

Romania - 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 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	1.8	1.7	1.7	1.5	1.3	1.2	1.0
1	2.8 (1.9-4.3)	2.7 (1.8-4.0)	2.7 (1.8-3.8)	2.4 (1.6-3.3)	2.0 (1.3-2.8)	1.8 (1.2-2.5)	1.5 (1.0-2.1)
2	4.4 (2.4-7.6)	4.2 (2.2-7.4)	4.2 (2.2-7.3)	3.6 (1.9-6.4)	3.1 (1.6-5.6)	2.7 (1.4-4.9)	2.3 (1.2-4.2)
3	6.8 (3.5-12)	6.5 (3.2-11)	6.3 (3.0-11)	5.4 (2.6-9.9)	4.7 (2.2-8.6)	4.1 (1.9-7.5)	3.5 (1.7-6.5)
4	10 (5.5-16)	9.7 (5.0-16)	9.3 (4.8-15)	8.0 (4.1-13)	6.9 (3.5-12)	6.0 (3.0-10)	5.2 (2.6-8.7)
5	15 (9.1-21)	14 (8.9-19)	14 (8.9-18)	12 (7.7-16)	10 (6.7-14)	8.7 (5.8-12)	7.5 (5.0-10)
6	22	21	19	17	14	12	11

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.1	2.0	2.0	1.7	1.5	1.3	1.1
1	3.3 (2.2-4.9)	3.2 (2.1-4.5)	3.1 (2.1-4.3)	2.7 (1.8-3.7)	2.3 (1.5-3.2)	2.0 (1.3-2.7)	1.7 (1.1-2.4)
2	5.1 (2.9-8.5)	4.9 (2.7-8.2)	4.7 (2.5-8.1)	4.1 (2.2-7.1)	3.5 (1.9-6.1)	3.0 (1.6-5.3)	2.6 (1.4-4.6)
3	7.9 (4.3-13)	7.4 (3.9-12)	7.1 (3.6-12)	6.1 (3.0-11)	5.2 (2.6-9.3)	4.5 (2.2-8.1)	3.9 (1.9-7.0)
4	12 (6.7-18)	11 (6.1-17)	10 (5.7-17)	9.0 (4.8-15)	7.7 (4.0-13)	6.6 (3.4-11)	5.7 (2.9-9.5)
5	17 (11-23)	16 (10-21)	15 (10-20)	13 (8.7-18)	11 (7.5-15)	9.5 (6.4-13)	8.2 (5.5-11)
6	25	23	22	18	16	14	12

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.4	2.3	2.3	2.0	1.7	1.4	1.2
1	3.8 (2.6-5.6)	3.6 (2.5-5.1)	3.5 (2.4-4.8)	3.0 (2.0-4.1)	2.6 (1.7-3.5)	2.2 (1.5-3.0)	1.9 (1.3-2.6)
2	5.9 (3.5-9.2)	5.5 (3.2-9.0)	5.3 (3.0-8.9)	4.5 (2.5-7.6)	3.9 (2.1-6.6)	3.3 (1.8-5.7)	2.8 (1.5-4.9)
3	8.9 (5.3-13)	8.3 (4.7-13)	7.9 (4.3-13)	6.8 (3.6-12)	5.8 (3.0-9.9)	4.9 (2.6-8.5)	4.2 (2.2-7.4)
4	13 (8.2-19)	12 (7.4-19)	12 (6.7-18)	9.9 (5.6-16)	8.4 (4.7-14)	7.2 (3.9-12)	6.1 (3.3-10)
5	19 (12-25)	18 (12-23)	17 (12-22)	14 (9.8-19)	12 (8.3-17)	10 (7.1-14)	8.8 (6.0-12)
6	27	25	24	20	17	15	12

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.9	2.7	2.6	2.2	1.9	1.6	1.4
1	4.4 (3.1-6.2)	4.1 (2.9-5.6)	3.9 (2.7-5.2)	3.3 (2.3-4.4)	2.8 (1.9-3.7)	2.4 (1.6-3.2)	2.0 (1.4-2.7)
2	6.8 (4.3-9.9)	6.2 (3.8-9.6)	5.9 (3.5-9.4)	5.0 (2.9-8.1)	4.2 (2.4-6.9)	3.6 (2.0-6.0)	3.0 (1.7-5.1)
3	10 (6.3-15)	9.3 (5.8-14)	8.8 (5.1-14)	7.4 (4.2-12)	6.2 (3.5-10)	5.3 (2.9-8.8)	4.5 (2.4-7.5)
4	15 (9.5-21)	14 (8.9-20)	13 (8.0-19)	11 (6.6-17)	9.1 (5.4-14)	7.6 (4.5-12)	6.4 (3.7-10)
5	21 (14-27)	19 (14-25)	18 (13-24)	15 (11-20)	13 (9.2-17)	11 (7.7-15)	9.2 (6.5-13)
6	28	27	25	21	18	15	13

