

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 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 Hungary. 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	3.1	2.8	2.6	2.3	2.0	1.7	1.5
1	5.1 (3.5-7.7)	4.4 (3.0-6.4)	4.1 (2.8-5.7)	3.6 (2.4-5.0)	3.1 (2.1-4.3)	2.7 (1.8-3.7)	2.4 (1.6-3.3)
2	8.2 (4.5-13)	7.0 (3.8-12)	6.4 (3.4-11)	5.5 (2.9-9.5)	4.8 (2.5-8.3)	4.2 (2.2-7.3)	3.6 (1.9-6.4)
3	13 (6.7-22)	11 (5.4-19)	9.7 (4.7-17)	8.4 (4.1-15)	7.3 (3.5-13)	6.4 (3.0-12)	5.5 (2.6-10)
4	20 (11-30)	17 (9.3-26)	15 (7.9-23)	13 (6.8-20)	11 (5.9-18)	9.6 (5.0-16)	8.3 (4.3-14)
5	31 (19-38)	25 (16-32)	21 (14-28)	19 (13-25)	16 (11-22)	14 (9.5-19)	12 (8.3-17)
6	45	36	31	27	23	20	18

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	4.4	4.1	3.6	3.1	2.7	2.4
1	8.1 (5.7-12)	7.0 (4.9-9.8)	6.4 (4.4-8.7)	5.6 (3.8-7.6)	4.8 (3.3-6.6)	4.2 (2.9-5.7)	3.7 (2.5-5.0)
2	13 (7.5-20)	11 (6.2-17)	9.8 (5.4-16)	8.5 (4.7-14)	7.4 (4.0-12)	6.5 (3.5-11)	5.6 (3.0-9.6)
3	20 (11-31)	17 (8.9-28)	15 (7.6-25)	13 (6.5-22)	11 (5.6-20)	9.7 (4.8-17)	8.5 (4.2-15)
4	30 (18-43)	25 (15-37)	22 (13-34)	19 (11-30)	17 (9.3-26)	14 (8.0-23)	13 (6.9-20)
5	43 (29-52)	36 (25-45)	31 (22-40)	27 (19-35)	24 (17-31)	21 (15-27)	18 (13-24)
6	59	50	44	38	34	30	26

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.7	5.8	5.4	4.6	4.0	3.5	3.0
1	11 (7.8-15)	9.2 (6.5-12)	8.3 (5.8-11)	7.2 (5.0-9.5)	6.2 (4.3-8.2)	5.4 (3.7-7.1)	4.7 (3.2-6.2)
2	17 (10-25)	14 (8.3-21)	13 (7.2-20)	11 (6.2-17)	9.4 (5.3-15)	8.2 (4.6-13)	7.1 (3.9-12)
3	25 (16-37)	21 (12-33)	19 (10-31)	16 (8.7-27)	14 (7.4-24)	12 (6.4-21)	11 (5.5-18)
4	37 (24-50)	31 (20-44)	27 (17-40)	23 (14-36)	20 (12-31)	18 (10-28)	15 (9.0-24)
5	51 (38-60)	43 (32-53)	38 (28-47)	33 (24-42)	29 (21-37)	25 (19-33)	22 (16-29)
6	66	58	51	46	40	35	31

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.0	6.7	6.0	5.2	4.5	3.8	3.3
1	13 (9.4-17)	10 (7.6-14)	9.2 (6.6-12)	7.9 (5.6-10)	6.8 (4.8-8.8)	5.9 (4.1-7.6)	5.1 (3.5-6.6)
2	19 (13-27)	16 (10-23)	14 (8.3-21)	12 (7.1-18)	10 (6.0-16)	8.9 (5.1-14)	7.7 (4.4-12)
3	28 (19-39)	24 (15-35)	20 (12-32)	18 (10-28)	15 (8.6-25)	13 (7.3-22)	11 (6.2-19)
4	40 (28-52)	34 (23-47)	29 (20-42)	25 (17-37)	22 (14-33)	19 (12-29)	16 (10-25)
5	54 (42-62)	46 (36-56)	41 (32-50)	36 (27-45)	31 (24-39)	27 (20-35)	23 (18-30)
6	67	61	54	48	43	37	33

