

Brazil - 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 Brazil. 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	2.0 (1.0-4.3)	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	3.8 (1.5-7.4)	2.1 (0.8-4.1)	1.1 (0.5-2.2)	0.9 (0.4-1.7)	0.7 (0.3-1.4)	0.5 (0.2-1.1)	0.4 (0.2-0.8)
4	6.9 (2.7-11)	3.8 (1.5-6.2)	2.1 (0.8-3.4)	1.6 (0.6-2.6)	1.3 (0.5-2.1)	1.0 (0.4-1.6)	0.8 (0.3-1.2)
5	12 (5.6-16)	6.8 (3.1-9.1)	3.7 (1.7-5.1)	2.9 (1.3-4.0)	2.3 (1.0-3.1)	1.8 (0.8-2.4)	1.4 (0.6-1.9)
6	21	12	6.6	5.2	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 women from Brazil.

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.8	0.4	0.2	0.2	0.1	0.1	0.1
1	1.5 (1.0-2.6)	0.8 (0.6-1.4)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)
2	2.8 (1.5-5.4)	1.5 (0.8-3.0)	0.8 (0.5-1.7)	0.6 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)	0.3 (0.2-0.6)
3	5.1 (2.3-9.4)	2.8 (1.3-5.3)	1.5 (0.7-2.9)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.6 (0.3-1.1)
4	8.9 (4.0-14)	5.0 (2.2-8.0)	2.8 (1.2-4.4)	2.2 (0.9-3.4)	1.7 (0.7-2.7)	1.3 (0.6-2.1)	1.0 (0.4-1.6)
5	15 (8.2-20)	8.8 (4.7-12)	4.9 (2.6-6.5)	3.8 (2.0-5.1)	3.0 (1.6-4.0)	2.3 (1.2-3.1)	1.8 (0.9-2.4)
6	25	15	8.5	6.7	5.2	4.1	3.2

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.4	0.8	0.4	0.3	0.3	0.2	0.2
1	2.5 (1.8-4.0)	1.4 (1.0-2.2)	0.8 (0.6-1.2)	0.6 (0.4-0.9)	0.5 (0.3-0.7)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
2	4.5 (2.7-8.0)	2.6 (1.5-4.6)	1.4 (0.8-2.6)	1.1 (0.6-2.0)	0.8 (0.5-1.6)	0.7 (0.4-1.2)	0.5 (0.3-0.9)
3	7.9 (4.0-14)	4.5 (2.3-8.0)	2.5 (1.3-4.5)	2.0 (1.0-3.5)	1.5 (0.8-2.7)	1.2 (0.6-2.1)	0.9 (0.5-1.6)
4	13 (7.0-20)	7.8 (4.0-12)	4.4 (2.2-6.8)	3.5 (1.7-5.3)	2.7 (1.3-4.1)	2.1 (1.0-3.2)	1.6 (0.8-2.5)
5	22 (14-28)	13 (8.1-17)	7.6 (4.6-9.9)	6.0 (3.6-7.8)	4.6 (2.8-6.1)	3.6 (2.2-4.7)	2.8 (1.7-3.7)
6	34	22	13	10	7.9	6.2	4.8

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.5	1.4	0.8	0.6	0.5	0.4	0.3
1	4.4 (3.3-6.1)	2.5 (1.9-3.5)	1.4 (1.0-2.0)	1.1 (0.8-1.5)	0.8 (0.6-1.2)	0.7 (0.5-0.9)	0.5 (0.4-0.7)
2	7.4 (4.7-12)	4.3 (2.7-7.1)	2.5 (1.5-4.1)	1.9 (1.2-3.2)	1.5 (0.9-2.5)	1.1 (0.7-1.9)	0.9 (0.6-1.5)
3	12 (7.1-20)	7.4 (4.1-12)	4.2 (2.3-7.1)	3.3 (1.8-5.5)	2.6 (1.4-4.3)	2.0 (1.1-3.3)	1.5 (0.8-2.6)
4	20 (12-28)	12 (7.2-18)	7.2 (4.1-11)	5.6 (3.2-8.3)	4.4 (2.5-6.5)	3.4 (1.9-5.1)	2.6 (1.5-3.9)
5	31 (22-37)	20 (14-25)	12 (8.3-15)	9.4 (6.5-12)	7.3 (5.1-9.3)	5.7 (3.9-7.3)	4.4 (3.0-5.7)
6	45	31	19	15	12	9.5	7.4

