Argentina - 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 Argentina. 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	6.5	4.1	2.8	2.0	1.6	1.3	1.1	1.0	0.9	0.9	0.9
1	10 (8.8-13)	6.4 (5.6-8.1)	4.3 (3.6-5.4)	3.1 (2.4-3.9)	2.4 (1.7-3.0)	2.0 (1.4-2.6)	1.7 (1.1-2.2)	1.5 (1.0-2.1)	1.4 (0.9-2.0)	1.4 (0.9-1.9)	1.3 (0.8-1.8)
2	15 (12-22)	9.8 (7.6-14)	6.5 (4.9-9.3)	4.7 (3.2-6.8)	3.6 (2.2-5.6)	2.9 (1.7-4.8)	2.5 (1.4-4.2)	2.2 (1.2-3.8)	2.1 (1.1-3.7)	2.0 (1.0-3.5)	1.9 (1.0-3.4)
3	23 (16-32)	15 (10-20)	9.8 (6.7-14)	7.0 (4.3-11)	5.3 (3.0-9.2)	4.3 (2.2-7.8)	3.6 (1.8-6.8)	3.3 (1.5-6.2)	3.1 (1.4-5.9)	2.9 (1.3-5.7)	2.8 (1.3-5.5)
4	33 (22-43)	21 (14-27)	14 (9.3-19)	10 (6.6-15)	7.8 (5.1-12)	6.3 (3.8-10)	5.2 (2.9-8.7)	4.7 (2.5-8.0)	4.4 (2.3-7.6)	4.2 (2.2-7.3)	4.0 (2.1-7.1)
5	46 (36-55)	31 (24-36)	21 (16-24)	15 (11-18)	11 (8.4-14)	8.9 (6.7-12)	7.4 (5.6-10)	6.7 (4.8-9.4)	6.3 (4.3-9.0)	6.0 (4.1-8.6)	5.7 (3.8-8.3)
6	60	42	29	21	16	12	10	9.3	8.7	8.3	7.9

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

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	8.4	5.5	3.8	2.8	2.2	1.8	1.5	1.3	1.3	1.2	1.1
1	13 (11-16)	8.5 (7.5-10)	5.9 (4.9-7.1)	4.3 (3.4-5.2)	3.3 (2.5-4.1)	2.7 (1.9-3.5)	2.2 (1.5-3.0)	2.0 (1.3-2.8)	1.9 (1.2-2.6)	1.8 (1.1-2.5)	1.7 (1.1-2.4)
2	19 (15-26)	13 (10-17)	8.8 (6.7-12)	6.4 (4.5-9.0)	4.9 (3.2-7.4)	3.9 (2.4-6.2)	3.3 (1.9-5.4)	3.0 (1.6-5.0)	2.8 (1.5-4.7)	2.6 (1.4-4.5)	2.5 (1.3-4.3)
3	28 (20-36)	19 (14-24)	13 (9.2-18)	9.4 (6.1-15)	7.2 (4.2-12)	5.8 (3.1-10)	4.8 (2.4-8.6)	4.3 (2.1-8.0)	4.0 (1.9-7.6)	3.8 (1.8-7.2)	3.6 (1.6-6.8)
4	39 (27-48)	27 (18-32)	19 (13-24)	14 (9.2-19)	10 (7.0-15)	8.3 (5.3-13)	6.8 (4.1-11)	6.2 (3.5-10)	5.7 (3.1-9.7)	5.4 (2.9-9.2)	5.1 (2.7-8.8)
5	52 (43-60)	37 (30-42)	26 (21-30)	19 (15-23)	15 (11-19)	12 (9.1-15)	9.6 (7.4-13)	8.7 (6.3-12)	8.0 (5.6-11)	7.5 (5.2-11)	7.1 (4.8-10)
6	66	49	36	26	20	16	13	12	11	10	9.8

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	9.9	7.1	5.3	4.1	3.3	2.8	2.6	2.4	2.2	2.1
1	21 (19-24)	15 (13-17)	11 (8.8-12)	7.9 (6.2-9.4)	6.2 (4.6-7.7)	5.0 (3.5-6.5)	4.2 (2.9-5.7)	3.8 (2.6-5.3)	3.5 (2.3-4.9)	3.3 (2.1-4.6)	3.0 (2.0-4.3)
2	30 (25-38)	21 (17-28)	15 (12-20)	12 (8.2-16)	9.0 (5.9-13)	7.2 (4.5-11)	6.2 (3.6-9.8)	5.6 (3.1-9.1)	5.1 (2.8-8.5)	4.7 (2.5-7.9)	4.4 (2.3-7.5)
3	41 (33-50)	30 (23-39)	22 (16-31)	17 (11-25)	13 (7.9-21)	10 (5.9-18)	8.8 (4.7-15)	8.0 (4.1-14)	7.3 (3.6-13)	6.8 (3.3-13)	6.3 (3.0-12)
4	54 (42-62)	41 (30-48)	30 (22-39)	23 (17-32)	18 (13-26)	15 (9.7-22)	12 (7.7-20)	11 (6.6-18)	10 (5.8-17)	9.6 (5.3-16)	8.9 (4.9-15)
5	67 (61-73)	53 (46-57)	41 (35-46)	32 (26-38)	25 (20-31)	20 (16-26)	17 (13-23)	15 (11-21)	14 (10-20)	13 (9.1-19)	12 (8.4-17)
6	79	66	53	42	33	27	23	21	19	18	17

