South Korea - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip fracture according to body mass index (BMI kg/m2), 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.

Age = 50 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	0.9	0.5	0.3	0.2	0.2	0.1	0.1
1	1.7 (1.1-3.4)	0.9 (0.6-1.8)	0.5 (0.3-1.0)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)
2	3.3 (1.7-7.0)	1.8 (0.9-3.9)	1.0 (0.5-2.1)	0.8 (0.4-1.6)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)
3	6.2 (2.6-12)	3.4 (1.4-6.8)	1.9 (0.8-3.7)	1.5 (0.6-2.9)	1.1 (0.5-2.2)	0.9 (0.4-1.7)	0.7 (0.3-1.4)
4	11 (4.5-18)	6.3 (2.4-10)	3.4 (1.3-5.6)	2.7 (1.0-4.4)	2.1 (0.8-3.4)	1.6 (0.6-2.7)	1.3 (0.5-2.1)
5	19 (9.3-25)	11 (5.2-15)	6.2 (2.8-8.3)	4.8 (2.2-6.5)	3.8 (1.7-5.1)	2.9 (1.3-4.0)	2.3 (1.0-3.1)
6	32	19	11	8.5	6.6	5.2	4.1

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	1.5	0.8	0.4	0.3	0.3	0.2	0.2
1	2.9 (2.0-5.0)	1.6 (1.1-2.7)	0.9 (0.6-1.5)	0.7 (0.5-1.2)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)
2	5.3 (2.9-10)	2.9 (1.6-5.8)	1.6 (0.9-3.2)	1.2 (0.7-2.5)	1.0 (0.5-1.9)	0.8 (0.4-1.5)	0.6 (0.3-1.2)
3	9.5 (4.4-17)	5.4 (2.4-10)	2.9 (1.3-5.5)	2.3 (1.0-4.3)	1.8 (0.8-3.4)	1.4 (0.6-2.6)	1.1 (0.5-2.0)
4	16 (7.6-25)	9.5 (4.3-15)	5.3 (2.3-8.3)	4.1 (1.8-6.5)	3.2 (1.4-5.1)	2.5 (1.1-4.0)	1.9 (0.9-3.1)
5	27 (15-35)	16 (8.8-21)	9.3 (4.9-12)	7.3 (3.8-9.6)	5.7 (3.0-7.6)	4.4 (2.3-5.9)	3.5 (1.8-4.6)
6	43	27	16	12	9.8	7.7	6.0

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.6	1.4	0.8	0.6	0.5	0.4	0.3
1	4.7 (3.4-7.3)	2.6 (1.9-4.1)	1.5 (1.0-2.3)	1.1 (0.8-1.8)	0.9 (0.6-1.4)	0.7 (0.5-1.1)	0.5 (0.4-0.8)
2	8.3 (4.9-15)	4.7 (2.8-8.5)	2.6 (1.5-4.8)	2.1 (1.2-3.7)	1.6 (0.9-2.9)	1.2 (0.7-2.3)	1.0 (0.6-1.7)
3	14 (7.4-24)	8.3 (4.2-14)	4.7 (2.3-8.3)	3.7 (1.8-6.5)	2.8 (1.4-5.1)	2.2 (1.1-3.9)	1.7 (0.9-3.1)
4	23 (13-34)	14 (7.4-21)	8.2 (4.1-12)	6.4 (3.2-9.7)	5.0 (2.5-7.6)	3.9 (1.9-6.0)	3.0 (1.5-4.7)
5	37 (24-45)	23 (15-29)	14 (8.5-18)	11 (6.6-14)	8.5 (5.2-11)	6.7 (4.0-8.7)	5.2 (3.1-6.8)
6	53	37	23	18	14	11	8.8

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

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	4.3	2.5	1.4	1.1	0.8	0.6	0.5
1	7.4 (5.6-10)	4.3 (3.2-6.0)	2.4 (1.8-3.4)	1.9 (1.4-2.7)	1.5 (1.1-2.1)	1.1 (0.8-1.6)	0.9 (0.7-1.2)
2	12 (7.9-19)	7.4 (4.7-12)	4.2 (2.7-7.0)	3.3 (2.1-5.4)	2.6 (1.6-4.2)	2.0 (1.2-3.3)	1.5 (1.0-2.5)
3	20 (12-31)	12 (7.1-20)	7.3 (4.0-12)	5.7 (3.1-9.4)	4.4 (2.4-7.4)	3.4 (1.9-5.7)	2.7 (1.5-4.5)
4	31 (20-43)	20 (12-29)	12 (7.0-18)	9.5 (5.5-14)	7.5 (4.3-11)	5.8 (3.3-8.6)	4.5 (2.6-6.7)
5	45 (34-52)	31 (23-38)	20 (14-25)	16 (11-20)	12 (8.6-16)	9.7 (6.7-12)	7.6 (5.2-9.6)
6	61	46	31	25	20	16	12

