Denmark - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip fracture according to body mass index (BMI kg/m2), 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.

Age = 50 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	1.3	0.7	0.4	0.3	0.2	0.2	0.1
1	2.6 (1.7-5.1)	1.4 (0.9-2.8)	0.8 (0.5-1.5)	0.6 (0.4-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.5)
2	5.0 (2.5-10)	2.8 (1.4-5.8)	1.5 (0.7-3.2)	1.2 (0.6-2.5)	0.9 (0.5-1.9)	0.7 (0.4-1.5)	0.5 (0.3-1.2)
3	9.3 (3.8-18)	5.2 (2.1-10)	2.8 (1.1-5.6)	2.2 (0.9-4.3)	1.7 (0.7-3.4)	1.3 (0.5-2.6)	1.0 (0.4-2.1)
4	16 (6.7-26)	9.3 (3.7-15)	5.2 (2.0-8.4)	4.0 (1.6-6.6)	3.2 (1.2-5.1)	2.5 (0.9-4.0)	1.9 (0.7-3.1)
5	28 (14-36)	16 (7.7-22)	9.2 (4.3-12)	7.2 (3.3-9.7)	5.7 (2.6-7.6)	4.4 (2.0-6.0)	3.4 (1.6-4.7)
6	44	27	16	13	9.9	7.8	6.1

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.4	1.3	0.7	0.5	0.4	0.3	0.3
1	4.5 (3.1-7.9)	2.5 (1.7-4.4)	1.4 (0.9-2.4)	1.1 (0.7-1.8)	0.8 (0.6-1.4)	0.6 (0.4-1.1)	0.5 (0.3-0.9)
2	8.4 (4.6-16)	4.7 (2.5-9.1)	2.6 (1.4-5.0)	2.0 (1.1-3.9)	1.5 (0.8-3.1)	1.2 (0.7-2.4)	0.9 (0.5-1.9)
3	15 (7.0-26)	8.4 (3.9-15)	4.7 (2.1-8.7)	3.6 (1.6-6.8)	2.8 (1.3-5.3)	2.2 (1.0-4.2)	1.7 (0.8-3.2)
4	25 (12-37)	15 (6.7-23)	8.3 (3.7-13)	6.5 (2.9-10)	5.1 (2.2-8.1)	4.0 (1.7-6.3)	3.1 (1.4-4.9)
5	40 (23-49)	25 (14-32)	14 (7.8-19)	11 (6.1-15)	8.9 (4.7-12)	7.0 (3.7-9.3)	5.5 (2.9-7.3)
6	59	39	24	19	15	12	9.5

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	4.3	2.4	1.3	1.0	0.8	0.6	0.5
1	7.7 (5.6-12)	4.3 (3.1-6.8)	2.4 (1.7-3.7)	1.9 (1.3-2.9)	1.4 (1.0-2.3)	1.1 (0.8-1.8)	0.9 (0.6-1.4)
2	14 (8.1-23)	7.8 (4.6-14)	4.3 (2.5-7.8)	3.4 (2.0-6.1)	2.6 (1.5-4.8)	2.0 (1.2-3.7)	1.6 (0.9-2.9)
3	23 (12-37)	13 (6.9-23)	7.6 (3.9-13)	6.0 (3.0-11)	4.7 (2.3-8.3)	3.6 (1.8-6.5)	2.8 (1.4-5.1)
4	36 (20-50)	22 (12-33)	13 (6.7-20)	10 (5.3-16)	8.1 (4.1-12)	6.4 (3.2-9.7)	5.0 (2.5-7.6)
5	53 (37-62)	36 (23-44)	22 (14-28)	17 (11-22)	14 (8.5-18)	11 (6.6-14)	8.5 (5.2-11)
6	71	53	35	28	23	18	14

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

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	7.4	4.2	2.3	1.8	1.4	1.1	0.8
1	13 (9.6-17)	7.3 (5.5-10)	4.1 (3.1-5.7)	3.2 (2.4-4.5)	2.5 (1.8-3.5)	1.9 (1.4-2.7)	1.5 (1.1-2.1)
2	21 (14-32)	12 (8.0-20)	7.1 (4.5-12)	5.6 (3.5-9.1)	4.3 (2.7-7.2)	3.4 (2.1-5.6)	2.6 (1.6-4.4)
3	32 (20-48)	20 (12-32)	12 (6.8-20)	9.5 (5.3-16)	7.4 (4.1-12)	5.8 (3.2-9.7)	4.5 (2.5-7.6)
4	47 (32-62)	32 (20-44)	20 (12-28)	16 (9.2-23)	12 (7.2-18)	9.8 (5.6-14)	7.7 (4.4-11)
5	64 (52-71)	47 (36-56)	31 (23-38)	25 (18-31)	20 (14-25)	16 (11-20)	13 (8.9-16)
6	78	65	47	39	32	26	21

