

Netherlands - The probabilities of a hip fracture in men

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 Netherlands. 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	12	6.6	3.5	1.9	1.0	0.5	0.3	0.1	0.1	0.0	0.0	
1	19 (13-24)	10 (7.0-14)	5.6 (3.7-7.4)	3.0 (2.0-3.9)	1.6 (1.0-2.1)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	
2	28 (18-40)	16 (9.7-24)	8.8 (5.2-13)	4.7 (2.8-7.2)	2.5 (1.5-3.8)	1.3 (0.8-2.0)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
3	40 (26-57)	24 (14-37)	14 (7.9-22)	7.4 (4.2-12)	4.0 (2.2-6.5)	2.1 (1.2-3.4)	1.1 (0.6-1.8)	0.6 (0.3-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	
4	55 (40-72)	35 (23-50)	20 (13-31)	11 (7.1-18)	6.1 (3.8-9.7)	3.3 (2.0-5.2)	1.7 (1.0-2.8)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	
5	70 (60-82)	48 (39-62)	30 (23-41)	17 (13-24)	9.4 (6.9-13)	5.0 (3.7-7.3)	2.7 (1.9-3.9)	1.4 (1.0-2.1)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	
6	83	64	42	25	14	7.7	4.1	2.2	1.2	0.6	0.3	

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

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	7.2	4.0	2.2	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	19 (13-24)	11 (7.6-14)	6.2 (4.2-7.7)	3.4 (2.3-4.3)	1.9 (1.3-2.3)	1.0 (0.7-1.3)	0.6 (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	28 (19-39)	17 (11-24)	9.6 (5.9-14)	5.4 (3.3-7.7)	3.0 (1.8-4.3)	1.6 (1.0-2.4)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	40 (27-55)	25 (16-36)	14 (8.9-22)	8.2 (4.9-13)	4.6 (2.7-7.1)	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	53 (41-69)	35 (25-49)	21 (15-31)	12 (8.2-19)	7.0 (4.6-11)	3.9 (2.5-6.0)	2.1 (1.4-3.3)	1.2 (0.8-1.8)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	68 (60-79)	48 (40-60)	31 (25-41)	18 (14-25)	10 (8.2-15)	5.9 (4.6-8.4)	3.2 (2.5-4.7)	1.8 (1.4-2.6)	1.0 (0.8-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
6	80	62	42	26	15	8.8	4.9	2.7	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	12	7.3	4.3	2.5	1.5	0.8	0.5	0.3	0.2	0.1	0.1
1	18 (13-21)	11 (7.7-13)	6.6 (4.5-7.7)	3.9 (2.6-4.5)	2.2 (1.5-2.6)	1.3 (0.9-1.5)	0.8 (0.5-0.9)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	26 (18-34)	16 (11-22)	9.9 (6.3-13)	5.9 (3.7-8.0)	3.4 (2.2-4.7)	2.0 (1.3-2.8)	1.2 (0.7-1.6)	0.7 (0.4-0.9)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
3	36 (26-48)	24 (16-33)	15 (9.5-21)	8.8 (5.6-13)	5.2 (3.3-7.7)	3.0 (1.9-4.5)	1.8 (1.1-2.7)	1.0 (0.6-1.6)	0.6 (0.4-0.9)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
4	48 (38-61)	33 (25-44)	21 (15-30)	13 (9.2-19)	7.8 (5.4-11)	4.6 (3.2-6.8)	2.7 (1.9-4.0)	1.6 (1.1-2.4)	0.9 (0.7-1.4)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
5	61 (55-72)	44 (39-55)	30 (25-39)	19 (16-25)	11 (9.5-16)	6.8 (5.7-9.6)	4.0 (3.3-5.7)	2.4 (1.9-3.3)	1.4 (1.2-2.0)	0.8 (0.7-1.2)	0.5 (0.4-0.7)
6	73	57	40	26	17	10	6.0	3.5	2.1	1.3	0.8

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

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	12	7.3	4.5	2.8	1.7	1.1	0.7	0.4	0.3	0.2	0.1
1	17 (12-19)	11 (7.6-12)	6.7 (4.8-7.8)	4.2 (3.0-4.9)	2.6 (1.8-3.1)	1.6 (1.1-1.9)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.2 (0.1-0.2)
2	24 (17-29)	15 (11-20)	9.9 (6.7-13)	6.2 (4.2-8.1)	3.9 (2.6-5.1)	2.4 (1.6-3.2)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.2-0.3)
3	32 (24-40)	22 (16-28)	14 (10-19)	9.1 (6.3-12)	5.7 (3.9-7.9)	3.6 (2.4-5.0)	2.2 (1.5-3.1)	1.4 (0.9-2.0)	0.9 (0.6-1.3)	0.6 (0.4-0.8)	0.4 (0.2-0.5)
4	42 (35-53)	30 (24-39)	20 (16-27)	13 (10-18)	8.4 (6.3-12)	5.3 (3.9-7.5)	3.3 (2.4-4.7)	2.1 (1.5-3.0)	1.3 (1.0-1.9)	0.8 (0.6-1.2)	0.5 (0.4-0.8)
5	53 (49-63)	40 (36-49)	28 (24-36)	19 (16-25)	12 (10-16)	7.6 (6.5-10)	4.8 (4.0-6.6)	3.0 (2.5-4.2)	1.9 (1.6-2.7)	1.2 (1.0-1.7)	0.8 (0.7-1.1)
6	64	51	37	26	17	11	6.9	4.4	2.8	1.8	1.2