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	6.6	4.0	2.4	1.8	1.4	1.1	0.8
1	12 (9.0-14)	7.2 (5.7-8.4)	4.3 (3.4-5.0)	3.3 (2.6-3.9)	2.6 (2.0-3.0)	2.0 (1.6-2.3)	1.5 (1.2-1.8)
2	19 (13-26)	13 (8.5-17)	7.7 (5.1-10)	6.0 (4.0-8.0)	4.6 (3.1-6.3)	3.6 (2.4-4.9)	2.8 (1.8-3.8)
3	31 (22-41)	21 (14-30)	13 (8.9-20)	11 (6.9-15)	8.2 (5.4-12)	6.4 (4.2-9.5)	5.0 (3.2-7.4)
4	45 (34-58)	34 (25-45)	23 (17-32)	18 (13-25)	14 (10-20)	11 (8.0-16)	8.8 (6.2-13)
5	60 (55-69)	50 (44-58)	36 (32-43)	30 (26-36)	24 (20-29)	19 (16-23)	15 (13-19)
6	73	66	54	45	38	31	25

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

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	8.5	5.6	3.4	2.6	2.0	1.6	1.2
1	15 (11-26)	11 (7.5-18)	6.7 (4.8-11)	5.2 (3.7-8.9)	4.0 (2.8-7.0)	3.1 (2.2-5.4)	2.4 (1.7-4.2)
2	26 (16-40)	19 (11-30)	12 (7.2-21)	9.7 (5.6-16)	7.6 (4.3-13)	5.9 (3.3-10)	4.5 (2.5-7.7)
3	39 (24-56)	31 (19-45)	22 (12-34)	17 (9.6-27)	14 (7.5-22)	11 (5.8-17)	8.3 (4.4-14)
4	54 (37-68)	46 (30-61)	35 (21-50)	29 (17-42)	23 (13-34)	19 (10-28)	15 (7.9-22)
5	67 (52-75)	62 (45-71)	53 (35-62)	45 (28-54)	37 (23-46)	31 (18-38)	25 (14-31)
6	77	75	69	62	54	46	39

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	8.6	6.2	4.1	3.2	2.4	1.9	1.4
1	15 (11-26)	11 (7.9-19)	7.7 (5.5-14)	5.9 (4.2-11)	4.6 (3.2-8.2)	3.5 (2.5-6.3)	2.7 (1.9-4.9)
2	24 (15-38)	19 (12-31)	14 (8.2-23)	11 (6.3-18)	8.2 (4.9-14)	6.3 (3.7-11)	4.9 (2.8-8.4)
3	35 (22-50)	29 (17-43)	22 (12-35)	18 (9.6-28)	14 (7.4-23)	11 (5.7-18)	8.5 (4.4-14)
4	48 (31-60)	42 (26-55)	35 (20-47)	28 (16-39)	23 (12-32)	18 (9.5-26)	14 (7.3-21)
5	61 (44-69)	56 (38-65)	49 (32-58)	42 (25-51)	35 (20-43)	28 (16-36)	23 (12-29)
6	71	68	64	56	49	41	34

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	7.5	5.7	4.1	3.1	2.4	1.8	1.4
1	13 (8.9-22)	10 (7.0-18)	7.5 (5.2-13)	5.7 (4.0-10)	4.4 (3.0-8.0)	3.3 (2.3-6.1)	2.5 (1.7-4.7)
2	21 (13-34)	17 (10-28)	13 (7.8-22)	10 (5.9-17)	7.7 (4.5-13)	5.9 (3.4-10)	4.5 (2.6-8.0)
3	31 (19-45)	26 (15-39)	21 (12-32)	17 (9.0-26)	13 (6.9-21)	10 (5.3-16)	7.8 (4.0-13)
4	43 (27-55)	38 (22-50)	32 (18-43)	26 (14-36)	21 (11-29)	16 (8.3-24)	13 (6.4-19)
5	55 (39-63)	51 (34-60)	45 (28-54)	38 (23-47)	31 (18-39)	25 (14-32)	20 (11-26)
6	65	63	59	51	44	37	30

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	5.5	4.3	3.3	2.5	1.9	1.4	1.1
1	9.7 (6.6-17)	7.7 (5.2-14)	6.0 (4.0-11)	4.5 (3.0-8.3)	3.4 (2.3-6.3)	2.6 (1.7-4.8)	2.0 (1.3-3.6)
2	16 (9.7-27)	13 (7.8-22)	10 (6.0-18)	7.9 (4.6-14)	6.0 (3.5-11)	4.6 (2.6-8.3)	3.5 (2.0-6.3)
3	24 (14-36)	21 (12-31)	17 (9.2-26)	13 (7.0-21)	10 (5.3-16)	7.8 (4.0-13)	5.9 (3.1-9.7)
4	35 (20-46)	30 (17-41)	26 (14-35)	21 (11-29)	16 (8.2-23)	13 (6.2-18)	9.8 (4.7-14)
5	46 (31-55)	42 (27-51)	37 (22-46)	31 (18-39)	25 (14-32)	20 (11-26)	16 (8.1-21)
6	56	54	50	43	36	29	24