

Denmark - 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 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	27	15	8.1	4.4	2.3	1.2	0.6	0.3	0.2	0.1	0.1
1	39 (28-48)	23 (16-29)	13 (8.5-17)	6.9 (4.6-9.1)	3.7 (2.4-4.9)	1.9 (1.3-2.6)	1.0 (0.7-1.4)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	53 (37-68)	33 (21-46)	19 (12-28)	11 (6.4-16)	5.8 (3.4-8.8)	3.1 (1.8-4.7)	1.6 (0.9-2.5)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
3	67 (50-82)	46 (31-63)	29 (18-42)	16 (9.6-25)	9.0 (5.2-14)	4.9 (2.7-7.8)	2.6 (1.4-4.2)	1.4 (0.8-2.2)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.4)
4	80 (67-89)	61 (46-76)	41 (28-56)	24 (16-36)	14 (8.6-21)	7.5 (4.6-12)	4.0 (2.5-6.3)	2.1 (1.3-3.4)	1.1 (0.7-1.8)	0.6 (0.4-1.0)	0.3 (0.2-0.5)
5	88 (83-92)	75 (66-85)	55 (44-68)	35 (27-46)	20 (15-28)	11 (8.4-16)	6.2 (4.5-8.9)	3.3 (2.4-4.8)	1.8 (1.3-2.6)	1.0 (0.7-1.4)	0.5 (0.4-0.8)
6	92	86	69	48	30	17	9.3	5.0	2.7	1.5	0.8

Ten year probability of hip 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	28	16	9.3	5.2	2.8	1.6	0.9	0.5	0.3	0.2	0.1
1	39 (29-47)	24 (17-29)	14 (9.7-17)	8.0 (5.4-9.9)	4.5 (3.0-5.5)	2.5 (1.6-3.1)	1.3 (0.9-1.7)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	53 (38-66)	35 (23-46)	21 (14-29)	12 (7.6-17)	6.9 (4.2-9.9)	3.8 (2.3-5.5)	2.1 (1.3-3.0)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	66 (51-79)	47 (33-62)	30 (20-43)	18 (11-27)	10 (6.4-16)	5.9 (3.5-9.0)	3.2 (1.9-5.0)	1.8 (1.1-2.8)	1.0 (0.6-1.6)	0.6 (0.3-0.9)	0.3 (0.2-0.5)
4	78 (68-86)	61 (48-74)	42 (31-56)	26 (18-37)	16 (10-23)	8.9 (5.9-13)	5.0 (3.2-7.6)	2.7 (1.8-4.2)	1.5 (1.0-2.4)	0.9 (0.6-1.4)	0.5 (0.3-0.8)
5	86 (82-90)	74 (66-83)	55 (47-67)	37 (30-48)	23 (18-31)	13 (10-18)	7.5 (5.8-11)	4.2 (3.2-6.0)	2.4 (1.8-3.4)	1.3 (1.0-1.9)	0.8 (0.6-1.1)
6	90	83	69	50	32	19	11	6.2	3.6	2.0	1.2

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	26	16	9.7	5.7	3.4	2.0	1.1	0.7	0.4	0.2	0.1
1	36 (27-41)	23 (17-27)	14 (10-17)	8.7 (6.0-10)	5.1 (3.5-6.0)	3.0 (2.1-3.5)	1.8 (1.2-2.1)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.3-0.4)	0.2 (0.2-0.3)
2	48 (36-59)	33 (23-42)	21 (14-28)	13 (8.4-17)	7.7 (5.0-11)	4.6 (2.9-6.3)	2.7 (1.7-3.7)	1.6 (1.0-2.2)	0.9 (0.6-1.3)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
3	60 (48-71)	44 (32-56)	30 (21-40)	19 (13-26)	11 (7.5-16)	6.9 (4.4-10)	4.1 (2.6-6.0)	2.4 (1.5-3.5)	1.4 (0.9-2.1)	0.9 (0.5-1.3)	0.5 (0.3-0.8)
4	71 (63-80)	56 (46-68)	40 (31-52)	27 (20-36)	17 (12-24)	10 (7.2-15)	6.1 (4.2-8.9)	3.6 (2.5-5.3)	2.2 (1.5-3.2)	1.3 (0.9-2.0)	0.8 (0.5-1.2)
5	80 (76-85)	68 (62-76)	52 (46-63)	36 (31-47)	24 (20-32)	15 (12-20)	8.9 (7.4-12)	5.3 (4.4-7.5)	3.2 (2.7-4.6)	2.0 (1.6-2.8)	1.2 (1.0-1.7)
6	85	78	64	48	33	21	13	7.8	4.8	2.9	1.8

