

Netherlands - 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 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	8.8	4.6	2.4	1.2	0.6	0.3	0.2	0.1	0.0	0.0	0.0
1	14 (9.2-18)	7.3 (4.8-9.5)	3.8 (2.5-5.0)	1.9 (1.3-2.6)	1.0 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	21 (13-31)	11 (6.8-17)	6.0 (3.5-9.1)	3.1 (1.8-4.8)	1.6 (0.9-2.5)	0.8 (0.5-1.3)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
3	31 (19-47)	18 (10-28)	9.4 (5.3-15)	4.9 (2.7-8.1)	2.5 (1.4-4.2)	1.3 (0.7-2.2)	0.7 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	44 (30-62)	26 (17-39)	14 (9.0-22)	7.7 (4.7-12)	4.0 (2.4-6.4)	2.0 (1.2-3.3)	1.0 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
5	60 (49-74)	38 (29-50)	22 (16-30)	12 (8.6-17)	6.2 (4.5-8.9)	3.2 (2.3-4.7)	1.6 (1.2-2.4)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
6	76	52	32	18	9.4	4.9	2.5	1.3	0.7	0.4	0.2

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	9.2	5.0	2.7	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0
1	14 (9.6-17)	7.9 (5.3-9.7)	4.3 (2.9-5.3)	2.3 (1.6-2.9)	1.3 (0.8-1.6)	0.7 (0.5-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	21 (13-30)	12 (7.5-17)	6.8 (4.1-9.8)	3.7 (2.2-5.4)	2.0 (1.2-2.9)	1.1 (0.6-1.6)	0.6 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
3	31 (20-46)	18 (11-28)	10 (6.1-16)	5.7 (3.3-9.1)	3.1 (1.8-5.0)	1.7 (1.0-2.7)	0.9 (0.5-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
4	44 (32-60)	27 (19-39)	16 (10-24)	8.8 (5.7-14)	4.8 (3.1-7.5)	2.6 (1.7-4.1)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	59 (51-72)	38 (32-51)	23 (19-32)	13 (10-19)	7.3 (5.7-11)	4.0 (3.1-5.8)	2.2 (1.7-3.1)	1.2 (0.9-1.8)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
6	74	53	33	20	11	6.1	3.3	1.8	1.0	0.6	0.3

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	10	5.8	3.3	1.9	1.0	0.6	0.3	0.2	0.1	0.1	0.0
1	16 (11-18)	9.0 (6.1-11)	5.1 (3.5-6.1)	2.9 (1.9-3.4)	1.6 (1.1-1.9)	0.9 (0.6-1.1)	0.5 (0.3-0.6)	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	23 (15-31)	14 (8.6-18)	7.8 (4.9-11)	4.5 (2.8-6.2)	2.5 (1.5-3.5)	1.4 (0.9-2.0)	0.8 (0.5-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	33 (22-46)	20 (13-29)	12 (7.4-18)	6.8 (4.2-10)	3.8 (2.3-5.9)	2.2 (1.3-3.3)	1.2 (0.7-1.9)	0.7 (0.4-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	45 (34-60)	29 (21-41)	18 (12-26)	10 (7.1-15)	5.8 (4.0-8.9)	3.3 (2.3-5.0)	1.9 (1.3-2.9)	1.1 (0.7-1.7)	0.6 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.1-0.3)
5	60 (53-72)	40 (35-52)	25 (21-34)	15 (13-21)	8.8 (7.2-12)	5.0 (4.1-7.1)	2.9 (2.3-4.1)	1.7 (1.3-2.4)	1.0 (0.8-1.4)	0.6 (0.5-0.8)	0.3 (0.3-0.5)
6	74	54	36	22	13	7.4	4.3	2.5	1.5	0.8	0.5

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	11	6.8	4.0	2.3	1.4	0.8	0.5	0.3	0.2	0.1	0.1
1	17 (12-20)	10 (7.1-12)	6.0 (4.2-7.2)	3.5 (2.4-4.3)	2.1 (1.4-2.5)	1.2 (0.8-1.5)	0.7 (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	24 (17-31)	15 (9.9-20)	9.1 (5.9-12)	5.4 (3.5-7.1)	3.2 (2.0-4.2)	1.8 (1.2-2.5)	1.1 (0.7-1.5)	0.7 (0.4-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
3	34 (24-46)	22 (15-31)	13 (8.8-19)	8.1 (5.2-12)	4.8 (3.1-6.9)	2.8 (1.8-4.1)	1.7 (1.1-2.5)	1.0 (0.6-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
4	46 (37-60)	31 (23-42)	20 (14-28)	12 (8.6-17)	7.1 (5.1-10)	4.2 (3.0-6.2)	2.5 (1.8-3.8)	1.5 (1.1-2.3)	0.9 (0.7-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
5	60 (54-72)	42 (36-54)	28 (23-37)	17 (14-23)	10 (8.5-14)	6.2 (5.0-8.7)	3.8 (3.1-5.3)	2.3 (1.8-3.2)	1.4 (1.1-2.0)	0.8 (0.7-1.2)	0.5 (0.4-0.7)
6	73	55	38	25	15	9.1	5.6	3.4	2.1	1.2	0.8