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.4	3.1	2.9	2.4	2.1	1.7	1.5
1	5.2 (3.7-6.7)	4.7 (3.4-6.1)	4.3 (3.1-5.6)	3.6 (2.6-4.7)	3.0 (2.1-4.0)	2.5 (1.8-3.3)	2.1 (1.5-2.8)
2	8.1 (5.2-12)	7.2 (4.6-11)	6.5 (4.1-9.4)	5.4 (3.3-7.8)	4.4 (2.8-6.5)	3.7 (2.3-5.5)	3.1 (1.9-4.6)
3	12 (7.5-19)	11 (6.8-16)	9.7 (6.1-14)	7.9 (5.0-12)	6.5 (4.1-9.9)	5.4 (3.4-8.2)	4.5 (2.8-6.8)
4	18 (12-26)	16 (11-23)	14 (9.5-21)	12 (7.7-17)	9.7 (6.2-14)	7.9 (5.1-12)	6.5 (4.1-9.9)
5	26 (22-34)	24 (19-31)	21 (17-27)	17 (14-23)	14 (11-19)	12 (8.9-16)	9.5 (7.2-13)
6	36	33	30	25	21	17	14

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.9	3.6	3.3	2.7	2.3	1.9	1.6
1	6.4 (4.2-10)	5.7 (3.9-8.2)	5.1 (3.6-6.6)	4.1 (2.9-5.3)	3.4 (2.4-4.3)	2.8 (1.9-3.4)	2.3 (1.6-2.9)
2	10 (6.0-17)	9.0 (5.3-14)	7.8 (4.8-12)	6.3 (3.9-9.4)	5.1 (3.1-7.6)	4.2 (2.5-6.1)	3.4 (2.1-5.0)
3	16 (8.5-26)	14 (7.7-22)	12 (7.1-18)	9.8 (5.7-15)	7.9 (4.6-12)	6.3 (3.7-9.5)	5.1 (3.0-7.7)
4	24 (14-35)	22 (12-31)	19 (11-27)	15 (8.8-22)	12 (7.0-18)	9.7 (5.6-14)	7.7 (4.5-12)
5	35 (22-44)	31 (20-40)	28 (19-35)	23 (15-29)	18 (12-24)	15 (9.9-20)	12 (8.0-16)
6	47	43	39	33	27	22	18

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.2	3.9	3.6	2.9	2.4	1.9	1.6
1	6.9 (4.6-11)	6.2 (4.2-9.7)	5.6 (3.9-8.0)	4.5 (3.1-6.3)	3.6 (2.5-5.0)	2.9 (2.0-3.9)	2.3 (1.6-3.1)
2	11 (6.5-18)	9.8 (5.9-16)	8.6 (5.3-13)	6.9 (4.2-10)	5.5 (3.4-8.0)	4.4 (2.7-6.3)	3.5 (2.2-5.1)
3	17 (9.3-26)	15 (8.4-23)	13 (7.7-19)	11 (6.1-16)	8.4 (4.8-12)	6.7 (3.8-10)	5.3 (3.0-7.9)
4	25 (14-35)	22 (13-31)	20 (12-28)	16 (9.6-23)	13 (7.6-18)	10 (6.0-15)	8.0 (4.7-12)
5	35 (22-43)	32 (20-40)	28 (18-36)	23 (15-30)	19 (12-25)	15 (9.5-20)	12 (7.6-16)
6	46	43	39	33	27	22	17

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.4	4.0	3.7	3.0	2.4	1.9	1.5
1	7.4 (4.9-13)	6.5 (4.4-11)	5.8 (4.0-8.8)	4.6 (3.2-6.9)	3.7 (2.5-5.4)	2.9 (2.0-4.2)	2.3 (1.6-3.3)
2	12 (7.0-20)	10 (6.2-17)	9.1 (5.6-14)	7.2 (4.4-11)	5.7 (3.4-8.8)	4.5 (2.7-6.9)	3.6 (2.1-5.4)
3	18 (10-28)	16 (8.9-25)	14 (8.0-21)	11 (6.3-17)	8.8 (4.9-13)	6.9 (3.8-11)	5.5 (3.0-8.4)
4	27 (15-37)	24 (14-33)	21 (12-29)	17 (9.8-24)	13 (7.7-19)	11 (6.1-15)	8.3 (4.8-12)
5	37 (23-46)	34 (21-42)	30 (19-38)	25 (15-32)	20 (12-26)	16 (9.6-21)	13 (7.6-17)
6	48	45	41	35	29	23	19

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.1	3.6	3.3	2.7	2.1	1.7	1.4
1	6.9 (4.6-12)	6.0 (4.0-9.7)	5.3 (3.6-7.9)	4.2 (2.8-6.2)	3.3 (2.3-4.9)	2.6 (1.8-3.8)	2.1 (1.4-3.0)
2	11 (6.7-19)	9.6 (5.8-16)	8.3 (5.0-13)	6.6 (4.0-10)	5.2 (3.1-7.9)	4.1 (2.5-6.2)	3.2 (1.9-4.8)
3	18 (9.7-27)	15 (8.4-23)	13 (7.4-19)	10 (5.8-15)	8.1 (4.5-12)	6.3 (3.5-9.7)	5.0 (2.8-7.6)
4	26 (14-36)	23 (13-31)	20 (11-27)	16 (9.1-22)	12 (7.2-18)	9.8 (5.6-14)	7.7 (4.4-11)
5	36 (22-44)	32 (20-41)	29 (18-36)	23 (14-30)	19 (11-24)	15 (8.9-20)	12 (7.0-16)
6	47	44	40	33	27	22	18