FRAX® WHO Fracture Risk Assessment Tool

Hungary - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip 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/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	0.8	0.4	0.2	0.2	0.1	0.1	0.1
1	1.6 (1.1-3.2)	0.9 (0.6-1.7)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.1-0.4)	0.2 (0.1-0.3)
2	3.1 (1.6-6.5)	1.7 (0.9-3.6)	0.9 (0.5-2.0)	0.7 (0.4-1.6)	0.6 (0.3-1.2)	0.4 (0.2-0.9)	0.3 (0.2-0.7)
3	5.8 (2.4-11)	3.2 (1.3-6.4)	1.8 (0.7-3.5)	1.4 (0.6-2.7)	1.1 (0.4-2.1)	0.8 (0.3-1.7)	0.6 (0.3-1.3)
4	10 (4.2-17)	5.9 (2.3-9.5)	3.3 (1.3-5.3)	2.5 (1.0-4.1)	2.0 (0.8-3.2)	1.5 (0.6-2.5)	1.2 (0.5-2.0)
5	18 (8.5-24)	10 (4.8-14)	5.8 (2.7-7.8)	4.5 (2.1-6.1)	3.5 (1.6-4.8)	2.8 (1.2-3.7)	2.1 (1.0-2.9)
6	30	18	10	8.0	6.3	4.9	3.8

Ten year probability of hip 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/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	1.6	0.9	0.5	0.4	0.3	0.2	0.2
1	3.0 (2.1-5.3)	1.7 (1.1-2.9)	0.9 (0.6-1.6)	0.7 (0.5-1.2)	0.5 (0.4-1.0)	0.4 (0.3-0.8)	0.3 (0.2-0.6)
2	5.6 (3.0-11)	3.1 (1.7-6.1)	1.7 (0.9-3.4)	1.3 (0.7-2.6)	1.0 (0.6-2.0)	0.8 (0.4-1.6)	0.6 (0.3-1.2)
3	9.9 (4.6-18)	5.7 (2.6-11)	3.1 (1.4-5.9)	2.4 (1.1-4.6)	1.9 (0.9-3.6)	1.5 (0.7-2.8)	1.1 (0.5-2.2)
4	17 (8.0-26)	10 (4.5-16)	5.6 (2.5-8.9)	4.4 (1.9-7.0)	3.4 (1.5-5.4)	2.7 (1.2-4.2)	2.1 (0.9-3.3)
5	28 (16-35)	17 (9.2-22)	9.8 (5.2-13)	7.7 (4.1-10)	6.0 (3.2-8.0)	4.7 (2.5-6.2)	3.7 (1.9-4.9)
6	43	28	17	13	10	8.1	6.3

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	2.6	1.4	0.8	0.6	0.5	0.4	0.3
1	4.7 (3.4-7.3)	2.6 (1.9-4.2)	1.5 (1.0-2.3)	1.1 (0.8-1.8)	0.9 (0.6-1.4)	0.7 (0.5-1.1)	0.5 (0.4-0.8)
2	8.3 (4.9-14)	4.8 (2.8-8.5)	2.7 (1.6-4.8)	2.1 (1.2-3.7)	1.6 (0.9-2.9)	1.2 (0.7-2.3)	1.0 (0.6-1.8)
3	14 (7.4-24)	8.3 (4.2-14)	4.7 (2.4-8.3)	3.7 (1.8-6.5)	2.9 (1.4-5.1)	2.2 (1.1-4.0)	1.7 (0.9-3.1)
4	23 (13-34)	14 (7.4-21)	8.2 (4.1-12)	6.4 (3.2-9.8)	5.0 (2.5-7.7)	3.9 (1.9-6.0)	3.0 (1.5-4.7)
5	36 (24-44)	23 (15-29)	14 (8.5-18)	11 (6.6-14)	8.6 (5.2-11)	6.7 (4.0-8.7)	5.2 (3.1-6.8)
6	52	36	23	18	14	11	8.8

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	3.8	2.2	1.2	1.0	0.7	0.6	0.4
1	6.6 (5.0-9.2)	3.8 (2.9-5.4)	2.2 (1.6-3.1)	1.7 (1.3-2.4)	1.3 (1.0-1.8)	1.0 (0.8-1.4)	0.8 (0.6-1.1)
2	11 (7.0-17)	6.6 (4.2-11)	3.8 (2.4-6.2)	2.9 (1.8-4.9)	2.3 (1.4-3.8)	1.8 (1.1-2.9)	1.4 (0.9-2.3)
3	18 (11-28)	11 (6.3-18)	6.5 (3.6-11)	5.1 (2.8-8.4)	3.9 (2.2-6.6)	3.1 (1.7-5.1)	2.4 (1.3-4.0)
4	28 (18-39)	18 (11-26)	11 (6.3-16)	8.5 (4.9-13)	6.7 (3.8-9.9)	5.2 (3.0-7.7)	4.0 (2.3-6.0)
5	41 (31-48)	28 (20-35)	18 (13-22)	14 (9.8-18)	11 (7.7-14)	8.7 (6.0-11)	6.8 (4.6-8.6)
6	56	42	28	23	18	14	11

