

Denmark - 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 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	20	11	5.6	2.9	1.5	0.8	0.4	0.2	0.1	0.1	0.0	
1	30 (21-38)	17 (11-21)	8.9 (5.9-12)	4.6 (3.0-6.1)	2.4 (1.6-3.1)	1.2 (0.8-1.6)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	
2	43 (28-58)	25 (16-36)	14 (8.3-21)	7.4 (4.3-11)	3.8 (2.2-5.8)	2.0 (1.1-3.0)	1.0 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
3	58 (40-77)	37 (23-54)	21 (12-33)	11 (6.5-18)	6.0 (3.4-9.9)	3.1 (1.7-5.2)	1.6 (0.9-2.7)	0.8 (0.5-1.4)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	
4	74 (58-88)	51 (36-69)	31 (20-45)	17 (11-27)	9.3 (5.8-15)	4.9 (3.0-7.8)	2.5 (1.5-4.0)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	
5	86 (79-94)	67 (56-80)	44 (35-58)	26 (20-36)	14 (11-20)	7.5 (5.5-11)	3.9 (2.8-5.7)	2.1 (1.5-3.0)	1.1 (0.8-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	
6	94	82	59	37	21	11	6.0	3.2	1.7	0.9	0.5	

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	21	12	6.6	3.6	1.9	1.0	0.6	0.3	0.2	0.1	0.1
1	31 (22-37)	18 (13-22)	10 (6.9-13)	5.7 (3.8-7.0)	3.1 (2.0-3.8)	1.7 (1.1-2.1)	0.9 (0.6-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	44 (30-58)	27 (17-37)	16 (9.7-22)	8.8 (5.3-13)	4.8 (2.9-7.0)	2.6 (1.6-3.8)	1.4 (0.8-2.1)	0.8 (0.5-1.2)	0.4 (0.3-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
3	59 (42-76)	39 (25-55)	23 (14-35)	13 (8.0-21)	7.5 (4.4-12)	4.1 (2.4-6.5)	2.2 (1.3-3.5)	1.2 (0.7-2.0)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
4	73 (60-87)	53 (39-69)	34 (24-48)	20 (13-30)	11 (7.4-17)	6.3 (4.1-9.7)	3.4 (2.2-5.3)	1.9 (1.2-3.0)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
5	86 (80-92)	68 (60-80)	47 (39-60)	29 (24-39)	17 (13-24)	9.5 (7.5-14)	5.2 (4.1-7.5)	2.9 (2.3-4.2)	1.6 (1.3-2.4)	0.9 (0.7-1.3)	0.5 (0.4-0.7)
6	93	82	62	41	25	14	7.9	4.5	2.5	1.4	0.8

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	23	13	7.7	4.4	2.5	1.4	0.8	0.5	0.3	0.2	0.1
1	33 (24-38)	20 (14-23)	12 (8.1-14)	6.7 (4.6-8.0)	3.8 (2.6-4.5)	2.1 (1.4-2.6)	1.2 (0.8-1.5)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	45 (32-57)	29 (19-38)	18 (11-24)	10 (6.5-14)	5.9 (3.7-8.1)	3.3 (2.1-4.6)	1.9 (1.2-2.6)	1.1 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	60 (44-74)	41 (28-55)	26 (17-37)	15 (9.7-23)	8.9 (5.5-13)	5.1 (3.1-7.7)	2.9 (1.8-4.5)	1.7 (1.0-2.6)	1.0 (0.6-1.5)	0.6 (0.3-0.9)	0.3 (0.2-0.5)
4	73 (62-85)	54 (43-69)	36 (27-50)	22 (16-32)	13 (9.3-20)	7.7 (5.3-12)	4.4 (3.0-6.7)	2.6 (1.8-3.9)	1.5 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.8)
5	85 (81-91)	69 (63-80)	49 (43-62)	32 (27-42)	19 (16-27)	11 (9.4-16)	6.7 (5.5-9.4)	3.9 (3.2-5.6)	2.3 (1.9-3.3)	1.3 (1.1-1.9)	0.8 (0.6-1.1)
6	91	81	63	44	28	17	9.9	5.8	3.4	2.0	1.2

