

Romania - The probabilities of a hip fracture in men

The following tables give the 10-year probability (%) of a hip 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	14	7.9	4.3	2.3	1.2	0.6	0.3	0.2	0.1	0.1	0.0
1	22 (15-28)	12 (8.3-16)	6.7 (4.5-8.9)	3.6 (2.4-4.8)	1.9 (1.3-2.5)	1.0 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	32 (21-43)	18 (12-27)	10 (6.3-15)	5.6 (3.4-8.4)	3.0 (1.8-4.5)	1.6 (0.9-2.4)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	43 (30-57)	27 (17-38)	16 (9.4-23)	8.6 (5.1-13)	4.6 (2.7-7.3)	2.5 (1.4-3.9)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	56 (43-70)	38 (26-51)	23 (15-33)	13 (8.3-19)	7.1 (4.4-11)	3.8 (2.4-5.9)	2.0 (1.3-3.2)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	69 (59-78)	50 (40-62)	32 (25-42)	19 (14-26)	11 (7.7-15)	5.8 (4.2-8.3)	3.1 (2.2-4.5)	1.6 (1.2-2.4)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
6	79	63	44	27	16	8.7	4.7	2.5	1.3	0.7	0.4

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	14	8.0	4.5	2.5	1.4	0.7	0.4	0.2	0.1	0.1	0.0
1	21 (15-25)	12 (8.4-15)	6.8 (4.7-8.6)	3.8 (2.6-4.8)	2.1 (1.4-2.7)	1.2 (0.8-1.5)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	29 (20-39)	18 (12-25)	10 (6.6-15)	5.8 (3.7-8.3)	3.2 (2.0-4.7)	1.8 (1.1-2.6)	1.0 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
3	40 (29-52)	25 (17-35)	15 (9.9-22)	8.8 (5.5-13)	4.9 (3.1-7.3)	2.7 (1.7-4.1)	1.5 (0.9-2.3)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	52 (41-63)	35 (26-46)	22 (15-31)	13 (8.8-19)	7.4 (5.0-11)	4.2 (2.8-6.2)	2.3 (1.5-3.5)	1.3 (0.8-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
5	63 (56-72)	46 (39-57)	31 (25-40)	19 (15-25)	11 (8.4-15)	6.2 (4.8-8.7)	3.5 (2.6-4.9)	1.9 (1.5-2.7)	1.1 (0.8-1.5)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	73	58	41	26	16	9.1	5.1	2.9	1.6	0.9	0.5

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	12	7.2	4.3	2.5	1.5	0.9	0.5	0.3	0.2	0.1	0.1
1	17 (13-20)	11 (7.6-13)	6.4 (4.5-7.6)	3.8 (2.6-4.5)	2.2 (1.5-2.7)	1.3 (0.9-1.6)	0.8 (0.5-0.9)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	24 (17-32)	15 (11-20)	9.5 (6.3-13)	5.7 (3.7-7.7)	3.4 (2.2-4.6)	2.0 (1.3-2.7)	1.2 (0.7-1.6)	0.7 (0.4-0.9)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
3	33 (25-43)	22 (16-29)	14 (9.5-19)	8.4 (5.6-12)	5.0 (3.3-7.0)	3.0 (2.0-4.2)	1.7 (1.1-2.5)	1.0 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
4	43 (35-53)	30 (23-39)	19 (14-26)	12 (8.8-17)	7.3 (5.2-10)	4.4 (3.1-6.3)	2.6 (1.8-3.8)	1.5 (1.1-2.2)	0.9 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
5	54 (48-62)	39 (34-48)	27 (22-34)	17 (14-23)	11 (8.7-14)	6.4 (5.2-8.8)	3.8 (3.1-5.3)	2.2 (1.8-3.1)	1.4 (1.1-1.9)	0.8 (0.7-1.2)	0.5 (0.4-0.7)
6	64	50	36	24	15	9.2	5.5	3.3	2.0	1.2	0.7

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	10	6.6	4.1	2.6	1.6	1.0	0.6	0.4	0.2	0.2	0.1
1	15 (11-17)	9.5 (6.9-11)	6.1 (4.3-6.8)	3.8 (2.7-4.3)	2.4 (1.7-2.7)	1.5 (1.0-1.7)	0.9 (0.6-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	20 (15-25)	14 (9.6-17)	8.7 (6.1-11)	5.5 (3.8-7.1)	3.5 (2.4-4.5)	2.2 (1.5-2.8)	1.4 (0.9-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.5)	0.2 (0.2-0.3)
3	28 (21-35)	19 (14-24)	12 (9.1-16)	8.0 (5.8-11)	5.1 (3.6-6.8)	3.2 (2.3-4.3)	2.0 (1.4-2.7)	1.2 (0.9-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.5)
4	36 (30-44)	25 (20-32)	17 (14-23)	11 (8.7-15)	7.3 (5.5-9.9)	4.6 (3.5-6.4)	2.9 (2.2-4.0)	1.8 (1.4-2.6)	1.2 (0.9-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)
5	45 (41-53)	33 (30-41)	23 (21-30)	16 (14-21)	10 (8.9-14)	6.6 (5.7-8.9)	4.2 (3.6-5.7)	2.6 (2.3-3.6)	1.7 (1.5-2.3)	1.1 (0.9-1.5)	0.7 (0.6-1.0)
6	54	42	31	21	14	9.3	5.9	3.8	2.5	1.6	1.0

