

Hungary - The probabilities of a major osteoporotic fracture in men

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	1.7	1.8	1.8	1.6	1.4	1.2	1.0
1	2.7 (1.8-4.2)	2.8 (1.8-4.0)	2.8 (1.9-4.0)	2.5 (1.6-3.4)	2.1 (1.4-3.0)	1.8 (1.2-2.6)	1.6 (1.0-2.2)
2	4.2 (2.2-7.4)	4.2 (2.2-7.5)	4.3 (2.3-7.7)	3.7 (1.9-6.7)	3.2 (1.7-5.8)	2.8 (1.4-5.1)	2.4 (1.2-4.4)
3	6.4 (3.3-11)	6.4 (3.2-11)	6.4 (3.1-12)	5.6 (2.7-10)	4.8 (2.3-8.7)	4.1 (2.0-7.6)	3.6 (1.7-6.6)
4	9.6 (4.9-15)	9.5 (4.8-15)	9.5 (4.8-16)	8.1 (4.1-14)	7.0 (3.5-12)	6.0 (3.0-10)	5.2 (2.5-8.8)
5	14 (8.1-19)	14 (8.5-19)	14 (8.9-19)	12 (7.7-16)	10 (6.6-14)	8.7 (5.7-12)	7.5 (4.9-11)
6	20	19	19	17	14	12	11

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.4	2.5	2.6	2.2	1.9	1.7	1.4
1	3.8 (2.5-5.7)	3.9 (2.5-5.5)	4.0 (2.6-5.5)	3.4 (2.2-4.7)	2.9 (1.9-4.1)	2.5 (1.7-3.5)	2.2 (1.4-3.0)
2	5.8 (3.2-9.8)	5.8 (3.2-10)	6.0 (3.2-10)	5.1 (2.7-9.0)	4.4 (2.3-7.8)	3.8 (2.0-6.8)	3.3 (1.7-5.9)
3	8.6 (4.6-14)	8.7 (4.6-14)	8.8 (4.5-15)	7.5 (3.8-13)	6.5 (3.2-11)	5.6 (2.8-9.9)	4.8 (2.4-8.5)
4	13 (6.9-19)	13 (6.8-20)	13 (6.8-20)	11 (5.7-18)	9.4 (4.8-15)	8.0 (4.1-13)	6.9 (3.5-11)
5	18 (11-24)	18 (12-24)	18 (12-24)	15 (10-21)	13 (8.9-18)	11 (7.6-16)	9.7 (6.5-14)
6	25	25	25	21	18	16	14

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.0	3.0	3.1	2.6	2.3	1.9	1.7
1	4.5 (3.0-6.6)	4.6 (3.1-6.4)	4.6 (3.1-6.3)	4.0 (2.6-5.4)	3.4 (2.2-4.6)	2.9 (1.9-3.9)	2.5 (1.6-3.4)
2	6.9 (4.0-11)	6.8 (3.9-11)	6.9 (3.8-12)	5.9 (3.3-10)	5.1 (2.8-8.7)	4.3 (2.4-7.6)	3.7 (2.0-6.5)
3	10 (5.8-16)	10 (5.7-16)	10 (5.5-17)	8.7 (4.6-15)	7.4 (3.9-13)	6.3 (3.3-11)	5.4 (2.8-9.4)
4	15 (8.8-22)	15 (8.5-22)	15 (8.2-23)	12 (6.9-20)	11 (5.8-17)	9.1 (4.8-15)	7.7 (4.1-13)
5	21 (13-27)	20 (14-27)	20 (14-27)	17 (12-24)	15 (10-20)	13 (8.8-18)	11 (7.5-15)
6	28	28	28	24	21	18	15

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	3.1	3.1	2.6	2.2	1.9	1.6
1	4.7 (3.3-6.6)	4.7 (3.2-6.3)	4.7 (3.2-6.2)	3.9 (2.7-5.2)	3.3 (2.2-4.5)	2.8 (1.9-3.8)	2.4 (1.6-3.2)
2	7.1 (4.4-11)	6.9 (4.2-11)	6.9 (4.0-11)	5.8 (3.4-9.6)	4.9 (2.8-8.3)	4.2 (2.4-7.1)	3.6 (2.0-6.1)
3	10 (6.2-15)	10 (6.1-15)	10 (5.8-16)	8.5 (4.9-14)	7.2 (4.0-12)	6.1 (3.4-10)	5.2 (2.8-8.6)
4	15 (9.5-21)	14 (9.2-21)	14 (8.8-22)	12 (7.2-19)	10 (6.0-16)	8.7 (4.9-14)	7.3 (4.1-12)
5	20 (14-27)	20 (14-27)	20 (14-27)	17 (12-23)	14 (10-20)	12 (8.6-17)	10 (7.2-14)
6	27	27	27	23	20	17	14