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	12	7.4	4.3	3.3	2.6	2.0	1.5
1	21 (17-24)	13 (11-15)	7.7 (6.2-8.9)	6.0 (4.8-7.0)	4.7 (3.7-5.4)	3.6 (2.9-4.2)	2.8 (2.2-3.3)
2	34 (24-44)	23 (16-29)	14 (9.3-18)	11 (7.3-14)	8.4 (5.7-11)	6.6 (4.4-8.8)	5.1 (3.4-6.9)
3	51 (38-63)	36 (26-49)	23 (16-33)	19 (12-27)	15 (9.8-22)	12 (7.6-17)	9.1 (5.9-14)
4	67 (56-77)	54 (43-67)	38 (29-50)	31 (23-42)	25 (19-35)	20 (15-28)	16 (12-23)
5	79 (75-84)	71 (66-78)	56 (51-64)	48 (43-56)	40 (35-47)	33 (28-39)	27 (23-32)
6	85	83	75	67	58	50	42

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

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	19	13	7.6	5.9	4.6	3.6	2.7
1	33 (25-50)	23 (17-36)	14 (11-24)	11 (8.3-19)	8.9 (6.5-15)	7.0 (5.0-12)	5.4 (3.9-9.3)
2	49 (35-67)	38 (24-55)	26 (16-41)	21 (12-34)	16 (9.7-27)	13 (7.6-22)	10 (5.9-17)
3	64 (48-79)	55 (38-71)	42 (26-60)	35 (21-51)	28 (16-43)	23 (13-35)	18 (10-29)
4	76 (63-85)	71 (55-82)	61 (41-76)	53 (34-69)	45 (28-61)	37 (22-52)	31 (18-44)
5	83 (75-87)	81 (70-87)	77 (61-84)	70 (53-79)	63 (45-73)	55 (37-65)	47 (30-57)
6	87	87	86	83	78	72	65

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	26	18	12	9.3	7.2	5.6	4.3
1	39 (31-57)	30 (23-47)	21 (16-35)	17 (13-28)	13 (9.8-23)	10 (7.6-18)	8.1 (5.9-14)
2	53 (41-70)	45 (32-64)	35 (23-52)	28 (18-44)	23 (14-37)	18 (11-30)	14 (8.8-24)
3	65 (51-78)	60 (44-74)	51 (33-68)	43 (27-61)	36 (21-53)	30 (17-45)	24 (13-37)
4	75 (62-83)	72 (57-81)	66 (49-78)	59 (41-72)	52 (34-65)	44 (27-58)	37 (22-50)
5	81 (73-84)	80 (70-85)	78 (64-84)	73 (57-80)	67 (49-75)	60 (41-69)	52 (34-61)
6	83	85	85	82	78	73	67

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	28	22	16	12	9.5	7.4	5.7
1	41 (32-58)	34 (26-52)	26 (20-42)	21 (16-35)	17 (12-28)	13 (9.5-23)	10 (7.3-18)
2	54 (42-70)	48 (36-66)	40 (28-59)	34 (23-51)	27 (18-43)	22 (14-35)	18 (11-29)
3	65 (52-77)	61 (47-75)	55 (39-70)	48 (32-64)	41 (26-57)	34 (21-49)	28 (16-42)
4	74 (62-82)	72 (58-81)	68 (52-78)	62 (44-73)	55 (37-67)	48 (31-61)	41 (25-53)
5	78 (72-81)	79 (70-83)	78 (66-83)	73 (59-80)	68 (52-75)	61 (44-70)	55 (37-64)
6	77	82	83	81	77	73	67

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	27	22	17	13	10	7.7	5.9
1	39 (30-56)	34 (26-51)	27 (20-43)	22 (16-36)	17 (12-29)	14 (9.6-23)	11 (7.4-19)
2	51 (39-68)	47 (35-64)	40 (28-58)	34 (23-51)	28 (18-43)	22 (14-36)	18 (11-29)
3	62 (49-74)	59 (45-73)	54 (39-69)	47 (32-62)	40 (26-55)	33 (21-48)	27 (16-40)
4	70 (59-78)	69 (55-78)	66 (50-77)	60 (43-72)	53 (36-65)	46 (29-59)	40 (24-52)
5	72 (68-76)	75 (67-79)	75 (63-80)	71 (57-77)	65 (50-73)	59 (42-68)	53 (36-62)
6	68	76	80	78	75	70	65