

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 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 Austria. 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	5.0	4.5	4.2	3.7	3.2	2.8	2.5
1	8.1 (5.6-12)	7.1 (4.9-10)	6.6 (4.5-9.1)	5.8 (3.9-7.9)	5.0 (3.4-6.9)	4.4 (3.0-6.0)	3.8 (2.6-5.3)
2	13 (7.2-21)	11 (6.1-18)	10 (5.5-17)	8.8 (4.7-15)	7.7 (4.1-13)	6.8 (3.6-12)	5.9 (3.1-10)
3	20 (11-33)	17 (8.6-29)	15 (7.5-27)	13 (6.5-24)	12 (5.6-21)	10 (4.9-18)	8.9 (4.3-16)
4	31 (18-45)	25 (15-39)	22 (13-35)	20 (11-31)	17 (9.4-28)	15 (8.1-24)	13 (7.0-22)
5	45 (29-54)	37 (25-46)	32 (22-41)	28 (20-37)	25 (17-33)	22 (15-29)	19 (13-26)
6	62	52	45	40	35	31	27

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.5	5.7	5.3	4.6	4.0	3.5	3.1
1	10 (7.5-15)	9.0 (6.3-12)	8.2 (5.7-11)	7.2 (4.9-9.6)	6.2 (4.3-8.4)	5.5 (3.7-7.3)	4.8 (3.2-6.4)
2	17 (9.7-26)	14 (7.9-22)	13 (7.0-20)	11 (6.0-18)	9.5 (5.2-16)	8.3 (4.5-14)	7.3 (3.9-12)
3	25 (14-39)	21 (11-34)	19 (9.7-32)	16 (8.3-28)	14 (7.2-25)	12 (6.2-22)	11 (5.4-19)
4	38 (23-52)	31 (19-45)	27 (16-41)	24 (14-37)	21 (12-33)	18 (10-29)	16 (8.9-26)
5	53 (37-63)	44 (31-54)	38 (28-48)	34 (24-43)	30 (21-39)	26 (19-34)	23 (16-30)
6	70	60	52	47	42	37	33

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.0	6.8	6.1	5.3	4.6	4.0	3.5
1	13 (9.5-18)	11 (7.7-14)	9.5 (6.7-13)	8.2 (5.8-11)	7.1 (5.0-9.4)	6.2 (4.3-8.1)	5.4 (3.7-7.1)
2	20 (13-30)	16 (9.8-25)	14 (8.3-23)	12 (7.1-20)	11 (6.1-17)	9.4 (5.3-15)	8.2 (4.6-13)
3	30 (19-44)	25 (14-38)	21 (12-35)	19 (10-31)	16 (8.6-27)	14 (7.4-24)	12 (6.3-21)
4	44 (29-58)	36 (23-50)	31 (20-45)	27 (17-40)	24 (14-36)	21 (12-32)	18 (11-28)
5	59 (45-68)	50 (37-59)	43 (32-53)	38 (28-47)	33 (25-42)	29 (22-38)	26 (19-33)
6	75	66	58	52	46	41	36

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	9.6	8.5	7.3	6.4	5.5	4.8
1	18 (14-24)	15 (11-19)	13 (9.4-17)	11 (8.0-14)	9.7 (6.9-12)	8.4 (5.9-11)	7.3 (5.1-9.3)
2	27 (19-38)	22 (14-32)	19 (12-29)	17 (10-25)	15 (8.6-22)	13 (7.4-20)	11 (6.3-17)
3	40 (28-53)	33 (21-47)	28 (17-43)	25 (14-38)	21 (12-34)	19 (10-30)	16 (8.9-27)
4	54 (39-67)	46 (32-60)	39 (28-55)	35 (24-49)	30 (20-44)	27 (17-39)	23 (15-35)
5	69 (58-77)	60 (49-70)	53 (43-63)	47 (37-57)	42 (33-52)	37 (29-46)	33 (25-41)
6	81	75	68	62	56	50	44

