

Venezuela - 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 Venezuela. 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	4.8	3.0	2.0	1.5	1.1	0.9	0.8	0.7	0.7	0.7	0.6	
1	7.5 (6.5-9.6)	4.7 (4.1-6.0)	3.1 (2.6-4.0)	2.3 (1.8-2.9)	1.8 (1.3-2.2)	1.4 (1.0-1.9)	1.2 (0.8-1.6)	1.1 (0.7-1.5)	1.0 (0.7-1.5)	1.0 (0.6-1.4)	1.0 (0.6-1.4)	
2	11 (8.7-17)	7.2 (5.6-10)	4.8 (3.5-6.9)	3.5 (2.3-5.1)	2.7 (1.6-4.2)	2.2 (1.2-3.5)	1.8 (1.0-3.1)	1.6 (0.9-2.8)	1.6 (0.8-2.7)	1.5 (0.8-2.6)	1.4 (0.7-2.5)	
3	17 (12-24)	11 (7.6-15)	7.2 (4.9-11)	5.2 (3.2-8.3)	3.9 (2.2-6.8)	3.2 (1.6-5.8)	2.7 (1.3-5.0)	2.4 (1.1-4.6)	2.3 (1.0-4.4)	2.2 (1.0-4.2)	2.1 (0.9-4.1)	
4	25 (17-34)	16 (10-20)	11 (6.9-14)	7.6 (4.9-11)	5.8 (3.7-8.8)	4.6 (2.8-7.5)	3.9 (2.2-6.4)	3.5 (1.9-5.9)	3.3 (1.7-5.7)	3.1 (1.6-5.4)	3.0 (1.5-5.2)	
5	36 (28-44)	23 (18-27)	16 (12-18)	11 (8.2-13)	8.3 (6.2-11)	6.6 (4.9-8.9)	5.5 (4.1-7.7)	4.9 (3.5-7.0)	4.6 (3.2-6.7)	4.4 (3.0-6.4)	4.2 (2.8-6.1)	
6	49	33	22	16	12	9.3	7.7	6.9	6.5	6.2	5.9	

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

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	5.8	3.9	2.7	2.0	1.6	1.3	1.1	1.0	0.9	0.9	0.8
1	9.0 (8.0-11)	5.9 (5.2-7.2)	4.1 (3.4-5.0)	3.1 (2.4-3.7)	2.4 (1.7-3.0)	1.9 (1.4-2.5)	1.6 (1.1-2.2)	1.5 (1.0-2.0)	1.4 (0.9-1.9)	1.3 (0.8-1.8)	1.2 (0.8-1.7)
2	14 (11-19)	8.9 (7.1-12)	6.2 (4.7-8.6)	4.6 (3.2-6.6)	3.5 (2.2-5.4)	2.9 (1.7-4.6)	2.4 (1.3-4.0)	2.2 (1.2-3.7)	2.0 (1.1-3.5)	1.9 (1.0-3.3)	1.8 (0.9-3.1)
3	20 (14-26)	13 (9.7-18)	9.2 (6.4-14)	6.8 (4.3-11)	5.2 (3.0-8.8)	4.2 (2.2-7.4)	3.5 (1.8-6.4)	3.2 (1.5-5.9)	3.0 (1.4-5.6)	2.8 (1.3-5.3)	2.6 (1.2-5.1)
4	28 (20-36)	19 (13-23)	13 (9.0-18)	9.8 (6.6-14)	7.5 (5.1-11)	6.0 (3.8-9.6)	5.0 (2.9-8.2)	4.6 (2.5-7.7)	4.2 (2.3-7.2)	4.0 (2.1-6.8)	3.8 (2.0-6.5)
5	39 (32-46)	27 (22-31)	19 (15-22)	14 (11-17)	11 (8.3-14)	8.6 (6.7-11)	7.1 (5.4-9.8)	6.4 (4.6-9.0)	6.0 (4.1-8.5)	5.6 (3.8-8.0)	5.3 (3.5-7.6)
6	53	37	27	20	15	12	9.9	8.9	8.3	7.7	7.3