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	15	9.0	5.3	3.1	1.8	1.1	0.7	0.4	0.2	0.1
1	35 (26-40)	22 (16-26)	13 (9.5-16)	8.1 (5.6-9.6)	4.8 (3.3-5.7)	2.8 (1.9-3.3)	1.7 (1.2-2.0)	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	47 (34-56)	31 (22-39)	20 (13-25)	12 (7.9-16)	7.2 (4.6-9.4)	4.2 (2.7-5.6)	2.6 (1.6-3.4)	1.5 (1.0-2.1)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
3	60 (47-72)	43 (31-55)	28 (19-38)	18 (12-25)	11 (7.0-15)	6.4 (4.1-9.2)	3.9 (2.5-5.6)	2.3 (1.5-3.4)	1.4 (0.9-2.1)	0.9 (0.5-1.3)	0.5 (0.3-0.8)
4	73 (64-83)	56 (46-69)	39 (30-51)	25 (19-35)	16 (11-22)	9.4 (6.8-14)	5.8 (4.1-8.5)	3.5 (2.5-5.2)	2.1 (1.5-3.2)	1.3 (0.9-1.9)	0.8 (0.6-1.2)
5	83 (80-89)	69 (63-79)	51 (45-63)	35 (30-45)	22 (19-30)	14 (11-19)	8.5 (7.0-12)	5.2 (4.3-7.3)	3.2 (2.6-4.5)	1.9 (1.6-2.7)	1.2 (0.9-1.6)
6	89	80	65	47	31	20	12	7.7	4.7	2.9	1.7

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	27	18	11	6.8	4.2	2.6	1.6	1.0	0.7	0.4	0.3
1	41 (36-48)	27 (24-34)	18 (15-22)	11 (9.6-14)	7.0 (5.9-8.8)	4.3 (3.7-5.5)	2.8 (2.3-3.5)	1.7 (1.5-2.2)	1.1 (0.9-1.4)	0.7 (0.6-0.9)	0.4 (0.4-0.5)
2	56 (49-67)	41 (34-51)	28 (22-36)	18 (14-24)	11 (8.9-15)	7.2 (5.6-9.7)	4.6 (3.5-6.3)	2.9 (2.2-4.0)	1.8 (1.4-2.5)	1.2 (0.9-1.6)	0.7 (0.6-1.0)
3	72 (63-79)	57 (47-66)	41 (32-50)	28 (21-35)	18 (13-24)	12 (8.5-16)	7.5 (5.4-10)	4.8 (3.4-6.5)	3.1 (2.2-4.2)	1.9 (1.4-2.6)	1.2 (0.9-1.7)
4	83 (77-86)	72 (63-77)	57 (47-64)	41 (32-48)	28 (21-34)	19 (14-23)	12 (8.9-15)	7.9 (5.7-9.9)	5.1 (3.6-6.4)	3.2 (2.3-4.1)	2.0 (1.4-2.6)
5	89 (86-90)	83 (77-85)	72 (64-76)	57 (49-62)	42 (34-46)	29 (23-32)	19 (15-22)	13 (10-15)	8.3 (6.4-9.6)	5.3 (4.1-6.1)	3.4 (2.6-3.9)
6	91	89	83	72	57	42	30	20	13	8.6	5.5

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	21	14	8.9	5.7	3.8	2.5	1.7	1.1	0.7	0.5
1	47 (39-73)	35 (28-60)	24 (19-46)	17 (12-33)	11 (8.1-23)	7.5 (5.4-15)	5.0 (3.6-11)	3.3 (2.4-7.1)	2.2 (1.6-4.7)	1.5 (1.0-3.1)	1.0 (0.7-2.1)
2	63 (50-83)	51 (37-74)	39 (26-63)	28 (17-49)	20 (11-36)	14 (7.6-26)	9.3 (5.0-18)	6.2 (3.3-12)	4.2 (2.2-8.3)	2.8 (1.5-5.5)	1.8 (1.0-3.7)
3	76 (63-87)	67 (49-82)	56 (36-74)	43 (25-62)	32 (17-48)	23 (11-37)	16 (7.6-27)	11 (5.1-19)	7.5 (3.4-13)	5.1 (2.2-8.8)	3.4 (1.5-5.9)
4	84 (74-90)	79 (63-87)	71 (49-81)	60 (36-73)	47 (25-61)	36 (18-49)	27 (12-37)	19 (8.1-27)	13 (5.5-19)	8.9 (3.6-13)	6.0 (2.4-8.9)
5	89 (82-91)	86 (75-89)	82 (64-86)	74 (51-80)	64 (39-71)	53 (28-60)	41 (20-47)	30 (14-36)	22 (9.4-26)	15 (6.3-18)	10 (4.2-12)
6	90	90	88	84	78	69	58	46	34	24	17

