

Finland - 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 Finland. 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/m ²)						
	15	20	25	30	35	40	45
0	0.7	0.4	0.2	0.2	0.1	0.1	0.1
1	1.5 (1.0-2.9)	0.8 (0.5-1.6)	0.4 (0.3-0.8)	0.3 (0.2-0.7)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)
2	2.9 (1.4-6.1)	1.6 (0.8-3.3)	0.8 (0.4-1.8)	0.7 (0.3-1.4)	0.5 (0.3-1.1)	0.4 (0.2-0.9)	0.3 (0.2-0.7)
3	5.4 (2.2-11)	3.0 (1.2-5.8)	1.6 (0.6-3.2)	1.2 (0.5-2.5)	1.0 (0.4-1.9)	0.8 (0.3-1.5)	0.6 (0.2-1.2)
4	9.8 (3.9-16)	5.4 (2.1-8.8)	3.0 (1.1-4.8)	2.3 (0.9-3.8)	1.8 (0.7-2.9)	1.4 (0.5-2.3)	1.1 (0.4-1.8)
5	17 (8.1-23)	9.6 (4.5-13)	5.3 (2.4-7.2)	4.2 (1.9-5.6)	3.2 (1.5-4.4)	2.5 (1.1-3.4)	2.0 (0.9-2.7)
6	29	17	9.3	7.3	5.7	4.5	3.5

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.2	0.6	0.3	0.3	0.2	0.2	0.1
1	2.3 (1.5-4.0)	1.2 (0.8-2.2)	0.7 (0.5-1.2)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)	0.2 (0.2-0.4)
2	4.2 (2.3-8.3)	2.3 (1.3-4.6)	1.3 (0.7-2.5)	1.0 (0.5-1.9)	0.8 (0.4-1.5)	0.6 (0.3-1.2)	0.5 (0.3-0.9)
3	7.7 (3.5-14)	4.2 (1.9-7.9)	2.3 (1.0-4.4)	1.8 (0.8-3.4)	1.4 (0.6-2.7)	1.1 (0.5-2.1)	0.8 (0.4-1.6)
4	13 (6.1-21)	7.6 (3.4-12)	4.2 (1.8-6.6)	3.3 (1.4-5.2)	2.5 (1.1-4.0)	2.0 (0.9-3.1)	1.5 (0.7-2.4)
5	23 (13-29)	13 (7.1-17)	7.3 (3.9-9.8)	5.8 (3.0-7.7)	4.5 (2.4-6.0)	3.5 (1.8-4.7)	2.7 (1.4-3.7)
6	37	22	13	9.9	7.8	6.1	4.8

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.0	1.1	0.6	0.5	0.4	0.3	0.2
1	3.6 (2.6-5.6)	2.0 (1.4-3.1)	1.1 (0.8-1.7)	0.8 (0.6-1.3)	0.6 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)
2	6.4 (3.8-11)	3.6 (2.1-6.5)	2.0 (1.1-3.6)	1.5 (0.9-2.8)	1.2 (0.7-2.2)	0.9 (0.5-1.7)	0.7 (0.4-1.3)
3	11 (5.7-19)	6.3 (3.2-11)	3.5 (1.7-6.2)	2.7 (1.4-4.9)	2.1 (1.1-3.8)	1.7 (0.8-3.0)	1.3 (0.6-2.3)
4	19 (9.9-28)	11 (5.6-17)	6.1 (3.1-9.4)	4.8 (2.4-7.3)	3.7 (1.9-5.7)	2.9 (1.4-4.5)	2.3 (1.1-3.5)
5	30 (20-38)	18 (11-23)	11 (6.4-14)	8.3 (5.0-11)	6.5 (3.9-8.5)	5.1 (3.0-6.6)	3.9 (2.4-5.2)
6	46	30	18	14	11	8.6	6.7

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.6	2.0	1.1	0.9	0.7	0.5	0.4
1	6.3 (4.8-8.8)	3.6 (2.7-5.0)	2.0 (1.5-2.8)	1.5 (1.1-2.2)	1.2 (0.9-1.7)	0.9 (0.7-1.3)	0.7 (0.5-1.0)
2	11 (6.9-17)	6.2 (3.9-10)	3.5 (2.2-5.8)	2.7 (1.7-4.5)	2.1 (1.3-3.5)	1.6 (1.0-2.7)	1.3 (0.8-2.1)
3	18 (10-28)	11 (5.9-17)	6.0 (3.3-10)	4.7 (2.6-7.9)	3.7 (2.0-6.1)	2.8 (1.6-4.8)	2.2 (1.2-3.7)
4	28 (17-39)	17 (10-25)	10 (5.8-15)	8.0 (4.5-12)	6.2 (3.5-9.2)	4.9 (2.7-7.2)	3.8 (2.1-5.6)
5	42 (32-50)	28 (20-34)	17 (12-21)	13 (9.3-17)	10 (7.3-13)	8.2 (5.7-10)	6.4 (4.4-8.2)
6	59	42	27	21	17	14	11

