

**Norway - 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 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 Norway. 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/m<sup>2</sup>.

**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	21	14	9.4	6.9	5.3	4.4	3.7	3.4	3.2	3.0	2.9	
1	32 (28-39)	21 (18-26)	14 (12-18)	10 (8.3-13)	8.1 (6.0-10)	6.6 (4.6-8.5)	5.6 (3.8-7.4)	5.0 (3.3-6.9)	4.8 (3.1-6.6)	4.5 (2.9-6.3)	4.4 (2.8-6.1)	
2	45 (36-59)	31 (25-42)	21 (16-29)	15 (11-22)	12 (7.7-18)	9.7 (5.8-16)	8.2 (4.6-14)	7.4 (4.0-13)	7.0 (3.7-12)	6.7 (3.5-12)	6.4 (3.3-11)	
3	60 (46-75)	43 (32-55)	31 (22-42)	22 (15-34)	17 (10-28)	14 (7.6-24)	12 (6.0-21)	11 (5.2-20)	10 (4.8-19)	9.7 (4.5-18)	9.3 (4.3-18)	
4	75 (59-86)	57 (42-68)	42 (29-52)	32 (21-42)	25 (17-35)	20 (13-30)	17 (9.9-27)	15 (8.5-25)	14 (7.7-24)	14 (7.3-23)	13 (6.9-22)	
5	87 (80-93)	72 (62-79)	56 (46-61)	43 (34-50)	34 (26-42)	28 (21-36)	23 (18-31)	21 (16-29)	20 (14-27)	19 (13-26)	18 (13-26)	
6	94	85	70	56	45	37	31	28	27	26	25	

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

**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	25	17	12	8.8	6.9	5.6	4.7	4.3	4.0	3.8	3.6
1	35 (32-42)	25 (22-29)	18 (15-21)	13 (11-16)	10 (7.8-13)	8.4 (6.0-11)	7.0 (4.8-9.4)	6.4 (4.3-8.8)	6.0 (4.0-8.3)	5.6 (3.7-7.9)	5.4 (3.5-7.5)
2	49 (41-62)	35 (29-46)	26 (20-34)	19 (14-26)	15 (9.9-22)	12 (7.5-19)	10 (5.9-16)	9.4 (5.2-15)	8.7 (4.7-15)	8.2 (4.4-14)	7.8 (4.1-13)
3	64 (52-76)	48 (38-59)	36 (27-48)	27 (18-40)	21 (13-34)	18 (9.8-29)	15 (7.7-26)	13 (6.8-24)	12 (6.1-23)	12 (5.6-22)	11 (5.3-21)
4	78 (64-86)	62 (48-71)	48 (35-58)	37 (27-49)	30 (21-42)	24 (16-36)	21 (13-32)	19 (11-30)	17 (9.9-28)	16 (9.1-27)	16 (8.5-26)
5	88 (83-93)	76 (68-81)	62 (53-68)	50 (41-57)	40 (33-49)	33 (27-42)	28 (22-37)	26 (19-34)	24 (17-33)	23 (16-31)	21 (15-30)
6	94	87	75	63	52	44	37	34	32	30	29

**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	29	20	15	11	8.8	7.1	6.1	5.5	5.1	4.7	4.4
1	40 (37-45)	29 (27-33)	22 (18-25)	16 (13-19)	13 (9.8-16)	10 (7.6-13)	8.9 (6.2-12)	8.1 (5.5-11)	7.4 (5.0-10)	6.9 (4.6-9.6)	6.4 (4.2-9.1)
2	54 (47-65)	41 (34-51)	31 (24-39)	24 (17-32)	19 (13-27)	15 (9.5-23)	13 (7.7-20)	12 (6.7-19)	11 (5.9-17)	10 (5.4-16)	9.3 (5.0-15)
3	68 (58-77)	54 (44-65)	42 (32-55)	33 (23-47)	26 (17-40)	21 (12-34)	18 (10-31)	16 (8.6-29)	15 (7.7-27)	14 (7.0-25)	13 (6.4-24)
4	81 (69-87)	68 (55-75)	55 (42-65)	44 (33-56)	35 (26-48)	29 (20-42)	25 (16-38)	23 (14-35)	21 (12-33)	19 (11-31)	18 (10-30)
5	90 (86-92)	80 (74-84)	68 (61-74)	56 (49-64)	46 (40-56)	39 (33-48)	34 (27-43)	31 (23-40)	28 (21-38)	26 (19-36)	25 (17-34)
6	94	89	80	69	59	50	44	40	37	35	33

