

Kazakhstan - 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 Kazakhstan. 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	1.5	0.8	0.4	0.3	0.3	0.2	0.2
1	3.0 (2.0-5.9)	1.6 (1.1-3.2)	0.9 (0.6-1.7)	0.7 (0.5-1.4)	0.5 (0.4-1.1)	0.4 (0.3-0.8)	0.3 (0.2-0.6)
2	5.8 (2.9-12)	3.2 (1.6-6.7)	1.7 (0.9-3.7)	1.4 (0.7-2.9)	1.1 (0.5-2.2)	0.8 (0.4-1.7)	0.6 (0.3-1.4)
3	11 (4.5-20)	6.0 (2.4-12)	3.3 (1.3-6.5)	2.6 (1.0-5.0)	2.0 (0.8-3.9)	1.6 (0.6-3.1)	1.2 (0.5-2.4)
4	19 (7.7-29)	11 (4.3-17)	6.0 (2.3-9.7)	4.7 (1.8-7.6)	3.7 (1.4-6.0)	2.9 (1.1-4.7)	2.2 (0.9-3.6)
5	31 (16-40)	19 (8.9-25)	11 (4.9-14)	8.4 (3.9-11)	6.6 (3.0-8.8)	5.1 (2.3-6.9)	4.0 (1.8-5.4)
6	49	31	18	14	11	9.0	7.0

Age = 55 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	2.4	1.3	0.7	0.6	0.4	0.3	0.3
1	4.6 (3.2-8.0)	2.5 (1.7-4.4)	1.4 (0.9-2.4)	1.1 (0.7-1.9)	0.8 (0.6-1.5)	0.6 (0.4-1.1)	0.5 (0.3-0.9)
2	8.5 (4.7-16)	4.7 (2.6-9.2)	2.6 (1.4-5.1)	2.0 (1.1-4.0)	1.6 (0.9-3.1)	1.2 (0.7-2.4)	1.0 (0.5-1.9)
3	15 (7.1-27)	8.6 (3.9-16)	4.8 (2.2-8.9)	3.7 (1.7-7.0)	2.9 (1.3-5.4)	2.3 (1.0-4.3)	1.8 (0.8-3.3)
4	25 (12-37)	15 (6.9-23)	8.5 (3.8-13)	6.6 (2.9-10)	5.2 (2.3-8.2)	4.1 (1.8-6.4)	3.2 (1.4-5.0)
5	40 (24-49)	25 (14-32)	15 (7.9-19)	12 (6.2-15)	9.1 (4.8-12)	7.1 (3.8-9.4)	5.6 (2.9-7.4)
6	59	40	24	19	15	12	9.6

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

Age = 60 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	3.9	2.2	1.2	0.9	0.7	0.6	0.4
1	7.0 (5.1-11)	4.0 (2.8-6.2)	2.2 (1.6-3.4)	1.7 (1.2-2.7)	1.3 (0.9-2.1)	1.0 (0.7-1.6)	0.8 (0.6-1.3)
2	12 (7.4-21)	7.1 (4.2-13)	4.0 (2.3-7.2)	3.1 (1.8-5.6)	2.4 (1.4-4.4)	1.9 (1.1-3.4)	1.5 (0.8-2.6)
3	21 (11-34)	12 (6.3-21)	7.0 (3.5-12)	5.5 (2.8-9.7)	4.3 (2.1-7.6)	3.3 (1.7-5.9)	2.6 (1.3-4.6)
4	33 (19-46)	21 (11-30)	12 (6.2-18)	9.5 (4.8-14)	7.5 (3.8-11)	5.8 (2.9-8.9)	4.5 (2.3-7.0)
5	49 (34-58)	33 (21-41)	20 (13-26)	16 (9.9-21)	13 (7.7-16)	10.0 (6.0-13)	7.8 (4.7-10)
6	67	49	32	26	21	17	13

Age = 65 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	6.1	3.5	2.0	1.5	1.2	0.9	0.7
1	10 (7.9-14)	6.1 (4.6-8.5)	3.5 (2.6-4.8)	2.7 (2.0-3.8)	2.1 (1.6-2.9)	1.6 (1.2-2.3)	1.3 (0.9-1.8)
2	17 (11-26)	10 (6.6-17)	6.0 (3.8-9.8)	4.7 (2.9-7.7)	3.6 (2.3-6.0)	2.8 (1.8-4.7)	2.2 (1.4-3.6)
3	27 (16-41)	17 (9.9-27)	10 (5.7-17)	8.0 (4.5-13)	6.2 (3.5-10)	4.9 (2.7-8.1)	3.8 (2.1-6.3)
4	40 (27-54)	27 (17-38)	17 (9.9-24)	13 (7.7-19)	10 (6.0-15)	8.2 (4.7-12)	6.4 (3.7-9.5)
5	56 (44-64)	41 (31-49)	27 (19-33)	22 (15-27)	17 (12-21)	14 (9.4-17)	11 (7.4-13)
6	71	58	41	33	27	22	17

