

Austria - 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 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	30	19	12	8.7	6.4	5.1	4.2	3.6	3.2	3.0	2.9
1	42 (36-51)	28 (25-35)	19 (17-24)	13 (11-17)	9.7 (7.6-12)	7.6 (5.6-9.5)	6.3 (4.3-8.1)	5.3 (3.6-7.1)	4.8 (3.1-6.5)	4.5 (2.9-6.3)	4.3 (2.8-6.1)
2	56 (45-71)	40 (32-53)	27 (22-37)	19 (15-27)	14 (10-20)	11 (7.1-17)	9.2 (5.4-15)	7.8 (4.4-13)	7.0 (3.8-12)	6.6 (3.5-11)	6.4 (3.3-11)
3	70 (57-82)	53 (41-66)	38 (29-48)	28 (20-38)	21 (13-31)	16 (9.5-26)	13 (7.1-23)	11 (5.7-20)	10 (4.9-19)	9.5 (4.5-18)	9.1 (4.2-17)
4	82 (70-89)	67 (52-77)	51 (37-60)	38 (27-47)	29 (20-39)	23 (15-33)	19 (12-29)	16 (9.2-25)	14 (7.8-23)	13 (7.2-22)	13 (6.7-22)
5	89 (84-92)	79 (70-85)	65 (54-71)	50 (40-56)	39 (31-46)	31 (24-39)	26 (20-34)	22 (17-29)	19 (14-27)	18 (13-26)	18 (12-25)
6	92	88	77	63	51	41	34	29	26	25	24

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	29	19	13	9.4	7.1	5.6	4.6	3.9	3.5	3.3	3.1
1	40 (36-47)	28 (25-33)	19 (17-23)	14 (12-17)	11 (8.2-13)	8.3 (6.1-10)	6.8 (4.8-8.8)	5.7 (3.9-7.7)	5.2 (3.4-7.1)	4.8 (3.1-6.7)	4.6 (2.9-6.4)
2	54 (45-66)	39 (32-50)	28 (23-36)	20 (16-27)	15 (11-22)	12 (7.8-18)	9.9 (6.0-16)	8.3 (4.7-14)	7.5 (4.1-13)	7.0 (3.8-12)	6.6 (3.5-11)
3	67 (56-77)	52 (41-62)	38 (30-49)	28 (21-39)	22 (14-33)	17 (10-28)	14 (7.8-24)	12 (6.2-21)	11 (5.4-19)	10 (4.9-18)	9.5 (4.5-18)
4	78 (68-85)	65 (52-73)	51 (38-59)	39 (28-48)	30 (21-40)	24 (17-34)	20 (13-30)	17 (9.9-26)	15 (8.5-24)	14 (7.7-23)	13 (7.1-22)
5	86 (82-89)	76 (69-81)	63 (55-68)	50 (42-57)	40 (33-48)	32 (26-40)	27 (21-35)	23 (18-30)	20 (15-28)	19 (14-27)	18 (13-25)
6	90	85	75	63	51	42	35	30	27	26	24

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	25	17	12	9.1	6.9	5.5	4.4	3.7	3.4	3.1	2.9
1	35 (32-40)	25 (23-29)	18 (16-21)	13 (11-16)	10 (8.0-12)	8.0 (6.0-9.9)	6.5 (4.6-8.4)	5.4 (3.7-7.2)	4.9 (3.3-6.7)	4.5 (3.0-6.3)	4.2 (2.7-5.9)
2	46 (39-56)	34 (29-43)	25 (21-32)	19 (15-24)	15 (11-20)	12 (7.7-17)	9.4 (5.9-14)	7.8 (4.6-12)	7.1 (4.0-12)	6.5 (3.6-11)	6.1 (3.3-10)
3	58 (49-67)	46 (37-54)	35 (27-44)	26 (20-36)	20 (14-30)	16 (10-25)	13 (7.7-22)	11 (6.1-19)	10 (5.2-18)	9.2 (4.6-17)	8.6 (4.2-16)
4	70 (60-76)	57 (46-64)	45 (35-53)	35 (27-44)	28 (20-37)	22 (16-32)	18 (12-27)	15 (9.6-24)	14 (8.2-22)	13 (7.2-21)	12 (6.6-20)
5	78 (73-82)	68 (62-72)	57 (49-62)	46 (39-52)	37 (31-44)	30 (24-37)	24 (20-32)	21 (16-28)	19 (14-26)	17 (12-24)	16 (11-23)
6	84	77	67	56	47	38	32	27	25	23	21

