

Belgium - 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 Belgium. 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	0.9	0.5	0.3	0.2	0.2	0.1	0.1
1	1.8 (1.2-3.4)	1.0 (0.6-1.9)	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	3.4 (1.7-7.3)	1.9 (0.9-4.0)	1.0 (0.5-2.2)	0.8 (0.4-1.7)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)
3	6.4 (2.6-12)	3.5 (1.4-6.9)	1.9 (0.8-3.8)	1.5 (0.6-2.9)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)
4	12 (4.6-18)	6.4 (2.5-10)	3.5 (1.4-5.7)	2.7 (1.1-4.5)	2.1 (0.8-3.5)	1.7 (0.6-2.7)	1.3 (0.5-2.1)
5	20 (9.6-26)	11 (5.3-15)	6.3 (2.9-8.5)	4.9 (2.3-6.7)	3.9 (1.8-5.2)	3.0 (1.4-4.1)	2.3 (1.1-3.2)
6	33	20	11	8.7	6.8	5.3	4.2

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	0.8	0.4	0.3	0.3	0.2	0.2
1	2.8 (1.9-4.9)	1.5 (1.0-2.7)	0.8 (0.6-1.4)	0.6 (0.4-1.1)	0.5 (0.3-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)
2	5.3 (2.9-10)	2.9 (1.6-5.7)	1.6 (0.8-3.1)	1.2 (0.7-2.4)	0.9 (0.5-1.9)	0.7 (0.4-1.5)	0.6 (0.3-1.1)
3	9.5 (4.4-17)	5.3 (2.4-9.8)	2.9 (1.3-5.4)	2.2 (1.0-4.2)	1.7 (0.8-3.3)	1.4 (0.6-2.6)	1.1 (0.5-2.0)
4	16 (7.6-25)	9.4 (4.2-15)	5.2 (2.3-8.1)	4.0 (1.8-6.4)	3.1 (1.4-5.0)	2.5 (1.1-3.9)	1.9 (0.8-3.0)
5	27 (15-35)	16 (8.7-21)	9.1 (4.8-12)	7.1 (3.8-9.5)	5.6 (2.9-7.4)	4.4 (2.3-5.8)	3.4 (1.8-4.5)
6	43	27	15	12	9.6	7.6	5.9

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.3	1.3	0.7	0.5	0.4	0.3	0.3
1	4.3 (3.1-6.7)	2.4 (1.7-3.7)	1.3 (0.9-2.0)	1.0 (0.7-1.6)	0.8 (0.6-1.2)	0.6 (0.4-0.9)	0.5 (0.3-0.7)
2	7.7 (4.5-14)	4.3 (2.5-7.7)	2.3 (1.4-4.3)	1.8 (1.1-3.3)	1.4 (0.8-2.6)	1.1 (0.6-2.0)	0.9 (0.5-1.6)
3	13 (6.8-23)	7.5 (3.8-13)	4.2 (2.1-7.4)	3.3 (1.6-5.8)	2.5 (1.3-4.5)	2.0 (1.0-3.5)	1.5 (0.8-2.7)
4	22 (12-32)	13 (6.6-19)	7.3 (3.7-11)	5.7 (2.8-8.7)	4.5 (2.2-6.8)	3.5 (1.7-5.3)	2.7 (1.3-4.2)
5	35 (23-44)	22 (14-27)	12 (7.6-16)	9.8 (6.0-13)	7.7 (4.7-10)	6.0 (3.6-7.9)	4.7 (2.8-6.2)
6	52	34	21	16	13	10	8.0

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.8	2.1	1.2	0.9	0.7	0.6	0.4
1	6.7 (5.0-9.3)	3.8 (2.8-5.3)	2.1 (1.5-2.9)	1.6 (1.2-2.3)	1.3 (0.9-1.8)	1.0 (0.7-1.4)	0.8 (0.6-1.1)
2	11 (7.3-18)	6.5 (4.1-11)	3.7 (2.3-6.1)	2.8 (1.8-4.7)	2.2 (1.4-3.7)	1.7 (1.1-2.9)	1.3 (0.8-2.2)
3	19 (11-30)	11 (6.2-18)	6.3 (3.5-10)	4.9 (2.7-8.2)	3.8 (2.1-6.4)	3.0 (1.6-5.0)	2.3 (1.3-3.9)
4	30 (18-41)	18 (11-26)	11 (6.1-16)	8.4 (4.8-12)	6.5 (3.7-9.6)	5.1 (2.9-7.6)	4.0 (2.2-5.9)
5	44 (33-52)	29 (21-36)	18 (12-22)	14 (9.7-18)	11 (7.6-14)	8.6 (6.0-11)	6.7 (4.6-8.6)
6	61	44	28	22	18	14	11

