

Romania - 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 Romania. 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	2.8	2.5	2.3	2.0	1.8	1.6	1.4
1	4.6 (3.2-7.0)	4.0 (2.7-5.8)	3.7 (2.5-5.2)	3.2 (2.2-4.5)	2.8 (1.9-3.9)	2.4 (1.6-3.4)	2.1 (1.4-2.9)
2	7.5 (4.1-12)	6.4 (3.4-11)	5.7 (3.1-9.8)	5.0 (2.6-8.6)	4.3 (2.3-7.5)	3.8 (2.0-6.6)	3.3 (1.7-5.7)
3	12 (6.1-20)	9.9 (4.9-17)	8.8 (4.3-16)	7.6 (3.7-14)	6.6 (3.2-12)	5.8 (2.7-11)	5.0 (2.4-9.3)
4	19 (10-28)	15 (8.5-24)	13 (7.2-21)	11 (6.2-19)	10 (5.3-16)	8.7 (4.6-14)	7.5 (3.9-12)
5	29 (18-36)	23 (15-29)	20 (13-26)	17 (11-23)	15 (9.9-20)	13 (8.6-17)	11 (7.5-15)
6	42	34	28	25	22	19	16

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.8	3.3	3.0	2.6	2.3	2.0	1.7
1	6.2 (4.4-9.0)	5.2 (3.6-7.4)	4.7 (3.2-6.5)	4.1 (2.8-5.6)	3.6 (2.4-4.8)	3.1 (2.1-4.2)	2.7 (1.8-3.6)
2	10 (5.8-16)	8.2 (4.6-13)	7.3 (4.0-12)	6.3 (3.4-11)	5.5 (3.0-9.2)	4.8 (2.6-8.0)	4.1 (2.2-7.0)
3	16 (8.8-25)	13 (6.8-21)	11 (5.6-19)	9.6 (4.8-17)	8.3 (4.2-15)	7.2 (3.6-13)	6.3 (3.1-11)
4	24 (14-35)	19 (12-29)	17 (9.6-26)	14 (8.2-23)	12 (7.0-20)	11 (6.0-17)	9.4 (5.1-15)
5	36 (24-44)	29 (19-36)	24 (17-31)	21 (15-28)	18 (13-24)	16 (11-21)	14 (9.5-18)
6	51	41	35	30	26	23	20

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	4.2	3.8	3.3	2.8	2.5	2.1
1	8.1 (6.0-11)	6.7 (4.8-9.2)	5.9 (4.2-7.9)	5.1 (3.6-6.8)	4.4 (3.1-5.9)	3.8 (2.6-5.1)	3.3 (2.3-4.4)
2	13 (8.0-20)	11 (6.2-16)	9.1 (5.2-14)	7.9 (4.4-13)	6.8 (3.8-11)	5.9 (3.3-9.6)	5.1 (2.8-8.4)
3	20 (12-30)	16 (9.2-26)	14 (7.4-23)	12 (6.3-20)	10 (5.4-18)	8.9 (4.6-15)	7.7 (3.9-13)
4	30 (19-42)	24 (15-35)	20 (13-31)	18 (11-27)	15 (9.1-24)	13 (7.8-21)	11 (6.6-18)
5	43 (31-52)	35 (25-43)	30 (21-37)	26 (18-33)	22 (16-29)	19 (14-25)	17 (12-22)
6	59	49	41	36	32	27	24

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.6	5.4	4.7	4.1	3.5	3.0	2.6
1	10 (7.9-14)	8.5 (6.2-11)	7.3 (5.2-9.5)	6.3 (4.5-8.1)	5.4 (3.8-7.0)	4.6 (3.2-6.0)	4.0 (2.8-5.1)
2	16 (11-23)	13 (8.2-19)	11 (6.7-17)	9.6 (5.6-15)	8.2 (4.8-13)	7.0 (4.1-11)	6.1 (3.5-9.7)
3	25 (16-34)	20 (12-30)	17 (9.7-27)	14 (8.2-23)	12 (6.9-20)	11 (5.8-18)	9.1 (4.9-15)
4	36 (24-47)	29 (19-40)	24 (16-36)	21 (14-31)	18 (12-27)	16 (9.8-24)	13 (8.3-21)
5	49 (38-58)	41 (31-49)	35 (26-43)	30 (23-38)	26 (19-33)	22 (17-29)	19 (14-25)
6	64	55	47	42	36	32	27