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

**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	32	24	18	13	10	8.4	7.3	6.5	5.9	5.4	4.9
1	44 (41-49)	33 (30-37)	25 (22-28)	19 (16-23)	15 (12-19)	12 (9.0-16)	11 (7.6-14)	9.5 (6.6-13)	8.6 (5.8-12)	7.8 (5.2-11)	7.2 (4.8-10)
2	58 (51-67)	45 (39-54)	35 (28-43)	27 (20-35)	21 (15-30)	17 (11-25)	15 (9.3-23)	14 (8.0-21)	12 (7.0-19)	11 (6.2-18)	10 (5.6-17)
3	71 (62-79)	58 (49-69)	46 (37-60)	37 (27-51)	30 (20-44)	24 (15-38)	21 (12-34)	19 (10-32)	17 (9.0-29)	16 (8.1-27)	14 (7.3-26)
4	82 (73-86)	71 (60-78)	59 (48-69)	48 (38-61)	39 (30-53)	32 (24-46)	29 (20-42)	26 (17-39)	23 (14-36)	21 (13-34)	20 (12-32)
5	89 (87-91)	82 (77-85)	71 (66-77)	61 (55-69)	51 (45-60)	43 (37-52)	38 (31-48)	34 (26-44)	31 (23-41)	29 (21-39)	27 (19-36)
6	93	89	82	73	63	54	48	44	41	38	35

**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	36	27	20	16	12	9.9	8.5	7.5	6.6	6.0	5.4
1	49 (45-57)	38 (34-44)	29 (25-34)	22 (18-26)	17 (14-20)	14 (11-16)	12 (9.0-14)	10 (7.6-12)	9.1 (6.6-11)	8.2 (5.8-9.6)	7.4 (5.2-8.7)
2	64 (56-74)	51 (43-62)	40 (32-50)	31 (24-39)	24 (18-31)	19 (14-25)	16 (11-21)	14 (9.4-19)	12 (8.0-17)	11 (7.0-15)	10 (6.2-14)
3	77 (68-85)	66 (54-77)	53 (41-66)	42 (31-55)	33 (23-45)	26 (18-37)	22 (15-33)	19 (12-29)	17 (10-26)	15 (9.1-23)	13 (8.0-21)
4	87 (81-90)	78 (69-85)	67 (56-75)	55 (44-65)	44 (34-54)	36 (27-46)	30 (23-40)	26 (19-36)	22 (16-32)	20 (14-29)	18 (13-26)
5	91 (89-93)	87 (83-90)	79 (73-83)	69 (62-74)	57 (50-64)	47 (41-54)	40 (34-47)	34 (29-42)	30 (25-37)	26 (22-34)	23 (20-30)
6	93	91	88	81	70	60	51	44	38	34	30

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

**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	39	30	23	18	14	12	9.8	8.5	7.4	6.5	5.7
1	54 (47-74)	44 (37-62)	34 (28-49)	26 (21-37)	20 (16-28)	16 (13-21)	14 (10-17)	12 (8.7-13)	10 (7.4-12)	8.7 (6.4-10)	7.6 (5.6-9.0)
2	69 (58-84)	58 (46-77)	48 (36-66)	38 (27-53)	29 (20-42)	23 (16-33)	19 (13-26)	16 (11-21)	14 (9.1-18)	12 (7.8-16)	10 (6.8-14)
3	80 (69-89)	72 (57-84)	62 (45-77)	51 (35-66)	41 (27-54)	33 (21-45)	27 (17-37)	22 (14-31)	18 (12-25)	16 (10-22)	13 (8.7-18)
4	87 (79-91)	83 (69-89)	75 (58-84)	66 (47-76)	55 (37-65)	45 (30-55)	37 (25-46)	30 (21-38)	25 (18-32)	21 (15-27)	18 (13-23)
5	90 (85-92)	88 (80-91)	85 (72-89)	78 (62-83)	69 (52-75)	60 (44-65)	50 (37-56)	41 (32-47)	34 (27-40)	28 (23-33)	23 (20-28)
6	91	91	90	87	81	74	64	54	45	37	31

