Venezuela - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip 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	3.4	1.7	0.9	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
1	5.4 (3.5-7.1)	2.8 (1.8-3.7)	1.4 (0.9-1.9)	0.7 (0.5-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	8.6 (5.0-13)	4.5 (2.6-6.8)	2.3 (1.3-3.5)	1.2 (0.7-1.8)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
3	13 (7.5-21)	7.0 (3.9-11)	3.6 (2.0-6.0)	1.9 (1.0-3.1)	1.0 (0.5-1.6)	0.5 (0.3-0.8)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
4	20 (13-30)	11 (6.7-17)	5.7 (3.5-9.0)	2.9 (1.8-4.7)	1.5 (0.9-2.4)	0.8 (0.5-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
5	29 (22-40)	16 (12-23)	8.7 (6.4-13)	4.5 (3.3-6.6)	2.3 (1.7-3.4)	1.2 (0.9-1.8)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
6	42	24	13	6.9	3.6	1.9	0.9	0.5	0.3	0.1	0.1

FRAX® WHO Fracture Risk Assessment Tool

Ten year probability of hip 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	3.9	2.1	1.1	0.6	0.3	0.2	0.1	0.1	0.0	0.0	0.0
1	6.1 (4.1-7.5)	3.3 (2.2-4.1)	1.8 (1.2-2.2)	1.0 (0.6-1.2)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	9.5 (5.8-14)	5.2 (3.1-7.6)	2.8 (1.7-4.1)	1.5 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	14 (8.7-22)	8.1 (4.8-13)	4.4 (2.6-7.0)	2.4 (1.4-3.8)	1.3 (0.8-2.1)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
4	21 (14-32)	12 (8.1-19)	6.8 (4.4-10)	3.7 (2.4-5.8)	2.0 (1.3-3.1)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	31 (25-42)	18 (14-25)	10 (8.1-15)	5.7 (4.4-8.1)	3.1 (2.4-4.4)	1.7 (1.3-2.4)	0.9 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
6	43	26	15	8.5	4.7	2.5	1.4	0.8	0.4	0.2	0.1

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	4.8	2.7	1.5	0.8	0.5	0.3	0.2	0.1	0.1	0.0	0.0
1	7.4 (5.0-8.7)	4.2 (2.8-4.9)	2.3 (1.6-2.8)	1.3 (0.9-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	11 (7.1-15)	6.4 (4.0-8.8)	3.6 (2.3-5.0)	2.0 (1.3-2.8)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
3	17 (11-24)	9.7 (6.0-14)	5.5 (3.4-8.4)	3.1 (1.9-4.8)	1.8 (1.1-2.7)	1.0 (0.6-1.5)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	24 (17-34)	14 (10-21)	8.3 (5.8-12)	4.8 (3.3-7.2)	2.7 (1.8-4.1)	1.5 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	34 (29-45)	21 (18-29)	12 (10-17)	7.1 (5.8-10)	4.0 (3.3-5.8)	2.3 (1.9-3.3)	1.3 (1.0-1.9)	0.8 (0.6-1.1)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
6	46	30	18	11	6.0	3.4	2.0	1.1	0.7	0.4	0.2

Ten year probability of hip 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	5.7	3.3	1.9	1.1	0.6	0.4	0.2	0.1	0.1	0.1	0.0
1	8.5 (5.9-10)	5.0 (3.5-6.0)	3.0 (2.0-3.5)	1.7 (1.2-2.1)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	13 (8.3-16)	7.6 (4.9-9.9)	4.5 (2.9-5.9)	2.6 (1.7-3.5)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	18 (12-26)	11 (7.4-16)	6.7 (4.4-9.6)	4.0 (2.6-5.7)	2.3 (1.5-3.4)	1.3 (0.9-2.0)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	26 (20-36)	16 (12-23)	9.9 (7.2-14)	5.9 (4.3-8.6)	3.5 (2.5-5.1)	2.0 (1.5-3.0)	1.2 (0.9-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
5	36 (31-46)	23 (20-31)	14 (12-20)	8.7 (7.1-12)	5.1 (4.2-7.2)	3.0 (2.5-4.2)	1.8 (1.5-2.6)	1.1 (0.9-1.5)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
6	48	32	21	13	7.5	4.4	2.7	1.6	1.0	0.6	0.4

