Romania - The probabilities of a hip fracture in men

The following tables give the 10-year probability (%) of a hip 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/m²)						
	15	20	25	30	35	40	45
0	0.4	0.2	0.1	0.1	0.1	0.1	0.0
1	0.7 (0.5-1.5)	0.4 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	1.4 (0.7-2.8)	0.8 (0.4-1.7)	0.5 (0.2-1.0)	0.4 (0.2-0.8)	0.3 (0.1-0.6)	0.2 (0.1-0.5)	0.2 (0.1-0.4)
3	2.5 (1.0-4.9)	1.5 (0.6-3.0)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.5 (0.2-1.1)	0.4 (0.2-0.8)	0.3 (0.1-0.6)
4	4.5 (1.8-7.4)	2.8 (1.1-4.6)	1.6 (0.7-2.7)	1.3 (0.5-2.1)	1.0 (0.4-1.6)	0.8 (0.3-1.3)	0.6 (0.2-1.0)
5	7.6 (3.4-9.8)	4.9 (2.2-6.4)	2.9 (1.3-3.9)	2.3 (1.0-3.0)	1.7 (0.8-2.3)	1.3 (0.6-1.8)	1.0 (0.5-1.4)
6	13	8.3	5.1	3.9	3.0	2.3	1.8

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	0.6	0.4	0.2	0.2	0.1	0.1	0.1
1	1.1 (0.8-2.1)	0.7 (0.5-1.3)	0.4 (0.3-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)
2	2.0 (1.1-3.8)	1.3 (0.7-2.4)	0.8 (0.4-1.5)	0.6 (0.3-1.1)	0.4 (0.2-0.9)	0.3 (0.2-0.7)	0.3 (0.1-0.5)
3	3.6 (1.7-6.5)	2.3 (1.0-4.2)	1.4 (0.6-2.6)	1.1 (0.5-2.0)	0.8 (0.4-1.5)	0.6 (0.3-1.2)	0.5 (0.2-0.9)
4	6.0 (2.9-9.7)	3.9 (1.8-6.4)	2.4 (1.1-3.9)	1.9 (0.8-3.0)	1.4 (0.7-2.3)	1.1 (0.5-1.8)	0.8 (0.4-1.4)
5	10 (5.1-12)	6.7 (3.4-8.6)	4.2 (2.1-5.5)	3.2 (1.7-4.2)	2.5 (1.3-3.2)	1.9 (1.0-2.5)	1.5 (0.7-1.9)
6	16	11	7.1	5.5	4.2	3.3	2.5

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	1.0	0.6	0.4	0.3	0.2	0.2	0.1
1	1.7 (1.2-2.7)	1.1 (0.8-1.7)	0.6 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)
2	2.9 (1.7-4.8)	1.9 (1.1-3.2)	1.2 (0.7-2.0)	0.9 (0.5-1.6)	0.7 (0.4-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)
3	4.8 (2.5-8.2)	3.2 (1.6-5.6)	2.0 (1.0-3.6)	1.5 (0.8-2.7)	1.2 (0.6-2.1)	0.9 (0.5-1.6)	0.7 (0.4-1.2)
4	7.8 (4.2-12)	5.4 (2.9-8.4)	3.5 (1.8-5.4)	2.7 (1.4-4.2)	2.0 (1.1-3.2)	1.6 (0.8-2.5)	1.2 (0.6-1.9)
5	12 (7.3-16)	8.8 (5.2-11)	5.8 (3.4-7.4)	4.5 (2.6-5.7)	3.4 (2.0-4.4)	2.6 (1.5-3.4)	2.0 (1.2-2.6)
6	19	14	9.5	7.4	5.7	4.4	3.4

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	1.4	0.9	0.6	0.5	0.3	0.3	0.2
1	2.4 (1.8-3.5)	1.6 (1.2-2.3)	1.0 (0.8-1.4)	0.8 (0.6-1.1)	0.6 (0.5-0.9)	0.5 (0.3-0.7)	0.3 (0.3-0.5)
2	3.9 (2.4-6.1)	2.7 (1.7-4.2)	1.7 (1.1-2.8)	1.3 (0.8-2.1)	1.0 (0.6-1.6)	0.8 (0.5-1.2)	0.6 (0.4-0.9)
3	6.3 (3.7-10)	4.4 (2.5-7.2)	2.9 (1.6-4.8)	2.2 (1.2-3.7)	1.7 (1.0-2.8)	1.3 (0.7-2.2)	1.0 (0.6-1.7)
4	9.8 (5.9-15)	7.1 (4.4-11)	4.8 (2.9-7.2)	3.7 (2.2-5.6)	2.8 (1.7-4.3)	2.2 (1.3-3.3)	1.7 (1.0-2.5)
5	15 (9.9-19)	11 (7.5-14)	7.8 (5.2-9.6)	6.0 (4.0-7.4)	4.6 (3.1-5.7)	3.5 (2.3-4.4)	2.7 (1.8-3.3)
6	22	17	12	9.6	7.4	5.7	4.4

