

Austria - 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 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 Austria. 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	25	16	11	8.2	6.4	5.2	4.5	4.0	3.8	3.7	3.5
1	37 (32-45)	24 (22-30)	17 (14-21)	12 (9.8-15)	9.6 (7.1-12)	7.9 (5.5-10)	6.7 (4.5-8.9)	6.1 (4.0-8.3)	5.7 (3.7-7.9)	5.5 (3.5-7.6)	5.3 (3.4-7.3)
2	51 (41-65)	35 (29-47)	25 (19-34)	18 (13-26)	14 (9.1-21)	12 (6.9-18)	9.8 (5.5-16)	8.9 (4.8-15)	8.4 (4.4-14)	8.0 (4.2-14)	7.7 (4.0-13)
3	66 (52-80)	49 (37-61)	35 (26-48)	26 (17-39)	20 (12-33)	17 (9.0-29)	14 (7.2-25)	13 (6.2-23)	12 (5.7-22)	12 (5.4-22)	11 (5.1-21)
4	80 (65-90)	63 (47-74)	48 (34-58)	36 (25-48)	29 (20-41)	23 (15-35)	20 (12-31)	18 (10-29)	17 (9.3-28)	16 (8.7-27)	16 (8.3-26)
5	90 (84-94)	77 (68-84)	62 (51-67)	49 (39-56)	39 (31-47)	32 (25-41)	27 (21-36)	25 (18-34)	23 (17-32)	22 (16-31)	21 (15-30)
6	95	89	76	62	51	43	36	33	31	30	29

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

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	25	18	13	9.5	7.5	6.2	5.2	4.8	4.5	4.2	4.0
1	37 (33-43)	26 (23-31)	19 (16-22)	14 (11-17)	11 (8.3-14)	9.1 (6.5-12)	7.7 (5.3-10)	7.1 (4.7-9.7)	6.6 (4.4-9.1)	6.2 (4.1-8.7)	5.9 (3.8-8.3)
2	50 (42-63)	37 (30-47)	27 (21-35)	20 (15-28)	16 (11-24)	13 (8.1-21)	11 (6.5-18)	10 (5.7-17)	9.6 (5.2-16)	9.1 (4.8-15)	8.6 (4.5-15)
3	65 (53-76)	50 (39-61)	37 (28-51)	29 (19-43)	23 (14-36)	19 (11-32)	16 (8.4-28)	15 (7.4-26)	14 (6.7-25)	13 (6.2-24)	12 (5.8-23)
4	79 (65-87)	64 (49-72)	50 (37-61)	39 (28-52)	32 (23-45)	26 (17-39)	22 (14-34)	20 (12-32)	19 (11-31)	18 (10-30)	17 (9.4-28)
5	89 (84-93)	77 (69-82)	64 (55-70)	52 (43-60)	42 (35-52)	35 (29-45)	30 (24-40)	28 (21-37)	26 (19-35)	25 (17-34)	23 (16-32)
6	94	88	77	65	55	46	40	37	35	33	31

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	26	18	13	10	7.9	6.4	5.5	5.0	4.6	4.3	4.0
1	37 (34-41)	26 (24-30)	20 (17-23)	15 (12-18)	12 (8.8-15)	9.5 (6.8-12)	8.1 (5.6-11)	7.4 (5.0-10)	6.8 (4.5-9.4)	6.3 (4.1-8.8)	5.9 (3.8-8.3)
2	50 (43-61)	37 (31-47)	28 (22-35)	21 (15-29)	17 (11-24)	14 (8.5-21)	12 (6.9-18)	11 (6.0-17)	9.8 (5.4-16)	9.1 (4.9-15)	8.5 (4.5-14)
3	64 (53-73)	50 (40-61)	38 (29-51)	30 (20-43)	24 (15-37)	19 (11-32)	17 (9.0-28)	15 (7.8-26)	14 (7.0-25)	13 (6.3-23)	12 (5.8-22)
4	77 (65-84)	63 (50-71)	50 (39-61)	40 (30-52)	32 (24-45)	27 (18-39)	23 (15-35)	21 (13-33)	19 (11-31)	18 (10-29)	17 (9.3-27)
5	87 (82-90)	76 (69-80)	63 (56-70)	52 (45-60)	43 (36-52)	36 (30-45)	31 (24-40)	28 (21-37)	26 (19-35)	24 (17-33)	23 (16-31)
6	93	86	76	65	55	46	40	37	34	32	30

