

The Czech Republic - 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 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	0.9	0.5	0.3	0.2	0.2	0.1	0.1
1	1.8 (1.1-3.4)	0.9 (0.6-1.8)	0.5 (0.3-1.0)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)
2	3.4 (1.7-7.2)	1.9 (0.9-3.9)	1.0 (0.5-2.1)	0.8 (0.4-1.7)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)
3	6.4 (2.6-12)	3.5 (1.4-6.9)	1.9 (0.8-3.7)	1.5 (0.6-2.9)	1.1 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)
4	11 (4.6-18)	6.4 (2.5-10)	3.5 (1.3-5.7)	2.7 (1.0-4.4)	2.1 (0.8-3.5)	1.6 (0.6-2.7)	1.3 (0.5-2.1)
5	20 (9.5-26)	11 (5.2-15)	6.2 (2.9-8.4)	4.9 (2.2-6.6)	3.8 (1.7-5.2)	3.0 (1.3-4.0)	2.3 (1.0-3.1)
6	33	19	11	8.6	6.7	5.3	4.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.5	0.8	0.4	0.3	0.3	0.2	0.2
1	2.9 (2.0-5.0)	1.6 (1.1-2.8)	0.9 (0.6-1.5)	0.7 (0.5-1.2)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)
2	5.4 (2.9-10)	3.0 (1.6-5.8)	1.6 (0.9-3.2)	1.3 (0.7-2.5)	1.0 (0.5-1.9)	0.8 (0.4-1.5)	0.6 (0.3-1.2)
3	9.7 (4.5-18)	5.4 (2.5-10)	3.0 (1.3-5.6)	2.3 (1.0-4.4)	1.8 (0.8-3.4)	1.4 (0.6-2.6)	1.1 (0.5-2.1)
4	17 (7.8-26)	9.6 (4.3-15)	5.3 (2.3-8.4)	4.2 (1.8-6.6)	3.2 (1.4-5.1)	2.5 (1.1-4.0)	2.0 (0.9-3.1)
5	28 (16-36)	16 (8.9-22)	9.3 (5.0-12)	7.3 (3.9-9.7)	5.7 (3.0-7.6)	4.5 (2.3-6.0)	3.5 (1.8-4.7)
6	44	27	16	13	9.9	7.8	6.1

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	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 (3.3-7.3)	2.6 (1.8-4.0)	1.4 (1.0-2.2)	1.1 (0.8-1.7)	0.9 (0.6-1.3)	0.7 (0.5-1.0)	0.5 (0.4-0.8)
2	8.3 (4.9-15)	4.7 (2.7-8.4)	2.6 (1.5-4.7)	2.0 (1.2-3.6)	1.6 (0.9-2.8)	1.2 (0.7-2.2)	0.9 (0.5-1.7)
3	14 (7.4-24)	8.2 (4.2-14)	4.6 (2.3-8.1)	3.6 (1.8-6.4)	2.8 (1.4-5.0)	2.2 (1.1-3.9)	1.7 (0.8-3.0)
4	24 (13-34)	14 (7.2-21)	8.0 (4.0-12)	6.3 (3.1-9.6)	4.9 (2.4-7.5)	3.8 (1.9-5.9)	3.0 (1.5-4.6)
5	37 (24-45)	23 (15-29)	14 (8.4-18)	11 (6.5-14)	8.4 (5.1-11)	6.6 (4.0-8.6)	5.1 (3.1-6.7)
6	54	37	22	18	14	11	8.7

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.3	2.5	1.4	1.1	0.8	0.6	0.5
1	7.5 (5.7-10)	4.3 (3.2-6.0)	2.4 (1.8-3.4)	1.9 (1.4-2.6)	1.5 (1.1-2.0)	1.1 (0.8-1.6)	0.9 (0.6-1.2)
2	13 (8.1-20)	7.4 (4.7-12)	4.2 (2.6-6.9)	3.3 (2.1-5.4)	2.5 (1.6-4.2)	2.0 (1.2-3.3)	1.5 (1.0-2.5)
3	21 (12-32)	12 (7.1-20)	7.2 (4.0-12)	5.6 (3.1-9.4)	4.4 (2.4-7.3)	3.4 (1.9-5.7)	2.7 (1.5-4.5)
4	32 (20-44)	20 (12-29)	12 (7.0-18)	9.5 (5.5-14)	7.5 (4.2-11)	5.8 (3.3-8.6)	4.5 (2.6-6.7)
5	47 (36-55)	32 (23-39)	20 (14-25)	16 (11-20)	12 (8.6-16)	9.7 (6.7-12)	7.6 (5.3-9.7)
6	63	47	31	25	20	16	13

