

Switzerland - 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 Switzerland. 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	0.3	0.2	0.1	0.1	0.1	0.1
1	1.2 (0.8-2.4)	0.7 (0.4-1.3)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)
2	2.3 (1.2-4.9)	1.3 (0.7-2.8)	0.7 (0.4-1.5)	0.6 (0.3-1.2)	0.4 (0.2-0.9)	0.3 (0.2-0.7)	0.3 (0.1-0.6)
3	4.3 (1.8-8.5)	2.5 (1.0-4.9)	1.4 (0.6-2.7)	1.1 (0.4-2.1)	0.8 (0.3-1.6)	0.6 (0.3-1.3)	0.5 (0.2-1.0)
4	7.8 (3.1-13)	4.5 (1.8-7.3)	2.5 (1.0-4.1)	2.0 (0.8-3.2)	1.5 (0.6-2.5)	1.2 (0.5-1.9)	0.9 (0.4-1.5)
5	13 (6.3-18)	7.9 (3.6-11)	4.5 (2.0-6.1)	3.5 (1.6-4.7)	2.7 (1.2-3.7)	2.1 (1.0-2.9)	1.6 (0.7-2.2)
6	22	14	7.9	6.2	4.8	3.7	2.9

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.0	0.5	0.3	0.2	0.2	0.1	0.1
1	1.8 (1.3-3.3)	1.0 (0.7-1.8)	0.6 (0.4-1.0)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.3 (0.2-0.5)	0.2 (0.1-0.4)
2	3.4 (1.8-6.5)	1.9 (1.1-3.8)	1.1 (0.6-2.1)	0.8 (0.5-1.7)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)
3	6.1 (2.8-11)	3.5 (1.6-6.6)	2.0 (0.9-3.8)	1.5 (0.7-2.9)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)
4	11 (4.9-17)	6.3 (2.8-9.9)	3.6 (1.6-5.7)	2.8 (1.2-4.4)	2.2 (1.0-3.4)	1.7 (0.7-2.7)	1.3 (0.6-2.1)
5	18 (9.5-23)	11 (5.7-14)	6.2 (3.3-8.2)	4.9 (2.5-6.4)	3.8 (2.0-5.0)	2.9 (1.5-3.9)	2.3 (1.2-3.0)
6	28	18	11	8.4	6.5	5.1	4.0

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	0.9	0.5	0.4	0.3	0.2	0.2
1	2.8 (2.0-4.4)	1.6 (1.2-2.6)	0.9 (0.7-1.5)	0.7 (0.5-1.1)	0.6 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)
2	4.8 (2.8-8.3)	2.9 (1.7-5.1)	1.7 (1.0-3.0)	1.3 (0.8-2.3)	1.0 (0.6-1.8)	0.8 (0.5-1.4)	0.6 (0.4-1.1)
3	8.3 (4.3-14)	5.1 (2.6-8.9)	3.0 (1.5-5.3)	2.3 (1.2-4.1)	1.8 (0.9-3.2)	1.4 (0.7-2.5)	1.1 (0.5-1.9)
4	14 (7.4-21)	8.6 (4.5-13)	5.1 (2.6-7.9)	4.0 (2.0-6.2)	3.1 (1.6-4.8)	2.4 (1.2-3.7)	1.8 (0.9-2.9)
5	22 (13-27)	14 (8.6-18)	8.7 (5.2-11)	6.8 (4.1-8.8)	5.3 (3.1-6.8)	4.1 (2.4-5.3)	3.2 (1.9-4.1)
6	33	23	14	11	8.9	6.9	5.4

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.5	1.5	0.9	0.7	0.5	0.4	0.3
1	4.2 (3.2-6.0)	2.6 (2.0-3.7)	1.5 (1.2-2.2)	1.2 (0.9-1.7)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.5 (0.4-0.8)
2	7.0 (4.4-11)	4.4 (2.8-7.0)	2.7 (1.7-4.3)	2.1 (1.3-3.4)	1.6 (1.0-2.6)	1.2 (0.8-2.0)	0.9 (0.6-1.5)
3	11 (6.6-18)	7.4 (4.2-12)	4.5 (2.5-7.5)	3.5 (2.0-5.8)	2.7 (1.5-4.5)	2.1 (1.2-3.5)	1.6 (0.9-2.7)
4	18 (11-25)	12 (7.3-18)	7.6 (4.4-11)	5.9 (3.4-8.8)	4.5 (2.6-6.8)	3.5 (2.0-5.3)	2.7 (1.6-4.1)
5	26 (19-32)	19 (13-23)	12 (8.5-15)	9.6 (6.6-12)	7.5 (5.1-9.4)	5.8 (3.9-7.3)	4.5 (3.0-5.6)
6	38	29	20	15	12	9.4	7.3

