

Denmark - The probabilities of a major osteoporotic fracture in men

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 Denmark. 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	32	21	14	9.7	7.2	5.7	4.7	4.1	3.6	3.5	3.3
1	45 (39-54)	30 (27-38)	21 (18-26)	15 (12-18)	11 (8.4-14)	8.6 (6.3-11)	7.1 (4.9-9.2)	6.1 (4.1-8.1)	5.4 (3.6-7.4)	5.2 (3.3-7.2)	4.9 (3.2-6.9)
2	60 (49-74)	43 (35-56)	30 (24-40)	21 (16-29)	16 (11-23)	13 (8.0-19)	10 (6.1-17)	8.9 (5.0-15)	8.0 (4.3-14)	7.6 (4.0-13)	7.2 (3.7-13)
3	73 (60-84)	57 (44-69)	42 (31-52)	30 (22-42)	23 (15-35)	18 (11-29)	15 (8.0-26)	13 (6.5-23)	11 (5.6-21)	11 (5.1-20)	10 (4.8-19)
4	84 (73-90)	70 (56-80)	55 (40-63)	41 (29-51)	32 (22-43)	25 (17-37)	21 (13-32)	18 (10-28)	16 (8.9-26)	15 (8.2-25)	15 (7.7-24)
5	90 (86-92)	82 (74-87)	68 (58-74)	54 (44-60)	43 (34-50)	34 (27-43)	29 (22-37)	24 (19-33)	22 (16-30)	21 (15-29)	20 (14-28)
6	93	89	80	67	55	45	38	33	29	28	27

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

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	34	23	16	12	8.8	7.0	5.7	4.8	4.4	4.1	3.9
1	47 (42-55)	34 (31-40)	24 (21-28)	17 (14-21)	13 (10-16)	10 (7.6-13)	8.5 (6.0-11)	7.2 (4.9-9.6)	6.5 (4.3-8.9)	6.1 (4.0-8.4)	5.7 (3.7-8.0)
2	61 (52-73)	46 (38-57)	33 (28-43)	25 (19-32)	19 (13-26)	15 (9.7-22)	12 (7.4-19)	10 (6.0-17)	9.4 (5.2-16)	8.8 (4.7-15)	8.3 (4.4-14)
3	74 (63-82)	59 (48-69)	45 (36-56)	34 (25-46)	26 (18-39)	21 (13-33)	17 (9.8-29)	15 (7.8-26)	13 (6.7-24)	12 (6.1-23)	12 (5.7-22)
4	83 (74-88)	72 (59-79)	58 (45-66)	46 (34-56)	36 (26-48)	29 (20-41)	24 (16-36)	20 (12-32)	18 (11-30)	17 (9.6-28)	16 (8.9-27)
5	89 (85-90)	82 (75-85)	70 (62-75)	58 (49-65)	47 (39-55)	38 (31-48)	32 (26-42)	27 (22-37)	25 (19-34)	23 (17-32)	22 (16-31)
6	91	88	80	70	59	49	42	36	33	31	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	34	24	18	13	10	8.1	6.7	5.6	5.1	4.7	4.4
1	46 (43-51)	34 (31-39)	25 (22-29)	19 (16-22)	15 (12-18)	12 (8.8-15)	9.7 (6.9-13)	8.2 (5.6-11)	7.5 (5.0-10)	6.9 (4.5-9.6)	6.4 (4.2-9.0)
2	58 (50-68)	45 (39-55)	35 (29-43)	27 (21-34)	21 (15-29)	17 (11-25)	14 (8.7-21)	12 (6.9-18)	11 (6.1-17)	9.9 (5.4-16)	9.2 (5.0-15)
3	70 (61-77)	58 (48-66)	46 (37-57)	36 (27-48)	29 (20-41)	23 (15-36)	19 (11-31)	16 (9.1-27)	15 (7.9-26)	14 (7.0-24)	13 (6.4-23)
4	79 (71-84)	69 (59-75)	57 (46-66)	47 (36-58)	38 (29-50)	31 (23-44)	26 (18-38)	22 (14-34)	20 (12-32)	19 (11-30)	18 (9.9-29)
5	84 (81-87)	78 (72-82)	68 (62-74)	58 (51-66)	49 (42-57)	41 (34-50)	34 (28-44)	30 (24-39)	27 (21-37)	25 (18-35)	24 (17-33)
6	88	84	77	69	60	51	44	38	35	33	31

