

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 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 Romania. 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	15	9.8	6.5	4.7	3.6	2.9	2.5	2.2	2.1	2.0	1.9
1	23 (20-29)	15 (13-19)	10 (8.5-13)	7.2 (5.7-9.0)	5.5 (4.1-6.9)	4.4 (3.1-5.7)	3.7 (2.5-5.0)	3.4 (2.2-4.6)	3.2 (2.1-4.4)	3.0 (2.0-4.2)	2.9 (1.9-4.1)
2	34 (26-46)	22 (18-31)	15 (12-21)	11 (7.6-15)	8.2 (5.3-12)	6.6 (3.9-11)	5.5 (3.1-9.2)	5.0 (2.7-8.5)	4.7 (2.5-8.1)	4.5 (2.3-7.8)	4.3 (2.2-7.5)
3	47 (35-62)	32 (23-42)	22 (16-31)	16 (10-24)	12 (7.0-20)	9.6 (5.2-17)	8.1 (4.0-15)	7.2 (3.5-14)	6.8 (3.2-13)	6.5 (3.0-12)	6.2 (2.8-12)
4	62 (46-75)	44 (31-55)	31 (21-39)	23 (15-31)	17 (11-25)	14 (8.6-21)	12 (6.7-19)	10 (5.7-17)	9.7 (5.2-16)	9.3 (4.8-16)	8.9 (4.6-15)
5	77 (67-85)	59 (48-66)	43 (34-47)	32 (24-37)	24 (19-30)	19 (15-25)	16 (12-22)	14 (11-20)	14 (9.6-19)	13 (8.9-18)	12 (8.5-18)
6	88	73	56	43	33	26	22	20	19	18	17

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

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	16	11	7.6	5.6	4.3	3.5	2.9	2.7	2.5	2.3	2.2
1	24 (22-29)	16 (15-20)	11 (9.7-14)	8.4 (6.7-10)	6.5 (4.9-8.0)	5.3 (3.7-6.8)	4.4 (3.0-5.9)	4.0 (2.7-5.5)	3.7 (2.4-5.2)	3.5 (2.3-4.9)	3.3 (2.1-4.7)
2	35 (28-46)	24 (20-32)	17 (13-23)	12 (8.9-17)	9.6 (6.3-14)	7.7 (4.7-12)	6.4 (3.7-10)	5.9 (3.2-9.7)	5.5 (2.9-9.2)	5.1 (2.7-8.7)	4.9 (2.5-8.3)
3	48 (37-59)	34 (26-43)	24 (18-34)	18 (12-27)	14 (8.4-22)	11 (6.2-19)	9.3 (4.8-17)	8.5 (4.2-15)	7.9 (3.8-15)	7.4 (3.5-14)	7.0 (3.3-13)
4	62 (48-73)	46 (34-54)	34 (24-42)	25 (18-34)	20 (14-28)	16 (10-24)	13 (8.0-21)	12 (6.9-20)	11 (6.1-18)	10 (5.6-18)	9.9 (5.3-17)
5	76 (68-83)	60 (51-66)	46 (38-51)	35 (28-41)	27 (22-34)	22 (17-29)	18 (14-25)	17 (12-23)	15 (11-21)	14 (10-20)	14 (9.4-19)
6	87	73	59	46	36	30	25	23	21	20	19

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	17	12	8.6	6.4	5.0	4.0	3.4	3.1	2.8	2.6	2.4
1	25 (23-29)	18 (16-20)	13 (11-15)	9.5 (7.6-11)	7.4 (5.6-9.1)	5.9 (4.3-7.7)	5.0 (3.5-6.7)	4.5 (3.1-6.2)	4.2 (2.8-5.8)	3.9 (2.5-5.4)	3.6 (2.3-5.1)
2	36 (30-45)	25 (21-33)	18 (14-24)	14 (10-19)	11 (7.2-16)	8.6 (5.4-13)	7.3 (4.3-12)	6.6 (3.7-11)	6.0 (3.3-10)	5.6 (3.0-9.3)	5.2 (2.8-8.8)
3	48 (38-57)	35 (28-45)	26 (19-36)	20 (13-29)	15 (9.5-24)	12 (7.1-21)	10 (5.6-18)	9.4 (4.8-17)	8.6 (4.3-16)	8.0 (3.9-15)	7.5 (3.6-14)
4	61 (49-70)	47 (36-54)	36 (26-44)	27 (20-36)	21 (15-31)	17 (12-26)	15 (9.2-23)	13 (7.9-21)	12 (6.9-20)	11 (6.2-19)	10 (5.7-18)
5	74 (68-80)	60 (53-64)	47 (40-53)	37 (31-43)	29 (24-36)	24 (19-30)	20 (16-27)	18 (13-25)	17 (12-23)	15 (11-22)	14 (9.9-20)
6	84	73	60	48	39	32	27	24	22	21	19

