

Denmark - 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 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/m ²)						
	15	20	25	30	35	40	45
0	5.5	5.0	4.7	4.2	3.6	3.2	2.8
1	9.0 (6.2-13)	7.9 (5.5-11)	7.4 (5.0-10)	6.5 (4.4-8.9)	5.7 (3.8-7.7)	5.0 (3.3-6.8)	4.3 (2.9-5.9)
2	14 (7.9-23)	12 (6.8-20)	11 (6.1-19)	9.9 (5.3-17)	8.7 (4.6-15)	7.6 (4.0-13)	6.6 (3.5-11)
3	22 (12-36)	19 (9.5-32)	17 (8.4-30)	15 (7.3-26)	13 (6.3-23)	11 (5.5-21)	10 (4.8-18)
4	33 (19-48)	28 (16-42)	25 (14-38)	22 (12-34)	19 (10-30)	17 (9.1-27)	15 (7.9-24)
5	47 (31-57)	40 (27-50)	35 (25-45)	31 (22-40)	27 (19-36)	24 (17-32)	21 (15-28)
6	65	55	49	43	39	34	30

Ten year probability of osteoporotic 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/m ²)						
	15	20	25	30	35	40	45
0	8.0	7.1	6.6	5.8	5.0	4.4	3.9
1	13 (9.2-18)	11 (7.8-15)	10 (7.1-14)	8.9 (6.2-12)	7.8 (5.4-10)	6.8 (4.7-9.1)	6.0 (4.1-8.0)
2	20 (12-30)	17 (9.8-27)	15 (8.6-25)	14 (7.5-22)	12 (6.5-19)	10 (5.6-17)	9.0 (4.9-15)
3	30 (17-46)	25 (14-41)	23 (12-38)	20 (10-34)	18 (8.9-30)	15 (7.7-27)	13 (6.7-24)
4	44 (28-59)	37 (23-53)	33 (20-48)	29 (17-44)	25 (15-39)	22 (13-35)	20 (11-31)
5	60 (43-69)	51 (37-61)	45 (33-56)	40 (29-51)	36 (26-45)	32 (23-41)	28 (20-36)
6	76	67	60	54	49	44	39

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	9.9	9.1	7.9	6.9	6.0	5.2
1	18 (13-24)	15 (11-20)	14 (9.8-18)	12 (8.5-16)	10 (7.3-14)	9.2 (6.4-12)	8.0 (5.5-10)
2	27 (17-39)	23 (14-34)	21 (12-32)	18 (10-28)	16 (9.0-25)	14 (7.8-22)	12 (6.7-20)
3	40 (26-56)	33 (20-50)	30 (17-47)	26 (14-42)	23 (12-38)	20 (11-34)	18 (9.3-30)
4	54 (38-70)	47 (32-63)	42 (27-59)	37 (24-53)	33 (20-48)	29 (18-43)	25 (15-39)
5	70 (56-79)	62 (49-72)	56 (44-67)	50 (39-61)	45 (34-55)	40 (30-50)	35 (26-45)
6	83	77	71	65	59	53	48

Ten year probability of osteoporotic 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/m ²)						
	15	20	25	30	35	40	45
0	16	13	12	10	8.9	7.7	6.7
1	24 (18-31)	20 (15-26)	18 (13-22)	15 (11-20)	13 (9.6-17)	12 (8.2-15)	10 (7.1-13)
2	35 (24-47)	29 (19-41)	26 (16-38)	23 (14-34)	20 (12-30)	17 (10-27)	15 (8.7-24)
3	49 (35-63)	42 (28-58)	37 (23-54)	32 (19-49)	28 (17-44)	25 (14-40)	22 (12-35)
4	63 (49-76)	56 (41-71)	50 (36-67)	44 (31-61)	39 (27-55)	35 (23-50)	31 (20-45)
5	76 (67-83)	70 (59-79)	64 (53-74)	58 (48-69)	53 (42-63)	47 (37-58)	42 (33-52)
6	85	82	78	73	67	61	55

