

Russia - The probabilities of a hip fracture in women

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 Russia. 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	1.0	0.6	0.3	0.2	0.2	0.1	0.1
1	2.1 (1.4-4.1)	1.2 (0.8-2.3)	0.6 (0.4-1.2)	0.5 (0.3-1.0)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.4)
2	4.1 (2.0-8.5)	2.2 (1.1-4.7)	1.2 (0.6-2.6)	0.9 (0.5-2.0)	0.7 (0.4-1.6)	0.6 (0.3-1.2)	0.4 (0.2-1.0)
3	7.5 (3.1-15)	4.2 (1.7-8.2)	2.3 (0.9-4.6)	1.8 (0.7-3.6)	1.4 (0.6-2.8)	1.1 (0.4-2.2)	0.8 (0.3-1.7)
4	13 (5.4-21)	7.6 (3.0-12)	4.2 (1.6-6.9)	3.3 (1.3-5.4)	2.6 (1.0-4.2)	2.0 (0.8-3.3)	1.6 (0.6-2.5)
5	23 (11-30)	13 (6.3-18)	7.6 (3.5-10)	5.9 (2.7-8.0)	4.6 (2.1-6.2)	3.6 (1.6-4.9)	2.8 (1.3-3.8)
6	37	23	13	10	8.1	6.3	5.0

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	0.8	0.4	0.3	0.3	0.2	0.2
1	2.9 (2.0-5.0)	1.6 (1.1-2.8)	0.9 (0.6-1.5)	0.7 (0.5-1.2)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.6)
2	5.3 (2.9-10)	3.0 (1.6-5.8)	1.6 (0.9-3.2)	1.3 (0.7-2.5)	1.0 (0.5-1.9)	0.8 (0.4-1.5)	0.6 (0.3-1.2)
3	9.5 (4.4-17)	5.4 (2.4-10)	3.0 (1.3-5.6)	2.3 (1.0-4.4)	1.8 (0.8-3.4)	1.4 (0.6-2.6)	1.1 (0.5-2.1)
4	16 (7.6-25)	9.5 (4.3-15)	5.3 (2.4-8.4)	4.2 (1.8-6.6)	3.2 (1.4-5.2)	2.5 (1.1-4.0)	2.0 (0.9-3.1)
5	27 (15-34)	16 (8.8-21)	9.3 (4.9-12)	7.3 (3.9-9.7)	5.7 (3.0-7.6)	4.5 (2.3-5.9)	3.5 (1.8-4.6)
6	42	27	16	13	9.8	7.7	6.0

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.1	1.2	0.6	0.5	0.4	0.3	0.2
1	3.8 (2.7-5.9)	2.1 (1.5-3.3)	1.2 (0.8-1.8)	0.9 (0.6-1.4)	0.7 (0.5-1.1)	0.5 (0.4-0.9)	0.4 (0.3-0.7)
2	6.7 (3.9-12)	3.8 (2.2-6.8)	2.1 (1.2-3.9)	1.7 (1.0-3.0)	1.3 (0.7-2.3)	1.0 (0.6-1.8)	0.8 (0.5-1.4)
3	11 (5.9-20)	6.7 (3.4-12)	3.8 (1.9-6.7)	2.9 (1.5-5.2)	2.3 (1.1-4.1)	1.8 (0.9-3.2)	1.4 (0.7-2.5)
4	19 (10-28)	11 (5.9-17)	6.6 (3.3-10)	5.1 (2.6-7.9)	4.0 (2.0-6.2)	3.1 (1.6-4.8)	2.4 (1.2-3.7)
5	30 (20-37)	19 (12-24)	11 (6.9-15)	8.8 (5.3-11)	6.9 (4.2-9.0)	5.4 (3.2-7.0)	4.2 (2.5-5.5)
6	46	30	19	15	12	9.1	7.1

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.2	1.8	1.0	0.8	0.6	0.5	0.4
1	5.5 (4.2-7.8)	3.2 (2.4-4.5)	1.8 (1.4-2.6)	1.4 (1.1-2.0)	1.1 (0.8-1.5)	0.8 (0.6-1.2)	0.7 (0.5-0.9)
2	9.3 (5.9-15)	5.6 (3.5-9.0)	3.2 (2.0-5.2)	2.5 (1.5-4.1)	1.9 (1.2-3.2)	1.5 (0.9-2.5)	1.1 (0.7-1.9)
3	15 (8.9-24)	9.4 (5.3-15)	5.5 (3.0-9.1)	4.2 (2.3-7.1)	3.3 (1.8-5.5)	2.6 (1.4-4.3)	2.0 (1.1-3.3)
4	24 (15-34)	15 (9.1-22)	9.2 (5.3-14)	7.2 (4.1-11)	5.6 (3.2-8.3)	4.4 (2.5-6.5)	3.4 (1.9-5.0)
5	36 (27-43)	24 (17-30)	15 (11-19)	12 (8.3-15)	9.3 (6.4-12)	7.3 (5.0-9.3)	5.7 (3.9-7.2)
6	51	37	24	19	15	12	9.4