Ten year probability of hip 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	24	16	10	6.3	3.9	2.4	1.5	0.9	0.6	0.4	0.2
1	33 (25-36)	22 (16-25)	14 (10-17)	9.3 (6.6-11)	5.8 (4.1-6.8)	3.6 (2.6-4.2)	2.3 (1.6-2.6)	1.4 (1.0-1.6)	0.9 (0.6-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.4)
2	43 (33-51)	30 (22-37)	21 (14-26)	13 (9.2-17)	8.6 (5.8-11)	5.4 (3.6-7.0)	3.4 (2.2-4.4)	2.1 (1.4-2.7)	1.3 (0.9-1.8)	0.9 (0.6-1.1)	0.5 (0.4-0.7)
3	54 (45-63)	40 (31-49)	28 (21-36)	19 (14-25)	12 (8.7-17)	7.9 (5.5-11)	5.0 (3.4-6.8)	3.1 (2.1-4.3)	2.0 (1.4-2.8)	1.3 (0.9-1.8)	0.8 (0.6-1.1)
4	64 (57-72)	51 (43-61)	38 (31-47)	26 (21-34)	18 (13-24)	11 (8.6-16)	7.2 (5.4-10)	4.6 (3.4-6.5)	2.9 (2.2-4.2)	1.9 (1.4-2.7)	1.2 (0.9-1.7)
5	73 (69-78)	61 (57-69)	48 (44-57)	35 (32-44)	24 (21-31)	16 (14-21)	10 (8.9-14)	6.6 (5.7-9.1)	4.3 (3.6-5.9)	2.8 (2.3-3.8)	1.8 (1.5-2.5)
6	79	70	59	45	33	22	15	9.5	6.2	4.0	2.6

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	22	15	10	7.0	4.7	3.1	2.0	1.3	0.9	0.6	0.4
1	32 (29-40)	23 (21-29)	16 (14-21)	11 (9.8-14)	7.5 (6.5-9.6)	5.0 (4.3-6.4)	3.3 (2.9-4.3)	2.2 (1.9-2.9)	1.5 (1.3-1.9)	1.0 (0.9-1.3)	0.7 (0.6-0.9)
2	44 (39-52)	34 (29-41)	25 (21-31)	17 (14-22)	12 (9.8-15)	8.0 (6.5-11)	5.3 (4.3-7.1)	3.6 (2.9-4.8)	2.4 (2.0-3.3)	1.7 (1.3-2.2)	1.1 (0.9-1.5)
3	57 (50-64)	46 (39-53)	35 (29-42)	26 (21-31)	18 (14-23)	13 (9.8-16)	8.5 (6.6-11)	5.8 (4.4-7.3)	4.0 (3.0-5.0)	2.7 (2.0-3.4)	1.8 (1.4-2.3)
4	67 (60-72)	58 (50-64)	47 (40-53)	36 (29-42)	27 (21-31)	19 (15-23)	13 (9.9-16)	9.1 (6.8-11)	6.3 (4.7-7.6)	4.3 (3.2-5.2)	3.0 (2.2-3.6)
5	75 (69-78)	68 (61-72)	59 (51-63)	48 (41-52)	38 (31-41)	28 (22-31)	20 (16-22)	14 (11-16)	9.9 (7.6-11)	6.9 (5.3-7.8)	4.8 (3.6-5.4)
6	81	76	69	60	50	39	29	21	15	11	7.5

Ten year probability of hip 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	21	15	11	7.8	5.5	3.9	2.7	1.9	1.4	1.0	0.7
1	32 (27-55)	25 (20-46)	19 (15-37)	14 (11-28)	10 (7.7-21)	7.3 (5.4-15)	5.2 (3.8-11)	3.7 (2.7-8.1)	2.7 (2.0-5.9)	1.9 (1.4-4.2)	1.4 (1.0-3.0)
2	45 (34-65)	37 (27-57)	30 (20-48)	23 (15-38)	17 (11-30)	13 (7.6-23)	9.2 (5.4-17)	6.7 (3.9-13)	4.9 (2.8-9.3)	3.6 (2.0-6.8)	2.6 (1.4-5.0)
3	58 (43-72)	50 (35-65)	42 (27-58)	34 (20-49)	27 (15-40)	20 (11-32)	15 (7.7-24)	11 (5.6-18)	8.5 (4.1-14)	6.2 (3.0-10)	4.5 (2.1-7.4)
4	68 (52-78)	62 (44-72)	55 (35-66)	47 (28-58)	39 (21-49)	31 (16-40)	24 (11-32)	18 (8.4-25)	14 (6.2-19)	10 (4.5-14)	7.7 (3.2-10)
5	77 (61-81)	72 (54-77)	66 (45-72)	59 (37-66)	51 (29-58)	43 (22-49)	35 (17-40)	28 (13-32)	22 (9.4-25)	17 (7.0-19)	12 (5.1-14)
6	82	79	76	70	64	56	48	40	32	25	19