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	11	7.2	4.8	3.2	2.1	1.4	0.9	0.6	0.4	0.3	0.2
1	17 (15-21)	11 (10-15)	7.7 (6.7-9.9)	5.1 (4.5-6.6)	3.4 (2.9-4.4)	2.2 (1.9-2.9)	1.5 (1.3-1.9)	1.0 (0.8-1.3)	0.7 (0.6-0.9)	0.4 (0.4-0.6)	0.3 (0.3-0.4)
2	25 (21-32)	18 (15-23)	12 (10-16)	8.2 (6.7-11)	5.5 (4.4-7.3)	3.6 (2.9-4.9)	2.4 (1.9-3.2)	1.6 (1.3-2.2)	1.1 (0.9-1.5)	0.7 (0.6-1.0)	0.5 (0.4-0.7)
3	36 (30-43)	26 (21-32)	19 (15-23)	13 (10-16)	8.7 (6.8-11)	5.8 (4.5-7.4)	3.9 (3.0-4.9)	2.6 (2.0-3.3)	1.8 (1.3-2.3)	1.2 (0.9-1.5)	0.8 (0.6-1.0)
4	48 (41-55)	37 (30-43)	28 (22-32)	20 (15-23)	14 (10-16)	9.2 (6.9-11)	6.2 (4.6-7.4)	4.2 (3.1-5.0)	2.9 (2.1-3.5)	1.9 (1.4-2.4)	1.3 (1.0-1.6)
5	60 (52-64)	50 (42-53)	39 (32-42)	29 (23-31)	21 (16-23)	14 (11-16)	9.8 (7.5-11)	6.7 (5.1-7.5)	4.6 (3.5-5.2)	3.1 (2.4-3.6)	2.1 (1.6-2.4)
6	70	61	51	40	30	22	15	10	7.3	5.0	3.4

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

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	10	7.2	5.1	3.5	2.5	1.7	1.2	0.9	0.6	0.4	0.3
1	18 (14-34)	13 (10-26)	9.4 (7.1-20)	6.7 (5.0-14)	4.8 (3.5-10)	3.3 (2.4-7.2)	2.3 (1.7-5.1)	1.7 (1.2-3.7)	1.2 (0.9-2.6)	0.9 (0.6-1.9)	0.6 (0.4-1.3)
2	28 (19-45)	21 (14-36)	16 (9.9-28)	12 (7.0-21)	8.5 (4.9-16)	6.0 (3.5-11)	4.3 (2.4-8.1)	3.1 (1.7-5.9)	2.2 (1.2-4.3)	1.6 (0.9-3.1)	1.1 (0.6-2.2)
3	40 (25-55)	32 (19-47)	25 (14-38)	19 (10-30)	14 (7.1-22)	10 (5.0-17)	7.4 (3.5-12)	5.4 (2.6-8.8)	3.9 (1.8-6.4)	2.8 (1.3-4.7)	2.0 (1.0-3.4)
4	53 (33-64)	45 (26-56)	37 (20-47)	29 (15-38)	22 (11-30)	17 (7.5-22)	12 (5.3-16)	9.0 (3.9-12)	6.6 (2.8-9.1)	4.8 (2.0-6.7)	3.5 (1.4-4.9)
5	64 (43-71)	57 (35-64)	49 (27-56)	41 (21-47)	33 (16-38)	25 (11-29)	19 (8.2-22)	15 (6.0-17)	11 (4.4-13)	8.0 (3.2-9.3)	5.9 (2.3-6.9)
6	74	69	62	54	45	37	29	22	17	13	9.5