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	7.0	4.3	2.6	1.6	1.0	0.6	0.4	0.2	0.2	0.1	0.1
1	11 (9.8-14)	7.1 (6.1-9.0)	4.4 (3.7-5.6)	2.7 (2.3-3.4)	1.6 (1.4-2.1)	1.0 (0.8-1.3)	0.6 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	18 (15-24)	12 (9.1-16)	7.2 (5.6-9.8)	4.4 (3.4-6.1)	2.7 (2.1-3.7)	1.7 (1.3-2.3)	1.1 (0.8-1.5)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	28 (21-35)	18 (14-24)	12 (8.6-15)	7.3 (5.3-9.7)	4.5 (3.2-6.0)	2.8 (2.0-3.8)	1.8 (1.3-2.4)	1.1 (0.8-1.5)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
4	41 (32-48)	28 (21-34)	19 (14-23)	12 (8.6-15)	7.3 (5.3-9.1)	4.6 (3.3-5.8)	2.9 (2.1-3.7)	1.8 (1.3-2.3)	1.2 (0.8-1.5)	0.7 (0.5-0.9)	0.5 (0.3-0.6)
5	56 (48-61)	41 (34-46)	28 (23-32)	19 (15-21)	12 (9.3-14)	7.5 (5.8-8.6)	4.8 (3.7-5.6)	3.1 (2.4-3.5)	1.9 (1.5-2.3)	1.2 (0.9-1.4)	0.8 (0.6-0.9)
6	71	56	41	28	19	12	7.8	5.0	3.2	2.0	1.3

Ten year probability of hip 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	8.7	5.6	3.6	2.3	1.5	1.0	0.6	0.4	0.3	0.2	0.1
1	16 (12-32)	11 (7.9-22)	7.1 (5.1-15)	4.6 (3.3-9.7)	2.9 (2.1-6.2)	1.9 (1.4-4.1)	1.3 (0.9-2.7)	0.8 (0.6-1.8)	0.6 (0.4-1.2)	0.4 (0.3-0.8)	0.2 (0.2-0.5)
2	27 (17-47)	19 (11-34)	13 (7.2-24)	8.4 (4.6-16)	5.5 (3.0-11)	3.7 (1.9-7.2)	2.4 (1.3-4.8)	1.6 (0.8-3.2)	1.1 (0.6-2.1)	0.7 (0.4-1.4)	0.5 (0.2-0.9)
3	42 (24-59)	31 (16-46)	22 (11-34)	15 (7.0-24)	9.8 (4.5-16)	6.6 (3.0-11)	4.4 (2.0-7.6)	2.9 (1.3-5.1)	2.0 (0.9-3.4)	1.3 (0.6-2.3)	0.9 (0.4-1.5)
4	57 (35-69)	46 (24-58)	34 (17-45)	24 (11-33)	17 (7.1-23)	11 (4.8-16)	7.7 (3.2-11)	5.2 (2.1-7.7)	3.5 (1.4-5.2)	2.3 (0.9-3.4)	1.5 (0.6-2.3)
5	71 (49-77)	61 (37-67)	49 (26-56)	37 (18-43)	27 (12-31)	19 (8.1-22)	13 (5.4-16)	8.9 (3.7-11)	6.0 (2.4-7.3)	4.0 (1.6-4.9)	2.7 (1.1-3.3)
6	81	75	65	53	40	30	21	15	10	6.8	4.6

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	9.5	6.5	4.4	3.0	2.0	1.4	1.0	0.7	0.5	0.3	0.2
1	17 (12-34)	12 (8.5-25)	8.3 (5.7-18)	5.7 (3.9-12)	3.9 (2.6-8.4)	2.7 (1.8-5.9)	1.9 (1.3-4.1)	1.3 (0.9-2.9)	0.9 (0.6-2.0)	0.6 (0.4-1.4)	0.4 (0.3-0.9)
2	28 (17-47)	20 (12-37)	15 (8.0-27)	10 (5.4-19)	7.1 (3.7-14)	5.0 (2.6-9.9)	3.5 (1.8-7.0)	2.5 (1.2-4.9)	1.7 (0.9-3.5)	1.2 (0.6-2.4)	0.8 (0.4-1.7)
3	41 (24-59)	32 (17-48)	24 (12-37)	17 (8.2-28)	12 (5.6-20)	8.7 (3.9-15)	6.2 (2.7-11)	4.4 (1.9-7.5)	3.1 (1.3-5.3)	2.1 (0.9-3.7)	1.5 (0.6-2.6)
4	55 (33-68)	45 (25-58)	36 (18-47)	27 (12-37)	20 (8.6-28)	14 (6.1-21)	10 (4.3-15)	7.4 (3.0-11)	5.3 (2.1-7.9)	3.7 (1.4-5.6)	2.6 (1.0-4.0)
5	68 (45-74)	59 (35-66)	50 (26-57)	39 (19-46)	30 (14-36)	23 (9.9-28)	17 (7.1-21)	12 (5.0-15)	8.8 (3.5-11)	6.2 (2.5-7.9)	4.4 (1.7-5.6)
6	78	72	64	54	44	34	26	20	14	10	7.3

