

The US (Hispanic) - The probabilities of a major osteoporotic fracture in women

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 the US (Hispanic). 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	2.2	2.1	2.0	1.8	1.5	1.3	1.2
1	3.6 (2.4-5.2)	3.3 (2.2-4.6)	3.1 (2.1-4.3)	2.7 (1.8-3.7)	2.4 (1.6-3.3)	2.1 (1.4-2.8)	1.8 (1.2-2.5)
2	5.7 (3.1-9.4)	5.1 (2.7-8.7)	4.8 (2.5-8.3)	4.2 (2.2-7.3)	3.7 (1.9-6.4)	3.2 (1.7-5.6)	2.8 (1.5-5.0)
3	8.9 (4.4-16)	7.9 (3.8-14)	7.3 (3.5-13)	6.4 (3.0-12)	5.6 (2.6-10)	4.9 (2.3-9.1)	4.3 (2.0-8.0)
4	14 (7.7-22)	12 (6.4-19)	11 (5.7-18)	9.5 (5.0-16)	8.3 (4.3-14)	7.3 (3.8-12)	6.3 (3.3-11)
5	21 (13-27)	18 (12-23)	16 (11-21)	14 (9.5-19)	12 (8.4-16)	11 (7.3-14)	9.3 (6.4-13)
6	31	26	23	20	18	15	13

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.5	3.3	3.1	2.7	2.4	2.1	1.9
1	5.6 (3.9-7.8)	5.1 (3.5-6.9)	4.9 (3.3-6.5)	4.2 (2.9-5.7)	3.7 (2.5-4.9)	3.3 (2.2-4.3)	2.9 (1.9-3.8)
2	8.8 (4.9-14)	7.9 (4.3-13)	7.4 (4.0-12)	6.5 (3.5-11)	5.7 (3.0-9.7)	5.0 (2.6-8.5)	4.3 (2.3-7.5)
3	14 (7.1-23)	12 (6.0-21)	11 (5.5-20)	9.7 (4.7-17)	8.5 (4.1-15)	7.4 (3.6-14)	6.5 (3.1-12)
4	20 (12-31)	18 (10-28)	16 (9.0-26)	14 (7.8-23)	12 (6.8-20)	11 (5.9-18)	9.6 (5.1-16)
5	30 (20-38)	26 (18-33)	23 (17-31)	21 (15-27)	18 (13-24)	16 (11-21)	14 (9.9-19)
6	43	37	33	29	26	23	20

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.9	4.4	4.2	3.7	3.2	2.8	2.5
1	7.7 (5.5-10)	6.9 (4.8-9.1)	6.4 (4.5-8.4)	5.6 (3.9-7.4)	4.9 (3.4-6.4)	4.3 (2.9-5.6)	3.8 (2.6-4.9)
2	12 (7.1-18)	11 (6.0-17)	9.7 (5.4-16)	8.5 (4.7-14)	7.4 (4.1-12)	6.5 (3.6-11)	5.7 (3.1-9.6)
3	18 (10-29)	16 (8.5-26)	14 (7.5-25)	13 (6.5-22)	11 (5.6-19)	9.7 (4.9-17)	8.5 (4.2-15)
4	27 (17-39)	23 (14-35)	21 (12-33)	18 (11-29)	16 (9.2-26)	14 (8.0-23)	12 (6.9-20)
5	39 (28-47)	33 (24-42)	30 (22-38)	26 (19-34)	23 (17-30)	20 (15-27)	18 (13-24)
6	53	46	41	36	32	28	25

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.4	5.6	5.2	4.5	3.9	3.4	3.0
1	10 (7.4-13)	8.7 (6.2-11)	7.9 (5.6-10)	6.9 (4.8-8.8)	6.0 (4.2-7.6)	5.2 (3.6-6.7)	4.5 (3.1-5.9)
2	15 (9.7-22)	13 (7.9-20)	12 (6.9-19)	10 (5.9-16)	9.0 (5.1-14)	7.8 (4.4-13)	6.8 (3.8-11)
3	23 (15-34)	20 (11-31)	17 (9.7-29)	15 (8.3-26)	13 (7.1-23)	12 (6.1-20)	10 (5.3-18)
4	33 (23-46)	28 (19-41)	25 (16-38)	22 (14-33)	19 (12-30)	17 (10-26)	15 (8.7-23)
5	46 (36-55)	40 (31-49)	35 (27-44)	31 (24-39)	27 (21-35)	24 (18-31)	21 (16-27)
6	61	53	48	42	38	33	29

