

The US (Black) - 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 US (Black). 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	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	0.6 (0.4-1.2)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
2	1.2 (0.6-2.5)	0.6 (0.3-1.4)	0.3 (0.2-0.7)	0.3 (0.1-0.6)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)
3	2.2 (0.9-4.3)	1.2 (0.5-2.4)	0.7 (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)
4	4.0 (1.6-6.5)	2.2 (0.9-3.6)	1.2 (0.5-2.0)	0.9 (0.4-1.5)	0.7 (0.3-1.2)	0.6 (0.2-0.9)	0.4 (0.2-0.7)
5	7.1 (3.2-9.5)	4.0 (1.8-5.4)	2.2 (1.0-3.0)	1.7 (0.8-2.3)	1.3 (0.6-1.8)	1.0 (0.5-1.4)	0.8 (0.4-1.1)
6	12	7.0	3.9	3.0	2.3	1.8	1.4

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

Age = 55 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 (0.7-1.8)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)	0.1 (0.1-0.2)
2	1.9 (1.0-3.7)	1.1 (0.6-2.1)	0.6 (0.3-1.1)	0.4 (0.2-0.9)	0.3 (0.2-0.7)	0.3 (0.1-0.5)	0.2 (0.1-0.4)
3	3.5 (1.6-6.5)	1.9 (0.9-3.6)	1.1 (0.5-2.0)	0.8 (0.4-1.6)	0.6 (0.3-1.2)	0.5 (0.2-0.9)	0.4 (0.2-0.7)
4	6.1 (2.7-9.7)	3.5 (1.5-5.5)	1.9 (0.8-3.1)	1.5 (0.7-2.4)	1.2 (0.5-1.8)	0.9 (0.4-1.4)	0.7 (0.3-1.1)
5	11 (5.6-14)	6.1 (3.2-8.0)	3.4 (1.8-4.5)	2.6 (1.4-3.5)	2.1 (1.1-2.7)	1.6 (0.8-2.1)	1.2 (0.6-1.7)
6	18	10	5.9	4.6	3.6	2.8	2.2

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.0	0.5	0.3	0.2	0.2	0.1	0.1
1	1.7 (1.3-2.8)	1.0 (0.7-1.5)	0.5 (0.4-0.9)	0.4 (0.3-0.7)	0.3 (0.2-0.5)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
2	3.1 (1.8-5.6)	1.8 (1.0-3.2)	1.0 (0.6-1.8)	0.8 (0.4-1.4)	0.6 (0.3-1.1)	0.5 (0.3-0.8)	0.4 (0.2-0.7)
3	5.5 (2.8-9.6)	3.2 (1.6-5.6)	1.8 (0.9-3.2)	1.4 (0.7-2.5)	1.1 (0.5-1.9)	0.8 (0.4-1.5)	0.6 (0.3-1.1)
4	9.4 (4.9-14)	5.5 (2.8-8.4)	3.1 (1.5-4.8)	2.4 (1.2-3.7)	1.9 (0.9-2.9)	1.4 (0.7-2.2)	1.1 (0.6-1.7)
5	16 (9.6-20)	9.3 (5.6-12)	5.4 (3.2-7.0)	4.2 (2.5-5.4)	3.2 (1.9-4.2)	2.5 (1.5-3.3)	1.9 (1.2-2.6)
6	25	16	9.1	7.1	5.5	4.3	3.3

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.7	1.0	0.5	0.4	0.3	0.3	0.2
1	3.0 (2.2-4.2)	1.7 (1.3-2.4)	1.0 (0.7-1.4)	0.7 (0.6-1.0)	0.6 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.3-0.5)
2	5.1 (3.2-8.2)	3.0 (1.9-4.9)	1.7 (1.1-2.8)	1.3 (0.8-2.2)	1.0 (0.6-1.7)	0.8 (0.5-1.3)	0.6 (0.4-1.0)
3	8.6 (4.8-14)	5.1 (2.8-8.5)	2.9 (1.6-4.9)	2.3 (1.2-3.8)	1.8 (1.0-3.0)	1.4 (0.7-2.3)	1.1 (0.6-1.8)
4	14 (8.4-20)	8.6 (5.0-13)	5.0 (2.8-7.4)	3.9 (2.2-5.8)	3.0 (1.7-4.5)	2.3 (1.3-3.5)	1.8 (1.0-2.7)
5	22 (16-27)	14 (9.7-18)	8.3 (5.8-11)	6.5 (4.5-8.3)	5.1 (3.5-6.5)	3.9 (2.7-5.0)	3.1 (2.1-3.9)
6	33	22	14	11	8.4	6.6	5.1