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	8.9	6.7	5.0	3.7	2.7	2.0	1.5	1.1	0.9	0.7	0.5
1	15 (11-31)	12 (8.7-24)	9.0 (6.5-19)	6.8 (4.8-15)	5.1 (3.6-11)	3.8 (2.7-8.4)	2.8 (2.0-6.3)	2.2 (1.5-4.8)	1.6 (1.1-3.7)	1.2 (0.9-2.8)	0.9 (0.6-2.1)
2	24 (15-40)	19 (11-33)	15 (8.7-27)	12 (6.6-21)	8.8 (4.9-16)	6.6 (3.7-12)	5.0 (2.7-9.5)	3.9 (2.1-7.4)	2.9 (1.6-5.7)	2.2 (1.2-4.4)	1.7 (0.9-3.3)
3	34 (20-49)	28 (16-42)	23 (12-35)	18 (9.1-29)	14 (6.9-23)	11 (5.2-18)	8.4 (3.9-14)	6.5 (3.0-11)	5.0 (2.3-8.5)	3.8 (1.7-6.5)	2.9 (1.3-5.0)
4	45 (26-57)	39 (21-51)	33 (17-43)	27 (13-36)	22 (9.9-30)	17 (7.5-24)	13 (5.7-19)	10 (4.4-15)	8.2 (3.4-12)	6.3 (2.6-9.1)	4.9 (2.0-7.0)
5	57 (35-63)	51 (29-57)	44 (23-50)	37 (18-43)	31 (14-36)	25 (11-29)	20 (8.5-24)	16 (6.6-19)	13 (5.1-15)	10 (3.9-12)	7.8 (3.0-9.5)
6	67	62	56	49	42	35	29	24	19	15	12

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

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	7.0	5.5	4.3	3.3	2.6	2.0	1.6	1.3	1.0	0.8	0.6
1	12 (9.0-25)	9.7 (7.1-20)	7.7 (5.6-17)	6.1 (4.4-13)	4.8 (3.4-11)	3.8 (2.6-8.3)	3.0 (2.1-6.6)	2.4 (1.7-5.3)	1.9 (1.3-4.3)	1.5 (1.1-3.4)	1.2 (0.8-2.7)
2	19 (12-34)	16 (9.3-28)	13 (7.4-23)	10 (5.8-19)	8.2 (4.6-15)	6.5 (3.6-12)	5.2 (2.8-9.8)	4.2 (2.3-8.0)	3.4 (1.8-6.4)	2.7 (1.5-5.2)	2.2 (1.2-4.2)
3	29 (16-43)	24 (13-37)	20 (10-31)	16 (8.1-26)	13 (6.4-21)	11 (5.0-17)	8.6 (4.0-14)	7.0 (3.2-12)	5.7 (2.6-9.5)	4.6 (2.1-7.8)	3.7 (1.7-6.3)
4	39 (22-51)	34 (18-45)	29 (14-39)	24 (11-33)	20 (9.1-28)	17 (7.3-23)	14 (5.8-19)	11 (4.7-16)	9.2 (3.8-13)	7.5 (3.1-11)	6.1 (2.5-8.7)
5	51 (29-57)	45 (25-52)	40 (20-46)	34 (17-40)	29 (13-34)	24 (11-29)	20 (8.6-24)	17 (7.0-20)	14 (5.7-17)	12 (4.6-14)	9.6 (3.7-11)
6	62	57	52	46	40	34	29	25	21	18	15

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	4.4	3.6	2.9	2.4	1.9	1.6	1.3	1.1	0.9	0.8	0.6
1	7.9 (5.7-17)	6.5 (4.7-14)	5.4 (3.8-12)	4.4 (3.1-9.7)	3.6 (2.5-8.0)	3.0 (2.1-6.6)	2.5 (1.7-5.6)	2.1 (1.5-4.7)	1.7 (1.2-3.9)	1.5 (1.0-3.3)	1.2 (0.9-2.8)
2	13 (7.4-24)	11 (6.1-20)	9.1 (5.0-17)	7.5 (4.1-14)	6.2 (3.4-12)	5.1 (2.8-9.8)	4.3 (2.3-8.3)	3.7 (2.0-7.0)	3.1 (1.6-5.9)	2.6 (1.4-5.0)	2.2 (1.2-4.2)
3	20 (10-31)	17 (8.5-27)	14 (7.0-23)	12 (5.8-20)	10 (4.8-17)	8.5 (3.9-14)	7.2 (3.3-12)	6.1 (2.8-10)	5.2 (2.3-8.6)	4.4 (2.0-7.3)	3.7 (1.6-6.2)
4	29 (14-39)	25 (12-34)	22 (10-30)	19 (8.3-26)	16 (6.9-22)	13 (5.7-19)	11 (4.8-16)	9.7 (4.0-14)	8.3 (3.4-12)	7.0 (2.9-10)	6.0 (2.4-8.6)
5	40 (20-46)	35 (17-41)	31 (15-36)	27 (12-32)	23 (10-27)	20 (8.4-23)	17 (7.1-20)	15 (6.0-18)	13 (5.1-15)	11 (4.3-13)	9.4 (3.7-11)
6	51	47	42	37	33	29	25	22	19	17	14