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

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	30	22	16	13	9.8	7.9	6.9	6.2	5.6	5.1	4.7
1	41 (38-46)	31 (28-34)	23 (20-26)	18 (14-21)	14 (11-18)	11 (8.4-15)	10 (7.1-13)	9.0 (6.2-12)	8.2 (5.5-11)	7.5 (5.0-10)	6.9 (4.5-9.7)
2	54 (48-63)	42 (36-50)	32 (26-40)	25 (19-34)	20 (14-28)	16 (11-24)	14 (8.7-22)	13 (7.5-20)	12 (6.6-19)	11 (5.9-17)	9.8 (5.4-16)
3	67 (58-76)	54 (46-66)	43 (34-57)	35 (25-49)	28 (18-42)	23 (14-36)	20 (11-33)	18 (9.7-30)	16 (8.5-28)	15 (7.6-26)	14 (6.9-24)
4	79 (69-84)	67 (56-75)	56 (45-66)	45 (35-58)	37 (28-50)	31 (22-44)	27 (18-40)	24 (15-37)	22 (14-35)	20 (12-32)	19 (11-30)
5	87 (84-89)	78 (74-83)	68 (62-74)	57 (51-66)	48 (42-57)	40 (34-50)	36 (29-46)	32 (25-43)	30 (22-40)	27 (20-37)	25 (18-35)
6	91	87	79	69	60	51	46	42	39	36	33

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	35	26	20	15	12	9.5	8.2	7.2	6.4	5.7	5.2
1	47 (43-55)	36 (32-42)	28 (24-32)	21 (17-25)	17 (13-19)	13 (10-15)	11 (8.6-13)	9.9 (7.3-12)	8.8 (6.3-10)	7.9 (5.6-9.3)	7.1 (5.0-8.4)
2	62 (54-72)	49 (41-60)	38 (31-48)	30 (23-38)	23 (17-30)	19 (13-24)	16 (11-21)	14 (9.0-18)	12 (7.7-16)	11 (6.7-15)	9.6 (6.0-13)
3	75 (65-83)	63 (52-74)	51 (39-64)	40 (30-53)	32 (22-43)	25 (17-36)	21 (14-31)	18 (12-28)	16 (10-25)	14 (8.7-22)	13 (7.7-20)
4	85 (78-89)	76 (67-83)	65 (54-73)	53 (42-63)	42 (33-53)	34 (26-44)	29 (22-39)	25 (18-34)	22 (16-31)	19 (14-28)	17 (12-25)
5	90 (87-91)	85 (80-88)	77 (71-81)	66 (59-72)	55 (48-62)	45 (39-52)	38 (33-46)	33 (28-40)	28 (24-36)	25 (21-32)	22 (19-29)
6	92	90	86	78	68	58	49	42	37	32	29