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

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	22	16	12	9.0	7.0	5.6	4.9	4.4	4.0	3.6	3.3
1	31 (29-35)	23 (20-26)	17 (14-19)	13 (10-16)	10 (7.8-13)	8.2 (6.0-11)	7.2 (5.0-9.6)	6.4 (4.4-8.8)	5.8 (3.9-8.1)	5.3 (3.5-7.5)	4.9 (3.2-6.9)
2	42 (37-51)	32 (27-39)	24 (19-30)	19 (14-25)	15 (10-21)	12 (7.5-18)	10 (6.2-16)	9.2 (5.3-15)	8.3 (4.7-13)	7.6 (4.2-12)	7.0 (3.8-12)
3	55 (46-64)	43 (35-53)	33 (25-45)	26 (18-37)	20 (13-31)	17 (9.9-27)	14 (8.1-24)	13 (6.9-22)	12 (6.1-21)	11 (5.4-19)	9.9 (4.9-18)
4	67 (57-73)	55 (44-63)	44 (34-54)	35 (26-46)	28 (21-39)	23 (16-33)	20 (13-30)	18 (11-28)	16 (9.7-26)	15 (8.6-24)	14 (7.8-22)
5	78 (73-81)	67 (61-72)	55 (50-62)	45 (40-53)	37 (32-45)	30 (25-39)	27 (21-35)	24 (18-32)	22 (16-30)	20 (14-28)	19 (13-26)
6	85	77	67	56	47	39	35	32	29	27	25

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	26	19	14	11	8.4	6.8	5.8	5.1	4.6	4.1	3.7
1	36 (33-43)	27 (24-32)	20 (17-24)	15 (13-18)	12 (9.3-14)	9.6 (7.3-11)	8.2 (6.1-9.5)	7.1 (5.2-8.3)	6.3 (4.5-7.4)	5.6 (4.0-6.7)	5.1 (3.6-6.0)
2	50 (42-60)	38 (31-47)	29 (23-37)	22 (16-28)	17 (12-22)	13 (9.3-18)	11 (7.6-15)	9.8 (6.4-13)	8.6 (5.5-12)	7.7 (4.8-11)	6.9 (4.2-9.5)
3	64 (53-74)	51 (40-63)	40 (30-51)	30 (22-41)	23 (16-33)	19 (12-27)	16 (10-23)	13 (8.3-20)	12 (7.1-18)	10 (6.2-16)	9.3 (5.5-15)
4	77 (68-83)	65 (55-73)	53 (42-62)	41 (32-51)	32 (24-41)	26 (19-34)	21 (16-29)	18 (13-26)	16 (11-23)	14 (9.9-21)	12 (8.7-19)
5	86 (81-88)	78 (71-81)	66 (59-72)	54 (47-60)	43 (37-49)	35 (29-41)	29 (24-35)	24 (21-31)	21 (18-27)	18 (16-24)	16 (14-22)
6	90	86	78	68	56	46	38	32	28	24	21

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

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	24	18	14	10	7.9	6.5	5.5	4.7	4.1	3.6	3.1
1	37 (31-56)	28 (23-43)	21 (17-32)	16 (12-23)	12 (9.0-17)	9.4 (7.2-13)	7.8 (5.8-9.8)	6.5 (4.8-7.7)	5.5 (4.1-6.4)	4.8 (3.5-5.6)	4.2 (3.1-5.0)
2	52 (39-71)	41 (30-59)	31 (22-47)	23 (16-36)	18 (12-26)	14 (9.3-20)	11 (7.4-16)	9.1 (6.1-12)	7.6 (5.1-10)	6.5 (4.3-8.8)	5.6 (3.7-7.8)
3	66 (50-80)	55 (39-71)	44 (29-59)	34 (21-47)	26 (16-36)	20 (12-29)	16 (9.9-23)	13 (8.0-18)	11 (6.7-15)	8.8 (5.6-12)	7.5 (4.8-11)
4	78 (62-86)	70 (50-80)	59 (39-70)	48 (30-58)	37 (23-46)	29 (18-37)	23 (15-29)	18 (12-24)	15 (10-19)	12 (8.7-16)	10 (7.5-14)
5	86 (74-89)	81 (65-85)	73 (54-79)	63 (43-68)	51 (34-57)	41 (27-46)	33 (23-37)	26 (19-30)	21 (16-25)	17 (13-20)	14 (12-17)
6	89	87	83	76	66	56	45	36	29	23	19

