

Hungary - The probabilities of a major osteoporotic fracture in women

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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	17	11	7.2	5.2	4.0	3.3	2.7	2.5	2.4	2.2	2.2
1	26 (22-32)	16 (14-21)	11 (9.4-14)	7.9 (6.3-10)	6.1 (4.5-7.6)	4.9 (3.5-6.4)	4.1 (2.8-5.5)	3.7 (2.5-5.1)	3.5 (2.3-4.9)	3.4 (2.2-4.7)	3.2 (2.1-4.5)
2	37 (29-50)	24 (19-34)	17 (13-23)	12 (8.4-17)	9.1 (5.8-14)	7.3 (4.3-12)	6.1 (3.4-10)	5.5 (3.0-9.4)	5.2 (2.7-9.0)	5.0 (2.6-8.6)	4.8 (2.4-8.3)
3	51 (38-65)	35 (26-45)	24 (17-33)	17 (11-26)	13 (7.7-22)	11 (5.7-18)	8.9 (4.5-16)	8.0 (3.9-15)	7.5 (3.5-14)	7.2 (3.3-14)	6.9 (3.1-13)
4	65 (49-77)	48 (34-58)	34 (23-42)	25 (17-33)	19 (13-27)	15 (9.5-23)	13 (7.4-20)	11 (6.3-19)	11 (5.7-18)	10 (5.3-17)	9.8 (5.1-17)
5	79 (70-86)	62 (51-69)	46 (36-51)	34 (27-40)	26 (20-33)	21 (16-28)	18 (13-24)	16 (12-22)	15 (11-21)	14 (9.8-20)	14 (9.3-19)
6	89	76	59	45	35	29	24	22	20	19	19

Ten year probability of osteoporotic 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	21	14	10	7.5	5.9	4.8	4.0	3.7	3.4	3.2	3.1
1	30 (27-36)	21 (19-25)	15 (13-18)	11 (8.8-13)	8.7 (6.5-11)	7.1 (5.0-9.2)	6.0 (4.1-8.0)	5.5 (3.6-7.5)	5.1 (3.3-7.1)	4.8 (3.1-6.7)	4.6 (2.9-6.4)
2	42 (35-54)	30 (25-39)	22 (17-29)	16 (12-23)	13 (8.3-19)	10 (6.3-16)	8.7 (5.0-14)	8.0 (4.4-13)	7.4 (4.0-13)	7.0 (3.7-12)	6.7 (3.5-11)
3	56 (45-67)	41 (32-52)	31 (22-42)	23 (15-35)	18 (11-29)	15 (8.3-25)	12 (6.5-22)	11 (5.7-21)	11 (5.2-20)	10 (4.8-19)	9.5 (4.5-18)
4	70 (56-79)	55 (41-62)	42 (30-51)	32 (23-43)	25 (18-36)	21 (14-31)	17 (11-27)	16 (9.2-26)	15 (8.3-24)	14 (7.6-23)	13 (7.2-22)
5	82 (75-87)	68 (60-73)	54 (46-60)	43 (35-50)	34 (28-43)	28 (23-37)	24 (19-32)	22 (16-30)	20 (15-28)	19 (14-27)	18 (13-26)
6	90	80	67	55	45	38	32	29	27	26	25

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	22	16	11	8.7	6.9	5.6	4.8	4.4	4.0	3.7	3.5
1	32 (29-36)	23 (20-26)	17 (14-20)	13 (10-15)	10 (7.5-13)	8.2 (5.9-11)	7.0 (4.9-9.5)	6.4 (4.3-8.8)	5.9 (3.9-8.2)	5.5 (3.6-7.7)	5.1 (3.3-7.3)
2	43 (37-54)	32 (27-41)	24 (19-31)	18 (13-25)	15 (9.6-21)	12 (7.3-18)	10 (6.0-16)	9.3 (5.2-15)	8.5 (4.7-14)	7.9 (4.3-13)	7.4 (3.9-12)
3	57 (47-66)	43 (35-55)	33 (25-45)	26 (17-38)	21 (13-32)	17 (9.6-28)	14 (7.8-25)	13 (6.8-23)	12 (6.0-22)	11 (5.5-20)	11 (5.1-19)
4	70 (58-76)	56 (44-65)	44 (33-55)	35 (26-46)	28 (20-40)	23 (16-34)	20 (12-31)	18 (11-29)	17 (9.6-27)	16 (8.8-26)	15 (8.1-24)
5	80 (75-84)	69 (62-74)	56 (49-63)	46 (39-54)	37 (31-46)	31 (26-40)	27 (21-36)	25 (18-33)	23 (16-31)	21 (15-29)	20 (14-28)
6	88	80	69	58	48	41	35	32	30	28	27