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

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	33	24	18	14	11	8.9	7.2	6.1	5.5	5.0	4.6
1	43 (40-47)	33 (30-37)	26 (22-29)	20 (16-23)	16 (12-19)	13 (9.5-16)	10 (7.5-13)	8.8 (6.2-12)	8.0 (5.4-11)	7.3 (4.8-10)	6.7 (4.4-9.4)
2	54 (47-62)	44 (38-51)	35 (29-41)	27 (22-35)	22 (16-29)	18 (12-25)	15 (9.5-22)	12 (7.7-19)	11 (6.6-18)	10 (5.8-17)	9.5 (5.2-15)
3	65 (57-71)	54 (47-63)	45 (37-55)	36 (28-48)	29 (21-41)	24 (16-36)	20 (13-31)	17 (10-28)	15 (8.6-26)	14 (7.6-24)	13 (6.8-23)
4	73 (67-78)	65 (56-71)	55 (46-64)	46 (37-56)	38 (30-50)	32 (24-44)	27 (19-38)	23 (15-34)	21 (13-32)	19 (12-30)	18 (10-28)
5	79 (76-83)	73 (68-78)	65 (59-71)	56 (50-64)	48 (42-57)	41 (35-50)	35 (29-44)	30 (24-40)	27 (21-37)	25 (19-35)	23 (17-33)
6	83	79	73	65	58	50	43	38	35	32	30

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	31	24	19	15	12	9.5	7.8	6.6	5.9	5.3	4.8
1	42 (36-49)	33 (28-40)	26 (22-32)	21 (17-25)	17 (13-20)	13 (10-16)	11 (8.0-13)	9.1 (6.6-11)	8.1 (5.7-9.5)	7.2 (5.1-8.6)	6.5 (4.5-7.8)
2	53 (45-62)	44 (36-53)	35 (28-44)	28 (22-36)	23 (17-29)	18 (13-24)	15 (10-20)	12 (8.4-17)	11 (7.2-15)	9.7 (6.2-13)	8.8 (5.5-12)
3	63 (55-71)	55 (46-64)	46 (37-56)	38 (29-48)	31 (22-40)	25 (17-34)	20 (14-28)	17 (11-24)	15 (9.4-22)	13 (8.1-20)	12 (7.1-18)
4	72 (64-77)	65 (56-72)	57 (47-65)	48 (39-57)	40 (31-49)	33 (25-42)	27 (20-35)	22 (16-31)	20 (14-27)	17 (12-25)	15 (11-23)
5	78 (73-82)	73 (67-77)	66 (59-72)	58 (51-65)	50 (43-57)	42 (35-50)	35 (29-42)	29 (24-37)	26 (21-33)	22 (19-29)	20 (16-27)
6	82	79	74	67	60	52	44	38	33	29	26

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

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	30	24	20	16	13	10	8.6	7.5	6.6	5.9	5.3
1	41 (33-59)	34 (27-51)	28 (21-42)	23 (17-34)	18 (14-27)	15 (11-22)	12 (8.7-17)	10 (7.4-14)	9.0 (6.3-11)	7.9 (5.5-9.6)	7.0 (4.9-8.2)
2	52 (41-68)	45 (34-60)	38 (28-53)	32 (22-45)	26 (18-37)	21 (14-30)	17 (11-24)	14 (9.4-20)	12 (8.0-17)	11 (6.9-14)	9.4 (6.1-12)
3	63 (49-75)	56 (42-69)	49 (35-62)	42 (29-54)	35 (23-47)	29 (19-40)	24 (15-33)	20 (12-28)	17 (11-24)	15 (9.1-20)	13 (7.9-18)
4	71 (58-79)	66 (51-75)	60 (44-69)	53 (37-63)	46 (31-56)	39 (25-49)	32 (21-41)	27 (17-35)	23 (15-30)	20 (13-26)	17 (11-22)
5	78 (66-82)	74 (60-79)	69 (53-75)	63 (47-70)	57 (40-64)	50 (34-57)	42 (28-50)	36 (25-43)	31 (21-37)	26 (19-32)	22 (17-28)
6	82	80	77	72	67	60	53	47	40	35	30

