Hungary - The probabilities of a hip fracture in women

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 Hungary. 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	13	6.8	3.5	1.8	0.9	0.5	0.2	0.1	0.1	0.0	0.0
1	20 (13-25)	11 (7.1-14)	5.6 (3.7-7.4)	2.9 (1.9-3.8)	1.5 (1.0-2.0)	0.8 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	30 (19-42)	17 (10-24)	8.9 (5.2-13)	4.6 (2.7-7.0)	2.4 (1.4-3.7)	1.2 (0.7-1.9)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	42 (27-60)	25 (15-38)	14 (7.9-22)	7.3 (4.1-12)	3.8 (2.1-6.2)	1.9 (1.1-3.2)	1.0 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	57 (42-74)	36 (24-51)	21 (13-31)	11 (6.9-17)	5.9 (3.6-9.3)	3.1 (1.9-4.9)	1.6 (1.0-2.5)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
5	72 (62-84)	50 (40-63)	30 (23-41)	17 (13-24)	9.0 (6.6-13)	4.7 (3.4-6.8)	2.4 (1.8-3.6)	1.3 (0.9-1.9)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.1-0.3)
6	85	65	42	25	14	7.2	3.7	2.0	1.0	0.6	0.3

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

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	15	8.1	4.4	2.4	1.3	0.7	0.4	0.2	0.1	0.1	0.0
1	22 (15-27)	13 (8.5-15)	7.0 (4.7-8.6)	3.8 (2.5-4.7)	2.1 (1.4-2.6)	1.1 (0.7-1.4)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	32 (21-43)	19 (12-27)	11 (6.6-15)	5.9 (3.6-8.6)	3.2 (1.9-4.7)	1.7 (1.0-2.6)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	45 (30-61)	28 (18-40)	16 (9.9-25)	9.1 (5.4-14)	5.0 (2.9-7.9)	2.7 (1.6-4.3)	1.5 (0.9-2.3)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
4	59 (45-75)	39 (28-54)	24 (16-35)	14 (9.1-21)	7.7 (5.0-12)	4.2 (2.7-6.5)	2.3 (1.5-3.6)	1.3 (0.8-2.0)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.4)
5	73 (66-84)	53 (45-66)	34 (28-45)	20 (16-28)	12 (9.1-16)	6.4 (5.0-9.1)	3.5 (2.7-5.0)	2.0 (1.5-2.8)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.3 (0.3-0.5)
6	85	68	47	29	17	9.6	5.3	3.0	1.7	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	14	8.3	4.7	2.7	1.5	0.8	0.5	0.3	0.2	0.1	0.1
1	21 (15-25)	13 (8.8-15)	7.3 (5.0-8.6)	4.1 (2.8-4.9)	2.3 (1.6-2.8)	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)	0.1 (0.1-0.1)
2	31 (21-40)	19 (12-25)	11 (7.0-15)	6.3 (4.0-8.7)	3.6 (2.2-5.0)	2.0 (1.3-2.8)	1.2 (0.7-1.6)	0.7 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	43 (30-56)	27 (18-38)	16 (11-24)	9.6 (6.0-14)	5.5 (3.4-8.2)	3.1 (1.9-4.7)	1.8 (1.1-2.7)	1.0 (0.6-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	56 (44-70)	38 (28-51)	24 (17-34)	14 (10-21)	8.2 (5.7-12)	4.7 (3.2-7.1)	2.7 (1.8-4.1)	1.6 (1.1-2.4)	0.9 (0.6-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
5	69 (64-80)	51 (45-63)	33 (29-44)	21 (17-28)	12 (10-17)	7.0 (5.8-9.9)	4.1 (3.3-5.8)	2.4 (1.9-3.4)	1.4 (1.1-2.0)	0.8 (0.7-1.1)	0.5 (0.4-0.7)
6	81	65	46	29	18	10	6.0	3.6	2.1	1.2	0.7