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	18	14	11	8.0	6.0	4.4	3.3	2.5	1.9	1.5	1.1
1	28 (23-49)	23 (18-42)	18 (14-35)	14 (10-28)	11 (7.8-22)	8.1 (5.8-17)	6.1 (4.3-13)	4.7 (3.3-10)	3.6 (2.5-8.0)	2.8 (1.9-6.1)	2.1 (1.4-4.7)
2	40 (28-59)	33 (22-52)	27 (18-45)	22 (14-38)	17 (10-31)	14 (7.9-24)	10 (6.0-19)	8.2 (4.6-15)	6.3 (3.5-12)	4.9 (2.7-9.3)	3.7 (2.0-7.2)
3	51 (35-67)	45 (29-61)	38 (23-54)	32 (18-47)	26 (14-40)	21 (11-33)	17 (8.3-27)	13 (6.4-22)	10 (4.9-17)	8.2 (3.8-14)	6.4 (2.9-11)
4	62 (44-72)	56 (37-68)	50 (30-62)	43 (25-55)	37 (20-48)	31 (15-41)	25 (12-34)	20 (9.3-28)	16 (7.3-23)	13 (5.7-18)	10 (4.4-15)
5	71 (53-76)	66 (47-72)	61 (40-67)	55 (33-61)	49 (27-55)	42 (22-48)	35 (17-41)	30 (14-34)	24 (11-29)	20 (8.4-23)	16 (6.5-19)
6	77	75	71	66	60	54	47	41	35	29	24

Ten year probability of hip 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	15	12	9.3	7.4	5.8	4.5	3.6	2.9	2.3	1.9	1.5
1	23 (18-43)	19 (15-37)	16 (12-31)	13 (9.5-26)	10 (7.5-21)	8.2 (5.9-17)	6.6 (4.7-14)	5.3 (3.8-12)	4.3 (3.0-9.5)	3.5 (2.4-7.7)	2.8 (2.0-6.2)
2	34 (23-53)	29 (19-47)	24 (15-41)	20 (12-35)	17 (9.8-30)	14 (7.8-24)	11 (6.2-20)	9.1 (5.1-17)	7.4 (4.1-14)	6.0 (3.3-11)	4.9 (2.7-9.3)
3	45 (30-61)	40 (25-55)	35 (20-50)	30 (17-44)	25 (13-38)	21 (11-32)	17 (8.6-27)	14 (7.0-23)	12 (5.7-20)	9.9 (4.6-16)	8.1 (3.7-13)
4	56 (37-67)	51 (32-63)	46 (27-58)	40 (22-52)	35 (18-46)	30 (15-40)	26 (12-35)	22 (10-30)	18 (8.2-26)	15 (6.7-22)	13 (5.4-18)
5	66 (47-72)	62 (41-68)	57 (36-64)	52 (30-58)	47 (25-53)	41 (21-47)	36 (17-41)	31 (15-36)	27 (12-31)	23 (9.9-27)	19 (8.1-23)
6	73	71	67	63	58	53	47	42	37	32	28

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	11	9.0	7.4	6.1	5.0	4.1	3.5	2.9	2.4	2.1	1.7
1	18 (14-35)	15 (11-30)	13 (9.5-26)	11 (7.9-22)	9.0 (6.5-19)	7.4 (5.4-16)	6.3 (4.5-14)	5.3 (3.8-12)	4.5 (3.2-10)	3.8 (2.7-8.5)	3.2 (2.3-7.2)
2	27 (17-44)	23 (15-40)	20 (12-35)	17 (10-30)	15 (8.5-26)	12 (7.0-23)	11 (5.9-19)	9.0 (5.0-17)	7.7 (4.2-15)	6.6 (3.6-12)	5.6 (3.0-11)
3	37 (23-53)	33 (20-48)	29 (17-43)	26 (14-39)	22 (12-34)	19 (9.7-30)	17 (8.2-26)	14 (7.0-23)	12 (5.9-20)	11 (5.0-17)	9.1 (4.3-15)
4	48 (30-60)	44 (26-56)	40 (22-51)	36 (19-47)	32 (16-42)	28 (13-37)	25 (12-33)	22 (9.9-30)	19 (8.5-26)	16 (7.2-23)	14 (6.1-20)
5	59 (39-65)	55 (34-61)	51 (30-57)	47 (26-53)	43 (22-49)	38 (19-44)	34 (17-40)	31 (14-36)	27 (12-32)	24 (11-28)	21 (9.1-25)
6	66	64	61	58	54	49	46	42	38	34	30