Kyrgyzstan - 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 Kyrgyzstan. 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	28	16	8.9	4.8	2.5	1.3	0.7	0.4	0.2	0.1	0.1
1	40 (29-50)	24 (17-31)	14 (9.3-18)	7.5 (5.0-9.9)	4.0 (2.7-5.3)	2.1 (1.4-2.8)	1.1 (0.7-1.5)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	54 (39-68)	35 (23-48)	21 (13-30)	12 (7.0-17)	6.3 (3.8-9.4)	3.4 (2.0-5.1)	1.8 (1.0-2.7)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
3	67 (52-79)	48 (33-62)	30 (19-43)	17 (11-26)	9.7 (5.7-15)	5.2 (3.0-8.2)	2.8 (1.6-4.4)	1.5 (0.8-2.4)	0.8 (0.5-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.4)
4	78 (67-86)	61 (47-74)	42 (29-56)	25 (17-37)	15 (9.3-22)	8.0 (5.0-12)	4.3 (2.7-6.7)	2.3 (1.4-3.6)	1.2 (0.8-1.9)	0.7 (0.4-1.1)	0.4 (0.2-0.6)
5	85 (80-89)	73 (64-82)	55 (45-67)	36 (28-47)	21 (16-29)	12 (8.8-17)	6.5 (4.7-9.4)	3.5 (2.5-5.1)	1.9 (1.4-2.7)	1.0 (0.7-1.5)	0.6 (0.4-0.8)
6	89	83	68	48	30	18	9.8	5.3	2.9	1.6	0.9

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Kyrgyzstan.

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	26	15	8.7	4.9	2.7	1.5	0.8	0.4	0.3	0.1	0.1
1	36 (27-44)	22 (16-28)	13 (9.1-16)	7.5 (5.1-9.3)	4.2 (2.8-5.2)	2.3 (1.6-2.9)	1.3 (0.9-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	49 (36-61)	32 (22-42)	19 (13-27)	11 (7.2-16)	6.4 (4.0-9.1)	3.6 (2.2-5.1)	2.0 (1.2-2.8)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
3	61 (48-73)	43 (31-55)	28 (19-38)	17 (11-24)	9.6 (6.0-14)	5.4 (3.3-8.1)	3.0 (1.8-4.6)	1.7 (1.0-2.5)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.5)
4	72 (62-80)	56 (44-68)	38 (28-50)	24 (17-34)	14 (9.7-21)	8.1 (5.4-12)	4.6 (3.0-6.9)	2.5 (1.7-3.8)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.5 (0.3-0.7)
5	80 (75-85)	67 (60-76)	50 (42-61)	33 (27-43)	21 (16-28)	12 (9.3-17)	6.8 (5.3-9.6)	3.8 (2.9-5.4)	2.2 (1.7-3.1)	1.2 (0.9-1.8)	0.7 (0.5-1.0)
6	85	77	62	45	29	17	10	5.7	3.2	1.9	1.1

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	21	13	8.0	4.7	2.8	1.6	1.0	0.6	0.3	0.2	0.1
1	30 (22-35)	19 (14-22)	12 (8.3-14)	7.1 (5.0-8.4)	4.2 (2.9-5.0)	2.5 (1.7-2.9)	1.4 (1.0-1.7)	0.8 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
2	40 (30-49)	27 (19-34)	17 (12-22)	10 (7.0-14)	6.3 (4.1-8.5)	3.7 (2.4-5.1)	2.2 (1.4-3.0)	1.3 (0.8-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.4)
3	51 (41-61)	36 (27-46)	24 (17-32)	15 (10-20)	9.2 (6.2-13)	5.5 (3.7-7.8)	3.3 (2.2-4.6)	1.9 (1.3-2.8)	1.2 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
4	61 (53-70)	47 (38-57)	33 (25-42)	21 (16-29)	13 (9.7-19)	8.1 (5.8-12)	4.8 (3.4-7.0)	2.9 (2.0-4.2)	1.7 (1.2-2.5)	1.1 (0.7-1.6)	0.6 (0.4-0.9)
5	70 (65-76)	57 (51-66)	43 (37-52)	29 (25-37)	19 (16-25)	12 (9.6-16)	7.1 (5.8-9.7)	4.2 (3.4-5.9)	2.6 (2.1-3.6)	1.6 (1.3-2.2)	1.0 (0.8-1.3)
6	77	67	53	39	26	17	10	6.1	3.8	2.3	1.4

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Kyrgyzstan.