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.4	6.8	5.9	5.0	4.3	3.6	3.1
1	13 (10-16)	11 (7.9-13)	8.8 (6.6-11)	7.5 (5.5-9.5)	6.3 (4.7-8.1)	5.4 (4.0-6.9)	4.6 (3.4-5.9)
2	21 (14-28)	16 (11-22)	13 (8.5-18)	11 (7.1-15)	9.4 (6.0-13)	8.0 (5.0-11)	6.8 (4.2-9.5)
3	31 (22-43)	24 (16-35)	20 (13-29)	17 (10-25)	14 (8.8-21)	12 (7.3-18)	10 (6.1-15)
4	45 (34-58)	36 (27-49)	29 (21-40)	25 (18-35)	21 (15-30)	17 (12-25)	15 (10-22)
5	60 (53-68)	51 (44-60)	41 (35-50)	36 (29-43)	30 (25-37)	26 (21-32)	22 (17-27)
6	73	66	57	50	43	37	31

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	8.3	7.1	6.0	5.1	4.3	3.6
1	16 (12-24)	13 (9.6-18)	11 (8.0-13)	9.1 (6.7-11)	7.6 (5.6-9.1)	6.4 (4.7-7.8)	5.3 (3.9-6.6)
2	26 (16-38)	21 (13-30)	17 (11-23)	14 (8.7-19)	11 (7.2-16)	9.5 (6.0-13)	7.9 (5.0-11)
3	38 (24-53)	31 (20-44)	25 (16-36)	21 (13-30)	17 (11-25)	14 (8.9-21)	12 (7.4-17)
4	52 (36-66)	45 (30-59)	37 (25-50)	31 (21-43)	26 (17-37)	22 (14-31)	18 (12-26)
5	66 (52-74)	60 (46-70)	52 (40-62)	45 (34-54)	38 (29-47)	32 (24-40)	27 (20-34)
6	76	73	68	61	53	46	39

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	9.1	8.0	6.6	5.5	4.6	3.9
1	17 (12-26)	14 (10-20)	12 (8.9-16)	10 (7.3-13)	8.2 (6.0-10)	6.8 (4.9-8.5)	5.6 (4.1-6.9)
2	25 (17-38)	22 (14-31)	18 (12-25)	15 (9.6-21)	12 (7.9-17)	10 (6.5-14)	8.3 (5.3-11)
3	36 (23-50)	32 (21-43)	27 (18-37)	22 (15-31)	18 (12-25)	15 (9.7-21)	12 (7.9-17)
4	48 (33-60)	44 (30-56)	38 (27-50)	32 (22-43)	27 (18-36)	22 (15-31)	18 (12-25)
5	60 (45-68)	56 (42-65)	51 (38-61)	44 (32-53)	38 (27-46)	32 (23-39)	26 (19-33)
6	71	68	64	58	51	44	37

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.5	8.5	8.0	6.5	5.4	4.4	3.7
1	15 (11-24)	13 (9.3-20)	12 (8.5-16)	9.7 (6.9-13)	8.0 (5.6-11)	6.5 (4.5-8.5)	5.3 (3.7-6.8)
2	23 (15-35)	20 (13-30)	18 (11-25)	15 (9.2-20)	12 (7.5-17)	9.6 (6.0-13)	7.8 (4.9-11)
3	33 (21-46)	29 (18-41)	26 (16-36)	21 (13-30)	17 (11-25)	14 (8.6-20)	11 (6.9-17)
4	45 (29-56)	41 (27-52)	36 (25-48)	31 (20-41)	25 (16-34)	21 (13-29)	17 (11-24)
5	56 (41-65)	53 (38-62)	49 (35-58)	42 (29-51)	35 (24-44)	29 (20-37)	24 (16-31)
6	66	64	61	54	47	40	34

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.3	6.7	6.4	5.3	4.3	3.6	2.9
1	12 (8.0-19)	10 (7.2-16)	9.6 (6.7-13)	7.8 (5.4-10)	6.3 (4.4-8.4)	5.2 (3.6-6.7)	4.2 (2.9-5.4)
2	18 (11-28)	16 (10-24)	14 (9.0-20)	12 (7.3-16)	9.4 (5.9-13)	7.6 (4.7-11)	6.1 (3.8-8.6)
3	27 (16-39)	24 (14-34)	21 (13-30)	17 (10-24)	14 (8.3-20)	11 (6.7-16)	9.0 (5.4-13)
4	37 (23-48)	34 (21-44)	30 (20-40)	25 (16-34)	20 (13-28)	16 (10-23)	13 (8.2-19)
5	48 (34-57)	45 (31-54)	41 (29-50)	35 (24-43)	29 (20-36)	24 (16-30)	19 (13-25)
6	58	57	53	46	40	33	27