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	1.8	1.1	0.8	0.6	0.5	0.4
1	5.6 (4.3-6.5)	3.3 (2.6-3.9)	1.9 (1.5-2.2)	1.5 (1.2-1.7)	1.2 (0.9-1.3)	0.9 (0.7-1.0)	0.7 (0.5-0.8)
2	9.7 (6.5-13)	6.0 (4.0-8.1)	3.5 (2.3-4.7)	2.7 (1.8-3.7)	2.1 (1.4-2.8)	1.6 (1.1-2.2)	1.3 (0.8-1.7)
3	17 (11-23)	11 (6.9-15)	6.3 (4.1-9.4)	4.9 (3.2-7.3)	3.8 (2.5-5.7)	3.0 (1.9-4.4)	2.3 (1.5-3.4)
4	27 (19-37)	18 (13-25)	11 (8.0-16)	8.7 (6.3-13)	6.8 (4.9-9.9)	5.3 (3.8-7.7)	4.1 (2.9-6.0)
5	40 (35-48)	29 (25-35)	19 (16-23)	15 (13-18)	12 (10-15)	9.3 (7.8-11)	7.2 (6.1-9.0)
6	56	44	31	25	20	16	12

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.5	3.4	2.0	1.6	1.2	0.9	0.7
1	10 (7.3-18)	6.6 (4.7-11)	4.0 (2.9-6.9)	3.1 (2.2-5.3)	2.4 (1.7-4.1)	1.8 (1.3-3.2)	1.4 (1.0-2.5)
2	18 (11-29)	12 (7.1-20)	7.6 (4.4-13)	5.9 (3.4-10)	4.6 (2.6-8.0)	3.6 (2.0-6.2)	2.8 (1.5-4.8)
3	30 (18-44)	21 (12-33)	14 (7.6-22)	11 (5.9-18)	8.6 (4.6-14)	6.7 (3.5-11)	5.2 (2.7-8.6)
4	44 (28-58)	35 (21-49)	24 (13-36)	19 (10-29)	15 (8.1-23)	12 (6.3-18)	9.4 (4.9-15)
5	59 (42-68)	51 (34-61)	39 (24-48)	32 (19-40)	26 (15-33)	21 (12-26)	17 (9.1-21)
6	71	67	57	49	41	34	28

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.4	5.5	3.4	2.6	2.0	1.6	1.2
1	15 (11-25)	10 (7.4-18)	6.5 (4.8-11)	5.0 (3.7-8.9)	3.9 (2.8-6.9)	3.0 (2.2-5.3)	2.3 (1.7-4.1)
2	24 (16-39)	18 (11-29)	12 (7.2-21)	9.2 (5.5-16)	7.2 (4.3-13)	5.6 (3.3-9.9)	4.3 (2.5-7.7)
3	37 (23-51)	29 (17-43)	20 (11-33)	16 (8.5-26)	13 (6.6-21)	9.9 (5.1-17)	7.7 (3.9-13)
4	50 (33-62)	43 (26-56)	33 (18-45)	27 (14-37)	21 (11-30)	17 (8.8-24)	13 (6.8-19)
5	62 (46-70)	57 (40-66)	48 (31-57)	41 (25-49)	34 (20-41)	27 (15-34)	22 (12-28)
6	72	70	64	57	49	41	34

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.9	6.8	4.3	3.3	2.6	2.0	1.5
1	17 (12-29)	12 (8.9-21)	8.1 (5.9-14)	6.3 (4.5-11)	4.8 (3.5-8.6)	3.7 (2.7-6.7)	2.9 (2.0-5.2)
2	28 (18-43)	21 (13-33)	14 (8.8-24)	11 (6.8-19)	8.8 (5.3-15)	6.8 (4.1-12)	5.3 (3.1-9.3)
3	40 (26-55)	33 (19-48)	24 (13-38)	19 (10-31)	15 (8.1-25)	12 (6.2-20)	9.3 (4.8-16)
4	53 (36-66)	47 (30-60)	38 (22-51)	31 (17-43)	25 (14-35)	20 (11-29)	16 (8.3-23)
5	65 (50-73)	61 (44-70)	53 (35-63)	46 (29-55)	38 (23-47)	32 (18-39)	26 (14-32)
6	74	73	68	61	54	46	38

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.7	6.2	4.1	3.1	2.4	1.8	1.4
1	15 (11-26)	11 (7.9-19)	7.6 (5.5-13)	5.9 (4.2-10)	4.5 (3.2-8.1)	3.5 (2.4-6.3)	2.7 (1.9-4.8)
2	24 (16-39)	19 (12-31)	13 (8.2-23)	10 (6.3-18)	8.1 (4.8-14)	6.3 (3.7-11)	4.8 (2.8-8.4)
3	36 (23-50)	30 (17-44)	22 (12-35)	18 (9.6-28)	14 (7.4-23)	11 (5.7-18)	8.5 (4.4-14)
4	49 (32-61)	43 (26-55)	35 (20-47)	28 (16-39)	23 (12-32)	18 (9.6-26)	14 (7.4-21)
5	61 (45-69)	57 (39-66)	49 (32-59)	42 (26-51)	35 (20-43)	29 (16-36)	23 (12-29)
6	71	69	64	57	49	42	35