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.0	1.4	0.9	0.7	0.5	0.4	0.3
1	3.5 (2.5-4.3)	2.5 (1.8-3.0)	1.6 (1.2-1.9)	1.2 (0.9-1.5)	0.9 (0.7-1.1)	0.7 (0.5-0.9)	0.6 (0.4-0.7)
2	5.9 (3.8-8.8)	4.3 (2.8-6.2)	2.9 (1.9-4.1)	2.2 (1.4-3.1)	1.7 (1.1-2.4)	1.3 (0.8-1.8)	1.0 (0.6-1.4)
3	9.8 (5.9-15)	7.3 (4.6-11)	5.0 (3.3-7.4)	3.8 (2.5-5.7)	2.9 (1.9-4.3)	2.2 (1.5-3.3)	1.7 (1.1-2.5)
4	15 (10-22)	12 (7.9-17)	8.6 (5.8-12)	6.6 (4.4-9.7)	5.1 (3.4-7.5)	3.9 (2.6-5.8)	3.0 (1.9-4.4)
5	23 (19-30)	19 (16-25)	14 (12-18)	11 (9.1-14)	8.6 (7.0-11)	6.6 (5.3-8.6)	5.0 (4.1-6.6)
6	34	29	23	18	14	11	8.4

FRAX® WHO Fracture Risk Assessment Tool

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	2.7	2.0	1.3	1.0	0.8	0.6	0.5
1	5.0 (3.2-8.9)	3.7 (2.5-6.6)	2.6 (1.8-4.6)	2.0 (1.3-3.5)	1.5 (1.0-2.7)	1.1 (0.8-2.1)	0.9 (0.6-1.6)
2	8.7 (4.8-15)	6.7 (3.7-12)	4.8 (2.7-8.2)	3.7 (2.0-6.3)	2.8 (1.5-4.8)	2.1 (1.2-3.7)	1.6 (0.9-2.8)
3	14 (7.2-24)	12 (5.8-19)	8.6 (4.5-14)	6.6 (3.4-11)	5.1 (2.6-8.3)	3.9 (1.9-6.4)	2.9 (1.5-4.9)
4	23 (12-33)	19 (9.9-28)	15 (7.7-22)	11 (5.9-18)	8.9 (4.5-14)	6.8 (3.4-11)	5.2 (2.6-8.2)
5	33 (20-42)	29 (17-37)	24 (13-31)	19 (10-25)	15 (7.9-20)	12 (6.0-16)	8.9 (4.6-12)
6	46	41	36	29	24	19	15

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	3.3	2.5	1.8	1.4	1.1	0.8	0.6
1	5.8 (3.8-11)	4.6 (3.1-8.4)	3.4 (2.3-6.2)	2.6 (1.8-4.8)	2.0 (1.3-3.6)	1.5 (1.0-2.8)	1.1 (0.8-2.1)
2	9.8 (5.6-17)	7.9 (4.6-14)	6.0 (3.5-11)	4.6 (2.7-8.2)	3.5 (2.0-6.3)	2.7 (1.5-4.8)	2.0 (1.1-3.7)
3	16 (8.3-25)	13 (6.9-21)	10 (5.4-17)	7.9 (4.1-13)	6.1 (3.1-10)	4.6 (2.4-7.7)	3.5 (1.8-5.8)
4	24 (12-33)	20 (10-28)	17 (8.4-24)	13 (6.4-19)	10 (4.9-15)	7.7 (3.7-11)	5.9 (2.8-8.8)
5	34 (20-42)	30 (17-38)	25 (14-33)	20 (11-26)	16 (8.3-21)	12 (6.4-17)	9.6 (4.8-13)
6	45	41	37	30	24	19	15

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	3.7	2.9	2.2	1.6	1.2	0.9	0.7
1	6.6 (4.4-12)	5.2 (3.5-9.6)	4.0 (2.7-7.3)	3.0 (2.0-5.6)	2.3 (1.5-4.2)	1.7 (1.2-3.2)	1.3 (0.9-2.4)
2	11 (6.4-19)	9.0 (5.3-16)	7.0 (4.1-12)	5.3 (3.1-9.5)	4.1 (2.3-7.3)	3.1 (1.8-5.6)	2.3 (1.3-4.2)
3	17 (9.5-27)	15 (7.8-23)	12 (6.2-19)	9.1 (4.7-15)	6.9 (3.6-11)	5.3 (2.7-8.7)	4.0 (2.0-6.6)
4	26 (14-36)	22 (12-31)	19 (9.6-27)	15 (7.3-21)	11 (5.5-17)	8.8 (4.2-13)	6.7 (3.2-10)
5	37 (22-45)	33 (19-41)	28 (16-36)	23 (12-29)	18 (9.4-24)	14 (7.2-19)	11 (5.5-15)
6	48	44	40	33	27	21	17

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	3.4	2.6	1.9	1.5	1.1	0.8	0.6
1	6.1 (4.1-11)	4.8 (3.2-8.8)	3.6 (2.4-6.6)	2.7 (1.8-5.0)	2.1 (1.4-3.8)	1.6 (1.0-2.9)	1.2 (0.8-2.2)
2	10 (6.1-18)	8.3 (4.8-15)	6.3 (3.7-11)	4.8 (2.8-8.6)	3.7 (2.1-6.6)	2.8 (1.6-5.0)	2.1 (1.2-3.8)
3	17 (9.0-26)	14 (7.4-21)	11 (5.6-17)	8.3 (4.3-13)	6.3 (3.3-10)	4.8 (2.5-8.0)	3.7 (1.9-6.1)
4	25 (13-35)	21 (11-30)	17 (8.8-25)	14 (6.7-20)	10 (5.1-15)	8.1 (3.9-12)	6.2 (2.9-9.2)
5	35 (21-44)	31 (18-39)	26 (15-34)	21 (11-27)	17 (8.7-22)	13 (6.7-17)	10 (5.1-13)
6	46	43	38	31	25	20	16