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	8.8	5.9	3.9	2.6	1.7	1.1	0.7	0.5	0.3	0.2	0.2
1	14 (12-18)	9.3 (8.3-12)	6.3 (5.5-8.2)	4.2 (3.7-5.5)	2.8 (2.4-3.6)	1.8 (1.6-2.4)	1.2 (1.1-1.6)	0.8 (0.7-1.1)	0.5 (0.5-0.7)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
2	21 (17-26)	14 (12-18)	9.9 (8.1-13)	6.7 (5.4-8.8)	4.5 (3.6-5.9)	3.0 (2.4-3.9)	2.0 (1.6-2.6)	1.3 (1.1-1.8)	0.9 (0.7-1.2)	0.6 (0.5-0.8)	0.4 (0.3-0.6)
3	30 (24-36)	21 (17-26)	15 (12-19)	10 (8.1-13)	7.0 (5.5-8.9)	4.7 (3.6-6.0)	3.1 (2.4-4.0)	2.1 (1.6-2.7)	1.4 (1.1-1.9)	1.0 (0.8-1.3)	0.7 (0.5-0.9)
4	40 (33-46)	31 (25-36)	22 (18-27)	16 (12-19)	11 (8.3-13)	7.4 (5.6-9.0)	5.0 (3.7-6.0)	3.4 (2.5-4.1)	2.3 (1.7-2.8)	1.6 (1.2-1.9)	1.1 (0.8-1.3)
5	52 (44-56)	41 (34-45)	32 (25-35)	23 (18-25)	17 (13-18)	11 (8.7-13)	7.8 (5.9-8.6)	5.3 (4.0-6.0)	3.7 (2.8-4.1)	2.5 (1.9-2.8)	1.7 (1.3-2.0)
6	62	53	42	33	24	17	12	8.3	5.8	4.0	2.8

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	7.3	5.2	3.6	2.6	1.8	1.2	0.9	0.6	0.4	0.3	0.2
1	13 (10-26)	9.5 (7.2-20)	6.8 (5.1-15)	4.9 (3.6-11)	3.4 (2.5-7.5)	2.4 (1.8-5.3)	1.7 (1.2-3.7)	1.2 (0.9-2.7)	0.9 (0.6-1.9)	0.6 (0.5-1.4)	0.4 (0.3-1.0)
2	21 (14-36)	16 (9.9-28)	12 (7.1-21)	8.6 (5.1-16)	6.1 (3.6-11)	4.4 (2.5-8.2)	3.1 (1.8-5.8)	2.2 (1.3-4.2)	1.6 (0.9-3.1)	1.2 (0.6-2.2)	0.8 (0.5-1.6)
3	32 (19-46)	25 (14-37)	19 (9.9-29)	14 (7.1-22)	10 (5.1-17)	7.5 (3.6-12)	5.3 (2.5-8.7)	3.9 (1.8-6.4)	2.8 (1.3-4.6)	2.0 (0.9-3.4)	1.5 (0.7-2.4)
4	44 (25-55)	36 (19-46)	29 (14-37)	22 (10-29)	17 (7.6-22)	12 (5.4-17)	8.8 (3.8-12)	6.5 (2.8-8.9)	4.8 (2.0-6.5)	3.5 (1.4-4.8)	2.5 (1.0-3.5)
5	56 (34-63)	48 (27-55)	40 (20-46)	32 (15-37)	25 (11-29)	19 (8.1-22)	14 (5.8-16)	11 (4.2-12)	7.8 (3.1-9.1)	5.8 (2.3-6.7)	4.2 (1.6-4.9)
6	67	60	53	44	36	28	22	16	12	9.3	6.8