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	7.6	5.2	3.7	2.8	2.2	1.8	1.5	1.4	1.3	1.2	1.1
1	11 (10-13)	7.8 (6.9-9.1)	5.6 (4.7-6.6)	4.2 (3.3-5.0)	3.3 (2.4-4.1)	2.6 (1.9-3.5)	2.2 (1.5-3.0)	2.0 (1.4-2.8)	1.9 (1.2-2.6)	1.7 (1.1-2.5)	1.6 (1.0-2.3)
2	17 (14-22)	12 (9.4-15)	8.3 (6.3-11)	6.2 (4.3-8.8)	4.8 (3.1-7.2)	3.9 (2.3-6.1)	3.3 (1.9-5.3)	3.0 (1.6-4.9)	2.7 (1.5-4.6)	2.5 (1.3-4.3)	2.4 (1.2-4.0)
3	24 (18-30)	17 (13-23)	12 (8.5-18)	9.0 (5.8-14)	7.0 (4.2-12)	5.6 (3.1-9.7)	4.8 (2.5-8.5)	4.3 (2.2-7.9)	4.0 (1.9-7.3)	3.7 (1.7-6.9)	3.4 (1.6-6.4)
4	34 (25-40)	24 (17-29)	17 (12-23)	13 (9.0-18)	10 (6.9-15)	8.0 (5.2-12)	6.8 (4.1-11)	6.1 (3.5-10)	5.6 (3.1-9.4)	5.2 (2.8-8.8)	4.8 (2.6-8.3)
5	45 (39-51)	33 (28-36)	24 (20-28)	18 (15-22)	14 (11-18)	11 (9.0-15)	9.5 (7.2-13)	8.5 (6.2-12)	7.8 (5.5-11)	7.2 (4.9-10)	6.8 (4.5-9.7)
6	58	44	33	25	19	15	13	12	11	9.9	9.3

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

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	9.4	6.6	4.8	3.6	2.8	2.2	1.9	1.7	1.6	1.4	1.3
1	14 (13-16)	9.7 (8.5-11)	7.1 (5.9-8.0)	5.3 (4.2-6.4)	4.1 (3.1-5.2)	3.3 (2.4-4.3)	2.9 (2.0-3.9)	2.6 (1.7-3.5)	2.3 (1.5-3.2)	2.1 (1.4-3.0)	1.9 (1.3-2.8)
2	20 (17-25)	14 (12-18)	10 (7.9-13)	7.8 (5.6-11)	6.0 (4.0-8.8)	4.8 (3.0-7.3)	4.2 (2.5-6.5)	3.7 (2.1-6.0)	3.4 (1.9-5.5)	3.1 (1.7-5.1)	2.8 (1.5-4.7)
3	28 (22-34)	20 (16-26)	15 (11-21)	11 (7.5-17)	8.6 (5.4-14)	6.9 (4.0-12)	6.0 (3.3-10)	5.3 (2.8-9.5)	4.8 (2.4-8.7)	4.4 (2.2-8.0)	4.0 (2.0-7.4)
4	37 (29-43)	28 (21-34)	21 (15-27)	16 (11-22)	12 (8.8-18)	9.7 (6.6-15)	8.4 (5.3-13)	7.5 (4.5-12)	6.7 (3.9-11)	6.2 (3.5-10)	5.7 (3.1-9.5)
5	49 (43-53)	37 (32-41)	28 (24-33)	21 (18-26)	17 (14-21)	13 (11-18)	12 (8.9-16)	10 (7.6-14)	9.3 (6.6-13)	8.5 (5.9-12)	7.8 (5.3-11)
6	61	48	37	29	23	18	16	14	13	12	11

