

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 the T-score for femoral neck BMD, 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.

Note that the BMI is set at 24 kg/m².

Age = 50 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	9.6	6.4	4.6	3.6	2.9	2.4	2.1	1.9	1.9	1.8	1.7
1	15 (13-19)	9.9 (8.4-12)	7.1 (5.6-8.9)	5.4 (4.0-6.8)	4.4 (3.1-5.7)	3.7 (2.5-4.9)	3.2 (2.1-4.4)	2.9 (1.9-4.0)	2.8 (1.8-3.9)	2.7 (1.7-3.7)	2.6 (1.6-3.6)
2	22 (18-31)	15 (11-21)	11 (7.5-15)	8.1 (5.2-12)	6.5 (3.9-10)	5.5 (3.1-9.1)	4.7 (2.5-8.0)	4.3 (2.3-7.5)	4.1 (2.1-7.2)	4.0 (2.0-6.9)	3.8 (1.9-6.7)
3	32 (23-42)	22 (16-30)	16 (10-24)	12 (6.9-20)	9.6 (5.1-17)	8.0 (4.0-15)	6.9 (3.3-13)	6.3 (2.9-12)	6.0 (2.8-11)	5.7 (2.6-11)	5.5 (2.5-11)
4	44 (31-54)	31 (21-38)	22 (15-30)	17 (11-25)	14 (8.6-21)	11 (6.6-19)	9.8 (5.4-16)	9.0 (4.8-15)	8.5 (4.5-15)	8.2 (4.2-14)	7.9 (4.1-14)
5	59 (48-66)	43 (34-47)	31 (24-37)	24 (18-30)	19 (15-25)	16 (12-22)	14 (10-19)	13 (8.9-18)	12 (8.3-17)	11 (7.8-16)	11 (7.5-16)
6	73	56	42	33	26	22	19	17	16	16	15

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

Age = 55 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	12	8.6	6.5	5.2	4.3	3.6	3.1	2.9	2.7	2.6	2.5
1	18 (16-21)	13 (11-16)	9.8 (7.6-12)	7.7 (5.7-9.8)	6.4 (4.5-8.4)	5.4 (3.7-7.3)	4.6 (3.1-6.4)	4.3 (2.8-6.0)	4.1 (2.6-5.7)	3.9 (2.5-5.4)	3.7 (2.4-5.2)
2	26 (21-34)	19 (14-25)	14 (9.9-20)	11 (7.2-17)	9.3 (5.5-15)	7.9 (4.5-13)	6.8 (3.7-11)	6.3 (3.4-11)	6.0 (3.1-10)	5.6 (2.9-9.6)	5.4 (2.8-9.2)
3	36 (28-47)	27 (19-38)	21 (13-32)	16 (9.5-27)	13 (7.3-23)	11 (5.8-20)	9.7 (4.8-18)	9.1 (4.4-17)	8.6 (4.0-16)	8.1 (3.8-15)	7.7 (3.6-15)
4	49 (36-57)	37 (26-47)	29 (20-39)	23 (16-33)	19 (12-29)	16 (9.5-25)	14 (7.8-22)	13 (7.1-21)	12 (6.5-20)	11 (6.1-19)	11 (5.8-18)
5	63 (54-68)	49 (41-56)	39 (32-46)	31 (25-39)	26 (21-34)	22 (17-30)	19 (14-26)	18 (13-25)	17 (12-23)	16 (11-22)	15 (10-21)
6	76	63	51	42	35	30	26	24	23	21	21

Age = 60 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	14	11	8.1	6.4	5.3	4.4	3.9	3.6	3.3	3.1	2.9
1	21 (18-24)	16 (13-18)	12 (9.3-14)	9.5 (7.0-12)	7.8 (5.5-10)	6.5 (4.5-8.8)	5.7 (3.8-7.9)	5.3 (3.5-7.3)	4.9 (3.2-6.9)	4.6 (3.0-6.5)	4.3 (2.8-6.1)
2	30 (24-38)	22 (17-29)	17 (12-24)	14 (8.9-20)	11 (6.9-17)	9.5 (5.5-15)	8.3 (4.6-13)	7.6 (4.2-13)	7.1 (3.8-12)	6.7 (3.5-11)	6.2 (3.3-10)
3	41 (32-53)	31 (22-44)	24 (16-37)	19 (12-31)	16 (9.0-27)	13 (7.1-23)	12 (6.0-21)	11 (5.4-20)	10 (4.9-19)	9.5 (4.5-17)	8.9 (4.2-16)
4	53 (41-63)	42 (31-53)	33 (24-45)	27 (19-39)	22 (15-34)	19 (12-29)	16 (9.7-26)	15 (8.7-25)	14 (7.9-23)	13 (7.3-22)	12 (6.8-21)
5	67 (60-72)	54 (47-61)	44 (37-52)	36 (30-45)	30 (25-39)	25 (20-34)	22 (17-30)	21 (15-29)	19 (14-27)	18 (13-25)	17 (12-24)
6	79	67	56	47	40	34	30	28	26	24	23

