

The Czech Republic - The probabilities of a hip fracture in men

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 the Czech Republic. 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	0.5	0.3	0.2	0.1	0.1	0.1	0.1
1	1.0 (0.7-2.0)	0.6 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)	0.1 (0.1-0.2)
2	1.9 (0.9-3.9)	1.1 (0.5-2.3)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)	0.3 (0.1-0.6)	0.2 (0.1-0.5)
3	3.5 (1.4-6.7)	2.0 (0.8-4.0)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.5 (0.2-1.1)	0.4 (0.2-0.8)
4	6.2 (2.5-10)	3.7 (1.5-6.0)	2.1 (0.8-3.5)	1.6 (0.6-2.7)	1.3 (0.5-2.1)	1.0 (0.4-1.6)	0.8 (0.3-1.3)
5	11 (4.8-14)	6.5 (2.9-8.6)	3.8 (1.7-5.0)	2.9 (1.3-3.9)	2.3 (1.0-3.0)	1.7 (0.8-2.3)	1.4 (0.6-1.8)
6	18	11	6.6	5.1	4.0	3.1	2.4

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.8	0.5	0.3	0.2	0.2	0.1	0.1
1	1.5 (1.1-2.8)	0.9 (0.6-1.6)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.4)	0.2 (0.1-0.3)
2	2.8 (1.5-5.3)	1.7 (0.9-3.2)	1.0 (0.5-1.9)	0.7 (0.4-1.5)	0.6 (0.3-1.1)	0.4 (0.2-0.9)	0.3 (0.2-0.7)
3	5.0 (2.3-9.1)	3.0 (1.4-5.6)	1.8 (0.8-3.3)	1.4 (0.6-2.6)	1.1 (0.5-2.0)	0.8 (0.4-1.5)	0.6 (0.3-1.2)
4	8.5 (4.0-13)	5.3 (2.4-8.4)	3.1 (1.4-5.0)	2.4 (1.1-3.9)	1.9 (0.8-3.0)	1.4 (0.6-2.3)	1.1 (0.5-1.8)
5	14 (7.4-18)	9.0 (4.7-12)	5.4 (2.8-7.1)	4.2 (2.2-5.5)	3.3 (1.7-4.3)	2.5 (1.3-3.3)	2.0 (1.0-2.6)
6	22	15	9.3	7.2	5.6	4.3	3.4

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.3	0.8	0.5	0.4	0.3	0.2	0.2
1	2.3 (1.7-3.7)	1.4 (1.0-2.3)	0.8 (0.6-1.3)	0.6 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)
2	4.0 (2.3-6.8)	2.5 (1.5-4.4)	1.5 (0.9-2.7)	1.2 (0.7-2.1)	0.9 (0.5-1.6)	0.7 (0.4-1.2)	0.5 (0.3-0.9)
3	6.7 (3.5-12)	4.3 (2.2-7.6)	2.6 (1.3-4.7)	2.0 (1.0-3.6)	1.6 (0.8-2.8)	1.2 (0.6-2.1)	0.9 (0.5-1.7)
4	11 (6.1-17)	7.3 (3.9-11)	4.5 (2.3-7.0)	3.5 (1.8-5.4)	2.7 (1.4-4.2)	2.1 (1.1-3.3)	1.6 (0.8-2.5)
5	17 (11-21)	12 (7.2-15)	7.6 (4.5-9.7)	5.9 (3.5-7.6)	4.6 (2.7-5.9)	3.5 (2.1-4.5)	2.7 (1.6-3.5)
6	26	19	13	9.8	7.6	5.9	4.5

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.0	1.3	0.8	0.6	0.5	0.4	0.3
1	3.4 (2.6-4.9)	2.2 (1.7-3.2)	1.4 (1.0-1.9)	1.0 (0.8-1.5)	0.8 (0.6-1.2)	0.6 (0.5-0.9)	0.5 (0.4-0.7)
2	5.5 (3.4-8.5)	3.7 (2.3-5.8)	2.3 (1.5-3.7)	1.8 (1.1-2.9)	1.4 (0.9-2.2)	1.1 (0.7-1.7)	0.8 (0.5-1.3)
3	8.9 (5.2-14)	6.1 (3.5-10)	3.9 (2.2-6.5)	3.0 (1.7-5.0)	2.3 (1.3-3.9)	1.8 (1.0-3.0)	1.4 (0.8-2.3)
4	14 (8.4-20)	9.9 (6.1-15)	6.5 (3.9-9.7)	5.0 (3.0-7.6)	3.9 (2.3-5.8)	3.0 (1.8-4.5)	2.3 (1.3-3.5)
5	21 (14-25)	15 (11-19)	11 (7.2-13)	8.2 (5.5-10)	6.3 (4.2-7.8)	4.9 (3.2-6.0)	3.7 (2.5-4.6)
6	29	23	17	13	10	7.8	6.0