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

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	14	8.1	4.8	2.8	1.7	1.0	0.6	0.4	0.2	0.1	0.1
1	20 (14-23)	12 (8.5-14)	7.2 (5.1-8.6)	4.3 (3.0-5.1)	2.5 (1.7-3.0)	1.5 (1.0-1.8)	0.9 (0.6-1.1)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	28 (20-35)	18 (12-23)	11 (7.1-14)	6.4 (4.2-8.4)	3.8 (2.5-5.0)	2.2 (1.4-2.9)	1.3 (0.9-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	38 (28-50)	25 (18-34)	16 (11-22)	9.5 (6.3-13)	5.7 (3.7-8.1)	3.3 (2.2-4.8)	2.0 (1.3-2.9)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.3 (0.2-0.4)
4	51 (42-63)	35 (27-46)	22 (17-31)	14 (10-20)	8.4 (6.2-12)	5.0 (3.6-7.2)	3.0 (2.2-4.4)	1.8 (1.3-2.7)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
5	63 (58-73)	46 (41-57)	31 (27-40)	20 (17-27)	12 (10-17)	7.3 (6.0-10)	4.5 (3.7-6.2)	2.7 (2.2-3.8)	1.7 (1.4-2.3)	1.0 (0.8-1.4)	0.6 (0.5-0.9)
6	75	59	42	28	17	11	6.6	4.0	2.4	1.5	0.9

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	15	9.3	5.7	3.5	2.2	1.3	0.8	0.5	0.3	0.2	0.1
1	23 (20-28)	15 (13-19)	9.4 (8.0-12)	5.8 (5.0-7.4)	3.6 (3.0-4.6)	2.2 (1.9-2.8)	1.4 (1.2-1.8)	0.9 (0.8-1.1)	0.6 (0.5-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
2	34 (29-43)	23 (19-30)	15 (12-20)	9.5 (7.5-13)	5.9 (4.6-8.0)	3.7 (2.9-5.0)	2.3 (1.8-3.2)	1.5 (1.1-2.0)	0.9 (0.7-1.3)	0.6 (0.5-0.8)	0.4 (0.3-0.5)
3	48 (40-56)	35 (27-42)	23 (18-29)	15 (11-19)	9.5 (7.0-12)	6.0 (4.4-7.9)	3.9 (2.8-5.1)	2.5 (1.8-3.3)	1.6 (1.1-2.1)	1.0 (0.7-1.3)	0.6 (0.4-0.8)
4	63 (54-69)	48 (39-54)	35 (27-40)	23 (18-28)	15 (11-18)	9.7 (7.1-12)	6.3 (4.6-7.8)	4.0 (2.9-5.0)	2.6 (1.8-3.2)	1.6 (1.2-2.0)	1.0 (0.7-1.3)
5	75 (68-77)	63 (55-66)	48 (40-52)	35 (28-38)	23 (19-26)	15 (12-17)	10 (7.9-12)	6.5 (5.1-7.5)	4.2 (3.2-4.8)	2.7 (2.1-3.1)	1.7 (1.3-2.0)
6	82	75	63	48	35	24	16	10	6.8	4.4	2.8

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

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	19	13	8.4	5.5	3.5	2.3	1.5	1.0	0.7	0.5	0.3
1	31 (26-55)	22 (17-42)	15 (12-31)	10 (7.6-21)	6.8 (5.0-14)	4.6 (3.3-9.7)	3.1 (2.2-6.6)	2.0 (1.5-4.4)	1.4 (1.0-2.9)	0.9 (0.6-1.9)	0.6 (0.4-1.3)
2	46 (34-66)	35 (24-56)	26 (16-44)	18 (11-32)	12 (7.0-23)	8.4 (4.7-16)	5.7 (3.1-11)	3.8 (2.1-7.5)	2.6 (1.4-5.0)	1.7 (0.9-3.4)	1.1 (0.6-2.2)
3	60 (44-75)	50 (33-66)	39 (23-56)	29 (16-43)	20 (10-32)	14 (7.0-23)	10 (4.7-16)	6.8 (3.1-11)	4.6 (2.1-7.7)	3.1 (1.4-5.2)	2.1 (0.9-3.5)
4	71 (55-80)	63 (44-74)	53 (32-65)	42 (23-53)	32 (16-42)	23 (11-32)	17 (7.3-23)	12 (4.9-16)	8.0 (3.3-11)	5.4 (2.2-7.8)	3.6 (1.5-5.3)
5	79 (65-84)	74 (55-79)	66 (44-72)	57 (33-63)	46 (24-51)	36 (17-41)	26 (12-31)	19 (8.1-22)	13 (5.5-16)	9.1 (3.7-11)	6.2 (2.5-7.4)
6	85	81	76	69	60	50	39	30	21	15	10

