

Sweden - 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 Sweden. 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	4.9	4.4	4.1	3.6	3.1	2.7	2.4
1	8.0 (5.6-12)	7.0 (4.8-10)	6.4 (4.4-8.9)	5.6 (3.8-7.7)	4.9 (3.3-6.7)	4.3 (2.9-5.9)	3.7 (2.5-5.1)
2	13 (7.2-21)	11 (6.0-18)	9.9 (5.3-17)	8.6 (4.6-15)	7.5 (4.0-13)	6.6 (3.5-11)	5.8 (3.0-9.9)
3	20 (11-33)	17 (8.5-29)	15 (7.4-26)	13 (6.4-23)	11 (5.5-20)	10 (4.8-18)	8.7 (4.2-16)
4	31 (17-45)	25 (15-38)	22 (12-34)	19 (11-31)	17 (9.2-27)	15 (8.0-24)	13 (6.9-21)
5	45 (29-54)	37 (25-46)	32 (22-41)	28 (19-36)	25 (17-32)	22 (15-28)	19 (13-25)
6	62	52	44	39	35	31	27

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.6	5.8	5.3	4.6	4.0	3.5	3.1
1	11 (7.7-15)	9.1 (6.4-13)	8.3 (5.7-11)	7.2 (5.0-9.7)	6.3 (4.3-8.4)	5.5 (3.7-7.3)	4.8 (3.3-6.4)
2	17 (10-27)	14 (8.1-22)	13 (7.0-20)	11 (6.1-18)	9.6 (5.3-16)	8.4 (4.6-14)	7.3 (4.0-12)
3	26 (15-40)	22 (12-35)	19 (9.8-32)	16 (8.4-28)	14 (7.3-25)	13 (6.3-22)	11 (5.4-19)
4	39 (24-54)	32 (20-46)	28 (16-42)	24 (14-37)	21 (12-33)	18 (11-29)	16 (9.1-26)
5	55 (39-64)	45 (32-55)	39 (28-49)	34 (25-44)	30 (22-39)	27 (19-35)	23 (17-31)
6	72	61	53	48	42	37	33

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.9	8.3	7.5	6.5	5.6	4.9	4.3
1	16 (12-22)	13 (9.4-17)	12 (8.1-15)	10 (7.0-13)	8.7 (6.1-11)	7.6 (5.3-9.9)	6.6 (4.6-8.6)
2	24 (15-36)	20 (12-29)	17 (10-27)	15 (8.7-24)	13 (7.5-21)	11 (6.5-18)	10 (5.6-16)
3	36 (23-52)	29 (17-45)	26 (14-41)	22 (12-36)	19 (10-32)	17 (9.0-29)	15 (7.8-25)
4	51 (34-66)	42 (28-58)	36 (24-52)	32 (20-47)	28 (18-42)	25 (15-37)	22 (13-33)
5	68 (53-76)	57 (44-67)	50 (38-60)	44 (34-55)	39 (30-49)	35 (26-44)	31 (23-39)
6	83	74	65	59	53	48	42

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	14	11	10	8.6	7.5	6.5	5.6
1	22 (17-28)	18 (13-22)	15 (11-19)	13 (9.5-17)	11 (8.2-15)	9.9 (7.0-13)	8.6 (6.1-11)
2	32 (22-45)	26 (17-36)	23 (14-33)	20 (12-29)	17 (10-26)	15 (8.7-23)	13 (7.5-20)
3	46 (33-61)	38 (25-54)	33 (20-49)	28 (17-44)	25 (14-39)	22 (12-35)	19 (11-31)
4	61 (46-75)	52 (38-67)	45 (32-61)	40 (28-56)	35 (24-50)	31 (20-45)	27 (17-40)
5	76 (66-83)	67 (56-76)	60 (49-70)	54 (43-64)	48 (38-58)	43 (33-53)	38 (29-47)
6	87	81	75	69	63	56	51