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.5	3.4	3.4	2.8	2.4	2.0	1.7
1	5.3 (3.6-6.8)	5.1 (3.6-6.7)	5.0 (3.5-6.5)	4.1 (2.9-5.5)	3.4 (2.4-4.6)	2.9 (2.0-3.8)	2.4 (1.6-3.2)
2	8.0 (5.0-12)	7.6 (4.8-12)	7.3 (4.6-11)	6.0 (3.8-9.0)	5.0 (3.1-7.5)	4.1 (2.5-6.2)	3.4 (2.1-5.2)
3	12 (6.9-19)	11 (6.7-17)	11 (6.6-16)	8.8 (5.4-13)	7.2 (4.4-11)	5.9 (3.6-9.0)	4.9 (2.9-7.5)
4	17 (11-25)	16 (10-24)	16 (10-23)	13 (8.1-19)	10 (6.5-16)	8.5 (5.3-13)	7.0 (4.3-11)
5	25 (20-32)	23 (19-30)	22 (17-29)	18 (14-24)	15 (11-20)	12 (9.2-17)	10 (7.4-14)
6	34	32	31	25	21	17	14

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.8	4.8	4.8	4.0	3.2	2.7	2.2
1	7.7 (4.9-12)	7.5 (5.0-11)	7.3 (5.0-9.8)	5.9 (4.0-7.8)	4.8 (3.2-6.2)	3.9 (2.6-5.0)	3.2 (2.1-4.0)
2	12 (6.4-20)	12 (6.5-19)	11 (6.7-17)	8.8 (5.4-14)	7.1 (4.3-11)	5.7 (3.4-8.8)	4.6 (2.8-7.1)
3	18 (9.0-29)	17 (9.0-28)	16 (9.1-25)	13 (7.2-21)	11 (5.8-17)	8.5 (4.6-13)	6.8 (3.7-11)
4	25 (14-37)	25 (14-36)	24 (14-33)	19 (11-28)	16 (8.8-23)	13 (7.0-18)	10 (5.6-15)
5	35 (23-44)	34 (22-43)	33 (23-42)	27 (18-35)	22 (15-30)	18 (12-24)	15 (9.7-20)
6	46	44	43	37	31	25	21

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.3	7.1	6.9	5.6	4.5	3.7	3.0
1	12 (7.7-19)	11 (7.4-17)	10 (7.2-15)	8.4 (5.8-12)	6.8 (4.6-9.5)	5.4 (3.7-7.5)	4.4 (2.9-6.0)
2	17 (10-28)	16 (9.8-26)	16 (9.7-23)	13 (7.7-19)	10 (6.1-15)	8.0 (4.8-12)	6.4 (3.8-9.5)
3	25 (14-38)	24 (14-35)	22 (13-33)	18 (11-27)	15 (8.3-22)	12 (6.6-18)	9.4 (5.2-14)
4	35 (21-47)	33 (20-44)	31 (20-42)	26 (16-35)	21 (13-29)	17 (10-24)	14 (8.1-20)
5	45 (31-54)	43 (29-52)	41 (28-50)	35 (24-43)	29 (19-37)	24 (16-31)	19 (13-26)
6	56	54	52	45	39	33	27

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.1	8.4	8.0	6.4	5.1	4.1	3.3
1	14 (9.9-23)	13 (9.0-21)	12 (8.4-18)	9.8 (6.7-14)	7.8 (5.3-11)	6.3 (4.2-9.0)	5.0 (3.4-7.1)
2	22 (14-34)	20 (12-31)	18 (12-27)	15 (9.2-22)	12 (7.3-18)	9.4 (5.8-14)	7.5 (4.6-11)
3	31 (19-44)	29 (17-41)	26 (16-38)	22 (13-32)	17 (10-26)	14 (7.9-21)	11 (6.3-17)
4	41 (26-54)	39 (25-51)	36 (23-47)	30 (19-40)	25 (15-34)	20 (12-28)	16 (9.8-23)
5	52 (38-60)	50 (35-58)	47 (33-56)	41 (28-50)	34 (23-43)	29 (19-36)	23 (15-30)
6	60	60	58	52	45	39	32

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.4	7.5	6.8	5.4	4.3	3.5	2.8
1	14 (9.4-23)	12 (8.2-19)	11 (7.4-17)	8.5 (5.8-13)	6.8 (4.6-10)	5.4 (3.6-8.1)	4.2 (2.8-6.3)
2	21 (13-34)	19 (12-30)	16 (10-25)	13 (8.1-21)	10 (6.4-16)	8.3 (5.0-13)	6.5 (3.9-10)
3	30 (19-44)	27 (16-40)	24 (15-35)	20 (11-29)	16 (9.0-24)	13 (7.1-19)	10 (5.5-15)
4	41 (26-53)	38 (24-49)	34 (21-45)	29 (17-38)	23 (14-32)	19 (11-26)	15 (8.7-21)
5	51 (37-58)	49 (34-57)	46 (31-55)	39 (26-48)	33 (21-41)	27 (17-35)	22 (14-29)
6	58	59	57	51	44	38	31