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	12	8.3	6.1	4.6	3.5	2.8	2.4	2.1	1.9	1.7	1.5
1	17 (15-21)	12 (11-15)	9.0 (7.4-11)	6.7 (5.3-7.9)	5.1 (3.9-6.0)	4.0 (3.1-4.7)	3.4 (2.5-4.0)	3.0 (2.2-3.5)	2.6 (1.9-3.1)	2.3 (1.6-2.8)	2.1 (1.5-2.5)
2	25 (20-32)	18 (14-24)	13 (10-17)	9.7 (7.1-13)	7.3 (5.2-9.7)	5.7 (3.9-7.7)	4.8 (3.2-6.5)	4.1 (2.7-5.6)	3.6 (2.3-4.9)	3.2 (2.0-4.4)	2.9 (1.8-4.0)
3	36 (28-46)	26 (19-35)	19 (14-26)	14 (9.6-20)	10 (6.9-15)	8.1 (5.2-12)	6.8 (4.2-10)	5.7 (3.5-8.9)	5.0 (3.0-7.8)	4.4 (2.6-7.0)	3.9 (2.3-6.3)
4	49 (39-57)	37 (29-44)	27 (21-34)	20 (15-26)	15 (11-20)	11 (8.3-16)	9.4 (6.8-13)	7.9 (5.6-12)	6.8 (4.8-10)	6.0 (4.1-9.0)	5.3 (3.6-8.1)
5	63 (55-67)	50 (42-54)	38 (32-42)	28 (23-32)	21 (17-25)	16 (13-20)	13 (11-16)	11 (9.0-14)	9.2 (7.7-12)	8.0 (6.7-11)	7.1 (5.8-9.6)
6	75	64	51	39	29	23	18	15	13	11	9.4

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

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	14	10	7.7	5.8	4.4	3.6	3.0	2.6	2.3	2.0	1.8
1	22 (18-36)	16 (13-26)	12 (9.3-19)	8.8 (6.7-13)	6.6 (5.0-9.4)	5.3 (3.9-7.0)	4.3 (3.2-5.4)	3.6 (2.7-4.3)	3.1 (2.3-3.6)	2.7 (1.9-3.1)	2.3 (1.7-2.8)
2	34 (24-51)	25 (17-39)	19 (12-29)	14 (9.0-21)	9.9 (6.6-15)	7.8 (5.1-11)	6.2 (4.1-8.9)	5.1 (3.3-6.9)	4.3 (2.8-5.6)	3.6 (2.4-4.9)	3.1 (2.0-4.4)
3	47 (32-63)	37 (23-51)	28 (17-39)	21 (12-29)	15 (8.8-22)	12 (6.8-17)	9.1 (5.5-13)	7.2 (4.4-10)	5.9 (3.7-8.4)	4.9 (3.1-7.0)	4.2 (2.7-5.9)
4	62 (42-73)	51 (32-62)	40 (24-50)	30 (18-38)	22 (13-29)	17 (10-22)	13 (8.3-17)	10 (6.8-14)	8.3 (5.7-11)	6.8 (4.9-9.2)	5.6 (4.2-7.7)
5	74 (56-80)	65 (45-71)	54 (35-60)	43 (27-48)	33 (20-37)	25 (16-29)	19 (13-23)	15 (11-18)	12 (8.9-14)	9.4 (7.6-12)	7.7 (6.6-9.6)
6	82	77	68	58	46	36	28	22	17	13	11