**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	41	32	25	20	16	13	11	9.5	8.2	7.1	6.1
1	54 (47-73)	45 (37-63)	36 (29-52)	29 (23-41)	23 (18-32)	19 (14-26)	16 (12-21)	13 (9.9-16)	11 (8.3-13)	9.5 (7.0-11)	8.2 (6.0-9.5)
2	67 (56-81)	58 (46-74)	49 (37-66)	40 (29-56)	32 (23-46)	27 (19-38)	22 (15-31)	18 (12-25)	15 (10-21)	13 (8.7-17)	11 (7.4-14)
3	76 (65-85)	70 (56-81)	61 (47-75)	52 (37-66)	44 (30-57)	37 (24-48)	30 (20-40)	25 (16-34)	21 (14-28)	17 (11-24)	15 (9.6-20)
4	83 (74-88)	79 (66-85)	73 (57-81)	65 (47-75)	56 (39-66)	49 (32-58)	41 (27-50)	34 (23-42)	28 (19-36)	24 (16-30)	20 (14-26)
5	87 (80-89)	84 (75-88)	81 (68-85)	75 (60-81)	69 (52-75)	61 (45-67)	53 (38-59)	45 (33-51)	38 (28-44)	32 (24-37)	26 (21-31)
6	88	88	86	83	78	73	66	58	50	42	35

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

**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	40	33	26	21	18	15	13	11	9.3	8.0	6.9
1	51 (43-68)	44 (35-60)	36 (29-51)	30 (23-42)	25 (19-35)	21 (16-29)	18 (13-24)	15 (11-20)	13 (9.3-16)	11 (7.9-13)	9.3 (6.7-11)
2	62 (51-76)	55 (44-70)	47 (36-63)	40 (29-55)	34 (24-47)	29 (20-41)	24 (17-34)	21 (14-29)	17 (12-24)	15 (9.9-20)	12 (8.3-17)
3	71 (60-81)	65 (53-77)	59 (45-71)	51 (37-64)	45 (31-57)	39 (26-50)	33 (22-43)	28 (18-37)	24 (15-32)	20 (13-27)	17 (11-23)
4	78 (68-84)	74 (61-81)	69 (54-77)	62 (46-72)	56 (40-66)	50 (34-59)	43 (29-53)	37 (25-46)	32 (21-40)	27 (18-34)	23 (16-29)
5	83 (74-86)	80 (69-84)	77 (63-81)	72 (56-77)	67 (50-73)	61 (45-68)	55 (39-62)	48 (34-55)	42 (30-48)	36 (26-42)	30 (22-36)
6	85	84	82	79	76	71	66	60	53	46	40

**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	34	28	23	19	17	14	12	10	8.9	7.6	6.5
1	44 (35-60)	38 (30-53)	32 (24-45)	27 (20-38)	23 (17-33)	20 (14-28)	17 (12-24)	14 (10-20)	12 (8.8-17)	10 (7.5-14)	8.9 (6.3-11)
2	55 (43-68)	48 (37-62)	42 (31-56)	36 (26-49)	31 (22-43)	27 (19-38)	23 (16-33)	20 (13-28)	17 (11-24)	14 (9.5-20)	12 (8.1-17)
3	64 (52-75)	58 (45-70)	52 (39-65)	46 (33-59)	41 (28-53)	36 (24-47)	31 (21-41)	27 (18-36)	23 (15-31)	20 (13-27)	17 (11-23)
4	72 (60-79)	68 (54-76)	62 (47-72)	57 (41-67)	52 (36-62)	46 (32-56)	41 (28-50)	36 (24-45)	31 (20-39)	27 (18-34)	23 (15-29)
5	78 (67-81)	75 (62-80)	71 (56-77)	67 (51-73)	62 (46-69)	57 (41-64)	52 (36-59)	47 (32-53)	41 (28-48)	36 (24-42)	31 (21-37)
6	80	80	78	75	72	68	63	58	52	46	41