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.1	4.1	2.3	1.8	1.4	1.1	0.8
1	12 (9.9-14)	7.4 (5.9-8.6)	4.2 (3.4-4.9)	3.3 (2.6-3.8)	2.6 (2.0-3.0)	2.0 (1.6-2.3)	1.5 (1.2-1.8)
2	21 (15-28)	13 (8.9-17)	7.7 (5.1-10)	6.0 (4.0-8.0)	4.7 (3.1-6.2)	3.6 (2.4-4.8)	2.8 (1.9-3.8)
3	34 (24-46)	22 (15-32)	14 (8.9-20)	11 (7.0-16)	8.4 (5.4-12)	6.5 (4.2-9.8)	5.1 (3.3-7.6)
4	51 (40-64)	36 (28-48)	23 (17-32)	19 (14-26)	15 (11-21)	12 (8.4-17)	9.1 (6.6-13)
5	68 (62-75)	54 (48-62)	38 (33-44)	31 (27-37)	25 (21-30)	20 (17-24)	16 (13-19)
6	80	72	56	48	40	33	26

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	8.0	4.7	3.7	2.8	2.2	1.7
1	23 (17-37)	15 (11-25)	9.2 (6.8-16)	7.2 (5.3-12)	5.6 (4.1-9.6)	4.4 (3.2-7.5)	3.4 (2.4-5.8)
2	37 (25-54)	27 (16-42)	17 (10-29)	14 (7.9-23)	11 (6.2-18)	8.3 (4.8-14)	6.5 (3.7-11)
3	54 (38-70)	42 (27-59)	30 (17-45)	24 (14-37)	19 (11-30)	15 (8.3-24)	12 (6.4-19)
4	68 (53-79)	60 (42-75)	47 (29-63)	39 (23-54)	32 (18-46)	26 (14-38)	21 (11-31)
5	79 (67-84)	75 (60-82)	66 (47-75)	58 (39-68)	50 (32-59)	42 (26-51)	35 (21-43)
6	85	84	81	75	68	61	52

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	20	14	8.6	6.7	5.2	4.0	3.1
1	32 (25-49)	24 (18-38)	16 (12-27)	12 (9.2-21)	9.7 (7.2-17)	7.6 (5.5-13)	5.9 (4.3-10)
2	46 (34-64)	37 (26-55)	27 (17-43)	22 (14-36)	17 (11-29)	14 (8.3-23)	11 (6.4-18)
3	59 (45-74)	53 (36-69)	42 (25-60)	35 (20-52)	28 (16-44)	23 (13-36)	18 (9.8-30)
4	70 (56-80)	66 (50-77)	58 (39-72)	51 (32-65)	43 (26-57)	36 (21-49)	30 (17-41)
5	78 (68-83)	77 (64-82)	73 (57-80)	66 (49-75)	59 (41-68)	52 (34-61)	44 (27-53)
6	83	83	82	78	73	67	60

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	24	17	12	9.1	7.0	5.4	4.2
1	36 (28-54)	29 (22-45)	21 (15-34)	16 (12-28)	13 (9.4-22)	10 (7.2-17)	7.8 (5.6-14)
2	50 (37-67)	43 (30-61)	33 (22-50)	27 (18-42)	22 (14-35)	17 (11-28)	14 (8.3-23)
3	62 (48-75)	57 (41-72)	49 (32-66)	41 (26-58)	34 (20-50)	28 (16-43)	23 (13-35)
4	72 (58-81)	69 (53-79)	64 (46-75)	57 (39-69)	49 (32-62)	42 (26-55)	35 (20-47)
5	78 (70-82)	78 (67-83)	75 (61-82)	70 (54-78)	64 (46-72)	57 (39-66)	49 (32-59)
6	80	83	83	80	75	70	64

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	16	12	9.1	7.0	5.4	4.1
1	33 (25-49)	27 (20-42)	20 (15-34)	16 (12-27)	13 (9.0-22)	9.8 (6.9-17)	7.6 (5.3-13)
2	45 (33-63)	39 (28-57)	32 (22-49)	26 (17-41)	21 (13-34)	17 (10-28)	13 (7.9-22)
3	58 (43-72)	53 (38-68)	46 (31-62)	39 (25-55)	33 (19-47)	27 (15-40)	21 (12-33)
4	68 (54-77)	65 (49-76)	60 (43-72)	53 (35-66)	46 (29-59)	39 (23-51)	32 (18-44)
5	73 (65-77)	74 (62-79)	72 (57-78)	66 (50-74)	60 (42-68)	53 (35-62)	46 (29-55)
6	74	78	79	76	71	66	59