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.3	3.2	1.8	1.4	1.1	0.8	0.7
1	9.2 (7.2-11)	5.7 (4.5-6.6)	3.3 (2.6-3.9)	2.6 (2.0-3.0)	2.0 (1.6-2.3)	1.5 (1.2-1.8)	1.2 (0.9-1.4)
2	16 (11-21)	10 (6.7-14)	6.0 (4.0-8.1)	4.7 (3.1-6.3)	3.6 (2.4-4.9)	2.8 (1.9-3.8)	2.2 (1.4-2.9)
3	26 (18-35)	17 (12-25)	11 (7.0-16)	8.3 (5.4-12)	6.5 (4.2-9.6)	5.0 (3.3-7.5)	3.9 (2.5-5.8)
4	39 (29-51)	28 (21-38)	18 (13-26)	14 (10-21)	11 (8.2-16)	8.9 (6.3-13)	6.9 (4.9-10)
5	55 (49-63)	43 (38-51)	30 (26-36)	24 (21-29)	19 (16-24)	15 (13-19)	12 (10-15)
6	68	60	46	38	31	25	20

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.9	5.1	3.1	2.4	1.9	1.4	1.1
1	14 (10-24)	9.7 (6.9-17)	6.1 (4.4-11)	4.8 (3.4-8.2)	3.7 (2.6-6.4)	2.8 (2.0-4.9)	2.2 (1.5-3.8)
2	24 (15-38)	17 (10-28)	11 (6.6-19)	9.0 (5.1-15)	7.0 (4.0-12)	5.4 (3.0-9.2)	4.2 (2.3-7.2)
3	37 (23-54)	29 (17-43)	20 (11-32)	16 (8.9-25)	13 (6.9-20)	9.9 (5.3-16)	7.7 (4.1-13)
4	52 (35-65)	44 (28-59)	33 (20-47)	27 (15-39)	22 (12-32)	17 (9.4-26)	14 (7.3-21)
5	65 (50-74)	60 (42-69)	50 (33-60)	42 (26-52)	35 (21-44)	29 (17-36)	23 (13-29)
6	76	73	67	60	52	44	36

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.8	7.1	4.8	3.7	2.8	2.2	1.6
1	17 (12-28)	13 (9.0-22)	8.8 (6.4-16)	6.8 (4.9-12)	5.3 (3.7-9.4)	4.0 (2.8-7.3)	3.1 (2.2-5.6)
2	26 (17-41)	21 (13-34)	15 (9.5-25)	12 (7.3-20)	9.4 (5.6-16)	7.3 (4.3-12)	5.6 (3.3-9.6)
3	38 (24-53)	32 (19-46)	25 (14-39)	20 (11-32)	16 (8.6-26)	13 (6.6-20)	9.7 (5.1-16)
4	50 (33-63)	45 (28-57)	38 (23-51)	31 (18-43)	26 (14-36)	20 (11-29)	16 (8.4-23)
5	62 (46-70)	58 (41-67)	52 (35-62)	45 (28-54)	38 (23-47)	31 (18-39)	25 (14-32)
6	72	70	66	59	52	44	37

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	7.6	5.5	4.2	3.2	2.4	1.9
1	17 (12-28)	13 (9.3-23)	9.9 (7.0-17)	7.7 (5.3-14)	5.9 (4.1-11)	4.5 (3.1-8.2)	3.4 (2.3-6.3)
2	26 (17-41)	22 (14-35)	17 (10-28)	13 (8.0-22)	10 (6.1-18)	7.9 (4.7-14)	6.1 (3.5-11)
3	37 (24-52)	32 (20-46)	27 (15-40)	21 (12-33)	17 (9.3-27)	13 (7.1-21)	10 (5.4-17)
4	50 (33-62)	45 (28-57)	39 (23-51)	32 (18-44)	26 (14-37)	21 (11-30)	17 (8.5-24)
5	61 (46-68)	57 (41-66)	53 (35-62)	45 (29-55)	38 (23-47)	32 (18-40)	26 (14-33)
6	69	68	65	59	52	44	37

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.8	6.1	4.6	3.5	2.7	2.0	1.5
1	13 (9.2-23)	11 (7.3-19)	8.3 (5.7-15)	6.4 (4.3-11)	4.8 (3.3-8.8)	3.7 (2.5-6.8)	2.8 (1.9-5.1)
2	21 (13-35)	18 (11-29)	14 (8.5-24)	11 (6.5-19)	8.4 (4.9-15)	6.4 (3.7-11)	4.9 (2.8-8.8)
3	31 (19-45)	27 (16-39)	22 (13-34)	18 (9.8-27)	14 (7.5-22)	11 (5.7-17)	8.3 (4.3-13)
4	43 (27-55)	38 (23-50)	33 (19-44)	27 (15-37)	22 (11-31)	17 (8.7-25)	14 (6.7-20)
5	54 (39-61)	50 (34-59)	46 (29-55)	39 (23-48)	32 (19-40)	26 (15-33)	21 (11-27)
6	62	61	58	52	45	38	31