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	21	15	10	7.0	4.8	3.4	2.4	1.7	1.2	0.8	0.6
1	33 (26-56)	25 (19-46)	18 (13-35)	13 (9.1-26)	9.1 (6.3-19)	6.5 (4.5-14)	4.6 (3.1-9.9)	3.2 (2.2-7.0)	2.3 (1.5-5.0)	1.6 (1.1-3.5)	1.1 (0.7-2.4)
2	46 (34-67)	37 (25-57)	28 (18-47)	21 (13-37)	16 (8.8-28)	11 (6.3-21)	8.2 (4.4-16)	5.9 (3.1-11)	4.1 (2.2-8.2)	2.9 (1.5-5.8)	2.0 (1.1-4.1)
3	59 (42-74)	50 (33-67)	41 (25-58)	32 (18-48)	25 (13-38)	19 (9.2-30)	14 (6.6-23)	10 (4.7-17)	7.2 (3.3-12)	5.1 (2.3-8.7)	3.6 (1.6-6.1)
4	69 (52-79)	62 (43-73)	54 (34-66)	45 (25-57)	36 (19-48)	29 (14-38)	22 (9.8-30)	16 (7.0-23)	12 (5.0-17)	8.6 (3.5-13)	6.1 (2.5-9.1)
5	77 (62-82)	72 (53-78)	66 (44-72)	58 (35-64)	49 (27-56)	41 (20-47)	33 (15-38)	25 (11-30)	19 (7.9-23)	14 (5.7-17)	10 (4.0-13)
6	83	80	75	69	62	54	45	37	29	22	16

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

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	17	12	9.0	6.5	4.8	3.6	2.6	1.9	1.4	1.0	0.8
1	27 (21-49)	21 (16-40)	16 (12-32)	12 (8.4-24)	8.9 (6.3-19)	6.7 (4.7-14)	5.0 (3.5-11)	3.7 (2.6-8.1)	2.8 (1.9-6.1)	2.0 (1.4-4.5)	1.5 (1.0-3.3)
2	39 (27-60)	32 (21-51)	25 (16-42)	19 (12-34)	15 (8.8-27)	12 (6.6-21)	8.8 (4.9-17)	6.6 (3.6-13)	5.0 (2.7-9.6)	3.7 (2.0-7.2)	2.7 (1.4-5.4)
3	52 (35-68)	44 (28-61)	37 (21-53)	29 (16-45)	24 (12-37)	19 (9.3-30)	15 (7.0-24)	11 (5.2-18)	8.4 (3.9-14)	6.3 (2.9-11)	4.7 (2.1-8.0)
4	63 (45-74)	57 (37-69)	49 (29-62)	42 (23-54)	35 (18-46)	28 (14-38)	23 (10-31)	18 (7.8-25)	14 (5.9-19)	10 (4.4-15)	7.9 (3.2-11)
5	73 (55-78)	68 (47-73)	62 (39-68)	54 (31-61)	47 (25-53)	40 (20-46)	33 (15-39)	27 (12-32)	21 (9.0-26)	17 (6.8-20)	13 (5.1-16)
6	79	76	72	66	60	53	46	38	31	25	20

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	10	7.9	6.0	4.6	3.6	2.8	2.2	1.7	1.3	1.0	0.8
1	18 (13-35)	14 (10-28)	11 (7.8-22)	8.4 (6.0-18)	6.7 (4.7-14)	5.3 (3.7-11)	4.1 (2.9-9.1)	3.2 (2.2-7.2)	2.5 (1.7-5.6)	2.0 (1.4-4.4)	1.5 (1.1-3.4)
2	27 (17-45)	22 (14-38)	18 (11-31)	14 (8.2-25)	11 (6.5-21)	9.1 (5.1-17)	7.3 (4.0-14)	5.7 (3.2-11)	4.5 (2.5-8.6)	3.5 (1.9-6.8)	2.8 (1.5-5.4)
3	39 (23-55)	33 (18-48)	27 (14-41)	22 (11-34)	18 (9.0-29)	15 (7.2-24)	12 (5.7-20)	9.6 (4.5-16)	7.6 (3.5-13)	6.0 (2.7-10)	4.8 (2.1-8.0)
4	51 (31-63)	45 (26-57)	38 (20-50)	32 (16-43)	27 (13-37)	23 (11-31)	19 (8.5-26)	15 (6.7-21)	12 (5.3-17)	9.9 (4.1-14)	7.8 (3.2-11)
5	62 (41-68)	57 (35-63)	51 (28-57)	44 (23-50)	39 (19-44)	33 (15-38)	28 (12-33)	23 (10-28)	19 (8.0-23)	16 (6.3-19)	12 (5.0-15)
6	71	67	63	57	51	45	39	34	28	23	19