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

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	18	13	9.4	7.1	5.5	4.3	3.8	3.4	3.0	2.8	2.5
1	26 (24-29)	19 (17-21)	14 (12-15)	10 (8.3-12)	8.0 (6.1-9.9)	6.4 (4.7-8.2)	5.5 (3.9-7.4)	4.9 (3.4-6.7)	4.4 (3.0-6.2)	4.0 (2.7-5.7)	3.7 (2.4-5.3)
2	36 (31-44)	26 (22-33)	20 (16-25)	15 (11-20)	12 (7.9-16)	9.2 (5.9-14)	8.0 (4.8-12)	7.1 (4.1-11)	6.4 (3.6-10)	5.8 (3.2-9.5)	5.4 (2.9-8.8)
3	48 (39-56)	36 (29-45)	27 (21-37)	21 (15-30)	16 (11-25)	13 (7.8-21)	11 (6.4-19)	10 (5.4-17)	9.1 (4.7-16)	8.3 (4.1-15)	7.6 (3.7-14)
4	60 (50-66)	47 (37-55)	37 (28-45)	28 (21-38)	22 (17-32)	18 (13-27)	16 (10-24)	14 (8.6-22)	13 (7.5-20)	11 (6.6-19)	11 (6.0-18)
5	72 (67-76)	59 (54-64)	48 (42-54)	38 (33-45)	30 (26-37)	24 (21-31)	21 (17-28)	19 (14-26)	17 (12-24)	16 (11-22)	14 (10-20)
6	81	71	59	48	39	32	28	25	23	21	19

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	19	14	10	7.6	5.9	4.8	4.1	3.6	3.2	2.9	2.6
1	27 (24-32)	20 (17-24)	15 (12-17)	11 (8.9-13)	8.4 (6.6-9.9)	6.7 (5.1-7.9)	5.7 (4.2-6.7)	5.0 (3.6-5.9)	4.4 (3.1-5.2)	3.9 (2.8-4.7)	3.5 (2.5-4.2)
2	38 (31-47)	28 (23-36)	21 (16-27)	16 (12-21)	12 (8.5-16)	9.5 (6.5-13)	8.0 (5.3-11)	6.9 (4.5-9.3)	6.1 (3.8-8.2)	5.4 (3.3-7.4)	4.8 (3.0-6.7)
3	51 (41-62)	39 (30-50)	30 (22-39)	22 (16-31)	17 (11-24)	13 (8.6-20)	11 (7.0-17)	9.5 (5.8-15)	8.3 (5.0-13)	7.3 (4.3-12)	6.5 (3.8-10)
4	65 (55-73)	53 (43-61)	41 (32-49)	31 (24-39)	24 (18-31)	18 (14-25)	15 (11-21)	13 (9.3-19)	11 (7.9-16)	9.8 (6.9-15)	8.7 (6.1-13)
5	77 (71-81)	66 (59-71)	54 (46-59)	42 (36-48)	32 (27-38)	25 (21-31)	21 (17-26)	18 (15-22)	15 (13-20)	13 (11-17)	12 (9.6-16)
6	85	78	67	55	43	34	28	24	20	17	15

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

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	19	14	10	7.9	6.1	5.1	4.3	3.7	3.3	2.9	2.6
1	28 (23-44)	21 (17-33)	16 (12-24)	12 (9.0-17)	9.0 (6.8-12)	7.3 (5.4-9.5)	6.1 (4.5-7.4)	5.1 (3.8-5.9)	4.4 (3.2-5.2)	3.8 (2.8-4.6)	3.4 (2.4-4.1)
2	41 (30-59)	31 (22-47)	24 (16-36)	18 (12-27)	13 (8.9-20)	11 (7.0-15)	8.6 (5.7-12)	7.1 (4.7-9.5)	6.0 (4.0-8.0)	5.1 (3.4-7.1)	4.5 (2.9-6.3)
3	55 (39-70)	44 (29-59)	34 (22-47)	26 (16-36)	20 (12-28)	15 (9.3-22)	12 (7.5-17)	9.9 (6.2-14)	8.2 (5.2-12)	6.9 (4.4-9.8)	5.9 (3.8-8.3)
4	68 (50-78)	58 (39-69)	48 (30-58)	37 (23-46)	28 (17-36)	22 (14-28)	17 (11-23)	14 (9.4-18)	11 (8.0-15)	9.4 (6.9-13)	7.9 (5.9-11)
5	78 (63-83)	71 (52-77)	62 (42-68)	51 (33-57)	40 (26-45)	31 (21-36)	25 (17-29)	20 (14-23)	16 (12-19)	13 (11-16)	11 (9.1-13)
6	85	81	74	65	54	43	35	28	22	18	14