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	13	8.1	5.0	3.0	1.8	1.1	0.7	0.4	0.3	0.2	0.1
1	21 (18-26)	13 (11-17)	8.3 (7.0-10)	5.1 (4.3-6.4)	3.1 (2.6-3.9)	1.9 (1.6-2.4)	1.2 (1.0-1.5)	0.8 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.3-0.4)	0.2 (0.2-0.2)
2	32 (26-41)	21 (17-28)	13 (10-18)	8.4 (6.5-11)	5.2 (4.0-7.0)	3.2 (2.4-4.4)	2.0 (1.5-2.8)	1.3 (1.0-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
3	47 (37-57)	32 (25-41)	21 (16-28)	14 (9.8-18)	8.5 (6.1-11)	5.3 (3.8-7.2)	3.4 (2.4-4.6)	2.1 (1.5-2.9)	1.3 (0.9-1.8)	0.8 (0.6-1.2)	0.5 (0.4-0.7)
4	63 (53-70)	47 (37-55)	33 (25-39)	22 (16-26)	14 (10-17)	8.7 (6.3-11)	5.6 (4.0-7.0)	3.5 (2.5-4.5)	2.2 (1.6-2.8)	1.4 (1.0-1.8)	0.9 (0.6-1.1)
5	77 (71-81)	63 (55-68)	47 (39-52)	33 (27-37)	22 (17-25)	14 (11-16)	9.1 (7.1-11)	5.8 (4.5-6.8)	3.7 (2.9-4.3)	2.3 (1.8-2.7)	1.5 (1.1-1.7)
6	87	78	64	48	33	22	15	9.5	6.1	3.9	2.4

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	15	9.8	6.3	4.0	2.6	1.7	1.1	0.7	0.5	0.3	0.2
1	27 (20-49)	18 (14-35)	12 (8.8-25)	7.9 (5.7-16)	5.1 (3.6-11)	3.4 (2.4-7.2)	2.2 (1.6-4.8)	1.5 (1.0-3.2)	1.0 (0.7-2.1)	0.6 (0.4-1.4)	0.4 (0.3-0.9)
2	42 (28-66)	31 (19-52)	21 (12-39)	14 (8.0-27)	9.5 (5.2-18)	6.4 (3.4-12)	4.2 (2.2-8.4)	2.8 (1.5-5.6)	1.9 (1.0-3.7)	1.2 (0.6-2.5)	0.8 (0.4-1.6)
3	59 (39-77)	46 (27-65)	34 (18-52)	24 (12-39)	17 (7.8-27)	11 (5.1-19)	7.7 (3.4-13)	5.1 (2.2-9.0)	3.4 (1.5-6.0)	2.3 (1.0-4.0)	1.5 (0.6-2.7)
4	74 (53-84)	63 (39-76)	51 (28-65)	38 (19-51)	27 (12-38)	19 (8.3-28)	13 (5.6-19)	9.0 (3.7-13)	6.1 (2.5-9.1)	4.1 (1.6-6.1)	2.7 (1.1-4.0)
5	84 (68-88)	77 (55-82)	67 (42-74)	55 (30-62)	42 (21-48)	31 (14-36)	22 (9.6-26)	15 (6.5-18)	10 (4.3-13)	7.0 (2.9-8.6)	4.7 (1.9-5.7)
6	89	86	81	72	59	47	35	25	17	12	8.0

