

Belgium - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip fracture according to the T-score for femoral neck BMD, 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.

Note that the BMI is set at 24 kg/m².

Age = 50 years

Number of CRFs	BMD T-score (femoral neck)											
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0	
0	14	7.3	3.8	2.0	1.0	0.5	0.3	0.1	0.1	0.0	0.0	
1	22 (15-27)	12 (7.7-15)	6.1 (4.0-8.0)	3.2 (2.1-4.1)	1.6 (1.1-2.1)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	
2	32 (20-45)	18 (11-26)	9.6 (5.6-14)	5.0 (2.9-7.7)	2.6 (1.5-4.0)	1.3 (0.8-2.0)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
3	45 (29-64)	27 (16-41)	15 (8.5-24)	7.9 (4.4-13)	4.1 (2.3-6.8)	2.1 (1.2-3.5)	1.1 (0.6-1.8)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	
4	61 (45-79)	39 (26-55)	22 (14-34)	12 (7.6-19)	6.4 (3.9-10)	3.3 (2.0-5.3)	1.7 (1.0-2.8)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	
5	76 (67-88)	53 (43-68)	33 (25-44)	18 (14-26)	9.9 (7.2-14)	5.2 (3.8-7.5)	2.7 (1.9-3.9)	1.4 (1.0-2.0)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	
6	89	70	46	27	15	7.9	4.1	2.1	1.1	0.6	0.3	

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

Age = 55 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	7.5	4.1	2.2	1.2	0.6	0.3	0.2	0.1	0.1	0.0
1	21 (14-25)	12 (7.8-14)	6.4 (4.3-7.9)	3.5 (2.3-4.3)	1.9 (1.2-2.3)	1.0 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	30 (19-41)	18 (11-25)	10 (6.0-14)	5.5 (3.3-7.9)	3.0 (1.8-4.3)	1.6 (1.0-2.3)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	43 (28-60)	26 (16-39)	15 (9.1-23)	8.5 (5.0-13)	4.6 (2.7-7.4)	2.5 (1.5-4.0)	1.4 (0.8-2.2)	0.8 (0.4-1.2)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	57 (43-74)	38 (26-53)	23 (15-33)	13 (8.5-20)	7.1 (4.6-11)	3.9 (2.5-6.1)	2.1 (1.4-3.3)	1.2 (0.8-1.9)	0.7 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	73 (65-85)	51 (43-65)	32 (26-44)	19 (15-27)	11 (8.5-15)	5.9 (4.7-8.5)	3.2 (2.5-4.7)	1.8 (1.4-2.6)	1.0 (0.8-1.5)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
6	86	67	45	28	16	9.0	4.9	2.8	1.5	0.9	0.5

Age = 60 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	7.4	4.2	2.4	1.3	0.7	0.4	0.2	0.1	0.1	0.1
1	19 (14-23)	11 (7.8-13)	6.5 (4.4-7.7)	3.7 (2.5-4.4)	2.1 (1.4-2.5)	1.2 (0.8-1.4)	0.7 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	28 (19-37)	17 (11-23)	9.9 (6.2-14)	5.7 (3.5-7.8)	3.2 (2.0-4.4)	1.8 (1.1-2.5)	1.0 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	40 (27-55)	25 (16-36)	15 (9.3-22)	8.6 (5.3-13)	4.9 (3.0-7.5)	2.8 (1.7-4.3)	1.6 (1.0-2.4)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	54 (42-69)	35 (26-49)	22 (16-32)	13 (9.0-19)	7.4 (5.1-11)	4.2 (2.9-6.4)	2.4 (1.6-3.7)	1.4 (1.0-2.1)	0.8 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	68 (62-80)	48 (42-61)	31 (26-42)	19 (16-26)	11 (9.1-16)	6.4 (5.2-9.0)	3.6 (3.0-5.2)	2.1 (1.7-3.0)	1.2 (1.0-1.8)	0.7 (0.6-1.0)	0.4 (0.3-0.6)
6	82	63	43	27	16	9.4	5.5	3.2	1.9	1.1	0.6