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	11	7.3	4.6	2.9	1.8	1.1	0.7	0.4	0.3	0.2
1	24 (18-27)	16 (12-18)	10 (7.7-12)	6.7 (4.8-7.6)	4.2 (3.0-4.8)	2.6 (1.9-3.0)	1.6 (1.2-1.9)	1.0 (0.7-1.2)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
2	32 (25-38)	22 (16-27)	15 (11-19)	9.6 (6.8-12)	6.1 (4.3-7.9)	3.9 (2.7-5.0)	2.4 (1.7-3.1)	1.5 (1.0-2.0)	1.0 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
3	41 (33-50)	30 (23-37)	20 (15-26)	14 (10-18)	8.8 (6.4-12)	5.6 (4.0-7.5)	3.5 (2.5-4.7)	2.2 (1.6-3.0)	1.4 (1.0-1.9)	0.9 (0.7-1.2)	0.6 (0.4-0.8)
4	50 (44-59)	38 (32-47)	27 (22-34)	19 (15-24)	12 (9.6-16)	8.0 (6.1-11)	5.1 (3.9-7.0)	3.2 (2.4-4.5)	2.1 (1.6-2.9)	1.4 (1.0-1.9)	0.9 (0.7-1.2)
5	59 (55-66)	47 (43-55)	36 (32-43)	25 (22-32)	17 (15-22)	11 (9.7-15)	7.2 (6.2-9.7)	4.6 (4.0-6.3)	3.0 (2.6-4.1)	2.0 (1.7-2.7)	1.3 (1.1-1.7)
6	67	56	45	33	23	16	10	6.6	4.3	2.8	1.8

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	14	9.7	6.6	4.4	2.9	1.9	1.3	0.9	0.6	0.4	0.3
1	21 (19-27)	15 (13-19)	10 (9.1-13)	6.9 (6.2-9.1)	4.7 (4.1-6.1)	3.1 (2.7-4.1)	2.1 (1.8-2.7)	1.4 (1.2-1.8)	0.9 (0.8-1.2)	0.6 (0.6-0.8)	0.4 (0.4-0.6)
2	30 (25-37)	22 (18-27)	16 (13-20)	11 (8.7-14)	7.3 (5.9-9.6)	4.9 (4.0-6.5)	3.3 (2.6-4.3)	2.2 (1.8-3.0)	1.5 (1.2-2.0)	1.0 (0.8-1.4)	0.7 (0.6-0.9)
3	41 (34-48)	31 (25-37)	23 (18-28)	16 (13-20)	11 (8.8-14)	7.7 (6.0-9.8)	5.2 (4.0-6.6)	3.5 (2.7-4.5)	2.4 (1.9-3.1)	1.7 (1.3-2.1)	1.1 (0.9-1.5)
4	52 (44-58)	42 (34-48)	32 (26-38)	24 (19-28)	17 (13-20)	12 (9.0-14)	8.1 (6.1-9.8)	5.6 (4.2-6.8)	3.9 (2.9-4.7)	2.6 (2.0-3.2)	1.8 (1.3-2.2)
5	62 (54-66)	53 (45-57)	43 (35-47)	33 (26-36)	25 (19-27)	18 (13-19)	12 (9.3-14)	8.6 (6.5-9.5)	6.0 (4.5-6.7)	4.2 (3.1-4.6)	2.9 (2.1-3.2)
6	70	63	53	44	34	25	18	13	9.3	6.5	4.5

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Kyrgyzstan.

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	11	8.2	5.8	4.1	2.9	2.0	1.4	1.0	0.7	0.5	0.4
1	19 (15-37)	14 (11-29)	11 (7.9-22)	7.7 (5.7-16)	5.5 (4.0-12)	3.9 (2.9-8.5)	2.7 (2.0-6.0)	2.0 (1.5-4.4)	1.4 (1.1-3.2)	1.0 (0.8-2.3)	0.7 (0.5-1.7)
2	29 (20-47)	23 (15-38)	17 (11-30)	13 (7.9-23)	9.5 (5.6-17)	6.9 (4.0-13)	4.9 (2.8-9.2)	3.6 (2.1-6.7)	2.6 (1.5-4.9)	1.9 (1.1-3.6)	1.4 (0.8-2.6)
3	41 (26-56)	33 (20-48)	27 (15-39)	21 (11-31)	15 (7.9-24)	11 (5.7-18)	8.3 (4.0-13)	6.1 (2.9-10.0)	4.5 (2.1-7.4)	3.3 (1.5-5.4)	2.4 (1.1-4.0)
4	53 (34-64)	45 (27-56)	38 (20-48)	30 (15-39)	24 (11-31)	18 (8.3-24)	13 (6.0-18)	10 (4.4-14)	7.5 (3.2-10)	5.5 (2.3-7.6)	4.1 (1.7-5.6)
5	64 (43-70)	57 (36-64)	50 (28-56)	42 (22-48)	34 (16-39)	27 (12-31)	21 (8.8-24)	16 (6.5-19)	12 (4.8-14)	9.0 (3.5-11)	6.6 (2.6-7.8)
6	73	68	61	54	46	38	30	24	18	14	11