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	16	11	7.4	5.0	3.4	2.4	1.6	1.1	0.8	0.5	0.4
1	27 (20-50)	20 (14-38)	14 (9.7-28)	9.5 (6.6-20)	6.6 (4.5-14)	4.6 (3.1-9.9)	3.2 (2.2-7.0)	2.2 (1.5-4.9)	1.6 (1.0-3.4)	1.1 (0.7-2.3)	0.7 (0.5-1.6)
2	41 (27-64)	32 (19-53)	23 (13-41)	17 (9.2-31)	12 (6.3-23)	8.4 (4.4-16)	5.9 (3.1-12)	4.2 (2.1-8.3)	2.9 (1.5-5.9)	2.0 (1.0-4.1)	1.4 (0.7-2.8)
3	56 (37-74)	46 (28-65)	36 (20-54)	27 (14-42)	20 (9.4-32)	14 (6.6-24)	10 (4.6-18)	7.4 (3.2-13)	5.2 (2.2-9.0)	3.6 (1.5-6.4)	2.5 (1.1-4.5)
4	69 (49-80)	60 (38-73)	51 (28-64)	40 (20-53)	31 (14-43)	23 (10-33)	17 (7.3-25)	12 (5.1-18)	8.9 (3.6-13)	6.3 (2.5-9.5)	4.4 (1.7-6.8)
5	79 (62-83)	73 (51-78)	65 (41-72)	55 (31-63)	45 (23-52)	35 (17-42)	27 (12-33)	20 (8.5-25)	15 (6.0-18)	10 (4.2-13)	7.4 (3.0-9.4)
6	85	82	77	69	60	50	40	31	23	17	12

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	14	9.9	7.1	5.1	3.7	2.7	2.0	1.4	1.1	0.8	0.6
1	23 (18-44)	18 (13-35)	13 (9.3-27)	9.5 (6.6-20)	7.0 (4.8-15)	5.2 (3.6-11)	3.8 (2.6-8.3)	2.8 (1.9-6.2)	2.1 (1.4-4.5)	1.5 (1.0-3.3)	1.1 (0.7-2.4)
2	36 (24-57)	28 (18-47)	22 (13-38)	16 (9.2-30)	12 (6.8-23)	9.3 (5.0-18)	6.9 (3.7-13)	5.1 (2.7-10)	3.8 (2.0-7.5)	2.8 (1.4-5.6)	2.0 (1.0-4.1)
3	49 (32-67)	41 (24-59)	33 (18-50)	26 (13-40)	20 (10-32)	16 (7.5-25)	12 (5.6-20)	8.9 (4.1-15)	6.6 (3.0-11)	4.9 (2.2-8.3)	3.6 (1.6-6.2)
4	63 (42-74)	55 (34-68)	47 (26-59)	38 (19-50)	31 (15-41)	25 (11-34)	19 (8.4-27)	15 (6.2-21)	11 (4.6-16)	8.3 (3.4-12)	6.2 (2.5-9.2)
5	73 (54-79)	67 (45-73)	60 (36-67)	52 (28-59)	44 (22-51)	36 (17-43)	29 (13-35)	23 (9.9-28)	18 (7.4-22)	14 (5.5-17)	10 (4.1-13)
6	81	77	72	66	58	50	42	34	27	21	16

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	9.4	7.1	5.3	4.1	3.2	2.5	1.9	1.5	1.1	0.9	0.7
1	16 (12-33)	13 (9.2-26)	9.8 (7.0-21)	7.5 (5.3-16)	5.9 (4.1-13)	4.7 (3.2-10)	3.6 (2.5-8.0)	2.8 (1.9-6.2)	2.2 (1.5-4.9)	1.7 (1.2-3.8)	1.3 (0.9-2.9)
2	26 (16-43)	21 (13-36)	16 (9.7-29)	13 (7.4-24)	10 (5.8-19)	8.2 (4.5-15)	6.5 (3.5-12)	5.1 (2.7-9.8)	4.0 (2.1-7.7)	3.1 (1.6-6.0)	2.4 (1.3-4.7)
3	37 (22-54)	31 (17-47)	25 (13-39)	21 (10-33)	17 (8.2-27)	14 (6.5-22)	11 (5.1-18)	8.6 (4.0-14)	6.8 (3.1-11)	5.3 (2.4-9.0)	4.2 (1.9-7.1)
4	50 (30-63)	43 (24-56)	37 (19-48)	31 (15-41)	26 (12-35)	21 (9.6-29)	17 (7.6-24)	14 (6.0-20)	11 (4.7-16)	8.9 (3.7-13)	7.0 (2.8-10)
5	62 (40-68)	56 (33-62)	50 (27-56)	43 (22-49)	37 (18-43)	31 (14-37)	26 (12-31)	22 (9.2-26)	18 (7.3-21)	14 (5.7-17)	11 (4.5-14)
6	73	68	62	56	50	44	38	32	26	22	18