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	8.8	7.3	6.5	5.6	4.8	4.2	3.6
1	14 (10-17)	11 (8.3-14)	9.6 (7.2-12)	8.2 (6.1-11)	7.1 (5.2-9.1)	6.1 (4.5-7.9)	5.3 (3.9-6.8)
2	21 (14-28)	17 (11-23)	14 (9.0-20)	12 (7.7-17)	10 (6.5-15)	8.9 (5.6-13)	7.7 (4.8-11)
3	31 (21-43)	25 (16-36)	21 (13-31)	18 (11-26)	15 (9.3-23)	13 (7.9-20)	11 (6.7-17)
4	45 (34-58)	36 (27-49)	30 (21-41)	25 (18-36)	22 (15-31)	19 (13-27)	16 (11-24)
5	61 (54-69)	51 (44-60)	42 (35-51)	36 (30-44)	31 (25-39)	27 (21-34)	23 (18-29)
6	75	67	57	50	44	38	33

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	10	8.6	7.3	6.2	5.3	4.6
1	20 (15-28)	16 (12-20)	13 (9.6-15)	11 (8.1-13)	9.2 (6.9-11)	7.8 (5.8-9.6)	6.6 (4.9-8.3)
2	31 (20-44)	24 (16-33)	19 (12-25)	16 (10-21)	14 (8.8-18)	11 (7.4-15)	9.7 (6.3-13)
3	46 (31-61)	37 (23-51)	29 (18-41)	24 (15-35)	20 (13-29)	17 (11-25)	14 (9.0-21)
4	61 (45-74)	52 (37-67)	42 (30-56)	36 (25-49)	30 (21-42)	25 (18-36)	21 (15-30)
5	74 (62-81)	68 (55-77)	58 (47-67)	51 (40-60)	44 (35-52)	37 (30-45)	32 (25-39)
6	82	80	74	68	60	53	45

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	18	14	12	10	8.8	7.5	6.4
1	27 (21-39)	22 (17-29)	18 (14-22)	15 (12-18)	13 (9.7-15)	11 (8.2-13)	9.2 (6.9-11)
2	40 (28-54)	33 (22-45)	27 (18-36)	22 (15-30)	19 (13-25)	16 (11-21)	13 (8.8-17)
3	54 (40-68)	46 (33-61)	38 (26-50)	33 (22-44)	28 (18-37)	23 (15-32)	20 (13-27)
4	67 (52-76)	61 (47-73)	53 (39-66)	46 (34-59)	39 (29-51)	33 (24-44)	28 (20-38)
5	76 (65-82)	74 (61-80)	68 (55-76)	61 (49-69)	54 (42-62)	46 (37-55)	40 (31-48)
6	82	82	80	74	68	61	54

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	20	17	14	12	10	8.7	7.3
1	31 (24-44)	25 (19-35)	21 (16-26)	18 (13-22)	15 (11-18)	13 (9.5-15)	11 (7.9-12)
2	44 (31-59)	37 (26-50)	31 (21-41)	26 (18-35)	22 (15-29)	18 (12-24)	15 (10-20)
3	58 (43-71)	51 (37-65)	44 (31-57)	37 (26-49)	32 (21-42)	27 (18-36)	22 (15-31)
4	69 (56-79)	65 (51-76)	58 (44-71)	51 (38-64)	44 (33-57)	38 (28-50)	32 (23-43)
5	78 (68-83)	76 (65-82)	72 (60-79)	65 (53-74)	59 (47-67)	51 (40-60)	45 (35-53)
6	82	83	82	77	72	66	59

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	18	15	13	11	9.4	7.9	6.6
1	28 (21-40)	23 (17-32)	20 (15-25)	16 (12-21)	14 (10-17)	11 (8.5-14)	9.6 (7.0-11)
2	40 (28-55)	34 (23-46)	29 (19-39)	24 (16-32)	20 (13-27)	17 (11-22)	14 (9.1-18)
3	53 (38-67)	47 (33-61)	41 (28-53)	35 (24-46)	29 (20-39)	24 (16-33)	20 (13-28)
4	65 (50-75)	60 (46-72)	54 (41-67)	47 (35-60)	41 (29-53)	35 (24-46)	29 (20-39)
5	74 (63-80)	72 (59-79)	68 (55-76)	61 (48-70)	54 (42-63)	47 (36-56)	41 (30-49)
6	79	80	78	73	67	61	54