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	24	18	13	10	7.8	6.2	5.0	4.3	3.8	3.5	3.2
1	33 (31-37)	25 (22-28)	19 (16-21)	14 (12-16)	11 (8.8-13)	8.9 (6.7-11)	7.3 (5.2-9.4)	6.1 (4.3-8.2)	5.5 (3.7-7.5)	5.0 (3.3-7.0)	4.6 (3.0-6.5)
2	43 (37-51)	34 (28-40)	26 (21-31)	20 (16-26)	16 (12-21)	13 (8.7-18)	10 (6.7-15)	8.7 (5.3-14)	7.8 (4.6-12)	7.1 (4.0-12)	6.6 (3.6-11)
3	54 (46-61)	43 (36-51)	34 (28-43)	27 (21-36)	22 (15-31)	17 (12-26)	14 (8.8-23)	12 (7.0-20)	11 (6.0-19)	9.9 (5.2-17)	9.1 (4.7-16)
4	64 (56-70)	54 (45-60)	44 (36-52)	35 (28-44)	29 (22-38)	23 (18-33)	19 (14-28)	16 (11-25)	15 (9.2-23)	14 (8.0-22)	12 (7.1-20)
5	72 (67-76)	63 (58-68)	54 (48-60)	45 (39-52)	37 (32-45)	30 (26-38)	25 (21-33)	22 (17-29)	20 (15-27)	18 (13-25)	17 (12-24)
6	78	71	63	54	46	39	33	28	26	24	22

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	24	18	14	11	8.6	6.8	5.5	4.7	4.1	3.7	3.3
1	33 (29-40)	26 (22-31)	20 (17-24)	16 (13-19)	12 (9.5-15)	9.6 (7.3-12)	7.7 (5.7-9.2)	6.5 (4.7-7.7)	5.7 (4.0-6.7)	5.1 (3.5-6.0)	4.6 (3.1-5.4)
2	44 (37-53)	35 (29-44)	28 (22-35)	22 (17-28)	17 (13-22)	13 (9.7-18)	11 (7.5-14)	9.0 (6.0-12)	7.8 (5.1-11)	6.9 (4.4-9.6)	6.2 (3.8-8.6)
3	55 (47-64)	46 (37-55)	37 (29-47)	30 (22-39)	23 (17-32)	19 (13-26)	15 (9.9-21)	12 (8.0-18)	11 (6.7-16)	9.3 (5.8-14)	8.3 (5.0-13)
4	65 (57-72)	57 (48-64)	48 (39-56)	39 (31-47)	32 (24-39)	25 (19-33)	20 (15-27)	17 (12-23)	14 (10-20)	12 (8.6-18)	11 (7.5-16)
5	73 (67-77)	66 (59-72)	58 (51-64)	50 (42-56)	41 (34-48)	33 (28-40)	27 (22-33)	22 (18-28)	19 (16-25)	16 (13-22)	15 (12-20)
6	79	74	67	60	51	43	35	29	25	22	19

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	24	19	15	12	9.4	7.5	6.0	5.1	4.5	3.9	3.5
1	34 (27-53)	28 (22-44)	22 (17-36)	18 (13-29)	14 (10-22)	11 (8.0-17)	8.8 (6.3-13)	7.4 (5.2-11)	6.3 (4.4-8.5)	5.4 (3.8-7.0)	4.8 (3.3-5.8)
2	46 (35-62)	39 (28-54)	32 (22-46)	26 (17-38)	21 (14-31)	16 (11-25)	13 (8.4-19)	11 (6.9-16)	9.0 (5.7-13)	7.6 (4.9-10)	6.5 (4.2-8.7)
3	57 (43-70)	50 (36-63)	43 (29-56)	36 (23-48)	29 (18-40)	24 (14-33)	19 (11-26)	15 (9.2-22)	13 (7.6-18)	11 (6.4-15)	9.0 (5.5-13)
4	67 (52-76)	61 (45-71)	54 (37-64)	47 (31-57)	40 (25-49)	33 (20-42)	26 (16-34)	22 (13-28)	18 (11-24)	15 (9.3-20)	12 (7.9-17)
5	75 (61-80)	71 (54-76)	65 (47-71)	58 (40-65)	51 (33-58)	43 (27-50)	36 (22-42)	30 (19-36)	25 (16-30)	21 (14-25)	17 (12-21)
6	81	78	74	68	62	54	47	40	34	28	23