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	16	12	9.3	7.1	5.6	4.6	3.9	3.3	2.8	2.5	2.1
1	24 (19-39)	19 (14-30)	14 (11-22)	11 (8.0-16)	8.3 (6.2-12)	6.7 (5.0-9.4)	5.5 (4.1-7.3)	4.6 (3.4-5.8)	3.9 (2.8-4.7)	3.3 (2.4-3.8)	2.8 (2.0-3.3)
2	35 (25-52)	27 (19-42)	21 (14-33)	16 (11-25)	12 (8.2-19)	9.8 (6.5-15)	7.9 (5.3-12)	6.5 (4.3-9.2)	5.4 (3.5-7.4)	4.5 (3.0-6.0)	3.8 (2.5-5.0)
3	47 (32-62)	38 (25-53)	30 (19-42)	23 (14-33)	18 (11-25)	14 (8.7-20)	11 (7.0-16)	9.2 (5.7-13)	7.5 (4.7-10)	6.2 (3.9-8.6)	5.2 (3.3-7.2)
4	60 (41-70)	51 (33-62)	42 (25-52)	33 (19-42)	26 (15-33)	21 (12-26)	16 (10-21)	13 (8.2-17)	11 (6.9-14)	8.5 (5.8-11)	7.0 (4.9-9.4)
5	70 (52-76)	63 (44-69)	54 (35-60)	45 (28-51)	36 (22-41)	29 (18-34)	23 (15-27)	19 (12-22)	15 (10-18)	12 (8.7-15)	9.6 (7.5-12)
6	79	73	66	58	48	40	33	26	21	17	13

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

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	18	14	11	8.8	7.3	6.1	5.2	4.4	3.8	3.3	2.8
1	26 (19-39)	20 (15-31)	16 (12-25)	13 (9.2-19)	10 (7.5-15)	8.7 (6.2-12)	7.3 (5.2-9.9)	6.1 (4.3-8.0)	5.2 (3.7-6.5)	4.4 (3.1-5.4)	3.8 (2.7-4.4)
2	35 (25-49)	29 (20-41)	23 (16-34)	18 (12-27)	15 (9.9-22)	12 (8.2-18)	10 (6.7-15)	8.5 (5.6-12)	7.1 (4.7-9.9)	6.0 (3.9-8.1)	5.1 (3.3-6.7)
3	45 (32-59)	38 (26-51)	32 (21-43)	26 (16-35)	21 (13-29)	17 (11-24)	14 (8.9-20)	12 (7.4-17)	9.9 (6.2-14)	8.2 (5.2-12)	6.9 (4.4-9.6)
4	56 (40-66)	49 (33-59)	42 (27-52)	35 (22-44)	29 (18-37)	24 (15-31)	20 (13-26)	17 (11-22)	14 (8.9-18)	11 (7.5-15)	9.4 (6.4-13)
5	66 (49-72)	60 (42-66)	53 (35-59)	45 (29-52)	39 (24-45)	33 (21-39)	28 (18-33)	23 (15-28)	19 (13-23)	16 (11-19)	13 (9.3-16)
6	74	69	63	56	50	43	37	31	26	22	18

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	19	15	12	10	8.6	7.4	6.3	5.4	4.7	4.0	3.5
1	25 (19-37)	21 (15-31)	17 (12-26)	14 (10-21)	12 (8.5-18)	10 (7.2-15)	8.8 (6.1-12)	7.5 (5.2-10)	6.4 (4.4-8.6)	5.5 (3.8-7.1)	4.7 (3.2-5.9)
2	33 (24-46)	28 (20-40)	24 (16-33)	20 (13-28)	17 (11-24)	14 (9.4-21)	12 (7.9-17)	10 (6.7-15)	8.8 (5.7-12)	7.5 (4.8-10)	6.4 (4.1-8.7)
3	43 (30-54)	37 (25-48)	31 (21-42)	27 (17-36)	23 (15-31)	20 (12-27)	17 (10-23)	14 (8.9-20)	12 (7.5-17)	10 (6.4-14)	8.7 (5.4-12)
4	52 (37-62)	46 (32-56)	41 (27-50)	35 (23-44)	31 (19-39)	27 (17-34)	23 (14-30)	20 (12-25)	17 (10-22)	14 (8.9-19)	12 (7.6-16)
5	62 (45-68)	56 (39-63)	50 (34-57)	45 (29-52)	40 (25-47)	35 (22-42)	31 (19-37)	27 (17-32)	23 (14-28)	19 (12-24)	16 (11-20)
6	70	66	60	55	50	45	40	35	30	26	22