Ten year probability of osteoporotic 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	22	16	12	8.8	6.9	5.5	4.8	4.3	3.9	3.6	3.3
1	30 (28-34)	22 (20-25)	17 (14-19)	13 (10-15)	10 (7.6-13)	8.1 (5.8-11)	7.0 (4.9-9.5)	6.3 (4.3-8.7)	5.7 (3.8-8.0)	5.2 (3.4-7.4)	4.8 (3.1-6.8)
2	41 (36-50)	31 (26-38)	24 (18-30)	18 (13-25)	14 (9.7-20)	12 (7.4-17)	10 (6.1-16)	9.0 (5.2-14)	8.2 (4.6-13)	7.5 (4.1-12)	6.9 (3.7-11)
3	53 (45-62)	42 (34-52)	32 (24-44)	25 (18-36)	20 (13-31)	16 (9.7-26)	14 (8.0-24)	13 (6.8-22)	12 (6.0-20)	11 (5.3-19)	9.8 (4.8-18)
4	65 (55-72)	53 (43-62)	42 (33-53)	34 (26-45)	27 (20-38)	22 (15-33)	19 (13-30)	17 (11-27)	16 (9.4-25)	15 (8.4-24)	13 (7.6-22)
5	76 (71-80)	65 (59-71)	54 (48-61)	44 (38-52)	36 (31-44)	30 (25-38)	26 (21-34)	23 (18-32)	21 (16-29)	20 (14-27)	18 (13-26)
6	84	75	65	55	46	38	34	31	28	26	24

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	23	17	13	9.7	7.5	6.1	5.3	4.6	4.1	3.7	3.3
1	33 (29-39)	25 (21-29)	18 (15-22)	14 (11-16)	11 (8.3-13)	8.6 (6.5-10)	7.3 (5.4-8.5)	6.4 (4.6-7.5)	5.6 (4.0-6.7)	5.1 (3.5-6.0)	4.6 (3.2-5.5)
2	45 (37-54)	34 (28-43)	26 (20-33)	20 (15-25)	15 (11-20)	12 (8.3-16)	10 (6.8-14)	8.8 (5.7-12)	7.7 (4.9-11)	6.9 (4.3-9.4)	6.2 (3.8-8.5)
3	58 (48-68)	46 (36-57)	36 (26-46)	27 (19-37)	21 (14-29)	17 (11-24)	14 (8.9-21)	12 (7.4-18)	10 (6.4-16)	9.3 (5.5-15)	8.3 (4.9-13)
4	70 (62-77)	59 (49-67)	47 (38-56)	37 (29-46)	29 (22-37)	23 (17-31)	19 (14-26)	16 (12-23)	14 (9.9-21)	12 (8.6-18)	11 (7.6-17)
5	79 (74-83)	71 (64-76)	60 (52-66)	49 (42-55)	38 (32-45)	31 (26-37)	26 (21-32)	22 (18-28)	19 (16-24)	16 (14-22)	15 (12-20)
6	85	79	71	61	50	41	34	29	25	21	19

Ten year probability of osteoporotic 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	29	22	17	13	10	8.3	7.1	6.1	5.3	4.7	4.2
1	41 (34-60)	32 (26-48)	25 (19-37)	19 (15-28)	15 (11-21)	12 (8.8-16)	9.9 (7.2-12)	8.3 (6.1-9.9)	7.2 (5.2-8.3)	6.2 (4.5-7.3)	5.5 (3.9-6.6)
2	54 (42-70)	44 (33-61)	35 (25-50)	28 (19-40)	21 (14-31)	17 (11-24)	14 (9.2-19)	11 (7.6-15)	9.7 (6.4-13)	8.3 (5.5-11)	7.2 (4.8-9.9)
3	66 (52-77)	57 (42-70)	48 (33-61)	38 (25-51)	30 (19-41)	24 (15-33)	19 (12-27)	16 (10-22)	13 (8.4-18)	11 (7.1-16)	9.5 (6.2-13)
4	75 (62-82)	68 (53-77)	60 (43-70)	51 (34-61)	41 (27-51)	33 (22-42)	27 (18-34)	22 (15-28)	18 (13-24)	15 (11-20)	13 (9.3-17)
5	81 (70-85)	76 (63-81)	70 (54-76)	63 (45-69)	53 (37-60)	45 (31-51)	37 (26-43)	30 (22-36)	24 (19-30)	20 (16-25)	17 (14-21)
6	86	83	78	73	65	57	48	40	33	27	22

