

Sweden - The probabilities of a major osteoporotic fracture in men

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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 Sweden. 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	31	20	13	8.9	6.6	5.1	4.2	3.6	3.2	3.0	2.9
1	44 (37-54)	29 (26-36)	20 (17-25)	14 (12-17)	10 (7.9-12)	7.8 (5.7-9.7)	6.3 (4.5-8.2)	5.4 (3.6-7.2)	4.8 (3.2-6.5)	4.5 (3.0-6.3)	4.3 (2.8-6.0)
2	59 (47-74)	42 (33-55)	29 (23-39)	20 (15-28)	15 (10-21)	11 (7.4-17)	9.4 (5.6-15)	7.9 (4.5-13)	7.1 (3.8-12)	6.7 (3.5-11)	6.4 (3.3-11)
3	74 (59-87)	56 (43-70)	40 (30-51)	29 (21-40)	21 (14-32)	17 (9.8-27)	14 (7.3-23)	11 (5.8-20)	10 (5.0-19)	9.6 (4.6-18)	9.2 (4.3-17)
4	86 (74-93)	71 (55-82)	54 (39-64)	40 (28-49)	30 (20-40)	23 (16-34)	19 (12-29)	16 (9.5-26)	14 (8.1-24)	14 (7.4-23)	13 (6.9-22)
5	93 (89-95)	83 (75-90)	68 (58-75)	53 (43-58)	41 (32-48)	32 (25-40)	26 (20-34)	22 (17-30)	20 (15-27)	19 (13-26)	18 (13-25)
6	95	92	81	67	53	43	36	30	27	25	24

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

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	32	21	14	10	7.5	5.8	4.7	4.0	3.6	3.3	3.1
1	44 (38-52)	31 (28-36)	21 (19-25)	15 (13-18)	11 (8.9-14)	8.7 (6.5-11)	7.1 (5.0-9.1)	5.9 (4.1-7.9)	5.3 (3.6-7.3)	5.0 (3.3-6.9)	4.7 (3.0-6.5)
2	58 (49-71)	43 (35-54)	30 (25-40)	22 (17-29)	16 (12-22)	13 (8.4-19)	10 (6.3-16)	8.6 (5.0-14)	7.8 (4.3-13)	7.2 (3.9-12)	6.8 (3.6-12)
3	72 (60-82)	56 (45-67)	42 (32-52)	31 (23-42)	23 (16-34)	18 (11-29)	15 (8.3-25)	12 (6.5-22)	11 (5.6-20)	10 (5.0-19)	9.7 (4.6-18)
4	83 (73-89)	70 (56-79)	55 (41-63)	42 (30-51)	32 (23-42)	25 (18-36)	21 (14-31)	17 (11-27)	16 (9.0-25)	14 (8.1-24)	14 (7.4-23)
5	90 (86-92)	81 (75-86)	68 (60-73)	54 (46-60)	43 (35-50)	34 (28-42)	28 (22-36)	24 (19-32)	21 (16-29)	20 (14-27)	19 (13-26)
6	93	89	80	67	55	45	37	32	29	27	25

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	32	22	16	12	8.9	7.0	5.7	4.7	4.3	3.9	3.7
1	44 (40-49)	32 (29-36)	23 (21-27)	17 (15-20)	13 (10-15)	10 (7.8-13)	8.4 (6.1-11)	7.0 (4.9-9.2)	6.3 (4.3-8.6)	5.8 (3.8-8.0)	5.4 (3.5-7.5)
2	57 (49-67)	43 (37-53)	32 (27-41)	24 (19-31)	19 (14-25)	15 (10-21)	12 (7.7-18)	10 (6.0-16)	9.1 (5.2-15)	8.3 (4.6-14)	7.8 (4.2-13)
3	70 (60-78)	56 (46-65)	44 (35-54)	34 (26-45)	26 (18-38)	21 (13-32)	17 (10-28)	14 (7.9-24)	13 (6.8-22)	12 (6.0-21)	11 (5.4-20)
4	80 (71-85)	69 (57-75)	56 (44-64)	44 (34-54)	35 (26-46)	28 (21-39)	23 (16-34)	20 (13-30)	18 (11-28)	16 (9.5-26)	15 (8.6-25)
5	87 (83-89)	79 (73-83)	68 (61-73)	56 (49-63)	46 (39-54)	38 (32-46)	31 (26-40)	26 (21-35)	24 (18-32)	22 (16-30)	21 (15-29)
6	90	86	78	68	58	48	41	35	32	29	27