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

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	40	31	24	18	14	12	9.8	8.4	7.3	6.4	5.7
1	55 (47-74)	44 (37-62)	34 (28-50)	27 (21-38)	20 (16-28)	17 (13-22)	14 (10-17)	12 (8.7-14)	9.9 (7.4-11)	8.6 (6.3-10)	7.5 (5.5-8.9)
2	69 (58-83)	58 (46-76)	48 (36-66)	38 (27-54)	29 (21-42)	24 (16-34)	19 (13-27)	16 (11-22)	13 (9.1-18)	12 (7.7-15)	10 (6.7-14)
3	79 (68-88)	72 (57-83)	62 (45-76)	51 (35-66)	41 (27-55)	33 (21-45)	27 (17-37)	22 (14-31)	18 (12-26)	15 (10-22)	13 (8.6-18)
4	86 (78-90)	81 (69-88)	74 (58-83)	65 (47-76)	55 (37-65)	45 (30-55)	37 (25-46)	31 (21-39)	25 (18-32)	21 (15-27)	18 (13-23)
5	89 (84-91)	87 (79-90)	83 (71-87)	77 (61-82)	69 (51-74)	59 (43-65)	50 (37-56)	41 (31-47)	34 (27-40)	28 (23-34)	23 (20-28)
6	90	90	88	85	80	73	64	54	45	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	42	34	27	22	17	15	12	11	9.2	8.0	7.0
1	55 (48-73)	46 (39-64)	38 (31-54)	30 (24-43)	25 (19-34)	20 (16-28)	17 (13-22)	15 (11-18)	12 (9.1-15)	11 (7.8-12)	9.2 (6.7-11)
2	67 (57-81)	59 (48-75)	50 (39-67)	41 (31-57)	34 (24-48)	28 (20-40)	24 (16-33)	20 (14-27)	17 (11-22)	14 (9.6-19)	12 (8.2-16)
3	76 (66-85)	70 (57-81)	62 (48-75)	54 (39-67)	45 (31-58)	38 (26-50)	32 (21-42)	27 (18-36)	23 (15-30)	19 (12-26)	16 (11-22)
4	83 (74-88)	78 (66-85)	73 (58-81)	65 (48-75)	57 (40-67)	50 (34-59)	43 (29-52)	36 (25-44)	30 (21-38)	25 (18-32)	21 (15-28)
5	86 (80-88)	84 (74-87)	81 (68-85)	75 (60-81)	69 (52-75)	62 (46-68)	54 (40-61)	47 (34-53)	40 (30-46)	33 (26-40)	28 (22-34)
6	86	87	86	83	78	73	66	59	51	43	37

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

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	41	35	29	23	20	17	15	13	11	9.5	8.2
1	52 (43-68)	45 (36-60)	38 (30-52)	32 (24-44)	27 (20-37)	23 (17-31)	20 (14-26)	17 (12-22)	15 (10-18)	13 (9.0-15)	11 (7.7-13)
2	62 (52-75)	56 (44-69)	48 (37-63)	41 (31-55)	36 (26-48)	31 (22-42)	27 (18-36)	23 (16-31)	19 (13-26)	17 (11-22)	14 (9.5-18)
3	71 (60-80)	65 (53-76)	59 (46-71)	52 (38-64)	46 (33-58)	40 (28-51)	35 (24-45)	30 (20-39)	26 (17-34)	22 (15-30)	19 (12-25)
4	78 (68-84)	74 (62-81)	68 (55-77)	62 (47-71)	56 (41-66)	51 (36-60)	45 (31-54)	39 (27-48)	34 (24-42)	29 (20-37)	25 (17-32)
5	82 (74-85)	80 (69-84)	76 (63-81)	71 (57-77)	66 (51-73)	61 (46-68)	55 (41-62)	49 (36-56)	43 (32-50)	37 (28-44)	32 (24-39)
6	83	83	82	79	75	71	65	60	53	47	41

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	36	30	25	21	18	16	14	12	10	8.7	7.5
1	46 (37-60)	40 (31-54)	34 (26-47)	29 (21-40)	25 (18-35)	22 (16-30)	19 (13-26)	16 (11-22)	14 (9.8-18)	12 (8.3-15)	10 (7.1-13)
2	56 (45-68)	49 (38-63)	43 (32-56)	37 (27-50)	33 (23-45)	29 (20-39)	25 (17-34)	22 (15-30)	19 (12-26)	16 (11-22)	14 (9.0-19)
3	65 (53-75)	59 (46-70)	53 (40-65)	47 (34-59)	42 (30-54)	38 (26-48)	33 (22-43)	29 (19-38)	25 (16-33)	22 (14-29)	18 (12-25)
4	72 (61-79)	68 (55-75)	63 (49-71)	57 (43-67)	53 (38-62)	48 (34-57)	43 (29-52)	38 (26-46)	33 (22-41)	29 (19-36)	25 (16-32)
5	76 (68-80)	74 (63-79)	71 (57-76)	67 (52-73)	63 (47-69)	58 (42-65)	53 (38-60)	48 (33-55)	42 (29-50)	37 (26-44)	33 (23-39)
6	77	78	77	74	71	67	63	58	53	47	42