

Brazil - The probabilities of a major osteoporotic fracture in men

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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	1.8	1.8	1.8	1.6	1.4	1.2	1.0
1	2.8 (1.9-4.2)	2.8 (1.8-3.9)	2.7 (1.8-3.8)	2.4 (1.6-3.3)	2.1 (1.4-2.9)	1.8 (1.2-2.5)	1.6 (1.1-2.2)
2	4.4 (2.4-7.7)	4.3 (2.3-7.5)	4.2 (2.2-7.4)	3.7 (1.9-6.5)	3.2 (1.7-5.7)	2.8 (1.4-5.0)	2.4 (1.3-4.3)
3	6.8 (3.4-12)	6.5 (3.1-12)	6.3 (3.0-12)	5.5 (2.6-10)	4.8 (2.3-8.9)	4.2 (2.0-7.7)	3.6 (1.7-6.8)
4	10 (5.5-17)	9.7 (5.0-16)	9.3 (4.8-15)	8.1 (4.1-14)	7.1 (3.6-12)	6.1 (3.1-10)	5.3 (2.7-9.0)
5	15 (9.4-21)	14 (9.2-19)	14 (9.1-18)	12 (8.0-16)	10 (6.9-14)	8.9 (6.0-12)	7.7 (5.2-11)
6	22	20	19	17	15	13	11

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.8	1.8	1.6	1.4	1.2	1.1
1	3.0 (2.0-4.3)	2.9 (1.9-4.0)	2.8 (1.9-3.8)	2.5 (1.6-3.3)	2.1 (1.4-2.9)	1.9 (1.2-2.5)	1.6 (1.1-2.2)
2	4.6 (2.5-7.7)	4.4 (2.4-7.5)	4.3 (2.3-7.4)	3.7 (2.0-6.5)	3.2 (1.7-5.7)	2.8 (1.5-4.9)	2.4 (1.3-4.3)
3	7.1 (3.7-12)	6.6 (3.4-12)	6.4 (3.2-12)	5.6 (2.7-10)	4.8 (2.4-8.8)	4.2 (2.0-7.6)	3.6 (1.8-6.6)
4	11 (6.0-17)	9.9 (5.4-16)	9.5 (5.1-15)	8.2 (4.3-13)	7.1 (3.7-12)	6.1 (3.2-10)	5.3 (2.7-8.9)
5	16 (9.9-21)	14 (9.5-19)	14 (9.4-19)	12 (8.1-16)	10 (7.0-14)	8.9 (6.1-12)	7.7 (5.3-11)
6	23	21	20	17	15	13	11

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.1	2.0	1.9	1.7	1.4	1.2	1.1
1	3.3 (2.2-4.7)	3.1 (2.1-4.2)	3.0 (2.0-4.0)	2.5 (1.7-3.4)	2.2 (1.5-2.9)	1.9 (1.3-2.5)	1.6 (1.1-2.2)
2	5.1 (3.0-8.0)	4.7 (2.7-7.7)	4.5 (2.5-7.5)	3.9 (2.1-6.5)	3.3 (1.8-5.7)	2.8 (1.6-4.9)	2.5 (1.3-4.3)
3	7.7 (4.5-12)	7.1 (3.9-12)	6.7 (3.5-12)	5.8 (3.0-10)	4.9 (2.5-8.7)	4.2 (2.2-7.5)	3.6 (1.8-6.5)
4	12 (7.1-17)	11 (6.3-16)	9.9 (5.7-16)	8.5 (4.8-14)	7.3 (4.0-12)	6.2 (3.4-10)	5.3 (2.9-8.8)
5	17 (11-22)	15 (10-20)	14 (10-19)	12 (8.5-17)	10 (7.3-14)	9.0 (6.2-12)	7.7 (5.3-11)
6	24	22	20	17	15	13	11

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.4	2.2	2.0	1.7	1.5	1.3	1.1
1	3.8 (2.7-5.2)	3.4 (2.4-4.6)	3.1 (2.2-4.1)	2.6 (1.8-3.5)	2.2 (1.5-3.0)	1.9 (1.3-2.5)	1.6 (1.1-2.2)
2	5.8 (3.7-8.4)	5.2 (3.2-7.8)	4.7 (2.8-7.5)	4.0 (2.3-6.4)	3.4 (2.0-5.5)	2.9 (1.6-4.8)	2.5 (1.4-4.1)
3	8.8 (5.6-12)	7.8 (4.8-12)	7.1 (4.1-12)	6.0 (3.4-9.9)	5.1 (2.8-8.4)	4.3 (2.4-7.2)	3.6 (2.0-6.2)
4	13 (8.5-18)	12 (7.7-17)	11 (6.6-16)	8.8 (5.5-14)	7.5 (4.5-12)	6.3 (3.7-10)	5.3 (3.1-8.5)
5	19 (13-24)	17 (12-22)	15 (11-20)	13 (9.2-17)	11 (7.7-15)	9.1 (6.5-12)	7.7 (5.4-11)
6	26	24	22	18	15	13	11