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

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	31	23	17	13	9.9	7.8	6.3	5.3	4.8	4.3	4.0
1	41 (39-45)	31 (29-35)	24 (21-27)	18 (15-21)	14 (11-17)	11 (8.7-14)	9.2 (6.8-12)	7.7 (5.5-10)	6.9 (4.8-9.4)	6.3 (4.2-8.7)	5.8 (3.8-8.1)
2	53 (46-61)	42 (36-50)	33 (28-40)	25 (20-32)	20 (15-26)	16 (11-22)	13 (8.6-19)	11 (6.9-17)	9.9 (5.9-15)	9.0 (5.1-14)	8.2 (4.6-13)
3	65 (56-72)	53 (45-61)	43 (36-53)	34 (27-45)	27 (20-38)	22 (15-33)	18 (11-28)	15 (9.1-25)	14 (7.7-23)	13 (6.7-22)	12 (6.0-20)
4	74 (67-79)	64 (55-70)	54 (45-62)	44 (35-54)	36 (28-47)	30 (23-40)	24 (18-35)	21 (14-31)	19 (12-29)	17 (10-27)	16 (9.3-25)
5	81 (78-84)	74 (69-78)	65 (59-70)	55 (49-62)	46 (40-54)	38 (33-47)	32 (27-41)	28 (23-36)	25 (19-33)	23 (17-31)	21 (15-29)
6	85	81	74	65	57	48	41	36	32	30	28

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	31	24	19	14	11	8.9	7.1	6.0	5.3	4.7	4.2
1	43 (38-50)	34 (29-40)	26 (22-31)	20 (17-24)	16 (13-19)	13 (9.8-15)	10 (7.7-12)	8.4 (6.3-9.9)	7.3 (5.3-8.6)	6.5 (4.6-7.6)	5.8 (4.1-6.9)
2	54 (47-63)	45 (37-53)	36 (29-44)	28 (22-35)	22 (17-28)	18 (13-23)	14 (10-18)	12 (8.0-16)	10 (6.7-14)	8.8 (5.7-12)	7.9 (5.0-11)
3	65 (57-73)	56 (47-66)	47 (38-57)	38 (29-48)	30 (22-40)	24 (17-33)	19 (13-27)	16 (11-23)	14 (8.8-20)	12 (7.5-18)	11 (6.5-16)
4	74 (67-79)	67 (59-73)	58 (50-66)	49 (40-58)	40 (32-49)	33 (25-41)	26 (20-34)	22 (16-29)	19 (13-26)	16 (11-23)	14 (9.9-21)
5	80 (75-83)	75 (69-79)	68 (61-74)	60 (53-66)	51 (44-58)	43 (36-50)	35 (29-42)	29 (24-36)	25 (20-31)	21 (18-28)	19 (16-25)
6	84	80	76	69	62	54	45	38	33	28	25

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

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	31	25	19	15	12	9.7	7.8	6.6	5.7	5.0	4.4
1	43 (36-63)	36 (29-54)	29 (23-45)	23 (18-36)	18 (14-29)	15 (11-22)	11 (8.5-17)	9.6 (7.0-14)	8.1 (5.9-11)	7.0 (5.0-8.9)	6.1 (4.3-7.4)
2	56 (45-72)	48 (37-65)	40 (29-57)	33 (23-48)	27 (18-40)	21 (14-32)	17 (11-25)	14 (9.2-20)	12 (7.6-17)	9.8 (6.4-14)	8.4 (5.5-11)
3	66 (54-78)	60 (46-73)	53 (38-66)	45 (31-58)	37 (24-50)	30 (19-42)	24 (15-34)	20 (12-28)	17 (10-24)	14 (8.5-20)	12 (7.2-17)
4	75 (63-82)	70 (56-78)	64 (48-73)	57 (40-67)	49 (33-60)	41 (26-52)	34 (21-43)	28 (18-36)	23 (15-30)	19 (12-25)	16 (11-21)
5	81 (70-84)	77 (64-82)	73 (58-78)	68 (50-74)	61 (43-68)	53 (36-60)	45 (29-52)	39 (25-45)	32 (21-38)	27 (18-32)	22 (16-27)
6	84	83	80	76	71	65	57	50	43	37	31