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	27	23	19	16	13	11	8.9	7.8	6.9	6.1	5.5
1	37 (29-54)	31 (24-47)	26 (20-40)	22 (16-34)	18 (13-28)	15 (11-23)	13 (8.9-19)	11 (7.7-16)	9.5 (6.6-13)	8.4 (5.8-11)	7.4 (5.1-9.4)
2	47 (36-62)	41 (30-56)	35 (25-50)	30 (21-43)	25 (17-36)	21 (14-30)	18 (12-25)	15 (10-22)	13 (8.6-18)	11 (7.4-16)	9.9 (6.4-13)
3	57 (43-69)	51 (38-64)	45 (32-58)	39 (27-51)	34 (23-45)	29 (19-39)	24 (15-33)	21 (13-28)	18 (11-24)	15 (9.7-21)	13 (8.4-18)
4	66 (51-74)	61 (45-70)	55 (40-65)	49 (34-59)	43 (29-53)	38 (24-47)	32 (21-41)	28 (18-35)	24 (15-31)	21 (13-27)	18 (12-24)
5	73 (59-78)	69 (54-75)	64 (48-71)	59 (42-66)	53 (36-60)	47 (31-54)	41 (27-48)	36 (24-43)	32 (21-38)	28 (18-34)	24 (16-30)
6	78	76	72	68	63	57	51	46	41	36	31

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

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	23	19	17	14	12	9.8	8.5	7.5	6.6	5.9	5.2
1	31 (24-47)	27 (20-41)	23 (17-36)	20 (14-31)	17 (12-26)	14 (9.9-22)	12 (8.4-19)	11 (7.3-16)	9.3 (6.3-14)	8.2 (5.6-12)	7.2 (4.9-10)
2	41 (30-56)	36 (26-51)	31 (22-45)	27 (19-39)	23 (16-34)	20 (13-29)	17 (11-25)	15 (9.6-22)	13 (8.4-19)	11 (7.3-16)	9.9 (6.3-14)
3	51 (38-64)	46 (33-59)	41 (28-53)	36 (24-48)	31 (20-42)	27 (17-37)	23 (15-32)	21 (13-28)	18 (11-25)	16 (9.6-21)	14 (8.4-19)
4	60 (45-69)	56 (40-65)	51 (35-61)	46 (31-56)	41 (27-50)	36 (23-45)	31 (19-40)	28 (17-35)	24 (15-31)	21 (13-28)	19 (11-24)
5	68 (53-73)	65 (48-70)	60 (43-67)	56 (38-62)	51 (33-58)	45 (29-52)	41 (25-47)	36 (22-43)	32 (20-39)	29 (18-35)	25 (16-31)
6	73	72	69	65	61	56	51	46	42	37	33

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	18	16	13	12	9.9	8.4	7.4	6.6	5.9	5.3	4.7
1	25 (19-39)	22 (16-35)	19 (14-30)	17 (12-27)	14 (10-23)	12 (8.5-20)	11 (7.4-17)	9.5 (6.5-15)	8.5 (5.8-13)	7.5 (5.1-12)	6.7 (4.5-10)
2	34 (24-48)	30 (21-43)	26 (18-39)	23 (15-34)	20 (13-30)	17 (11-26)	15 (9.9-23)	14 (8.7-21)	12 (7.7-18)	11 (6.8-16)	9.5 (6.0-14)
3	43 (30-56)	39 (27-51)	35 (23-47)	31 (20-42)	27 (17-38)	24 (15-34)	21 (13-30)	19 (12-27)	17 (10-24)	15 (9.1-21)	13 (8.0-19)
4	52 (37-62)	49 (33-59)	45 (30-55)	40 (26-50)	36 (23-46)	32 (20-41)	29 (18-37)	26 (16-34)	23 (14-31)	21 (12-27)	19 (11-24)
5	61 (45-67)	58 (41-64)	54 (37-61)	50 (33-57)	46 (29-53)	42 (25-48)	38 (23-45)	35 (20-41)	31 (18-37)	28 (16-34)	25 (15-31)
6	67	65	63	60	56	52	48	45	41	37	34