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	6.2	3.8	2.2	1.7	1.3	1.0	0.8
1	11 (8.3-13)	6.8 (5.3-7.9)	4.0 (3.2-4.7)	3.1 (2.5-3.6)	2.4 (1.9-2.8)	1.9 (1.5-2.2)	1.4 (1.1-1.7)
2	18 (12-25)	12 (8.0-16)	7.2 (4.8-9.7)	5.6 (3.7-7.6)	4.4 (2.9-5.9)	3.4 (2.2-4.6)	2.6 (1.7-3.5)
3	29 (21-39)	20 (14-28)	13 (8.3-18)	9.9 (6.5-15)	7.7 (5.0-11)	6.0 (3.9-8.9)	4.7 (3.0-6.9)
4	43 (32-55)	32 (24-43)	21 (16-30)	17 (12-24)	13 (9.6-19)	11 (7.5-15)	8.2 (5.8-12)
5	58 (52-66)	47 (42-56)	34 (30-41)	28 (24-34)	22 (19-27)	18 (15-22)	14 (12-17)
6	70	63	51	43	36	29	23

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	11	7.5	4.7	3.7	2.8	2.2	1.7
1	19 (14-32)	14 (9.9-23)	9.1 (6.5-15)	7.1 (5.0-12)	5.5 (3.9-9.5)	4.2 (3.0-7.4)	3.3 (2.3-5.7)
2	31 (20-47)	24 (15-37)	16 (9.8-27)	13 (7.6-21)	10 (5.9-17)	7.9 (4.5-13)	6.1 (3.5-10)
3	44 (28-61)	37 (23-53)	28 (16-42)	23 (13-34)	18 (10-28)	14 (7.8-22)	11 (6.0-18)
4	57 (40-70)	52 (35-65)	43 (27-58)	36 (22-50)	30 (17-42)	24 (14-35)	19 (11-28)
5	68 (54-75)	65 (50-73)	59 (42-69)	52 (35-62)	45 (28-54)	37 (23-46)	31 (18-39)
6	77	75	73	67	60	53	45

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	16	12	8.0	6.2	4.7	3.6	2.8
1	25 (19-40)	20 (15-33)	14 (11-25)	11 (8.1-20)	8.7 (6.3-15)	6.8 (4.8-12)	5.2 (3.7-9.3)
2	37 (26-54)	31 (21-48)	24 (15-38)	19 (12-31)	15 (9.3-25)	12 (7.2-20)	9.3 (5.5-16)
3	49 (34-64)	44 (30-60)	37 (23-53)	30 (18-45)	25 (14-38)	20 (11-31)	16 (8.4-25)
4	61 (44-72)	57 (40-69)	51 (34-64)	44 (28-57)	37 (22-49)	31 (17-42)	25 (14-35)
5	70 (57-77)	68 (54-75)	65 (48-73)	58 (41-67)	51 (34-60)	44 (27-53)	37 (22-46)
6	77	77	75	70	64	58	50

Ten year probability of hip 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/m²)						
	15	20	25	30	35	40	45
0	16	13	9.1	7.0	5.4	4.1	3.1
1	26 (19-41)	21 (15-35)	16 (12-27)	13 (8.9-22)	9.7 (6.9-17)	7.5 (5.2-13)	5.8 (4.0-10)
2	38 (26-55)	32 (22-49)	26 (17-41)	21 (13-34)	17 (10-27)	13 (7.8-22)	10 (6.0-17)
3	50 (35-65)	45 (31-60)	39 (24-54)	32 (19-47)	26 (15-39)	21 (12-32)	17 (9.1-26)
4	61 (45-72)	58 (41-69)	53 (35-65)	45 (29-58)	39 (23-51)	32 (18-43)	26 (14-36)
5	70 (58-75)	68 (54-75)	65 (49-73)	59 (42-68)	52 (35-61)	45 (28-54)	38 (23-47)
6	74	76	75	70	65	58	51

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	13	10	7.5	5.7	4.4	3.3	2.5
1	21 (15-34)	17 (12-29)	13 (9.3-23)	10 (7.1-18)	7.9 (5.4-14)	6.0 (4.1-11)	4.6 (3.1-8.4)
2	32 (21-48)	27 (17-42)	22 (14-35)	17 (11-29)	13 (8.1-23)	10 (6.2-18)	8.0 (4.7-14)
3	43 (29-58)	39 (25-53)	33 (20-47)	27 (16-40)	22 (12-33)	17 (9.4-27)	13 (7.2-21)
4	55 (39-66)	51 (34-63)	46 (29-58)	39 (23-51)	32 (18-44)	26 (14-36)	21 (11-30)
5	63 (51-69)	62 (47-70)	59 (42-67)	52 (35-61)	45 (29-54)	38 (23-47)	32 (18-40)
6	66	70	69	64	58	51	44