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	27	23	18	15	12	10	8.2	7.1	6.2	5.4	4.8
1	38 (30-56)	32 (25-49)	27 (20-42)	22 (17-35)	18 (13-29)	15 (11-23)	12 (8.7-19)	10 (7.3-16)	8.8 (6.2-13)	7.6 (5.3-11)	6.6 (4.6-8.9)
2	49 (38-66)	43 (32-59)	37 (26-52)	31 (22-45)	26 (18-38)	21 (14-32)	17 (12-26)	15 (9.7-22)	13 (8.2-18)	11 (7.0-15)	9.2 (5.9-13)
3	59 (46-72)	53 (39-67)	47 (33-61)	41 (28-54)	35 (23-48)	29 (19-41)	25 (15-34)	21 (13-29)	18 (11-24)	15 (9.2-21)	13 (7.9-18)
4	68 (54-77)	63 (47-73)	58 (41-68)	52 (35-62)	46 (30-56)	39 (25-49)	33 (21-42)	29 (18-37)	24 (15-31)	21 (13-27)	18 (11-23)
5	75 (62-80)	72 (56-77)	67 (50-73)	62 (44-68)	56 (38-63)	50 (32-57)	44 (27-50)	38 (24-45)	33 (20-39)	28 (18-34)	24 (15-29)
6	80	78	75	71	66	61	55	49	43	38	32

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

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	23	19	16	13	11	9.4	8.0	7.0	6.2	5.4	4.8
1	32 (24-48)	27 (21-42)	23 (17-37)	20 (14-31)	16 (12-26)	14 (9.8-22)	12 (8.2-18)	10 (7.1-16)	8.8 (6.1-13)	7.7 (5.3-11)	6.7 (4.6-9.6)
2	42 (31-58)	37 (26-52)	32 (22-46)	27 (19-40)	23 (16-34)	20 (13-29)	17 (11-25)	14 (9.5-22)	13 (8.1-19)	11 (7.0-16)	9.5 (6.1-14)
3	52 (38-65)	47 (33-60)	42 (29-55)	37 (25-49)	32 (21-43)	27 (17-38)	23 (15-33)	20 (13-29)	18 (11-25)	15 (9.4-21)	13 (8.1-18)
4	61 (46-71)	57 (41-67)	52 (36-62)	47 (31-57)	42 (27-52)	36 (23-46)	32 (19-41)	28 (17-36)	24 (15-32)	21 (13-27)	18 (11-24)
5	69 (54-75)	66 (49-72)	62 (44-68)	57 (39-64)	52 (34-59)	47 (29-54)	42 (26-48)	37 (23-44)	33 (20-39)	29 (17-35)	25 (15-31)
6	75	73	70	67	62	57	52	48	43	38	34

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	15	13	11	9.2	7.8	6.5	5.7	5.1	4.5	4.0	3.5
1	22 (16-34)	19 (14-30)	16 (11-26)	14 (9.7-22)	11 (8.1-19)	9.7 (6.8-16)	8.5 (5.9-14)	7.4 (5.2-12)	6.5 (4.5-10)	5.7 (4.0-8.8)	5.1 (3.5-7.6)
2	30 (21-43)	26 (18-38)	23 (15-34)	20 (13-29)	17 (11-25)	14 (9.2-22)	12 (8.0-19)	11 (7.0-17)	9.5 (6.1-15)	8.4 (5.3-13)	7.3 (4.7-11)
3	40 (27-52)	35 (23-48)	31 (20-43)	27 (17-38)	24 (15-33)	20 (12-29)	18 (11-26)	16 (9.4-23)	14 (8.2-20)	12 (7.2-17)	11 (6.3-15)
4	50 (34-60)	45 (30-56)	41 (26-51)	37 (23-46)	32 (19-41)	28 (17-37)	25 (15-33)	22 (13-29)	20 (11-26)	17 (9.9-23)	15 (8.7-20)
5	59 (42-66)	56 (38-62)	51 (34-58)	47 (29-54)	42 (26-49)	38 (22-44)	34 (20-40)	31 (17-36)	27 (15-32)	24 (14-29)	21 (12-26)
6	67	64	61	57	53	49	45	41	37	33	30