

Norway - 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 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	1.0	0.6	0.3	0.2	0.2	0.1	0.1
1	2.1 (1.3-4.0)	1.1 (0.7-2.2)	0.6 (0.4-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.1-0.4)
2	4.0 (2.0-8.4)	2.2 (1.1-4.6)	1.2 (0.6-2.5)	0.9 (0.5-2.0)	0.7 (0.4-1.5)	0.6 (0.3-1.2)	0.4 (0.2-0.9)
3	7.5 (3.1-14)	4.1 (1.7-8.1)	2.2 (0.9-4.4)	1.7 (0.7-3.4)	1.3 (0.5-2.7)	1.0 (0.4-2.1)	0.8 (0.3-1.6)
4	13 (5.4-21)	7.5 (2.9-12)	4.1 (1.6-6.7)	3.2 (1.2-5.2)	2.5 (1.0-4.1)	1.9 (0.7-3.2)	1.5 (0.6-2.5)
5	23 (11-30)	13 (6.2-18)	7.3 (3.4-9.9)	5.7 (2.6-7.8)	4.5 (2.0-6.1)	3.5 (1.6-4.7)	2.7 (1.2-3.7)
6	37	22	13	10	7.9	6.2	4.8

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.0	0.6	0.4	0.3	0.3	0.2
1	3.7 (2.5-6.4)	2.0 (1.4-3.5)	1.1 (0.7-1.9)	0.8 (0.6-1.5)	0.7 (0.4-1.2)	0.5 (0.3-0.9)	0.4 (0.3-0.7)
2	6.9 (3.8-13)	3.8 (2.1-7.4)	2.1 (1.1-4.1)	1.6 (0.9-3.2)	1.2 (0.7-2.5)	1.0 (0.5-1.9)	0.8 (0.4-1.5)
3	12 (5.7-22)	6.9 (3.1-13)	3.8 (1.7-7.1)	2.9 (1.3-5.5)	2.3 (1.0-4.3)	1.8 (0.8-3.4)	1.4 (0.6-2.6)
4	21 (9.9-32)	12 (5.5-19)	6.8 (3.0-11)	5.3 (2.3-8.3)	4.1 (1.8-6.5)	3.2 (1.4-5.1)	2.5 (1.1-4.0)
5	34 (20-43)	21 (11-27)	12 (6.3-16)	9.3 (4.9-12)	7.3 (3.8-9.7)	5.7 (3.0-7.6)	4.4 (2.3-5.9)
6	52	34	20	16	13	9.8	7.7

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.6	2.0	1.1	0.8	0.7	0.5	0.4
1	6.6 (4.7-10)	3.7 (2.6-5.7)	2.0 (1.4-3.1)	1.6 (1.1-2.4)	1.2 (0.9-1.9)	0.9 (0.7-1.5)	0.7 (0.5-1.1)
2	12 (7.0-20)	6.6 (3.9-12)	3.6 (2.1-6.6)	2.8 (1.7-5.1)	2.2 (1.3-4.0)	1.7 (1.0-3.1)	1.3 (0.8-2.4)
3	20 (10-33)	11 (5.9-20)	6.4 (3.2-11)	5.0 (2.5-8.9)	3.9 (2.0-7.0)	3.1 (1.5-5.5)	2.4 (1.2-4.3)
4	32 (18-45)	19 (10-29)	11 (5.6-17)	8.8 (4.4-13)	6.9 (3.4-10)	5.4 (2.7-8.2)	4.2 (2.1-6.4)
5	48 (33-58)	31 (20-39)	19 (12-24)	15 (9.2-19)	12 (7.2-15)	9.2 (5.6-12)	7.2 (4.4-9.5)
6	67	48	30	24	20	15	12

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.4	3.6	2.0	1.5	1.2	0.9	0.7
1	11 (8.3-15)	6.3 (4.7-8.7)	3.5 (2.6-4.9)	2.7 (2.0-3.8)	2.1 (1.6-2.9)	1.6 (1.2-2.3)	1.3 (0.9-1.8)
2	18 (12-29)	11 (6.9-17)	6.1 (3.8-10)	4.8 (3.0-7.9)	3.7 (2.3-6.2)	2.9 (1.8-4.8)	2.2 (1.4-3.7)
3	29 (18-44)	18 (10-29)	10 (5.8-17)	8.2 (4.5-13)	6.4 (3.5-11)	5.0 (2.8-8.3)	3.9 (2.1-6.5)
4	44 (29-58)	29 (18-40)	17 (10-25)	14 (7.9-20)	11 (6.2-16)	8.5 (4.8-12)	6.6 (3.8-9.8)
5	61 (49-70)	44 (33-52)	28 (20-34)	22 (16-28)	18 (13-22)	14 (9.9-18)	11 (7.7-14)
6	77	61	42	35	28	23	18