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

Age = 70 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	8.9	5.4	3.1	2.4	1.9	1.4	1.1
1	15 (12-18)	9.5 (7.6-11)	5.6 (4.5-6.5)	4.4 (3.5-5.1)	3.4 (2.7-4.0)	2.6 (2.1-3.1)	2.0 (1.6-2.4)
2	25 (18-34)	17 (11-22)	10 (6.8-13)	7.9 (5.3-11)	6.1 (4.1-8.2)	4.8 (3.2-6.4)	3.7 (2.4-5.0)
3	39 (29-51)	27 (19-38)	17 (12-25)	14 (9.1-20)	11 (7.1-16)	8.5 (5.5-13)	6.6 (4.3-9.8)
4	55 (44-67)	42 (32-55)	29 (22-40)	23 (17-32)	19 (14-26)	15 (11-21)	12 (8.3-17)
5	70 (64-77)	60 (54-68)	45 (40-53)	37 (33-44)	31 (26-37)	25 (21-30)	20 (17-24)
6	79	75	64	55	47	39	32

Age = 75 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	12	7.6	4.6	3.6	2.8	2.1	1.6
1	21 (15-33)	14 (10-24)	9.0 (6.5-15)	7.0 (5.0-12)	5.4 (3.9-9.3)	4.2 (3.0-7.3)	3.2 (2.3-5.6)
2	33 (21-50)	24 (15-38)	16 (9.7-27)	13 (7.5-22)	10 (5.8-17)	7.9 (4.5-13)	6.1 (3.5-10)
3	48 (32-65)	39 (25-55)	28 (16-42)	23 (13-35)	18 (10-28)	14 (7.8-23)	11 (6.0-18)
4	63 (46-75)	55 (38-70)	44 (27-60)	37 (22-51)	30 (17-43)	24 (14-36)	19 (11-29)
5	74 (61-81)	70 (54-78)	62 (44-72)	54 (36-64)	46 (29-56)	39 (24-48)	32 (19-40)
6	82	80	77	71	64	56	48

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

Age = 80 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	13	9.4	6.3	4.8	3.7	2.9	2.2
1	22 (16-36)	17 (12-28)	12 (8.4-20)	9.0 (6.4-16)	6.9 (5.0-12)	5.3 (3.8-9.5)	4.1 (2.9-7.4)
2	33 (22-50)	27 (17-42)	20 (12-32)	16 (9.6-26)	12 (7.4-21)	9.6 (5.7-16)	7.4 (4.4-13)
3	46 (31-61)	40 (25-55)	32 (18-47)	26 (14-39)	21 (11-32)	16 (8.7-26)	13 (6.7-21)
4	58 (41-70)	53 (36-66)	46 (29-59)	39 (23-51)	32 (18-44)	26 (14-36)	21 (11-30)
5	69 (55-76)	66 (50-74)	61 (43-70)	53 (36-63)	46 (29-55)	39 (23-47)	32 (18-40)
6	77	76	73	67	60	53	46

Age = 85 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	13	10	7.6	5.9	4.5	3.4	2.6
1	21 (15-35)	17 (12-29)	13 (9.5-23)	10 (7.3-18)	8.1 (5.6-14)	6.2 (4.2-11)	4.7 (3.2-8.6)
2	32 (21-48)	27 (18-43)	22 (14-36)	18 (11-29)	14 (8.3-23)	11 (6.4-18)	8.3 (4.8-14)
3	43 (29-59)	39 (25-54)	33 (20-48)	27 (16-40)	22 (12-33)	17 (9.6-27)	14 (7.4-22)
4	55 (39-67)	51 (34-64)	46 (29-59)	39 (23-51)	33 (19-44)	27 (15-37)	22 (11-30)
5	66 (52-72)	63 (47-71)	59 (42-68)	52 (35-61)	45 (29-55)	38 (23-47)	32 (18-40)
6	72	73	70	65	58	51	44

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

Age = 90 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	12	10	8.1	6.2	4.7	3.5	2.7
1	20 (14-33)	17 (12-29)	14 (9.6-24)	11 (7.4-19)	8.3 (5.6-15)	6.3 (4.2-11)	4.8 (3.2-8.8)
2	30 (20-46)	26 (17-41)	22 (14-36)	18 (11-29)	14 (8.3-24)	11 (6.3-19)	8.2 (4.8-15)
3	41 (27-56)	37 (24-52)	33 (20-47)	27 (16-40)	22 (12-33)	17 (9.4-27)	13 (7.1-21)
4	52 (36-64)	49 (32-61)	45 (28-57)	38 (23-50)	32 (18-43)	26 (14-36)	21 (11-29)
5	61 (49-68)	60 (45-68)	57 (41-65)	50 (34-59)	44 (28-53)	37 (22-46)	31 (18-39)
6	66	68	68	62	56	49	42