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	22	18	16	14	12	10	8.7
1	32 (25-38)	26 (20-32)	23 (17-28)	20 (15-25)	17 (13-21)	15 (11-19)	13 (9.3-16)
2	45 (33-57)	38 (26-49)	32 (22-43)	28 (19-37)	24 (16-33)	21 (14-29)	18 (12-25)
3	60 (47-73)	52 (38-67)	45 (31-60)	39 (26-54)	34 (23-48)	29 (19-42)	25 (16-37)
4	73 (63-82)	67 (55-79)	59 (47-73)	53 (41-67)	46 (35-61)	41 (30-55)	35 (26-49)
5	82 (78-87)	79 (74-85)	73 (67-81)	67 (60-76)	61 (53-70)	54 (46-64)	48 (40-58)
6	87	87	85	80	75	69	62

Ten year probability of osteoporotic 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/m ²)						
	15	20	25	30	35	40	45
0	29	25	22	19	16	14	12
1	42 (33-55)	36 (28-45)	31 (24-36)	27 (21-32)	23 (18-27)	20 (15-24)	17 (13-21)
2	56 (42-71)	50 (36-64)	43 (30-55)	38 (26-48)	32 (22-42)	28 (19-36)	24 (16-31)
3	69 (55-81)	65 (49-78)	58 (42-72)	51 (36-66)	45 (31-59)	39 (26-52)	33 (22-45)
4	78 (67-86)	76 (64-85)	72 (58-83)	66 (52-78)	59 (45-72)	52 (39-66)	46 (34-59)
5	84 (78-87)	84 (77-88)	82 (75-87)	78 (69-84)	73 (63-80)	66 (57-75)	60 (51-69)
6	87	88	88	86	82	78	73

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	34	31	28	24	21	18	15
1	47 (37-61)	43 (34-54)	39 (30-47)	33 (26-40)	29 (22-34)	24 (19-29)	21 (16-24)
2	59 (47-72)	56 (43-69)	51 (38-62)	45 (32-55)	39 (28-48)	34 (23-42)	29 (20-36)
3	69 (56-80)	67 (54-78)	64 (51-75)	58 (44-69)	51 (38-63)	45 (33-56)	39 (28-50)
4	77 (66-84)	76 (66-84)	75 (64-82)	69 (57-79)	63 (51-74)	57 (45-69)	51 (39-62)
5	82 (75-85)	82 (75-86)	82 (75-86)	78 (70-84)	74 (65-80)	68 (59-76)	62 (53-71)
6	83	85	86	84	81	77	73

Ten year probability of osteoporotic 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/m ²)						
	15	20	25	30	35	40	45
0	35	33	32	27	23	20	17
1	47 (38-61)	45 (35-57)	43 (34-52)	37 (28-45)	32 (24-39)	27 (20-33)	23 (17-28)
2	58 (46-72)	56 (44-70)	54 (41-66)	48 (36-59)	42 (30-53)	36 (26-46)	31 (22-40)
3	68 (55-79)	67 (53-78)	65 (52-77)	59 (46-72)	53 (39-66)	47 (34-59)	41 (29-53)
4	75 (65-82)	75 (64-82)	74 (64-82)	69 (58-78)	64 (51-74)	58 (45-69)	52 (39-63)
5	78 (74-81)	80 (74-83)	81 (74-85)	77 (69-82)	73 (64-79)	68 (58-75)	62 (52-70)
6	77	82	84	82	80	76	72

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	33	32	32	27	23	20	17
1	44 (35-58)	43 (33-55)	42 (33-52)	36 (28-45)	31 (23-39)	26 (19-33)	22 (16-28)
2	55 (43-69)	54 (41-67)	53 (40-65)	46 (34-58)	41 (29-52)	35 (25-45)	30 (20-39)
3	65 (52-75)	64 (50-75)	63 (49-74)	57 (43-69)	51 (37-64)	45 (31-58)	39 (26-51)
4	71 (61-78)	71 (61-80)	71 (61-80)	66 (54-76)	61 (48-71)	55 (42-66)	49 (36-60)
5	72 (69-76)	76 (70-79)	77 (70-82)	74 (65-79)	70 (60-76)	65 (54-72)	59 (48-67)
6	67	76	80	79	76	73	68