (1.3-4.3)	1.6 (1.1-3.5)	1.3 (0.9-3.0)	1.1 (0.8-2.5)	0.9 (0.6-2.1)	0.8 (0.5-1.8)	0.7 (0.5-1.5)
2	7.2 (3.9-14)	6.0 (3.2-11)	4.9 (2.6-9.5)	4.1 (2.2-7.8)	3.3 (1.8-6.5)	2.7 (1.4-5.3)	2.3 (1.2-4.5)	1.9 (1.0-3.8)	1.6 (0.9-3.2)	1.4 (0.7-2.7)	1.2 (0.6-2.3)
3	12 (5.5-19)	9.7 (4.5-16)	8.0 (3.7-13)	6.7 (3.0-11)	5.5 (2.5-9.2)	4.6 (2.0-7.6)	3.8 (1.7-6.5)	3.2 (1.4-5.5)	2.7 (1.2-4.6)	2.3 (1.0-3.9)	2.0 (0.9-3.3)
4	18 (7.8-24)	15 (6.4-21)	13 (5.3-18)	11 (4.4-15)	8.8 (3.6-13)	7.3 (3.0-11)	6.2 (2.5-8.9)	5.3 (2.1-7.6)	4.5 (1.8-6.5)	3.8 (1.5-5.5)	3.2 (1.3-4.7)
5	25 (11-30)	22 (9.5-26)	19 (7.9-22)	16 (6.5-19)	13 (5.4-16)	11 (4.4-13)	9.6 (3.7-11)	8.2 (3.2-9.8)	7.0 (2.7-8.4)	6.0 (2.3-7.1)	5.1 (1.9-6.1)
6	35	31	27	23	20	17	14	12	11	9.2	7.8