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

Age = 65 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	13	7.9	4.7	2.7	1.6	0.9	0.6	0.3	0.2	0.1	0.1
1	20 (14-23)	12 (8.3-14)	7.1 (4.9-8.5)	4.2 (2.9-5.0)	2.4 (1.7-2.9)	1.4 (1.0-1.7)	0.8 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	28 (19-35)	18 (12-23)	11 (6.9-14)	6.3 (4.1-8.3)	3.7 (2.4-4.9)	2.2 (1.4-2.9)	1.3 (0.8-1.7)	0.8 (0.5-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	39 (28-51)	25 (17-35)	16 (10-22)	9.4 (6.1-14)	5.6 (3.6-8.1)	3.3 (2.1-4.8)	2.0 (1.3-2.9)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
4	52 (42-66)	35 (27-47)	23 (17-32)	14 (10-20)	8.3 (6.0-12)	4.9 (3.5-7.2)	3.0 (2.1-4.4)	1.8 (1.3-2.7)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
5	65 (59-77)	47 (41-59)	32 (27-41)	20 (17-27)	12 (10-17)	7.3 (5.9-10)	4.4 (3.6-6.2)	2.7 (2.2-3.8)	1.6 (1.3-2.3)	1.0 (0.8-1.4)	0.6 (0.5-0.8)
6	78	61	43	28	18	11	6.5	4.0	2.4	1.5	0.9

Age = 70 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	16	10	6.2	3.8	2.3	1.4	0.9	0.6	0.4	0.2	0.1
1	25 (22-31)	16 (14-20)	10 (8.6-13)	6.3 (5.3-7.9)	3.8 (3.2-4.8)	2.4 (2.0-3.0)	1.5 (1.3-1.9)	0.9 (0.8-1.2)	0.6 (0.5-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
2	38 (31-48)	25 (20-33)	16 (13-22)	10 (8.0-14)	6.4 (4.9-8.7)	4.0 (3.0-5.4)	2.5 (1.9-3.4)	1.6 (1.2-2.2)	1.0 (0.8-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
3	54 (43-63)	38 (29-47)	26 (19-33)	17 (12-22)	10 (7.5-14)	6.6 (4.7-8.9)	4.2 (2.9-5.7)	2.6 (1.9-3.6)	1.7 (1.2-2.3)	1.0 (0.7-1.4)	0.7 (0.5-0.9)
4	69 (60-76)	54 (43-61)	38 (30-45)	26 (19-31)	17 (12-21)	11 (7.7-13)	6.9 (4.9-8.7)	4.4 (3.1-5.6)	2.8 (2.0-3.5)	1.7 (1.2-2.2)	1.1 (0.8-1.4)
5	82 (76-84)	70 (62-74)	54 (46-59)	39 (32-43)	26 (21-30)	17 (14-20)	11 (8.8-13)	7.2 (5.6-8.3)	4.6 (3.6-5.3)	2.9 (2.3-3.4)	1.8 (1.4-2.1)
6	88	82	70	54	39	27	18	12	7.5	4.8	3.0

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

Age = 75 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	13	8.7	5.6	3.6	2.4	1.6	1.0	0.7	0.4	0.3
1	34 (27-60)	24 (18-45)	16 (12-32)	11 (7.9-22)	7.0 (5.0-15)	4.7 (3.3-9.9)	3.1 (2.2-6.6)	2.1 (1.4-4.4)	1.4 (1.0-2.9)	0.9 (0.6-1.9)	0.6 (0.4-1.3)
2	51 (36-75)	39 (25-62)	28 (17-48)	19 (11-35)	13 (7.1-24)	8.7 (4.7-17)	5.9 (3.1-12)	3.9 (2.1-7.8)	2.6 (1.4-5.2)	1.7 (0.9-3.4)	1.1 (0.6-2.3)
3	67 (49-83)	55 (35-74)	43 (24-62)	31 (16-48)	22 (11-35)	15 (7.1-26)	10 (4.7-18)	7.1 (3.1-12)	4.7 (2.1-8.3)	3.2 (1.4-5.6)	2.1 (0.9-3.7)
4	79 (63-87)	71 (49-82)	60 (36-73)	47 (25-61)	35 (17-48)	25 (11-36)	18 (7.7-26)	12 (5.1-18)	8.4 (3.4-12)	5.6 (2.3-8.4)	3.7 (1.5-5.6)
5	86 (75-90)	82 (64-86)	75 (51-80)	64 (38-71)	51 (27-58)	39 (19-46)	29 (13-34)	21 (8.9-25)	14 (6.0-17)	9.7 (4.0-12)	6.5 (2.6-7.9)
6	90	88	85	79	69	57	44	33	23	16	11