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.5	2.6	1.5	1.2	0.9	0.7	0.5
1	7.9 (6.2-9.3)	4.8 (3.8-5.6)	2.8 (2.2-3.2)	2.1 (1.7-2.5)	1.7 (1.3-1.9)	1.3 (1.0-1.5)	1.0 (0.8-1.2)
2	14 (9.2-19)	8.5 (5.7-11)	5.0 (3.3-6.7)	3.9 (2.6-5.2)	3.0 (2.0-4.1)	2.3 (1.6-3.2)	1.8 (1.2-2.5)
3	23 (16-32)	15 (9.8-21)	9.0 (5.8-13)	7.0 (4.5-10)	5.5 (3.5-8.1)	4.2 (2.7-6.3)	3.3 (2.1-4.9)
4	36 (26-47)	25 (18-34)	16 (11-22)	12 (8.9-18)	9.6 (6.9-14)	7.5 (5.4-11)	5.8 (4.2-8.5)
5	51 (45-59)	39 (34-46)	26 (22-31)	21 (18-25)	17 (14-20)	13 (11-16)	10 (8.6-13)
6	66	56	41	34	27	22	17

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.6	4.8	2.9	2.2	1.7	1.3	1.0
1	14 (10-24)	9.3 (6.6-16)	5.7 (4.1-9.7)	4.4 (3.2-7.6)	3.4 (2.4-5.9)	2.6 (1.9-4.6)	2.0 (1.4-3.5)
2	24 (15-37)	17 (9.9-27)	11 (6.2-18)	8.4 (4.8-14)	6.5 (3.7-11)	5.1 (2.9-8.8)	3.9 (2.2-6.8)
3	37 (23-53)	28 (17-42)	19 (11-30)	15 (8.3-24)	12 (6.5-19)	9.4 (5.0-15)	7.3 (3.9-12)
4	52 (35-66)	44 (28-58)	32 (18-46)	26 (15-38)	21 (11-31)	17 (8.9-25)	13 (6.9-20)
5	66 (50-74)	60 (42-69)	49 (32-59)	41 (26-50)	34 (20-42)	28 (16-35)	22 (13-28)
6	76	73	67	59	51	43	36

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	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)	8.9 (6.5-16)	6.9 (5.0-12)	5.4 (3.9-9.5)	4.1 (3.0-7.4)	3.2 (2.3-5.7)
2	30 (20-46)	23 (15-36)	16 (9.8-27)	12 (7.6-21)	9.7 (5.9-17)	7.6 (4.5-13)	5.9 (3.5-10)
3	43 (28-58)	35 (21-51)	26 (15-41)	21 (11-34)	17 (8.9-27)	13 (6.9-22)	10 (5.3-17)
4	55 (38-67)	50 (32-62)	40 (24-54)	34 (19-46)	27 (15-38)	22 (12-31)	17 (9.2-25)
5	67 (52-74)	63 (46-71)	56 (38-65)	49 (31-58)	41 (25-50)	34 (20-42)	28 (16-35)
6	76	74	70	64	57	49	41

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	13	9.3	6.3	4.8	3.7	2.8	2.2
1	21 (15-35)	16 (12-28)	11 (8.3-20)	8.9 (6.4-16)	6.9 (4.9-12)	5.3 (3.8-9.5)	4.1 (2.9-7.4)
2	32 (22-49)	26 (17-41)	20 (12-32)	16 (9.6-26)	12 (7.4-20)	9.5 (5.7-16)	7.3 (4.3-13)
3	45 (30-60)	39 (25-54)	31 (18-46)	25 (14-39)	20 (11-32)	16 (8.6-26)	13 (6.6-21)
4	57 (40-69)	52 (35-65)	45 (28-58)	38 (23-51)	32 (18-43)	26 (14-36)	21 (11-29)
5	68 (54-75)	65 (49-73)	60 (42-69)	53 (35-62)	45 (28-55)	38 (23-47)	31 (18-39)
6	76	75	72	66	60	52	45

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	9.5	6.8	5.2	4.0	3.0	2.3
1	20 (14-33)	16 (11-27)	12 (8.7-21)	9.5 (6.6-17)	7.3 (5.1-13)	5.6 (3.9-10)	4.3 (2.9-7.8)
2	30 (20-47)	26 (17-41)	20 (13-33)	16 (9.9-27)	13 (7.6-21)	9.8 (5.8-17)	7.5 (4.4-13)
3	42 (28-57)	37 (24-52)	31 (19-46)	26 (15-38)	20 (11-31)	16 (8.8-25)	13 (6.8-20)
4	54 (37-66)	50 (33-62)	44 (28-57)	38 (22-50)	31 (17-42)	25 (14-35)	20 (10-29)
5	65 (50-71)	62 (46-70)	58 (41-67)	51 (34-60)	44 (27-53)	37 (22-45)	30 (17-38)
6	71	71	69	64	57	50	43