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	10	8.6	7.5	6.4	5.5	4.7	4.0
1	16 (12-20)	13 (9.9-16)	11 (8.4-14)	9.5 (7.1-12)	8.1 (6.0-10)	6.9 (5.0-8.9)	5.9 (4.3-7.6)
2	25 (17-33)	20 (13-27)	17 (11-23)	14 (9.1-19)	12 (7.6-17)	10 (6.4-14)	8.6 (5.4-12)
3	36 (25-47)	29 (20-41)	24 (16-35)	21 (13-30)	17 (11-26)	15 (9.3-22)	13 (7.8-19)
4	49 (37-61)	42 (31-55)	35 (26-48)	30 (22-42)	25 (18-36)	22 (15-31)	18 (13-26)
5	62 (56-71)	56 (49-65)	49 (41-58)	42 (35-51)	36 (30-44)	31 (25-38)	26 (21-33)
6	73	70	63	56	50	43	37

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	16	14	12	9.9	8.4	7.1	6.0
1	24 (18-35)	21 (15-28)	18 (13-22)	15 (11-18)	12 (9.1-15)	10 (7.6-13)	8.7 (6.3-11)
2	36 (24-50)	31 (20-44)	26 (17-36)	22 (14-30)	18 (12-25)	15 (9.8-21)	13 (8.1-18)
3	48 (32-64)	44 (29-58)	38 (25-51)	32 (21-44)	27 (17-38)	23 (14-32)	19 (12-27)
4	59 (44-72)	57 (41-69)	52 (37-65)	45 (31-58)	39 (26-51)	33 (22-45)	27 (18-38)
5	69 (58-77)	68 (56-76)	65 (54-74)	59 (47-68)	52 (41-62)	45 (35-55)	39 (30-48)
6	77	77	76	71	65	59	52

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	19	17	14	12	9.9	8.3
1	30 (22-43)	27 (20-38)	24 (18-32)	20 (15-26)	17 (13-22)	14 (10-18)	12 (8.6-15)
2	41 (29-56)	38 (27-52)	35 (24-45)	29 (20-38)	25 (16-32)	20 (13-27)	17 (11-23)
3	52 (38-66)	50 (35-64)	46 (33-59)	40 (28-52)	34 (23-45)	29 (19-39)	24 (16-33)
4	63 (48-74)	61 (47-72)	59 (45-69)	52 (39-64)	46 (33-57)	39 (28-51)	33 (23-44)
5	72 (60-77)	71 (59-77)	69 (58-76)	63 (51-71)	57 (45-66)	51 (39-60)	44 (33-53)
6	77	78	77	73	68	62	56

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	19	18	15	12	10	8.5
1	30 (22-44)	28 (21-39)	26 (19-34)	21 (16-28)	18 (13-23)	15 (11-19)	12 (8.6-16)
2	41 (30-57)	38 (27-53)	36 (25-47)	30 (20-40)	25 (17-34)	21 (14-29)	17 (11-24)
3	53 (38-67)	50 (35-64)	47 (33-60)	41 (28-54)	35 (23-47)	29 (19-40)	25 (16-34)
4	63 (49-73)	61 (47-72)	59 (45-69)	52 (39-64)	46 (33-57)	40 (28-51)	34 (23-44)
5	70 (60-75)	70 (59-76)	69 (58-76)	63 (51-71)	57 (45-66)	51 (39-60)	44 (33-53)
6	74	76	77	73	68	62	56

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	16	14	14	11	9.3	7.6	6.3
1	24 (17-36)	22 (16-32)	20 (15-28)	17 (12-23)	14 (9.6-19)	11 (7.7-15)	9.1 (6.3-12)
2	34 (24-49)	31 (21-45)	29 (19-40)	24 (16-34)	20 (13-28)	16 (10-23)	13 (8.3-19)
3	46 (31-60)	42 (29-56)	39 (26-52)	33 (22-46)	28 (18-39)	23 (14-33)	19 (11-27)
4	56 (41-67)	54 (39-65)	51 (37-62)	44 (31-56)	38 (26-49)	32 (21-42)	27 (17-36)
5	64 (53-69)	64 (51-71)	62 (49-70)	56 (43-64)	49 (36-58)	43 (31-52)	36 (26-45)
6	66	70	71	66	61	54	48