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	9.2	6.9	5.2	3.9	2.9	2.2	1.6	1.2	0.9	0.7	0.5
1	15 (12-31)	12 (8.9-25)	9.3 (6.8-20)	7.1 (5.1-15)	5.3 (3.8-12)	4.0 (2.8-8.8)	3.0 (2.1-6.7)	2.3 (1.6-5.2)	1.8 (1.2-4.0)	1.3 (0.9-3.0)	1.0 (0.7-2.3)
2	24 (15-40)	19 (11-33)	15 (8.8-27)	12 (6.7-22)	9.0 (5.0-17)	6.9 (3.8-13)	5.2 (2.8-9.9)	4.0 (2.2-7.7)	3.1 (1.7-6.0)	2.4 (1.3-4.6)	1.8 (1.0-3.5)
3	34 (20-49)	28 (16-42)	23 (12-35)	18 (9.2-29)	14 (7.0-23)	11 (5.3-18)	8.6 (4.0-14)	6.7 (3.1-11)	5.2 (2.4-8.8)	4.0 (1.8-6.8)	3.1 (1.4-5.3)
4	45 (26-56)	38 (21-50)	32 (16-43)	27 (13-36)	22 (9.8-30)	17 (7.5-24)	13 (5.7-19)	11 (4.4-15)	8.4 (3.4-12)	6.5 (2.7-9.4)	5.1 (2.0-7.4)
5	56 (35-62)	50 (28-56)	43 (23-49)	37 (18-43)	31 (14-36)	25 (11-29)	20 (8.5-24)	16 (6.6-19)	13 (5.2-15)	10 (4.0-12)	8.0 (3.1-9.6)
6	66	61	55	48	41	35	29	24	19	15	12

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Kyrgyzstan.

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	7.4	5.9	4.6	3.6	2.9	2.2	1.8	1.4	1.1	0.9	0.7
1	13 (9.3-26)	10 (7.4-21)	8.2 (5.9-17)	6.5 (4.7-14)	5.2 (3.7-11)	4.1 (2.9-9.1)	3.3 (2.3-7.3)	2.7 (1.9-6.0)	2.1 (1.5-4.8)	1.7 (1.2-3.9)	1.4 (1.0-3.2)
2	20 (12-34)	16 (9.5-29)	13 (7.6-24)	11 (6.0-20)	8.7 (4.8-16)	7.0 (3.8-13)	5.6 (3.0-11)	4.6 (2.4-8.8)	3.7 (2.0-7.2)	3.0 (1.6-5.9)	2.4 (1.3-4.7)
3	29 (16-42)	24 (13-37)	20 (10-31)	17 (8.4-26)	14 (6.7-22)	11 (5.3-18)	9.1 (4.2-15)	7.5 (3.4-12)	6.1 (2.8-10)	5.0 (2.2-8.4)	4.1 (1.8-6.8)
4	39 (21-50)	34 (17-45)	29 (14-39)	25 (12-33)	20 (9.2-28)	17 (7.4-24)	14 (5.9-20)	12 (4.9-17)	9.6 (3.9-14)	7.9 (3.2-11)	6.5 (2.6-9.4)
5	50 (29-56)	45 (24-51)	39 (20-45)	34 (17-40)	29 (13-34)	25 (11-29)	21 (8.8-25)	17 (7.2-21)	15 (5.9-17)	12 (4.8-15)	10 (3.9-12)
6	60	56	50	45	39	34	29	25	21	18	15

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	6.2	5.1	4.2	3.5	2.8	2.3	2.0	1.7	1.4	1.2	1.0
1	11 (7.7-22)	8.9 (6.4-19)	7.5 (5.3-16)	6.2 (4.4-14)	5.2 (3.6-11)	4.3 (3.0-9.5)	3.6 (2.5-8.1)	3.1 (2.1-6.9)	2.6 (1.8-5.8)	2.2 (1.5-5.0)	1.9 (1.3-4.2)
2	17 (9.9-30)	14 (8.3-26)	12 (6.9-22)	10 (5.7-19)	8.6 (4.7-16)	7.2 (3.9-14)	6.1 (3.3-12)	5.2 (2.8-10)	4.5 (2.4-8.7)	3.8 (2.0-7.4)	3.2 (1.7-6.3)
3	25 (13-37)	22 (11-33)	19 (9.5-29)	16 (7.9-25)	14 (6.6-22)	11 (5.5-18)	9.8 (4.6-16)	8.5 (3.9-14)	7.3 (3.3-12)	6.2 (2.8-10)	5.3 (2.4-8.8)
4	34 (18-45)	31 (15-41)	27 (13-36)	23 (11-32)	20 (9.1-28)	17 (7.6-24)	15 (6.4-21)	13 (5.5-19)	11 (4.7-16)	9.8 (4.0-14)	8.4 (3.4-12)
5	45 (25-51)	41 (21-47)	37 (18-42)	33 (16-38)	29 (13-34)	25 (11-30)	22 (9.5-26)	19 (8.1-23)	17 (7.0-20)	15 (5.9-18)	13 (5.1-15)
6	55	52	47	43	39	34	31	27	24	21	19