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.6	4.5	2.6	2.0	1.6	1.2	0.9
1	13 (10-15)	8.1 (6.4-9.4)	4.7 (3.8-5.5)	3.7 (2.9-4.3)	2.8 (2.3-3.3)	2.2 (1.7-2.6)	1.7 (1.4-2.0)
2	22 (15-30)	14 (9.6-19)	8.5 (5.7-11)	6.6 (4.4-8.8)	5.2 (3.4-6.9)	4.0 (2.7-5.4)	3.1 (2.1-4.2)
3	35 (25-47)	24 (16-34)	15 (9.8-22)	12 (7.7-17)	9.2 (6.0-14)	7.2 (4.6-11)	5.6 (3.6-8.3)
4	51 (40-63)	38 (29-50)	25 (19-35)	20 (15-28)	16 (12-23)	13 (9.1-18)	9.9 (7.1-14)
5	66 (61-74)	55 (49-63)	40 (35-47)	33 (29-39)	27 (23-32)	21 (18-26)	17 (14-21)
6	78	71	58	50	42	34	28

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	8.1	4.9	3.8	3.0	2.3	1.8
1	22 (16-36)	15 (11-25)	9.6 (7.0-16)	7.5 (5.4-13)	5.8 (4.2-10)	4.5 (3.2-7.8)	3.5 (2.5-6.0)
2	36 (23-52)	26 (16-40)	18 (10-29)	14 (8.1-23)	11 (6.3-18)	8.5 (4.9-14)	6.6 (3.8-11)
3	51 (34-68)	41 (26-57)	30 (18-45)	24 (14-37)	19 (11-30)	15 (8.4-24)	12 (6.5-19)
4	65 (48-76)	58 (40-72)	46 (29-62)	39 (23-54)	32 (19-46)	26 (15-38)	21 (12-31)
5	75 (63-81)	72 (57-79)	64 (46-74)	57 (39-67)	49 (32-59)	41 (25-50)	34 (20-42)
6	82	81	78	73	66	59	51

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	18	13	8.4	6.5	5.0	3.9	3.0
1	29 (22-45)	22 (16-36)	15 (11-26)	12 (8.8-21)	9.4 (6.8-16)	7.3 (5.2-13)	5.6 (4.0-10)
2	41 (30-59)	34 (23-52)	26 (17-41)	21 (13-34)	16 (10-27)	13 (7.8-22)	10 (6.1-17)
3	54 (39-69)	48 (33-64)	40 (24-57)	33 (19-49)	27 (15-41)	22 (12-34)	17 (9.2-28)
4	65 (50-76)	62 (45-73)	55 (37-68)	48 (31-61)	40 (25-53)	34 (20-46)	27 (15-38)
5	74 (62-80)	72 (59-79)	69 (52-77)	62 (45-71)	55 (37-65)	48 (31-57)	41 (25-49)
6	80	80	79	74	69	62	55

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	20	15	11	8.2	6.3	4.9	3.7
1	31 (24-48)	25 (19-40)	19 (14-31)	15 (11-25)	12 (8.3-20)	8.9 (6.3-16)	6.9 (4.9-12)
2	44 (32-62)	38 (26-56)	30 (20-46)	24 (16-39)	20 (12-32)	15 (9.5-26)	12 (7.3-20)
3	56 (42-71)	52 (36-67)	44 (29-61)	37 (23-53)	31 (18-45)	25 (14-38)	20 (11-31)
4	67 (52-77)	64 (47-75)	59 (41-71)	52 (34-64)	44 (28-57)	37 (22-50)	31 (17-42)
5	74 (64-79)	73 (61-79)	71 (56-78)	65 (48-73)	58 (41-67)	51 (34-61)	44 (28-53)
6	77	79	79	75	70	65	58

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	17	13	9.8	7.6	5.8	4.4	3.4
1	27 (20-42)	22 (16-36)	17 (12-29)	13 (9.5-23)	10 (7.3-18)	8.0 (5.5-14)	6.1 (4.2-11)
2	39 (28-56)	33 (23-50)	27 (18-43)	22 (14-36)	17 (11-29)	14 (8.3-23)	11 (6.3-18)
3	51 (37-66)	46 (32-61)	40 (26-55)	33 (20-48)	27 (16-41)	22 (12-34)	17 (9.6-27)
4	62 (47-73)	59 (42-70)	54 (36-66)	47 (30-59)	40 (24-52)	33 (19-44)	27 (15-37)
5	69 (59-73)	69 (56-75)	66 (50-74)	60 (43-68)	53 (36-62)	46 (29-55)	39 (24-48)
6	70	75	75	71	66	59	52