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	5.8	4.3	3.2	2.4	1.8	1.3	1.0	0.7	0.6	0.4	0.3
1	10 (7.5-22)	7.9 (5.7-17)	5.9 (4.2-13)	4.5 (3.1-9.8)	3.3 (2.3-7.4)	2.5 (1.7-5.5)	1.8 (1.3-4.1)	1.4 (1.0-3.1)	1.1 (0.7-2.4)	0.8 (0.6-1.8)	0.6 (0.4-1.4)
2	17 (9.8-30)	13 (7.5-24)	10 (5.6-19)	7.7 (4.2-14)	5.8 (3.2-11)	4.3 (2.3-8.2)	3.3 (1.8-6.2)	2.5 (1.3-4.8)	1.9 (1.0-3.7)	1.5 (0.8-2.8)	1.1 (0.6-2.1)
3	25 (13-38)	20 (10-31)	16 (7.8-25)	12 (5.9-20)	9.5 (4.4-16)	7.2 (3.3-12)	5.5 (2.5-9.2)	4.2 (1.9-7.1)	3.2 (1.4-5.5)	2.5 (1.1-4.2)	1.9 (0.8-3.2)
4	35 (18-46)	29 (14-39)	24 (11-33)	19 (8.5-26)	15 (6.4-21)	11 (4.8-16)	8.8 (3.6-13)	6.9 (2.8-9.9)	5.3 (2.2-7.7)	4.1 (1.7-5.9)	3.2 (1.3-4.6)
5	47 (25-53)	40 (20-46)	33 (16-39)	27 (12-32)	22 (9.5-26)	17 (7.2-21)	14 (5.5-16)	11 (4.2-13)	8.4 (3.3-10)	6.6 (2.5-7.9)	5.1 (1.9-6.1)
6	58	52	45	38	31	25	20	16	13	10	8.0

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	4.3	3.3	2.6	2.0	1.6	1.2	1.0	0.8	0.6	0.5	0.4
1	7.7 (5.6-17)	6.1 (4.4-13)	4.8 (3.4-11)	3.8 (2.7-8.4)	3.0 (2.1-6.6)	2.3 (1.6-5.2)	1.8 (1.3-4.1)	1.5 (1.0-3.3)	1.2 (0.8-2.6)	0.9 (0.6-2.1)	0.7 (0.5-1.7)
2	13 (7.3-23)	10 (5.8-19)	8.2 (4.5-15)	6.5 (3.6-12)	5.1 (2.8-9.8)	4.0 (2.2-7.7)	3.2 (1.7-6.1)	2.6 (1.4-5.0)	2.1 (1.1-4.0)	1.7 (0.9-3.2)	1.3 (0.7-2.6)
3	20 (10-31)	16 (8.0-26)	13 (6.3-21)	11 (5.0-17)	8.5 (3.9-14)	6.7 (3.1-11)	5.4 (2.4-9.0)	4.4 (2.0-7.3)	3.5 (1.6-5.9)	2.8 (1.3-4.8)	2.3 (1.0-3.9)
4	29 (14-39)	24 (11-33)	20 (9.0-28)	16 (7.2-23)	13 (5.7-19)	11 (4.5-15)	8.6 (3.6-12)	7.0 (2.9-10)	5.7 (2.3-8.3)	4.6 (1.9-6.7)	3.7 (1.5-5.4)
5	39 (20-45)	34 (16-39)	29 (13-34)	24 (11-28)	20 (8.4-23)	16 (6.7-19)	13 (5.3-16)	11 (4.3-13)	9.0 (3.5-11)	7.4 (2.8-8.8)	6.0 (2.3-7.2)
6	51	45	39	34	29	24	20	17	14	11	9.3

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	2.6	2.1	1.7	1.4	1.1	0.9	0.8	0.6	0.5	0.4	0.4
1	4.8 (3.4-11)	3.9 (2.8-8.7)	3.2 (2.3-7.2)	2.6 (1.8-5.9)	2.1 (1.5-4.8)	1.7 (1.2-3.9)	1.4 (1.0-3.3)	1.2 (0.8-2.7)	1.0 (0.7-2.3)	0.8 (0.6-1.9)	0.7 (0.5-1.6)
2	8.2 (4.6-15)	6.8 (3.7-13)	5.6 (3.1-11)	4.6 (2.5-8.7)	3.8 (2.0-7.2)	3.1 (1.7-5.9)	2.6 (1.4-4.9)	2.2 (1.2-4.1)	1.8 (1.0-3.5)	1.5 (0.8-2.9)	1.3 (0.7-2.4)
3	13 (6.4-21)	11 (5.2-18)	9.2 (4.3-15)	7.6 (3.5-13)	6.3 (2.9-11)	5.2 (2.3-8.7)	4.3 (1.9-7.3)	3.7 (1.6-6.2)	3.1 (1.4-5.2)	2.6 (1.1-4.4)	2.2 (1.0-3.7)
4	20 (9.1-28)	17 (7.6-24)	14 (6.2-20)	12 (5.1-17)	10 (4.2-14)	8.4 (3.5-12)	7.1 (2.9-10)	6.0 (2.4-8.6)	5.0 (2.0-7.3)	4.3 (1.7-6.2)	3.6 (1.4-5.2)
5	29 (13-34)	25 (11-29)	22 (9.2-25)	18 (7.6-22)	15 (6.3-18)	13 (5.2-15)	11 (4.4-13)	9.4 (3.7-11)	8.0 (3.1-9.6)	6.8 (2.6-8.2)	5.8 (2.2-6.9)
6	40	35	31	27	23	19	17	14	12	11	9.0