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

Age = 65 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	16	12	9.3	7.4	5.9	4.9	4.3	3.9	3.6	3.3	3.1
1	23 (20-26)	18 (15-20)	14 (11-16)	11 (8.1-14)	8.7 (6.3-11)	7.1 (5.0-9.6)	6.4 (4.3-8.7)	5.8 (3.9-8.0)	5.3 (3.5-7.4)	4.9 (3.2-6.9)	4.5 (2.9-6.4)
2	32 (27-40)	25 (19-32)	19 (14-26)	15 (10-22)	12 (7.8-19)	10 (6.1-16)	9.2 (5.3-14)	8.3 (4.6-13)	7.6 (4.2-12)	7.0 (3.8-11)	6.5 (3.5-11)
3	44 (35-55)	34 (25-47)	27 (18-39)	21 (14-33)	17 (10-29)	14 (8.0-24)	13 (6.9-22)	12 (6.0-21)	11 (5.4-19)	9.9 (4.9-18)	9.2 (4.5-17)
4	56 (45-65)	45 (35-56)	36 (27-48)	29 (22-41)	24 (17-35)	20 (13-31)	18 (11-28)	16 (9.7-26)	15 (8.6-24)	14 (7.8-23)	13 (7.1-21)
5	68 (63-74)	57 (51-64)	47 (41-55)	39 (33-48)	32 (27-41)	27 (21-35)	24 (18-32)	22 (16-30)	20 (14-28)	19 (13-26)	17 (12-24)
6	79	69	59	50	42	35	32	29	27	25	23

Age = 70 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	19	14	11	8.4	6.6	5.5	4.8	4.3	3.8	3.5	3.1
1	27 (23-31)	20 (17-24)	15 (12-18)	12 (9.3-14)	9.3 (7.1-11)	7.7 (5.7-8.9)	6.7 (4.9-7.8)	5.9 (4.3-7.0)	5.3 (3.8-6.3)	4.8 (3.4-5.7)	4.3 (3.0-5.2)
2	38 (30-47)	29 (22-37)	22 (16-28)	17 (12-22)	13 (9.0-17)	11 (7.1-14)	9.2 (6.0-12)	8.1 (5.2-11)	7.2 (4.5-10)	6.5 (4.0-9.0)	5.9 (3.6-8.2)
3	51 (39-63)	39 (29-51)	30 (21-41)	23 (16-33)	18 (12-27)	15 (9.4-22)	13 (7.8-19)	11 (6.7-17)	9.8 (5.9-15)	8.8 (5.2-14)	7.9 (4.6-13)
4	65 (54-73)	52 (42-61)	41 (32-51)	32 (24-41)	25 (19-33)	20 (15-28)	17 (12-24)	15 (11-22)	13 (9.3-20)	12 (8.2-18)	11 (7.3-16)
5	77 (71-81)	66 (59-71)	54 (47-60)	43 (37-49)	34 (29-40)	27 (23-34)	23 (20-29)	20 (17-26)	18 (15-23)	16 (13-21)	14 (12-19)
6	86	79	68	56	45	37	31	26	23	20	18

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

Age = 75 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	22	16	13	9.6	7.5	6.3	5.4	4.7	4.1	3.6	3.2
1	32 (27-48)	25 (20-36)	19 (15-27)	14 (11-19)	11 (8.3-14)	8.9 (6.7-11)	7.5 (5.6-8.7)	6.4 (4.8-7.5)	5.5 (4.1-6.6)	4.8 (3.6-5.8)	4.3 (3.1-5.2)
2	46 (34-65)	36 (26-53)	28 (19-41)	21 (14-31)	16 (11-23)	13 (8.6-18)	10 (7.0-14)	8.8 (5.9-12)	7.5 (5.0-10)	6.5 (4.3-9.1)	5.6 (3.8-8.1)
3	61 (44-76)	50 (34-65)	39 (25-53)	30 (19-42)	23 (14-32)	18 (11-26)	15 (9.2-21)	12 (7.7-17)	10 (6.5-14)	8.6 (5.6-12)	7.4 (4.9-10)
4	75 (57-84)	65 (45-76)	54 (35-64)	43 (27-52)	33 (21-41)	26 (17-33)	21 (14-27)	17 (12-22)	14 (10-18)	12 (8.7-16)	9.8 (7.3-13)
5	84 (71-88)	78 (61-83)	69 (50-74)	57 (40-63)	46 (31-51)	36 (26-41)	29 (22-34)	23 (18-28)	19 (16-23)	16 (13-19)	13 (11-16)
6	89	86	81	72	60	50	40	32	26	21	18