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	17	14	12	9.9	8.5	7.3	6.3
1	26 (20-31)	21 (16-25)	17 (13-21)	15 (11-18)	13 (9.4-16)	11 (8.0-14)	9.2 (6.8-12)
2	38 (27-49)	30 (21-40)	25 (17-34)	21 (14-29)	18 (12-25)	16 (10-22)	13 (8.6-19)
3	53 (40-67)	44 (31-58)	36 (24-50)	31 (20-44)	27 (17-38)	23 (15-33)	19 (12-29)
4	68 (57-79)	59 (47-73)	50 (38-64)	43 (33-58)	38 (28-51)	33 (24-45)	28 (20-39)
5	80 (75-85)	74 (68-81)	65 (58-74)	59 (51-68)	52 (44-61)	45 (38-54)	39 (33-48)
6	86	85	80	74	67	60	53

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	24	19	16	14	12	9.9	8.4
1	37 (28-50)	30 (23-39)	24 (18-30)	21 (16-25)	17 (13-21)	15 (11-17)	12 (9.2-15)
2	51 (37-67)	43 (30-58)	36 (24-47)	30 (20-40)	26 (17-34)	22 (14-29)	18 (12-24)
3	66 (50-79)	59 (43-73)	50 (35-66)	44 (29-58)	37 (25-51)	32 (21-44)	27 (17-38)
4	76 (64-85)	73 (58-83)	66 (51-79)	59 (44-73)	52 (38-66)	45 (32-59)	39 (27-52)
5	84 (76-87)	82 (74-87)	79 (69-85)	74 (63-81)	67 (56-76)	60 (49-70)	53 (43-63)
6	87	88	87	84	80	75	68

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	30	26	23	19	16	14	12
1	43 (33-57)	37 (29-50)	33 (25-41)	28 (21-35)	23 (18-29)	20 (15-24)	17 (12-20)
2	56 (43-71)	51 (38-65)	45 (32-57)	39 (27-50)	33 (23-43)	28 (19-36)	24 (16-31)
3	67 (54-79)	64 (50-76)	59 (45-71)	52 (38-64)	45 (33-57)	39 (28-50)	33 (23-43)
4	76 (65-84)	74 (62-82)	71 (59-80)	65 (52-76)	58 (45-70)	52 (39-64)	45 (33-57)
5	82 (75-85)	82 (73-86)	80 (71-85)	76 (65-82)	70 (59-78)	64 (53-73)	58 (46-67)
6	83	85	86	83	80	75	70

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	31	29	28	24	20	17	14
1	43 (34-57)	40 (31-53)	38 (30-48)	33 (25-41)	28 (21-35)	24 (18-29)	20 (15-24)
2	55 (43-70)	52 (40-66)	50 (37-62)	44 (31-55)	38 (27-48)	32 (22-42)	27 (19-36)
3	66 (52-77)	63 (49-75)	61 (47-73)	55 (41-68)	49 (35-61)	42 (30-55)	37 (25-48)
4	74 (63-81)	73 (61-81)	71 (60-80)	66 (53-75)	60 (47-70)	54 (40-65)	47 (34-58)
5	77 (72-80)	79 (71-83)	79 (70-84)	75 (65-81)	70 (59-77)	64 (53-72)	58 (47-67)
6	76	81	83	81	78	74	69

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	30	28	28	24	20	17	14
1	41 (32-55)	39 (30-51)	38 (29-47)	32 (24-41)	28 (20-34)	23 (17-29)	20 (14-24)
2	52 (40-66)	50 (38-64)	48 (36-60)	42 (31-54)	37 (26-47)	31 (22-41)	27 (18-35)
3	62 (49-73)	61 (47-73)	59 (45-71)	53 (39-66)	47 (33-60)	41 (28-53)	35 (24-47)
4	69 (59-77)	69 (58-78)	69 (57-78)	63 (51-73)	58 (45-68)	52 (38-62)	45 (33-56)
5	70 (67-74)	74 (68-78)	76 (68-80)	72 (63-78)	67 (57-74)	62 (51-70)	56 (45-64)
6	65	75	79	77	75	71	66