



## Netherlands - The probabilities of a major osteoporotic fracture in women

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus fracture) according to body mass index (BMI kg/m<sup>2</sup>), 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.

**Age = 50 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	2.2	2.0	1.8	1.6	1.4	1.2	1.1
1	3.6 (2.5-5.5)	3.2 (2.2-4.5)	2.9 (2.0-4.1)	2.5 (1.7-3.5)	2.2 (1.5-3.1)	1.9 (1.3-2.7)	1.7 (1.1-2.3)
2	5.9 (3.2-9.7)	5.0 (2.7-8.4)	4.5 (2.4-7.8)	3.9 (2.1-6.8)	3.4 (1.8-5.9)	3.0 (1.6-5.2)	2.6 (1.4-4.5)
3	9.5 (4.8-16)	7.9 (3.8-14)	7.0 (3.3-13)	6.0 (2.9-11)	5.2 (2.5-9.7)	4.6 (2.2-8.5)	4.0 (1.9-7.4)
4	15 (8.1-23)	12 (6.7-19)	11 (5.7-17)	9.1 (4.9-15)	7.9 (4.2-13)	6.9 (3.6-11)	6.0 (3.1-10)
5	23 (14-29)	18 (12-24)	16 (10-21)	14 (9.1-18)	12 (7.9-16)	10 (6.9-14)	8.9 (6.0-12)
6	35	27	23	20	17	15	13

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

**Age = 55 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	3.0	2.6	2.4	2.1	1.8	1.6	1.4
1	5.0 (3.6-7.3)	4.2 (2.9-5.9)	3.8 (2.6-5.2)	3.3 (2.3-4.5)	2.9 (2.0-3.9)	2.5 (1.7-3.4)	2.2 (1.5-2.9)
2	8.1 (4.7-13)	6.7 (3.7-11)	5.9 (3.2-9.8)	5.1 (2.8-8.5)	4.4 (2.4-7.4)	3.8 (2.1-6.5)	3.3 (1.8-5.7)
3	13 (7.1-21)	10 (5.4-18)	9.0 (4.5-16)	7.8 (3.9-14)	6.7 (3.3-12)	5.8 (2.9-11)	5.1 (2.5-9.2)
4	20 (11-30)	16 (9.5-24)	14 (7.8-21)	12 (6.6-19)	10 (5.7-16)	8.8 (4.9-14)	7.6 (4.2-12)
5	31 (20-38)	24 (16-30)	20 (14-26)	17 (12-23)	15 (10-20)	13 (9.0-17)	11 (7.8-15)
6	45	35	29	25	22	19	16

**Age = 60 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	4.6	3.8	3.4	3.0	2.6	2.2	1.9
1	7.4 (5.4-10)	6.1 (4.3-8.3)	5.3 (3.7-7.1)	4.6 (3.2-6.1)	4.0 (2.8-5.3)	3.5 (2.4-4.6)	3.0 (2.1-4.0)
2	12 (7.3-18)	9.5 (5.6-14)	8.2 (4.7-13)	7.1 (4.0-11)	6.1 (3.4-10)	5.3 (3.0-8.7)	4.6 (2.5-7.6)
3	19 (11-28)	15 (8.3-24)	13 (6.7-21)	11 (5.7-18)	9.3 (4.9-16)	8.0 (4.2-14)	7.0 (3.6-12)
4	28 (17-39)	22 (14-32)	19 (12-28)	16 (9.8-25)	14 (8.3-22)	12 (7.1-19)	10 (6.0-17)
5	41 (29-49)	33 (23-40)	27 (20-34)	23 (17-30)	20 (15-26)	18 (13-23)	15 (11-20)
6	57	46	38	34	29	25	22

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

**Age = 65 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	6.8	5.5	4.8	4.2	3.6	3.1	2.7
1	11 (8.2-14)	8.7 (6.4-11)	7.5 (5.4-9.6)	6.4 (4.6-8.3)	5.5 (3.9-7.1)	4.8 (3.4-6.1)	4.1 (2.9-5.3)
2	17 (11-24)	13 (8.4-19)	11 (6.8-17)	9.8 (5.8-15)	8.4 (4.9-13)	7.3 (4.2-12)	6.3 (3.6-10)
3	26 (17-36)	20 (13-31)	17 (9.8-27)	15 (8.3-24)	13 (7.0-21)	11 (6.0-18)	9.4 (5.1-16)
4	37 (25-49)	30 (20-42)	25 (17-36)	22 (14-32)	19 (12-28)	16 (10-25)	14 (8.6-21)
5	52 (41-60)	42 (33-51)	35 (27-44)	31 (23-39)	27 (20-34)	23 (17-30)	20 (15-26)
6	67	57	49	43	37	33	28