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	6.3	3.5	2.8	2.1	1.7	1.3
1	19 (15-22)	11 (9.1-13)	6.5 (5.2-7.5)	5.1 (4.1-5.8)	3.9 (3.1-4.5)	3.1 (2.4-3.5)	2.4 (1.9-2.7)
2	31 (22-40)	20 (13-26)	12 (7.8-15)	9.1 (6.1-12)	7.1 (4.8-9.4)	5.6 (3.7-7.4)	4.3 (2.9-5.8)
3	48 (35-61)	32 (23-45)	20 (13-29)	16 (11-23)	13 (8.3-19)	10 (6.5-15)	7.8 (5.0-12)
4	65 (54-77)	50 (40-63)	33 (26-45)	27 (21-37)	22 (16-30)	17 (13-24)	14 (10-20)
5	80 (76-85)	69 (63-76)	51 (46-59)	43 (38-50)	36 (31-42)	29 (25-35)	23 (20-28)
6	87	83	71	63	54	46	38

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	17	10	6.2	4.8	3.7	2.9	2.2
1	29 (22-46)	20 (15-32)	12 (8.8-20)	9.4 (6.9-16)	7.3 (5.4-12)	5.7 (4.2-9.8)	4.4 (3.2-7.6)
2	46 (31-64)	33 (21-51)	22 (13-36)	17 (10-29)	14 (8.1-23)	11 (6.3-19)	8.5 (4.9-15)
3	63 (47-78)	51 (34-69)	37 (22-54)	30 (17-46)	24 (14-38)	20 (11-31)	16 (8.4-25)
4	76 (63-85)	69 (51-82)	56 (36-72)	48 (29-64)	40 (23-55)	33 (19-47)	27 (15-39)
5	84 (76-88)	82 (69-87)	74 (57-82)	67 (48-76)	59 (40-69)	51 (33-60)	43 (27-52)
6	88	88	86	82	77	70	62

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	23	16	9.9	7.7	6.0	4.6	3.6
1	36 (28-54)	27 (20-43)	18 (14-30)	14 (11-24)	11 (8.3-19)	8.7 (6.4-15)	6.8 (4.9-12)
2	51 (38-69)	41 (29-60)	30 (20-48)	25 (16-40)	20 (12-33)	16 (9.6-26)	12 (7.4-21)
3	64 (50-77)	57 (40-73)	46 (29-65)	39 (23-57)	32 (18-48)	26 (14-41)	21 (11-33)
4	74 (61-83)	71 (55-80)	63 (44-76)	55 (36-69)	48 (30-62)	40 (24-54)	33 (19-45)
5	81 (72-85)	80 (69-85)	76 (61-83)	71 (53-78)	64 (45-73)	56 (38-66)	49 (31-58)
6	85	86	85	81	77	71	65

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	26	19	13	10	8.0	6.2	4.8
1	38 (30-56)	31 (24-48)	23 (17-38)	18 (14-31)	14 (11-25)	11 (8.1-20)	8.8 (6.3-15)
2	51 (39-69)	45 (33-63)	36 (25-54)	30 (20-46)	24 (15-38)	19 (12-31)	15 (9.4-25)
3	63 (50-76)	59 (44-73)	52 (35-68)	44 (28-61)	37 (23-53)	31 (18-46)	25 (14-38)
4	73 (60-81)	70 (55-80)	66 (49-77)	59 (41-71)	52 (34-65)	45 (28-58)	37 (22-50)
5	78 (71-82)	78 (68-83)	76 (63-82)	71 (56-79)	66 (49-74)	59 (41-68)	52 (34-61)
6	80	83	83	80	76	71	65

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	24	18	13	10	8.1	6.2	4.7
1	36 (28-53)	30 (22-46)	23 (17-37)	18 (13-31)	14 (10-25)	11 (7.9-19)	8.6 (6.0-15)
2	49 (37-66)	43 (31-61)	35 (24-53)	29 (19-45)	24 (15-38)	19 (12-31)	15 (9.0-25)
3	61 (47-74)	56 (41-71)	50 (34-65)	43 (27-58)	36 (22-51)	29 (17-43)	24 (13-36)
4	70 (57-78)	68 (53-78)	63 (46-74)	57 (39-69)	50 (32-62)	42 (26-55)	36 (21-47)
5	73 (68-77)	75 (65-80)	74 (61-80)	69 (54-76)	63 (46-71)	56 (39-65)	49 (32-58)
6	71	78	80	78	74	69	63