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.2	2.2	1.4	1.1	0.8	0.6	0.5
1	5.4 (3.9-6.6)	3.9 (2.9-4.7)	2.5 (1.9-3.0)	1.9 (1.5-2.3)	1.5 (1.1-1.8)	1.1 (0.9-1.4)	0.9 (0.7-1.0)
2	9.0 (5.9-13)	6.6 (4.3-9.6)	4.5 (2.9-6.3)	3.4 (2.2-4.9)	2.6 (1.7-3.7)	2.0 (1.3-2.9)	1.5 (1.0-2.2)
3	14 (8.9-22)	11 (7.1-16)	7.7 (5.1-11)	6.0 (3.9-8.7)	4.6 (3.0-6.7)	3.5 (2.3-5.1)	2.7 (1.7-3.9)
4	22 (15-30)	18 (12-25)	13 (8.9-19)	10 (6.8-15)	7.8 (5.2-11)	6.0 (4.0-8.8)	4.6 (3.0-6.8)
5	32 (27-40)	27 (23-34)	21 (17-26)	17 (14-21)	13 (11-17)	10 (8.2-13)	7.8 (6.3-10)
6	43	39	32	26	21	16	13

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	3.7	2.6	2.0	1.5	1.1	0.9
1	8.9 (5.9-16)	6.9 (4.6-12)	4.9 (3.4-8.6)	3.8 (2.6-6.7)	2.9 (2.0-5.1)	2.2 (1.5-3.9)	1.7 (1.1-3.0)
2	15 (8.4-25)	12 (6.9-20)	9.0 (5.1-15)	6.9 (3.9-12)	5.3 (3.0-9.1)	4.1 (2.2-7.0)	3.1 (1.7-5.4)
3	23 (12-37)	20 (10-32)	15 (8.3-24)	12 (6.3-19)	9.4 (4.8-15)	7.2 (3.6-12)	5.5 (2.8-9.2)
4	34 (20-47)	30 (17-42)	25 (14-36)	20 (11-30)	16 (8.2-24)	12 (6.3-19)	9.5 (4.8-15)
5	46 (30-55)	42 (27-52)	37 (23-47)	31 (18-39)	25 (14-33)	20 (11-26)	16 (8.4-21)
6	58	55	51	44	37	30	24

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.3	5.8	4.3	3.3	2.5	1.9	1.4
1	12 (8.3-21)	10 (6.9-18)	7.8 (5.4-14)	6.0 (4.1-11)	4.6 (3.1-8.3)	3.5 (2.3-6.4)	2.6 (1.8-4.9)
2	19 (12-32)	17 (10-28)	13 (8.0-23)	10 (6.1-18)	8.0 (4.7-14)	6.1 (3.5-11)	4.6 (2.7-8.3)
3	28 (17-42)	25 (14-38)	21 (12-32)	17 (9.3-26)	13 (7.1-21)	10 (5.4-16)	7.9 (4.1-13)
4	39 (23-52)	36 (21-48)	32 (18-42)	26 (14-36)	21 (11-29)	16 (8.2-23)	13 (6.2-19)
5	50 (34-59)	47 (31-56)	43 (28-52)	37 (22-45)	30 (17-38)	25 (14-32)	20 (11-26)
6	61	59	56	49	42	35	29

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.5	7.6	5.7	4.3	3.3	2.5	1.9
1	16 (11-27)	13 (9.0-23)	10 (7.1-18)	7.8 (5.4-14)	6.0 (4.1-11)	4.6 (3.1-8.3)	3.5 (2.3-6.4)
2	24 (15-39)	21 (13-34)	17 (10-28)	13 (8.0-23)	10 (6.1-18)	7.9 (4.6-14)	6.1 (3.5-11)
3	35 (22-49)	31 (19-45)	26 (15-39)	21 (12-32)	17 (9.3-26)	13 (7.1-21)	10 (5.4-16)
4	46 (30-59)	43 (26-55)	38 (22-50)	32 (18-42)	26 (14-35)	21 (11-29)	16 (8.1-23)
5	57 (42-65)	54 (38-63)	50 (34-60)	44 (28-53)	37 (22-46)	30 (17-38)	25 (14-32)
6	65	65	62	56	49	42	35

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.2	7.3	5.6	4.3	3.2	2.5	1.9
1	15 (11-26)	13 (8.7-22)	10 (6.9-18)	7.7 (5.2-14)	5.9 (4.0-11)	4.5 (3.0-8.2)	3.4 (2.2-6.2)
2	24 (15-38)	20 (13-33)	17 (10-28)	13 (7.8-22)	10 (5.9-18)	7.7 (4.5-14)	5.9 (3.4-11)
3	35 (22-49)	30 (18-44)	26 (15-38)	21 (12-31)	16 (9.0-25)	13 (6.9-20)	9.9 (5.2-16)
4	46 (30-58)	42 (26-54)	37 (22-49)	31 (17-42)	25 (13-35)	20 (10-28)	16 (7.9-23)
5	56 (42-63)	54 (38-62)	50 (33-59)	43 (27-52)	36 (22-45)	30 (17-38)	24 (13-31)
6	63	64	62	55	49	42	35