**Age = 70 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	10	8.1	6.9	5.9	5.0	4.3	3.7
1	16 (12-19)	12 (9.4-15)	10 (7.7-13)	8.8 (6.6-11)	7.5 (5.6-9.6)	6.4 (4.7-8.2)	5.5 (4.0-7.1)
2	25 (17-33)	19 (13-25)	15 (9.9-21)	13 (8.4-18)	11 (7.1-16)	9.5 (6.0-13)	8.1 (5.1-11)
3	37 (26-50)	29 (19-40)	23 (15-33)	19 (12-29)	16 (10-25)	14 (8.7-21)	12 (7.3-18)
4	52 (41-65)	42 (31-55)	33 (25-46)	28 (21-40)	24 (17-34)	21 (15-30)	17 (12-25)
5	67 (62-75)	57 (51-66)	47 (40-56)	41 (34-49)	35 (29-43)	30 (24-37)	25 (20-32)
6	80	73	63	56	49	42	36

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

**Age = 75 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	14	12	9.7	8.2	7.0	5.9	5.1
1	23 (17-33)	18 (14-24)	15 (11-18)	12 (9.2-15)	10 (7.8-12)	8.8 (6.5-11)	7.4 (5.5-9.1)
2	35 (23-50)	28 (18-39)	22 (14-30)	19 (12-25)	16 (10-21)	13 (8.4-17)	11 (7.0-14)
3	50 (35-66)	42 (27-57)	33 (21-46)	28 (18-40)	23 (15-34)	20 (12-28)	16 (10-24)
4	65 (49-77)	57 (42-72)	48 (34-62)	41 (29-55)	35 (24-47)	29 (20-41)	25 (17-34)
5	76 (65-83)	72 (59-80)	64 (52-73)	57 (45-66)	49 (39-59)	42 (33-51)	36 (28-44)
6	84	83	79	73	66	58	51

**Age = 80 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	18	15	12	10	8.7	7.4	6.2
1	28 (21-40)	23 (17-32)	19 (14-24)	16 (12-20)	13 (9.7-16)	11 (8.1-13)	9.1 (6.7-11)
2	40 (28-55)	34 (23-46)	28 (19-38)	23 (15-32)	19 (13-26)	16 (11-22)	13 (8.7-18)
3	53 (38-67)	47 (34-61)	40 (28-53)	34 (23-46)	29 (19-39)	24 (16-32)	20 (13-27)
4	65 (50-75)	61 (46-72)	54 (40-67)	47 (34-60)	40 (29-53)	34 (24-46)	29 (20-39)
5	74 (62-80)	72 (59-79)	68 (55-76)	61 (48-70)	54 (42-63)	47 (36-56)	40 (30-49)
6	81	80	78	74	68	61	54

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

**Age = 85 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	18	16	14	12	9.6	8.0	6.7
1	28 (21-41)	24 (18-35)	21 (16-28)	17 (13-23)	14 (10-19)	12 (8.6-15)	9.8 (7.0-12)
2	40 (28-55)	35 (24-49)	30 (21-41)	25 (17-34)	21 (14-28)	17 (11-23)	14 (9.3-19)
3	52 (37-66)	48 (33-62)	42 (30-55)	36 (25-48)	30 (20-41)	25 (17-34)	21 (14-29)
4	63 (48-74)	60 (45-71)	56 (42-68)	49 (35-61)	42 (30-54)	36 (25-47)	30 (20-40)
5	72 (61-78)	71 (58-77)	68 (55-75)	62 (48-70)	55 (42-64)	48 (35-57)	41 (30-50)
6	78	78	77	73	67	61	54

**Age = 90 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	15	14	13	11	9.0	7.5	6.2
1	23 (17-35)	21 (15-31)	19 (14-26)	16 (11-21)	13 (9.3-17)	11 (7.6-14)	8.9 (6.2-11)
2	34 (23-49)	30 (20-44)	28 (19-38)	23 (15-32)	19 (12-26)	16 (10-22)	13 (8.1-18)
3	45 (31-60)	42 (28-56)	38 (26-51)	32 (21-44)	27 (17-37)	22 (14-31)	18 (11-26)
4	57 (41-68)	54 (38-65)	50 (36-62)	44 (31-55)	37 (25-48)	31 (21-42)	26 (17-35)
5	66 (54-73)	65 (51-72)	62 (49-70)	55 (42-64)	49 (36-58)	42 (30-51)	36 (25-44)
6	72	73	72	67	61	54	47