

Norway - The probabilities of a hip fracture in men

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 Norway. 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	0.6	0.4	0.2	0.2	0.1	0.1	0.1
1	1.3 (0.8-2.5)	0.7 (0.5-1.4)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)
2	2.5 (1.2-5.2)	1.4 (0.7-2.9)	0.8 (0.4-1.6)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)	0.3 (0.1-0.6)
3	4.6 (1.9-9.0)	2.6 (1.1-5.1)	1.4 (0.6-2.8)	1.1 (0.4-2.2)	0.9 (0.3-1.7)	0.7 (0.3-1.3)	0.5 (0.2-1.0)
4	8.3 (3.3-13)	4.7 (1.9-7.7)	2.6 (1.0-4.3)	2.0 (0.8-3.4)	1.6 (0.6-2.6)	1.2 (0.5-2.0)	1.0 (0.4-1.6)
5	14 (6.7-19)	8.4 (3.8-11)	4.7 (2.1-6.4)	3.7 (1.7-5.0)	2.9 (1.3-3.9)	2.2 (1.0-3.0)	1.7 (0.8-2.3)
6	24	14	8.3	6.5	5.0	3.9	3.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.2	0.7	0.4	0.3	0.2	0.2	0.1
1	2.3 (1.6-4.0)	1.3 (0.9-2.2)	0.7 (0.5-1.2)	0.5 (0.4-1.0)	0.4 (0.3-0.7)	0.3 (0.2-0.6)	0.3 (0.2-0.5)
2	4.2 (2.3-7.9)	2.4 (1.3-4.6)	1.3 (0.7-2.6)	1.0 (0.6-2.0)	0.8 (0.4-1.6)	0.6 (0.3-1.2)	0.5 (0.3-0.9)
3	7.4 (3.4-14)	4.3 (2.0-8.0)	2.4 (1.1-4.6)	1.9 (0.8-3.5)	1.5 (0.7-2.8)	1.1 (0.5-2.1)	0.9 (0.4-1.7)
4	13 (6.0-20)	7.6 (3.4-12)	4.3 (1.9-6.9)	3.4 (1.5-5.4)	2.6 (1.2-4.2)	2.0 (0.9-3.2)	1.6 (0.7-2.5)
5	21 (12-27)	13 (6.9-17)	7.6 (4.0-10)	5.9 (3.1-7.8)	4.6 (2.4-6.1)	3.6 (1.9-4.7)	2.8 (1.4-3.7)
6	33	22	13	10	7.9	6.2	4.8

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.1	1.2	0.7	0.5	0.4	0.3	0.3
1	3.8 (2.8-6.1)	2.2 (1.6-3.5)	1.3 (0.9-2.0)	1.0 (0.7-1.6)	0.8 (0.5-1.2)	0.6 (0.4-0.9)	0.5 (0.3-0.7)
2	6.7 (3.9-12)	4.0 (2.3-7.1)	2.3 (1.3-4.1)	1.8 (1.0-3.2)	1.4 (0.8-2.5)	1.1 (0.6-1.9)	0.8 (0.5-1.5)
3	11 (6.0-19)	7.0 (3.5-12)	4.0 (2.0-7.2)	3.1 (1.6-5.6)	2.4 (1.2-4.3)	1.9 (0.9-3.4)	1.5 (0.7-2.6)
4	19 (10-28)	12 (6.2-18)	7.0 (3.6-11)	5.5 (2.8-8.4)	4.2 (2.1-6.5)	3.3 (1.7-5.1)	2.5 (1.3-4.0)
5	29 (19-35)	19 (12-24)	12 (7.2-15)	9.3 (5.6-12)	7.2 (4.3-9.3)	5.6 (3.4-7.3)	4.4 (2.6-5.7)
6	43	30	19	15	12	9.4	7.4

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.5	2.1	1.2	1.0	0.7	0.6	0.4
1	6.0 (4.6-8.5)	3.7 (2.8-5.2)	2.2 (1.6-3.1)	1.7 (1.3-2.4)	1.3 (1.0-1.8)	1.0 (0.8-1.4)	0.8 (0.6-1.1)
2	9.9 (6.3-15)	6.3 (3.9-9.9)	3.7 (2.3-6.1)	2.9 (1.8-4.7)	2.2 (1.4-3.7)	1.7 (1.1-2.8)	1.3 (0.8-2.2)
3	16 (9.4-25)	10 (5.9-17)	6.3 (3.6-10)	4.9 (2.8-8.2)	3.8 (2.1-6.4)	3.0 (1.6-4.9)	2.3 (1.3-3.8)
4	24 (16-34)	17 (10-24)	11 (6.2-15)	8.2 (4.8-12)	6.4 (3.7-9.5)	5.0 (2.9-7.4)	3.8 (2.2-5.8)
5	36 (26-42)	26 (18-31)	17 (12-21)	13 (9.3-17)	11 (7.2-13)	8.2 (5.6-10)	6.4 (4.3-8.0)
6	49	38	27	21	17	13	10