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.9	2.6	1.6	1.2	0.9	0.7	0.6
1	6.6 (4.9-8.0)	4.5 (3.4-5.4)	2.9 (2.2-3.4)	2.2 (1.7-2.6)	1.7 (1.3-2.0)	1.3 (1.0-1.5)	1.0 (0.8-1.2)
2	11 (7.4-16)	7.8 (5.2-11)	5.1 (3.4-7.1)	3.9 (2.6-5.5)	3.0 (2.0-4.2)	2.3 (1.5-3.3)	1.8 (1.2-2.5)
3	18 (12-26)	13 (8.7-19)	8.8 (5.8-13)	6.9 (4.5-10)	5.3 (3.5-7.8)	4.1 (2.7-6.0)	3.1 (2.0-4.6)
4	27 (19-37)	21 (15-30)	15 (10-21)	12 (8.1-17)	9.1 (6.2-13)	7.0 (4.8-10)	5.4 (3.6-8.0)
5	39 (33-47)	32 (27-40)	24 (20-30)	19 (16-24)	15 (13-19)	12 (9.8-15)	9.2 (7.5-12)
6	52	46	37	30	24	19	15

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.1	4.4	3.0	2.3	1.7	1.3	1.0
1	11 (7.3-19)	8.2 (5.6-14)	5.7 (3.9-9.9)	4.4 (3.0-7.7)	3.3 (2.3-5.9)	2.6 (1.7-4.5)	1.9 (1.3-3.5)
2	18 (11-30)	14 (8.4-24)	10 (5.9-17)	8.0 (4.5-13)	6.2 (3.5-10)	4.7 (2.6-8.1)	3.6 (2.0-6.2)
3	28 (16-43)	23 (13-36)	18 (9.9-28)	14 (7.6-22)	11 (5.8-17)	8.5 (4.4-14)	6.5 (3.4-11)
4	40 (25-54)	35 (21-48)	29 (16-41)	23 (13-34)	18 (9.9-28)	15 (7.6-22)	11 (5.8-17)
5	54 (37-63)	49 (32-58)	43 (27-52)	36 (21-45)	29 (17-37)	23 (13-31)	19 (10-25)
6	66	62	57	50	43	35	29

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.6	6.7	4.8	3.7	2.8	2.1	1.6
1	15 (10-25)	12 (8.1-20)	8.7 (6.1-15)	6.7 (4.7-12)	5.1 (3.5-9.3)	3.9 (2.7-7.1)	3.0 (2.0-5.5)
2	23 (15-37)	19 (12-32)	15 (9.1-25)	12 (7.0-20)	9.0 (5.3-16)	6.9 (4.1-12)	5.3 (3.1-9.4)
3	34 (21-48)	29 (17-42)	24 (14-36)	19 (11-29)	15 (8.1-24)	12 (6.2-19)	9.0 (4.7-15)
4	46 (29-58)	41 (25-53)	35 (21-47)	29 (16-40)	24 (13-33)	19 (9.7-27)	15 (7.4-21)
5	58 (42-66)	54 (37-63)	49 (32-58)	41 (26-51)	35 (20-43)	28 (16-36)	23 (12-30)
6	68	66	62	55	48	40	33

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	8.2	6.1	4.7	3.6	2.7	2.0
1	17 (12-29)	14 (9.8-24)	11 (7.6-19)	8.4 (5.8-15)	6.5 (4.4-12)	4.9 (3.3-9.0)	3.7 (2.5-6.9)
2	27 (18-42)	22 (14-36)	18 (11-30)	14 (8.6-24)	11 (6.6-19)	8.6 (5.0-15)	6.6 (3.8-12)
3	38 (25-53)	33 (21-47)	28 (17-41)	23 (13-34)	18 (10-28)	14 (7.7-22)	11 (5.8-18)
4	50 (34-62)	46 (29-58)	40 (24-52)	34 (19-45)	28 (15-38)	22 (12-31)	18 (8.9-25)
5	61 (47-68)	58 (42-66)	53 (36-62)	46 (30-56)	39 (24-48)	33 (19-41)	27 (15-34)
6	68	68	66	59	53	45	38

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	8.1	6.2	4.7	3.6	2.7	2.0
1	17 (12-29)	14 (9.7-24)	11 (7.6-19)	8.4 (5.8-15)	6.5 (4.4-12)	4.9 (3.3-9.0)	3.7 (2.5-6.9)
2	26 (17-42)	22 (14-36)	18 (11-30)	14 (8.6-24)	11 (6.6-19)	8.5 (5.0-15)	6.5 (3.8-12)
3	37 (24-52)	33 (20-47)	28 (17-41)	23 (13-34)	18 (9.9-28)	14 (7.6-22)	11 (5.8-17)
4	49 (33-61)	45 (28-57)	40 (24-52)	33 (19-45)	27 (15-37)	22 (12-31)	17 (8.8-25)
5	58 (45-65)	57 (41-65)	53 (36-62)	46 (29-55)	39 (24-48)	32 (19-41)	26 (15-34)
6	63	65	64	58	52	45	38