Age = 80 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	24	17	11	7.8	5.3	3.7	2.6	1.8	1.2	0.8	0.6
1	38 (30-63)	28 (21-51)	20 (15-40)	14 (10-29)	10 (6.9-21)	7.1 (4.9-15)	5.0 (3.4-11)	3.5 (2.3-7.5)	2.4 (1.6-5.3)	1.7 (1.1-3.7)	1.2 (0.8-2.5)
2	53 (38-74)	43 (28-65)	33 (20-55)	24 (14-43)	18 (9.7-33)	13 (6.8-24)	9.1 (4.8-18)	6.4 (3.3-13)	4.5 (2.3-9.0)	3.2 (1.6-6.4)	2.2 (1.1-4.4)
3	66 (50-81)	57 (39-75)	47 (29-66)	37 (20-55)	28 (14-44)	21 (10-34)	16 (7.2-26)	11 (5.0-19)	8.0 (3.5-14)	5.6 (2.4-9.9)	3.9 (1.7-7.0)
4	77 (62-85)	70 (51-81)	62 (40-74)	52 (30-65)	42 (21-55)	33 (16-45)	25 (11-36)	19 (7.9-27)	13 (5.5-20)	9.6 (3.9-15)	6.8 (2.7-10)
5	84 (71-87)	80 (63-84)	74 (53-79)	66 (42-73)	57 (32-65)	48 (24-55)	38 (18-45)	29 (13-35)	22 (9.3-27)	16 (6.6-20)	11 (4.6-14)
6	87	86	82	78	71	63	53	43	33	25	18

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

Age = 85 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	22	16	12	8.5	6.2	4.6	3.4	2.5	1.8	1.3	0.9
1	35 (28-60)	27 (21-50)	21 (15-40)	15 (11-31)	12 (8.1-24)	8.7 (6.0-18)	6.5 (4.4-14)	4.8 (3.2-10)	3.5 (2.4-7.5)	2.6 (1.7-5.5)	1.9 (1.2-4.1)
2	50 (36-71)	41 (28-63)	33 (21-54)	25 (15-44)	20 (11-36)	15 (8.4-28)	11 (6.2-22)	8.6 (4.5-17)	6.4 (3.3-12)	4.7 (2.4-9.3)	3.4 (1.8-6.9)
3	63 (46-78)	55 (37-72)	47 (29-65)	38 (22-56)	31 (17-47)	24 (12-38)	19 (9.3-31)	15 (6.8-24)	11 (5.0-18)	8.2 (3.7-14)	6.1 (2.7-10)
4	73 (58-82)	68 (49-78)	60 (39-73)	52 (31-65)	44 (24-57)	37 (18-49)	30 (14-40)	23 (10-33)	18 (7.7-26)	14 (5.7-20)	10 (4.2-15)
5	81 (67-85)	77 (60-82)	72 (51-78)	66 (42-72)	59 (34-66)	51 (27-58)	43 (21-50)	35 (16-42)	28 (12-34)	22 (9.3-27)	17 (6.9-21)
6	85	83	81	76	71	65	58	49	41	33	26

Age = 90 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	17	13	9.6	7.4	5.8	4.5	3.5	2.7	2.1	1.6	1.2
1	27 (21-49)	22 (16-41)	17 (12-34)	13 (9.6-27)	11 (7.5-22)	8.4 (5.9-18)	6.6 (4.5-14)	5.1 (3.5-11)	4.0 (2.7-8.6)	3.1 (2.1-6.7)	2.4 (1.6-5.2)
2	40 (28-60)	33 (22-53)	27 (17-45)	22 (13-38)	18 (10-32)	14 (8.2-26)	11 (6.4-21)	9.1 (5.0-17)	7.1 (3.8-14)	5.6 (3.0-11)	4.3 (2.3-8.5)
3	53 (36-69)	46 (29-63)	39 (23-56)	33 (18-49)	28 (15-42)	23 (12-36)	19 (9.2-30)	15 (7.3-25)	12 (5.7-20)	9.5 (4.4-16)	7.5 (3.4-13)
4	65 (46-75)	59 (39-71)	52 (32-65)	46 (26-58)	40 (21-52)	34 (17-45)	29 (14-38)	24 (11-32)	19 (8.5-27)	15 (6.6-22)	12 (5.2-18)
5	74 (56-79)	70 (49-75)	65 (42-71)	59 (35-65)	53 (30-60)	47 (25-54)	41 (20-47)	35 (16-41)	29 (13-35)	24 (10-29)	20 (8.2-24)
6	80	78	75	71	66	61	55	48	42	35	29