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	17	13	9.7	7.5	5.9	4.9	4.2	3.5	3.0	2.6	2.3
1	25 (19-39)	19 (15-30)	15 (11-23)	11 (8.3-17)	8.7 (6.4-13)	7.1 (5.2-9.9)	5.9 (4.3-7.8)	4.9 (3.5-6.2)	4.1 (3.0-5.0)	3.5 (2.5-4.1)	3.1 (2.2-3.5)
2	35 (25-51)	28 (19-42)	21 (15-33)	16 (11-25)	13 (8.5-19)	10 (6.8-15)	8.3 (5.5-12)	6.8 (4.5-9.6)	5.7 (3.7-7.8)	4.8 (3.2-6.3)	4.1 (2.7-5.3)
3	47 (33-62)	39 (26-52)	31 (20-42)	24 (15-33)	18 (11-26)	15 (9.0-21)	12 (7.3-17)	9.6 (6.0-13)	7.9 (5.0-11)	6.5 (4.2-9.1)	5.5 (3.5-7.6)
4	59 (41-70)	50 (33-61)	42 (26-52)	33 (20-42)	26 (16-33)	21 (13-27)	17 (10-22)	14 (8.6-18)	11 (7.2-14)	9.0 (6.1-12)	7.4 (5.3-10)
5	70 (52-75)	62 (43-69)	54 (35-60)	45 (28-51)	36 (22-42)	30 (18-34)	24 (15-28)	19 (13-23)	15 (11-19)	12 (9.1-15)	10 (7.8-13)
6	78	73	65	57	48	40	33	26	21	17	14

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

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	13	10	8.1	6.3	5.2	4.4	3.7	3.2	2.7	2.3	2.0
1	19 (14-31)	15 (11-25)	12 (8.6-19)	9.3 (6.7-15)	7.6 (5.4-12)	6.3 (4.4-9.2)	5.3 (3.7-7.4)	4.4 (3.1-6.0)	3.7 (2.6-4.8)	3.2 (2.2-4.0)	2.7 (1.9-3.2)
2	28 (19-41)	22 (15-34)	17 (12-27)	14 (8.9-21)	11 (7.2-17)	9.1 (5.9-14)	7.5 (4.8-11)	6.2 (4.0-8.9)	5.2 (3.3-7.3)	4.3 (2.8-5.9)	3.6 (2.3-4.9)
3	38 (25-51)	31 (20-43)	25 (16-35)	20 (12-28)	16 (9.6-23)	13 (7.9-18)	11 (6.5-15)	8.8 (5.3-12)	7.2 (4.4-10)	6.0 (3.7-8.4)	5.0 (3.1-7.0)
4	49 (32-60)	41 (26-52)	34 (21-44)	28 (16-36)	23 (13-29)	19 (11-24)	15 (9.1-20)	12 (7.6-16)	10 (6.4-13)	8.3 (5.3-11)	6.9 (4.5-9.2)
5	60 (41-66)	53 (34-59)	45 (28-52)	38 (22-44)	31 (18-37)	26 (15-31)	21 (13-26)	18 (11-21)	14 (9.0-18)	12 (7.7-14)	9.5 (6.5-12)
6	70	64	57	49	42	36	30	24	20	16	13

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	9.0	7.2	5.7	4.6	3.9	3.3	2.8	2.4	2.0	1.7	1.5
1	13 (9.4-21)	10 (7.4-16)	8.3 (5.9-13)	6.7 (4.7-10)	5.6 (3.9-8.4)	4.7 (3.3-6.9)	4.0 (2.7-5.7)	3.3 (2.3-4.7)	2.8 (1.9-3.8)	2.4 (1.6-3.2)	2.0 (1.4-2.6)
2	19 (13-28)	15 (10-23)	12 (7.8-19)	9.8 (6.3-15)	8.1 (5.2-12)	6.8 (4.3-10)	5.7 (3.6-8.4)	4.7 (3.0-6.9)	4.0 (2.5-5.7)	3.3 (2.1-4.7)	2.8 (1.8-3.9)
3	27 (17-37)	22 (13-31)	17 (11-25)	14 (8.4-20)	12 (7.0-17)	9.8 (5.8-14)	8.2 (4.9-12)	6.8 (4.1-9.6)	5.6 (3.4-8.0)	4.7 (2.8-6.7)	3.9 (2.4-5.5)
4	36 (22-45)	30 (18-38)	25 (14-32)	20 (12-26)	17 (9.7-22)	14 (8.2-19)	12 (6.9-15)	9.7 (5.8-13)	8.1 (4.9-11)	6.7 (4.1-8.9)	5.5 (3.4-7.4)
5	46 (29-53)	40 (24-46)	34 (20-39)	28 (16-33)	24 (14-28)	20 (12-24)	17 (9.7-20)	14 (8.2-17)	12 (6.9-14)	9.5 (5.9-12)	7.9 (5.0-9.8)
6	57	51	44	38	33	28	24	20	16	14	11