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	16	14	12	10	8.8	7.5
1	31 (25-37)	25 (19-30)	20 (16-25)	17 (13-22)	15 (11-19)	13 (9.6-16)	11 (8.2-14)
2	45 (33-57)	36 (25-47)	30 (20-39)	25 (17-34)	22 (14-30)	19 (12-26)	16 (10-22)
3	61 (48-74)	51 (37-66)	42 (29-57)	36 (24-51)	31 (21-45)	27 (18-39)	23 (15-34)
4	76 (66-85)	67 (55-80)	57 (45-72)	50 (39-65)	44 (33-58)	38 (29-52)	33 (24-46)
5	85 (81-89)	81 (76-87)	73 (66-81)	66 (59-75)	59 (52-69)	52 (45-62)	46 (39-55)
6	89	89	85	80	75	68	61

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	29	23	19	16	14	12	9.8
1	43 (34-57)	35 (27-45)	28 (22-34)	24 (18-29)	20 (15-24)	17 (13-20)	14 (11-17)
2	59 (44-74)	50 (35-65)	41 (28-53)	35 (23-45)	30 (20-39)	25 (17-33)	21 (14-28)
3	73 (59-84)	66 (50-79)	56 (40-72)	49 (34-65)	43 (29-58)	37 (24-51)	31 (20-44)
4	82 (72-88)	79 (66-87)	72 (58-84)	66 (51-79)	59 (44-73)	51 (38-66)	45 (32-59)
5	87 (82-89)	86 (80-90)	84 (76-89)	80 (70-86)	74 (63-82)	67 (56-76)	60 (49-70)
6	89	90	90	88	85	81	75

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	34	29	25	21	18	15	13
1	48 (39-63)	42 (33-55)	36 (28-45)	31 (24-38)	26 (20-32)	22 (17-27)	19 (14-22)
2	61 (49-75)	56 (42-70)	49 (36-62)	43 (30-55)	37 (26-47)	31 (22-41)	27 (18-34)
3	72 (59-82)	68 (55-80)	63 (49-75)	57 (43-69)	50 (36-62)	43 (31-55)	37 (26-48)
4	79 (69-86)	78 (67-85)	75 (64-84)	70 (57-80)	63 (50-75)	57 (44-69)	50 (38-62)
5	84 (78-86)	84 (77-87)	83 (76-88)	80 (70-85)	75 (64-81)	69 (58-77)	63 (52-71)
6	85	87	88	86	83	79	74

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	34	31	28	24	20	17	15
1	47 (38-62)	43 (34-56)	39 (30-48)	33 (26-42)	29 (22-35)	24 (18-30)	21 (15-25)
2	59 (47-73)	56 (43-69)	52 (38-63)	45 (33-56)	39 (28-49)	34 (23-43)	29 (19-37)
3	69 (57-80)	67 (54-78)	64 (51-76)	58 (44-70)	51 (38-63)	45 (32-56)	39 (27-50)
4	76 (66-83)	76 (65-83)	74 (63-82)	69 (57-78)	63 (50-74)	57 (44-68)	50 (38-62)
5	80 (75-82)	81 (74-84)	81 (74-85)	78 (69-83)	73 (63-80)	68 (57-76)	62 (51-70)
6	78	83	85	83	81	77	72

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	27	24	22	19	16	13	11
1	38 (29-52)	35 (26-46)	31 (24-40)	27 (20-34)	22 (17-28)	19 (14-23)	16 (11-19)
2	50 (38-65)	47 (34-61)	43 (31-54)	37 (26-47)	31 (21-41)	27 (18-35)	22 (15-29)
3	61 (48-73)	59 (44-71)	55 (41-68)	49 (35-61)	42 (30-54)	36 (25-47)	31 (21-41)
4	69 (58-78)	69 (56-78)	67 (54-76)	61 (47-71)	54 (41-66)	48 (35-59)	41 (29-53)
5	73 (68-77)	75 (67-79)	75 (66-81)	71 (60-77)	66 (54-73)	59 (48-68)	53 (42-62)
6	71	77	80	78	74	70	64