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	23	19	16	13	10	8.4	7.0	6.0	5.3	4.6	4.1
1	33 (26-51)	27 (21-44)	23 (17-37)	19 (14-30)	15 (11-25)	12 (8.9-20)	10 (7.2-16)	8.7 (6.1-13)	7.4 (5.2-11)	6.4 (4.4-9.1)	5.6 (3.9-7.6)
2	43 (32-60)	37 (27-53)	32 (22-46)	26 (18-39)	22 (15-33)	18 (12-27)	15 (9.6-22)	12 (8.1-19)	11 (6.8-16)	9.0 (5.8-13)	7.8 (5.0-11)
3	54 (40-68)	48 (34-62)	42 (28-55)	36 (24-49)	30 (19-42)	25 (16-35)	21 (13-29)	18 (11-25)	15 (9.1-21)	13 (7.7-18)	11 (6.6-15)
4	64 (48-74)	59 (42-69)	53 (36-63)	46 (30-57)	40 (25-50)	34 (21-43)	29 (17-37)	24 (15-32)	21 (13-27)	18 (11-23)	15 (9.1-19)
5	72 (57-77)	68 (51-74)	63 (44-69)	57 (38-64)	51 (33-58)	44 (27-51)	38 (23-45)	33 (20-39)	28 (17-34)	24 (15-29)	20 (13-25)
6	77	76	72	67	62	55	49	43	37	32	28

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	21	18	15	13	11	9.0	7.7	6.8	6.0	5.3	4.8
1	30 (23-45)	25 (19-40)	22 (16-34)	18 (13-29)	15 (11-25)	13 (9.1-21)	11 (7.7-17)	9.7 (6.7-15)	8.5 (5.8-13)	7.5 (5.1-11)	6.6 (4.4-9.4)
2	39 (29-55)	34 (25-49)	30 (21-43)	26 (17-38)	22 (15-32)	18 (12-28)	16 (10-23)	14 (8.9-20)	12 (7.7-17)	10 (6.7-15)	9.1 (5.8-13)
3	49 (36-63)	44 (31-58)	39 (27-52)	34 (23-46)	30 (19-41)	25 (16-35)	22 (14-31)	19 (12-27)	17 (10-23)	15 (8.9-20)	13 (7.7-17)
4	59 (44-69)	55 (38-65)	50 (34-60)	44 (29-55)	39 (25-49)	34 (21-43)	30 (18-38)	26 (16-34)	23 (14-30)	20 (12-26)	17 (10-23)
5	68 (52-73)	64 (47-70)	60 (42-66)	55 (36-61)	50 (32-56)	44 (27-51)	39 (24-46)	35 (21-41)	31 (18-37)	27 (16-33)	24 (14-29)
6	73	71	69	65	60	55	50	45	40	36	32

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	19	16	14	12	10	8.7	7.7	6.8	6.1	5.4	4.8
1	26 (20-40)	23 (17-36)	20 (14-31)	17 (12-27)	15 (10-23)	13 (8.8-20)	11 (7.7-18)	9.8 (6.8-15)	8.7 (6.0-14)	7.7 (5.3-12)	6.9 (4.7-10)
2	35 (25-49)	31 (22-45)	27 (19-40)	24 (16-35)	21 (14-31)	18 (12-27)	16 (10-24)	14 (9.1-21)	12 (8.0-19)	11 (7.0-16)	9.8 (6.2-14)
3	45 (32-57)	40 (28-53)	36 (25-48)	32 (21-44)	28 (18-39)	25 (16-35)	22 (14-31)	20 (12-28)	18 (11-25)	16 (9.4-22)	14 (8.3-19)
4	54 (39-64)	50 (35-60)	46 (31-56)	42 (27-52)	38 (24-47)	33 (21-42)	30 (18-38)	27 (16-35)	24 (14-31)	22 (13-28)	19 (11-25)
5	62 (47-68)	59 (43-66)	56 (39-62)	52 (34-59)	48 (30-54)	43 (27-50)	39 (24-46)	36 (21-42)	32 (19-39)	29 (17-35)	26 (15-32)
6	68	67	64	61	58	54	50	46	42	39	35