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	19	15	11	8.9	7.4	6.2	5.3	4.5	3.9	3.4
1	36 (29-54)	28 (22-43)	22 (17-33)	17 (13-25)	13 (9.8-19)	11 (7.9-15)	8.8 (6.5-12)	7.3 (5.4-9.2)	6.2 (4.5-7.4)	5.3 (3.8-6.0)	4.5 (3.3-5.2)
2	48 (37-66)	39 (29-57)	31 (22-46)	24 (17-37)	19 (13-29)	15 (10-23)	12 (8.4-18)	10 (6.9-14)	8.5 (5.7-12)	7.2 (4.8-9.5)	6.1 (4.0-7.9)
3	61 (46-75)	52 (37-67)	43 (29-57)	34 (22-47)	27 (17-37)	22 (14-30)	18 (11-24)	14 (9.1-20)	12 (7.5-16)	9.8 (6.3-14)	8.2 (5.3-11)
4	72 (56-81)	65 (46-75)	56 (37-67)	46 (29-57)	38 (23-47)	31 (19-38)	25 (16-31)	20 (13-26)	16 (11-21)	13 (9.2-18)	11 (7.9-15)
5	80 (67-84)	75 (58-80)	68 (49-74)	59 (40-65)	50 (33-56)	42 (27-48)	35 (23-40)	28 (19-33)	23 (16-27)	18 (14-22)	15 (12-18)
6	85	83	78	71	63	55	46	38	31	25	21

FRAX® WHO Fracture Risk Assessment Tool

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

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	16	13	11	9.0	7.7	6.6	5.6	4.9	4.2
1	35 (27-50)	28 (22-42)	23 (17-34)	18 (14-27)	15 (11-22)	13 (9.2-18)	11 (7.7-14)	9.0 (6.5-12)	7.7 (5.5-9.6)	6.5 (4.6-7.9)	5.6 (4.0-6.5)
2	46 (35-61)	38 (28-53)	32 (22-45)	26 (18-37)	21 (15-31)	18 (12-26)	15 (9.9-21)	12 (8.3-17)	10 (6.9-14)	8.9 (5.8-12)	7.5 (4.9-9.9)
3	57 (43-69)	49 (36-62)	42 (29-55)	35 (23-46)	29 (19-39)	25 (16-33)	21 (13-28)	17 (11-24)	14 (9.1-20)	12 (7.7-17)	10 (6.5-14)
4	67 (52-76)	60 (44-70)	53 (37-63)	45 (30-55)	39 (25-48)	33 (21-42)	28 (18-36)	24 (15-30)	20 (13-25)	16 (11-22)	14 (9.4-18)
5	75 (60-80)	70 (54-76)	64 (46-70)	57 (39-63)	50 (34-57)	44 (29-50)	38 (25-44)	32 (21-38)	27 (18-32)	22 (16-27)	19 (14-23)
6	81	78	73	67	61	55	48	42	36	30	25

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	24	20	16	13	11	9.5	8.1	6.9	5.9	5.1	4.3
1	32 (24-46)	27 (20-39)	22 (16-32)	18 (13-27)	16 (11-23)	13 (9.5-19)	11 (8.0-16)	9.6 (6.8-13)	8.2 (5.8-11)	7.0 (4.9-9.2)	5.9 (4.1-7.6)
2	42 (31-55)	36 (26-48)	30 (21-42)	25 (17-36)	22 (15-31)	19 (12-27)	16 (10-23)	13 (8.8-19)	11 (7.4-16)	9.6 (6.3-13)	8.1 (5.3-11)
3	52 (39-64)	45 (32-58)	39 (27-51)	34 (22-45)	29 (19-39)	25 (16-34)	22 (14-29)	19 (12-25)	16 (9.8-22)	13 (8.3-18)	11 (7.0-16)
4	61 (47-70)	56 (41-65)	49 (35-59)	44 (29-53)	39 (25-48)	34 (22-42)	29 (19-37)	25 (16-32)	22 (14-28)	18 (12-24)	15 (10-20)
5	70 (55-75)	65 (49-71)	60 (43-66)	54 (37-61)	49 (33-56)	44 (29-51)	39 (25-45)	34 (22-40)	29 (19-35)	25 (16-30)	21 (14-26)
6	76	73	69	64	60	54	49	44	38	33	29