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	32	25	20	16	13	11	9.0	7.7	6.6	5.8	5.0
1	43 (35-61)	35 (28-52)	28 (22-42)	22 (17-33)	18 (13-26)	15 (11-21)	12 (9.1-17)	10 (7.6-13)	8.9 (6.4-11)	7.7 (5.5-8.9)	6.6 (4.7-7.6)
2	54 (43-70)	46 (35-62)	38 (28-53)	31 (22-44)	25 (17-36)	21 (14-30)	17 (12-24)	14 (9.6-20)	12 (8.0-16)	10 (6.8-13)	8.8 (5.8-11)
3	64 (52-76)	57 (44-70)	50 (36-63)	41 (29-54)	34 (23-46)	29 (19-38)	24 (15-32)	20 (13-27)	16 (11-22)	14 (8.9-19)	12 (7.6-16)
4	73 (60-80)	67 (53-76)	60 (44-70)	52 (37-63)	45 (30-54)	38 (25-47)	32 (21-40)	27 (18-34)	22 (15-28)	18 (13-24)	15 (11-21)
5	79 (68-83)	75 (61-80)	70 (54-75)	63 (46-70)	56 (39-63)	49 (34-56)	42 (29-49)	35 (25-42)	30 (21-35)	25 (18-30)	20 (16-25)
6	83	81	77	72	66	60	53	45	39	32	27

Ten year probability of osteoporotic 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	28	23	18	14	12	10	8.6	7.3	6.2	5.4	4.6
1	38 (30-54)	31 (24-46)	25 (19-38)	20 (15-31)	17 (12-25)	14 (10-21)	12 (8.6-17)	10 (7.2-14)	8.6 (6.1-11)	7.3 (5.1-9.2)	6.2 (4.4-7.6)
2	49 (38-64)	42 (31-56)	35 (25-49)	28 (20-41)	24 (16-34)	20 (13-29)	17 (11-24)	14 (9.3-20)	12 (7.7-16)	9.9 (6.5-14)	8.4 (5.5-11)
3	59 (46-71)	52 (39-65)	45 (32-58)	38 (26-50)	32 (21-43)	27 (18-37)	23 (15-31)	19 (12-26)	16 (10-22)	14 (8.6-19)	11 (7.2-16)
4	68 (54-76)	62 (47-72)	56 (40-66)	49 (33-59)	42 (28-52)	37 (24-45)	31 (20-39)	26 (17-33)	22 (14-28)	19 (12-24)	15 (10-20)
5	75 (62-79)	71 (56-76)	66 (49-72)	59 (42-66)	53 (36-60)	47 (32-54)	41 (27-48)	35 (23-41)	30 (20-36)	25 (17-30)	21 (15-26)
6	79	77	74	69	64	58	52	45	39	33	28

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	19	15	12	9.8	8.3	7.1	6.0	5.1	4.4	3.7	3.2
1	26 (20-40)	22 (16-33)	17 (13-27)	14 (10-23)	12 (8.6-19)	10 (7.2-16)	8.6 (6.0-13)	7.3 (5.1-11)	6.2 (4.3-8.9)	5.2 (3.6-7.3)	4.4 (3.1-6.1)
2	35 (25-50)	30 (21-43)	25 (17-36)	20 (14-30)	17 (11-26)	15 (9.6-22)	12 (8.0-18)	10 (6.7-15)	8.8 (5.6-13)	7.4 (4.7-11)	6.2 (4.0-8.9)
3	46 (32-59)	40 (27-52)	34 (22-46)	28 (18-39)	24 (15-34)	21 (13-29)	18 (11-25)	15 (9.0-21)	12 (7.5-17)	10 (6.3-15)	8.7 (5.3-12)
4	56 (40-66)	50 (34-60)	44 (29-54)	38 (24-48)	33 (20-42)	29 (17-37)	24 (15-32)	21 (12-27)	18 (11-23)	15 (8.9-19)	12 (7.5-16)
5	65 (49-71)	60 (43-67)	55 (37-61)	49 (31-55)	43 (27-50)	38 (23-45)	33 (20-39)	29 (17-34)	24 (15-29)	21 (12-25)	17 (11-21)
6	72	69	65	60	55	49	44	38	33	28	24