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.0	4.1	2.3	1.8	1.4	1.1	0.8
1	12 (9.7-14)	7.3 (5.8-8.5)	4.2 (3.4-4.9)	3.3 (2.6-3.8)	2.5 (2.0-2.9)	2.0 (1.6-2.3)	1.5 (1.2-1.8)
2	21 (14-28)	13 (8.8-17)	7.6 (5.1-10)	6.0 (4.0-7.9)	4.6 (3.1-6.2)	3.6 (2.4-4.8)	2.8 (1.8-3.7)
3	34 (24-45)	22 (15-31)	13 (8.8-20)	11 (6.9-16)	8.3 (5.4-12)	6.5 (4.2-9.6)	5.0 (3.2-7.5)
4	50 (39-63)	36 (27-48)	23 (17-32)	18 (14-26)	15 (11-21)	11 (8.3-16)	9.0 (6.5-13)
5	67 (61-74)	53 (48-61)	37 (33-44)	30 (26-36)	25 (21-30)	20 (17-24)	16 (13-19)
6	79	71	56	47	39	32	26

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	7.2	4.3	3.3	2.6	2.0	1.5
1	21 (15-34)	14 (10-23)	8.4 (6.1-14)	6.5 (4.7-11)	5.1 (3.7-8.7)	3.9 (2.8-6.8)	3.1 (2.2-5.3)
2	34 (22-51)	24 (15-38)	16 (9.2-26)	12 (7.2-21)	9.6 (5.6-17)	7.5 (4.3-13)	5.9 (3.3-10)
3	50 (34-67)	39 (24-56)	27 (16-42)	22 (12-34)	17 (9.6-28)	14 (7.5-22)	11 (5.8-18)
4	66 (49-78)	57 (39-72)	43 (26-59)	36 (21-51)	30 (17-43)	24 (13-35)	19 (10-29)
5	77 (65-83)	72 (56-80)	62 (44-72)	54 (36-64)	46 (29-56)	39 (24-47)	32 (19-39)
6	85	83	79	72	65	57	49

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	10	6.6	5.1	3.9	3.0	2.3
1	25 (19-40)	18 (13-31)	12 (9.0-21)	9.5 (7.0-17)	7.4 (5.4-13)	5.7 (4.1-10)	4.4 (3.2-7.9)
2	38 (26-56)	30 (20-46)	21 (13-35)	17 (10-28)	13 (8.1-23)	10 (6.2-18)	8.1 (4.8-14)
3	52 (36-67)	44 (28-61)	34 (20-51)	28 (16-43)	22 (12-35)	18 (9.5-29)	14 (7.4-23)
4	65 (48-76)	59 (41-71)	50 (32-64)	42 (25-56)	35 (20-48)	29 (16-40)	23 (13-33)
5	75 (62-81)	72 (56-79)	65 (47-74)	58 (40-67)	51 (33-60)	43 (26-52)	36 (21-44)
6	81	81	78	72	66	59	51

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	11	8.0	6.2	4.7	3.6	2.8
1	25 (18-40)	20 (14-33)	14 (10-25)	11 (8.0-19)	8.7 (6.1-15)	6.7 (4.7-12)	5.1 (3.6-9.3)
2	37 (26-55)	31 (20-47)	24 (15-38)	19 (12-31)	15 (9.1-25)	12 (7.0-20)	9.1 (5.4-16)
3	50 (35-65)	44 (29-59)	36 (22-52)	30 (18-45)	24 (14-37)	19 (11-30)	15 (8.2-24)
4	63 (46-73)	58 (40-69)	51 (33-64)	44 (27-57)	37 (21-49)	30 (17-41)	24 (13-34)
5	72 (60-77)	70 (54-77)	65 (48-73)	58 (40-67)	51 (33-60)	43 (27-53)	36 (21-45)
6	76	78	76	71	65	58	50

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	10	7.4	5.7	4.3	3.3	2.5
1	22 (16-35)	17 (12-29)	13 (9.3-23)	10 (7.1-18)	7.9 (5.4-14)	6.0 (4.1-11)	4.6 (3.1-8.4)
2	32 (22-49)	27 (18-43)	22 (14-35)	17 (11-29)	13 (8.1-23)	10 (6.2-18)	8.1 (4.7-14)
3	45 (30-60)	39 (25-54)	33 (20-48)	27 (16-40)	22 (12-33)	17 (9.4-27)	13 (7.2-21)
4	57 (40-68)	52 (35-64)	46 (29-59)	39 (23-52)	33 (19-44)	27 (15-37)	21 (11-30)
5	65 (53-71)	64 (49-71)	60 (43-68)	53 (36-62)	46 (29-55)	39 (23-48)	32 (18-40)
6	69	72	71	66	59	52	45