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.4	3.5	2.1	1.6	1.3	1.0	0.7
1	9.3 (7.0-11)	6.2 (4.7-7.3)	3.8 (3.0-4.5)	3.0 (2.3-3.5)	2.3 (1.8-2.7)	1.7 (1.4-2.1)	1.3 (1.0-1.6)
2	15 (10-22)	11 (7.1-15)	6.8 (4.5-9.3)	5.3 (3.5-7.2)	4.1 (2.7-5.6)	3.1 (2.1-4.4)	2.4 (1.6-3.4)
3	25 (17-34)	18 (12-25)	12 (7.8-17)	9.2 (6.1-13)	7.2 (4.7-11)	5.5 (3.6-8.2)	4.3 (2.8-6.3)
4	36 (26-47)	28 (20-38)	20 (14-28)	16 (11-22)	12 (8.6-18)	9.6 (6.6-14)	7.4 (5.1-11)
5	50 (44-58)	42 (36-50)	32 (27-38)	26 (22-31)	20 (17-25)	16 (13-20)	13 (10-16)
6	62	56	47	39	32	26	21

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.7	5.4	3.5	2.7	2.1	1.6	1.2
1	14 (9.4-23)	10 (7.0-17)	6.7 (4.7-12)	5.2 (3.6-9.0)	4.0 (2.8-7.0)	3.1 (2.1-5.4)	2.4 (1.6-4.2)
2	23 (14-36)	17 (10-28)	12 (7.1-20)	9.6 (5.5-16)	7.4 (4.2-12)	5.7 (3.2-9.6)	4.4 (2.5-7.4)
3	34 (20-50)	28 (16-42)	21 (12-32)	17 (9.4-26)	13 (7.3-21)	10 (5.6-16)	8.0 (4.2-13)
4	47 (31-61)	42 (26-55)	34 (20-47)	28 (16-40)	22 (12-33)	18 (9.5-26)	14 (7.3-21)
5	60 (44-69)	56 (39-65)	49 (32-59)	42 (26-51)	35 (21-44)	28 (16-36)	23 (13-30)
6	71	68	64	57	50	42	35

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.9	7.6	5.3	4.1	3.1	2.4	1.8
1	17 (12-28)	13 (9.3-23)	9.7 (6.9-17)	7.5 (5.3-13)	5.8 (4.0-10)	4.4 (3.1-8.0)	3.4 (2.3-6.2)
2	26 (16-41)	21 (14-35)	17 (10-27)	13 (7.9-22)	10 (6.0-17)	7.8 (4.6-14)	6.0 (3.5-11)
3	37 (23-51)	32 (20-46)	26 (15-40)	21 (12-33)	17 (9.2-26)	13 (7.1-21)	10 (5.4-17)
4	49 (32-61)	44 (28-57)	39 (23-51)	32 (18-44)	26 (14-36)	21 (11-30)	17 (8.5-24)
5	60 (44-68)	57 (40-65)	52 (35-61)	45 (29-54)	38 (23-47)	32 (18-40)	26 (14-33)
6	70	68	65	58	51	44	37

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	9.4	7.1	5.4	4.1	3.1	2.4
1	19 (14-32)	16 (11-27)	12 (8.8-22)	9.7 (6.7-17)	7.4 (5.1-13)	5.7 (3.9-10)	4.3 (2.9-7.9)
2	29 (19-45)	25 (16-40)	20 (13-33)	16 (9.9-27)	13 (7.6-22)	9.8 (5.8-17)	7.5 (4.4-13)
3	40 (26-55)	36 (22-51)	31 (19-45)	25 (15-37)	20 (11-31)	16 (8.8-25)	13 (6.7-20)
4	52 (35-64)	48 (31-60)	43 (27-55)	37 (21-48)	30 (17-41)	25 (13-34)	20 (10-28)
5	62 (48-69)	60 (44-68)	56 (39-65)	49 (33-58)	42 (26-51)	36 (21-44)	29 (17-37)
6	70	69	67	61	55	48	41

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	9.9	7.5	5.8	4.4	3.3	2.5
1	20 (15-34)	17 (12-28)	13 (9.2-23)	10 (7.1-18)	7.9 (5.4-14)	6.0 (4.1-11)	4.6 (3.1-8.4)
2	31 (21-47)	26 (17-41)	21 (14-35)	17 (10-28)	13 (8.0-23)	10 (6.1-18)	8.0 (4.6-14)
3	42 (28-57)	38 (24-52)	32 (20-46)	26 (15-39)	21 (12-32)	17 (9.3-26)	13 (7.1-21)
4	54 (38-65)	50 (33-62)	45 (28-57)	38 (23-50)	32 (18-43)	26 (14-36)	21 (11-29)
5	62 (50-68)	61 (46-69)	58 (41-66)	51 (34-60)	44 (28-53)	37 (22-46)	31 (18-39)
6	66	69	69	63	57	50	43