Ten year probability of hip 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	9.5	6.9	4.9	3.5	2.5	1.9	1.4	1.0	0.7	0.5	0.4
1	17 (12-33)	12 (8.9-26)	9.1 (6.4-19)	6.6 (4.6-14)	4.9 (3.3-11)	3.6 (2.5-7.9)	2.7 (1.8-5.8)	2.0 (1.3-4.3)	1.4 (1.0-3.2)	1.1 (0.7-2.3)	0.8 (0.5-1.7)
2	26 (17-44)	20 (12-36)	15 (8.9-28)	11 (6.4-21)	8.6 (4.7-16)	6.5 (3.5-12)	4.8 (2.6-9.4)	3.6 (1.9-7.0)	2.6 (1.4-5.2)	1.9 (1.0-3.9)	1.4 (0.7-2.8)
3	38 (23-55)	31 (17-46)	24 (13-38)	19 (9.2-30)	14 (6.9-23)	11 (5.1-18)	8.3 (3.8-14)	6.2 (2.8-10)	4.6 (2.1-7.8)	3.4 (1.5-5.8)	2.5 (1.1-4.3)
4	51 (31-63)	43 (24-55)	35 (18-47)	28 (14-38)	22 (10-31)	17 (7.7-24)	13 (5.7-19)	10 (4.3-15)	7.7 (3.2-11)	5.8 (2.3-8.4)	4.3 (1.7-6.3)
5	63 (40-69)	55 (33-62)	48 (26-54)	40 (20-46)	33 (15-38)	27 (12-31)	21 (8.9-25)	16 (6.7-20)	12 (5.0-15)	9.5 (3.8-12)	7.1 (2.8-8.8)
6	73	67	60	53	45	38	31	25	19	15	11

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	8.8	6.7	5.1	3.9	3.0	2.4	1.8	1.4	1.1	0.9	0.7
1	15 (11-30)	12 (8.7-25)	9.2 (6.6-19)	7.1 (5.1-15)	5.7 (4.0-12)	4.5 (3.1-9.8)	3.5 (2.4-7.7)	2.7 (1.9-6.0)	2.1 (1.5-4.7)	1.7 (1.1-3.7)	1.3 (0.9-2.8)
2	24 (15-40)	19 (12-33)	15 (8.9-27)	12 (6.9-22)	9.7 (5.5-18)	7.8 (4.3-15)	6.2 (3.4-12)	4.9 (2.7-9.3)	3.8 (2.1-7.4)	3.0 (1.6-5.8)	2.3 (1.2-4.5)
3	34 (20-49)	29 (16-43)	23 (12-36)	19 (9.6-30)	16 (7.7-25)	13 (6.1-21)	10 (4.8-17)	8.2 (3.8-14)	6.5 (3.0-11)	5.1 (2.3-8.6)	4.0 (1.8-6.8)
4	46 (27-58)	40 (22-51)	34 (17-45)	28 (14-38)	24 (11-33)	20 (9.0-27)	16 (7.2-23)	13 (5.7-18)	11 (4.5-15)	8.4 (3.5-12)	6.7 (2.7-9.5)
5	57 (36-64)	51 (30-58)	45 (24-51)	39 (20-45)	34 (16-39)	29 (13-34)	24 (11-28)	20 (8.5-24)	16 (6.8-20)	13 (5.3-16)	11 (4.2-13)
6	68	63	57	51	46	40	34	29	24	20	16