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	31	22	16	11	7.4	5.2	3.6	2.5	1.7	1.2	0.8
1	46 (38-71)	36 (28-61)	27 (20-49)	19 (14-37)	14 (9.6-28)	9.8 (6.8-20)	7.0 (4.7-15)	4.9 (3.3-10)	3.4 (2.3-7.4)	2.4 (1.6-5.2)	1.6 (1.1-3.6)
2	60 (48-80)	51 (36-72)	40 (27-63)	31 (19-52)	23 (13-41)	17 (9.5-32)	12 (6.7-24)	8.9 (4.7-17)	6.3 (3.2-12)	4.4 (2.2-8.8)	3.1 (1.6-6.2)
3	72 (58-84)	64 (48-80)	55 (37-73)	45 (27-64)	36 (19-53)	28 (14-43)	21 (10-33)	15 (7.0-25)	11 (4.9-18)	7.8 (3.4-13)	5.5 (2.4-9.5)
4	80 (68-87)	75 (59-84)	68 (48-79)	60 (37-72)	50 (28-63)	41 (21-54)	32 (15-44)	24 (11-35)	18 (7.7-26)	13 (5.4-19)	9.4 (3.8-14)
5	85 (76-88)	82 (69-86)	78 (61-83)	72 (50-78)	65 (40-71)	56 (31-63)	46 (24-54)	37 (17-44)	28 (13-34)	21 (9.0-26)	15 (6.4-19)
6	87	87	85	81	76	70	62	52	42	32	24

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	28	21	16	11	8.5	6.3	4.7	3.4	2.5	1.8	1.3
1	42 (35-66)	34 (27-57)	26 (20-48)	20 (15-39)	15 (11-31)	12 (8.2-24)	8.8 (6.1-18)	6.5 (4.5-14)	4.8 (3.3-10)	3.6 (2.4-7.7)	2.6 (1.8-5.7)
2	55 (43-75)	47 (35-68)	39 (27-60)	31 (20-51)	25 (15-43)	20 (11-35)	15 (8.5-28)	12 (6.3-22)	8.7 (4.7-17)	6.5 (3.4-13)	4.8 (2.5-9.4)
3	67 (52-80)	60 (44-75)	52 (35-69)	44 (27-62)	37 (21-54)	30 (16-46)	24 (12-38)	19 (9.4-30)	15 (7.0-24)	11 (5.2-18)	8.3 (3.8-14)
4	76 (62-83)	71 (54-80)	65 (46-76)	58 (37-70)	50 (30-63)	43 (23-56)	36 (18-47)	29 (14-39)	23 (10-32)	18 (7.8-25)	14 (5.8-20)
5	81 (70-85)	79 (64-83)	75 (56-80)	69 (48-75)	63 (40-69)	57 (33-63)	49 (26-56)	42 (21-48)	34 (16-41)	28 (12-33)	22 (9.2-26)
6	83	83	82	78	74	69	63	56	48	40	32

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	22	18	14	11	8.3	6.5	5.1	4.0	3.1	2.4	1.8
1	34 (28-57)	28 (22-50)	23 (17-43)	18 (14-36)	15 (11-30)	12 (8.5-24)	9.4 (6.7-20)	7.4 (5.2-16)	5.8 (4.1-13)	4.6 (3.1-9.9)	3.6 (2.4-7.8)
2	47 (35-67)	40 (28-61)	34 (23-54)	28 (18-47)	24 (15-40)	19 (12-34)	16 (9.3-29)	13 (7.3-23)	10 (5.7-19)	8.1 (4.4-15)	6.4 (3.4-12)
3	59 (43-74)	53 (36-69)	47 (30-63)	40 (24-57)	35 (20-51)	30 (16-45)	25 (13-38)	20 (10-32)	17 (8.2-27)	13 (6.4-22)	11 (5.0-18)
4	69 (53-78)	64 (46-75)	59 (39-70)	53 (33-65)	47 (28-60)	42 (23-54)	36 (19-48)	31 (15-41)	26 (12-35)	21 (9.6-29)	17 (7.5-24)
5	76 (62-80)	73 (56-78)	69 (49-75)	65 (43-71)	60 (37-66)	55 (32-61)	49 (26-55)	43 (22-49)	37 (18-43)	31 (14-37)	26 (12-31)
6	79	79	77	74	71	67	62	56	50	44	38