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	2.8	2.5	2.1	1.8	1.5	1.2
1	4.9 (3.5-6.3)	4.3 (3.1-5.5)	3.8 (2.7-4.9)	3.1 (2.3-4.1)	2.6 (1.9-3.4)	2.2 (1.5-2.9)	1.8 (1.3-2.4)
2	7.7 (4.9-12)	6.6 (4.2-9.7)	5.7 (3.6-8.2)	4.7 (3.0-6.8)	3.9 (2.4-5.7)	3.2 (2.0-4.7)	2.7 (1.7-3.9)
3	12 (7.2-18)	10 (6.4-15)	8.7 (5.5-13)	7.1 (4.5-11)	5.8 (3.7-8.8)	4.8 (3.0-7.3)	3.9 (2.5-6.0)
4	18 (12-25)	15 (10-22)	13 (8.8-19)	11 (7.1-16)	8.8 (5.7-13)	7.2 (4.6-11)	5.9 (3.7-8.9)
5	26 (21-33)	23 (19-30)	20 (16-25)	16 (13-21)	13 (10-17)	11 (8.3-14)	8.7 (6.6-12)
6	36	33	29	24	19	16	13

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.4	3.9	3.5	2.8	2.3	1.9	1.6
1	7.4 (4.9-12)	6.4 (4.4-9.5)	5.4 (3.8-7.3)	4.4 (3.1-5.9)	3.6 (2.5-4.7)	2.9 (2.1-3.7)	2.4 (1.7-3.0)
2	12 (6.9-20)	10 (6.1-16)	8.6 (5.2-13)	6.9 (4.2-10)	5.6 (3.4-8.4)	4.5 (2.7-6.7)	3.6 (2.2-5.4)
3	19 (9.8-30)	16 (8.9-25)	14 (8.0-20)	11 (6.4-16)	8.8 (5.1-13)	7.0 (4.1-11)	5.6 (3.3-8.5)
4	28 (16-39)	25 (14-35)	21 (12-30)	17 (9.9-25)	14 (7.9-20)	11 (6.3-16)	8.7 (5.0-13)
5	38 (25-48)	35 (23-44)	31 (21-39)	26 (17-33)	21 (14-27)	17 (11-22)	13 (8.9-18)
6	50	47	44	37	31	25	20

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.9	5.2	4.6	3.7	3.0	2.4	2.0
1	9.7 (6.6-16)	8.5 (5.8-13)	7.2 (5.1-11)	5.8 (4.1-8.4)	4.7 (3.3-6.7)	3.7 (2.6-5.3)	3.0 (2.1-4.2)
2	15 (9.1-25)	13 (8.2-21)	11 (7.1-17)	9.1 (5.6-14)	7.3 (4.5-11)	5.8 (3.5-8.5)	4.6 (2.8-6.7)
3	23 (13-34)	20 (12-30)	17 (10-25)	14 (8.3-20)	11 (6.5-16)	8.9 (5.2-13)	7.1 (4.1-11)
4	32 (19-44)	29 (17-40)	26 (16-36)	21 (13-29)	17 (10-24)	14 (8.2-19)	11 (6.4-16)
5	43 (28-52)	40 (26-49)	37 (24-45)	30 (20-38)	25 (16-32)	20 (13-26)	16 (10-21)
6	54	51	48	42	35	29	24

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.2	6.4	5.9	4.8	3.8	3.1	2.5
1	12 (8.0-20)	10 (7.1-17)	9.2 (6.4-14)	7.4 (5.1-11)	5.9 (4.0-8.6)	4.7 (3.2-6.8)	3.8 (2.5-5.3)
2	18 (11-30)	16 (10-26)	14 (8.9-22)	11 (7.0-17)	9.0 (5.5-14)	7.2 (4.4-11)	5.7 (3.5-8.6)
3	27 (16-40)	24 (14-36)	21 (13-31)	17 (10-25)	14 (7.8-21)	11 (6.1-17)	8.7 (4.8-13)
4	38 (23-50)	34 (21-45)	31 (19-41)	25 (15-34)	20 (12-29)	16 (9.6-23)	13 (7.6-19)
5	49 (34-58)	46 (31-55)	42 (28-51)	35 (23-44)	29 (19-37)	24 (15-31)	19 (12-25)
6	60	58	54	47	40	34	28

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.8	7.3	7.2	5.8	4.7	3.8	3.0
1	13 (8.6-21)	11 (7.8-18)	11 (7.4-16)	8.7 (5.9-13)	7.0 (4.7-9.9)	5.6 (3.7-7.8)	4.5 (3.0-6.2)
2	19 (12-31)	17 (11-27)	16 (10-24)	13 (8.0-19)	10 (6.3-16)	8.3 (5.0-12)	6.6 (4.0-9.8)
3	28 (17-41)	26 (15-37)	23 (14-34)	19 (11-28)	15 (8.7-23)	12 (6.9-19)	9.8 (5.4-15)
4	39 (24-51)	36 (22-47)	33 (21-43)	27 (17-37)	22 (13-31)	18 (11-25)	14 (8.5-20)
5	50 (35-58)	47 (32-56)	44 (30-53)	37 (25-46)	31 (20-39)	26 (16-33)	21 (13-27)
6	59	58	55	49	42	35	29