Age = 80 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	25	20	15	12	9.5	8.0	6.8	5.8	5.0	4.3	3.8
1	37 (30-53)	29 (23-42)	22 (18-32)	17 (13-24)	14 (10-18)	11 (8.5-14)	9.4 (7.1-12)	7.9 (5.9-9.3)	6.8 (5.0-7.9)	5.8 (4.3-6.8)	5.0 (3.7-6.0)
2	50 (38-68)	40 (30-58)	32 (23-47)	25 (17-37)	20 (14-29)	16 (11-23)	13 (9.0-18)	11 (7.4-15)	9.2 (6.2-12)	7.8 (5.3-10)	6.7 (4.5-9.1)
3	63 (48-77)	54 (38-69)	44 (30-58)	35 (23-47)	28 (18-37)	23 (14-31)	18 (12-25)	15 (9.7-21)	13 (8.1-17)	11 (6.9-14)	8.9 (5.9-12)
4	75 (58-83)	67 (48-77)	58 (39-68)	48 (31-57)	39 (24-47)	32 (20-39)	26 (17-32)	21 (14-27)	17 (12-22)	14 (10-19)	12 (8.8-16)
5	83 (71-87)	78 (62-83)	71 (53-76)	61 (44-67)	52 (36-57)	43 (30-48)	35 (25-40)	29 (21-34)	24 (18-28)	19 (16-23)	16 (14-20)
6	87	85	81	74	65	56	48	39	32	26	22

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

Age = 85 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	25	20	15	12	9.9	8.3	7.0	6.0	5.1	4.3	3.7
1	35 (29-50)	28 (22-40)	22 (17-32)	17 (13-25)	14 (11-20)	12 (9.0-16)	9.9 (7.4-13)	8.3 (6.2-10)	7.0 (5.2-8.3)	5.9 (4.4-6.8)	5.0 (3.7-5.8)
2	48 (36-65)	39 (29-56)	32 (23-46)	25 (18-37)	20 (14-30)	17 (12-25)	14 (9.5-20)	12 (7.8-16)	9.7 (6.5-13)	8.1 (5.4-11)	6.8 (4.6-8.9)
3	61 (46-74)	52 (37-66)	43 (29-57)	35 (23-47)	29 (19-39)	24 (15-33)	20 (13-27)	16 (10-22)	13 (8.6-19)	11 (7.1-15)	9.3 (6.0-13)
4	72 (56-81)	65 (47-75)	56 (38-67)	47 (31-57)	40 (25-49)	33 (21-41)	28 (18-34)	23 (15-29)	19 (12-24)	15 (10-20)	13 (8.9-17)
5	81 (68-85)	76 (60-81)	69 (52-75)	61 (43-67)	53 (37-59)	45 (31-51)	38 (26-43)	32 (22-36)	26 (19-30)	21 (16-25)	18 (14-21)
6	86	83	79	73	66	59	51	43	36	30	24

Age = 90 years

Number of CRFs	BMD T-score (femoral neck)										
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0	0.5	1.0
0	20	16	12	9.8	8.3	6.9	5.8	4.9	4.1	3.5	2.9
1	28 (22-40)	22 (17-32)	18 (14-26)	14 (11-21)	12 (9.0-17)	10 (7.4-14)	8.3 (6.2-11)	6.9 (5.1-9.1)	5.8 (4.3-7.4)	4.9 (3.6-6.1)	4.1 (3.0-5.0)
2	38 (28-54)	32 (23-45)	25 (18-38)	21 (14-31)	17 (12-26)	14 (9.7-21)	12 (8.0-18)	9.9 (6.6-14)	8.3 (5.5-12)	6.9 (4.6-9.7)	5.7 (3.8-8.0)
3	50 (36-64)	43 (29-56)	36 (23-48)	29 (19-40)	25 (16-34)	21 (13-28)	17 (11-24)	14 (8.8-20)	12 (7.3-16)	9.8 (6.1-14)	8.1 (5.0-11)
4	62 (45-72)	55 (38-65)	47 (31-57)	40 (25-50)	34 (21-43)	29 (18-36)	24 (15-31)	20 (13-26)	17 (10-22)	14 (8.8-18)	11 (7.3-15)
5	73 (57-78)	67 (50-73)	60 (42-66)	53 (36-59)	46 (31-52)	40 (26-45)	34 (22-39)	29 (19-33)	24 (16-28)	20 (13-23)	16 (11-19)
6	81	77	72	66	60	53	46	40	34	28	23