

**France - 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 France. 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/m<sup>2</sup>.

**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	14	8.9	6.0	4.4	3.4	2.8	2.4	2.2	2.0	2.0	1.9
1	21 (19-27)	14 (12-17)	9.3 (7.8-12)	6.7 (5.3-8.5)	5.2 (3.8-6.5)	4.2 (3.0-5.5)	3.6 (2.4-4.8)	3.2 (2.1-4.5)	3.1 (2.0-4.3)	2.9 (1.9-4.1)	2.8 (1.8-4.0)
2	31 (24-43)	20 (16-29)	14 (11-20)	10 (7.0-14)	7.8 (4.9-12)	6.3 (3.7-10)	5.3 (3.0-8.9)	4.8 (2.6-8.2)	4.6 (2.4-7.9)	4.3 (2.2-7.6)	4.2 (2.1-7.3)
3	44 (32-58)	30 (22-39)	20 (14-29)	15 (9.4-23)	11 (6.5-19)	9.2 (4.9-16)	7.8 (3.9-14)	7.0 (3.3-13)	6.6 (3.1-13)	6.3 (2.9-12)	6.1 (2.8-12)
4	59 (43-72)	42 (29-51)	29 (20-37)	21 (14-29)	16 (11-24)	13 (8.1-21)	11 (6.4-18)	10 (5.5-17)	9.4 (5.0-16)	9.0 (4.7-15)	8.6 (4.5-15)
5	74 (63-83)	56 (45-63)	40 (32-45)	30 (23-35)	23 (18-29)	19 (14-24)	16 (12-21)	14 (10-19)	13 (9.3-19)	13 (8.7-18)	12 (8.2-17)
6	87	70	54	40	31	25	21	19	18	17	17

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

**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	14	9.4	6.7	5.0	3.9	3.2	2.7	2.5	2.3	2.2	2.1
1	21 (19-25)	14 (13-17)	10 (8.4-12)	7.5 (5.9-9.1)	5.9 (4.4-7.4)	4.8 (3.4-6.3)	4.0 (2.7-5.4)	3.7 (2.5-5.1)	3.4 (2.3-4.8)	3.2 (2.1-4.5)	3.1 (2.0-4.3)
2	31 (25-41)	21 (17-28)	15 (11-20)	11 (7.8-16)	8.7 (5.6-13)	7.1 (4.2-11)	5.9 (3.4-9.6)	5.4 (3.0-9.0)	5.1 (2.7-8.5)	4.8 (2.5-8.1)	4.5 (2.3-7.7)
3	43 (33-54)	30 (23-39)	22 (15-31)	16 (10-25)	13 (7.4-21)	10 (5.6-18)	8.6 (4.4-15)	7.8 (3.8-14)	7.3 (3.5-14)	6.9 (3.2-13)	6.5 (3.0-12)
4	57 (42-67)	42 (30-49)	30 (21-39)	23 (16-31)	18 (12-26)	15 (9.3-22)	12 (7.3-20)	11 (6.3-18)	10 (5.7-17)	9.7 (5.2-16)	9.2 (4.9-16)
5	71 (63-79)	55 (46-60)	41 (34-47)	32 (26-38)	25 (20-31)	20 (16-27)	17 (13-23)	15 (11-21)	14 (10-20)	14 (9.4-19)	13 (8.8-18)
6	84	69	54	42	34	28	23	21	20	18	18

**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	10	7.2	5.4	4.2	3.4	2.9	2.6	2.4	2.2	2.1
1	21 (19-24)	15 (13-17)	11 (9.0-12)	8.1 (6.4-9.6)	6.3 (4.7-7.9)	5.1 (3.6-6.6)	4.3 (3.0-5.8)	3.9 (2.6-5.4)	3.6 (2.4-5.0)	3.3 (2.2-4.7)	3.1 (2.0-4.4)
2	30 (26-39)	22 (18-28)	16 (12-21)	12 (8.4-16)	9.2 (6.1-14)	7.4 (4.6-11)	6.3 (3.7-10)	5.7 (3.2-9.3)	5.2 (2.9-8.6)	4.9 (2.6-8.1)	4.5 (2.4-7.6)
3	42 (33-51)	31 (24-40)	22 (16-32)	17 (11-26)	13 (8.0-21)	11 (6.0-18)	9.1 (4.8-16)	8.2 (4.2-15)	7.5 (3.7-14)	7.0 (3.4-13)	6.5 (3.1-12)
4	55 (43-64)	42 (31-49)	31 (23-40)	24 (17-32)	19 (13-27)	15 (10-23)	13 (8.0-20)	12 (6.8-19)	11 (6.0-17)	9.8 (5.5-16)	9.2 (5.0-15)
5	69 (63-76)	54 (48-59)	42 (36-47)	32 (27-39)	26 (21-32)	21 (17-27)	18 (14-24)	16 (12-22)	15 (10-20)	14 (9.4-19)	13 (8.7-18)
6	82	68	54	43	34	28	24	22	20	18	17

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

**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	17	12	8.9	6.8	5.3	4.2	3.7	3.3	3.0	2.7	2.5
1	25 (23-28)	18 (16-20)	13 (11-15)	9.9 (7.9-12)	7.7 (5.9-9.7)	6.2 (4.5-8.1)	5.4 (3.8-7.2)	4.8 (3.3-6.6)	4.3 (2.9-6.1)	4.0 (2.6-5.6)	3.6 (2.4-5.2)
2	34 (30-42)	25 (21-31)	19 (15-24)	14 (10-19)	11 (7.6-16)	9.0 (5.7-13)	7.8 (4.7-12)	7.0 (4.0-11)	6.3 (3.5-10)	5.7 (3.1-9.4)	5.3 (2.8-8.7)
3	46 (38-55)	35 (28-45)	26 (20-36)	20 (14-30)	16 (10-25)	13 (7.5-21)	11 (6.1-19)	9.9 (5.2-17)	8.9 (4.6-16)	8.2 (4.1-15)	7.5 (3.7-14)
4	59 (48-66)	46 (36-54)	36 (27-45)	28 (21-37)	22 (16-31)	18 (12-26)	15 (10-24)	14 (8.5-22)	12 (7.4-20)	11 (6.6-19)	10 (5.9-17)
5	72 (66-76)	59 (53-64)	47 (41-53)	37 (32-44)	30 (25-37)	24 (20-31)	21 (17-28)	19 (14-25)	17 (12-23)	16 (11-22)	14 (9.9-20)
6	83	71	59	48	39	32	28	25	23	21	19

**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	22	16	12	8.9	6.9	5.5	4.8	4.1	3.7	3.3	3.0
1	32 (29-38)	23 (21-28)	17 (15-20)	13 (11-15)	9.9 (7.8-12)	7.9 (6.1-9.1)	6.7 (5.0-7.7)	5.8 (4.3-6.7)	5.1 (3.7-6.0)	4.5 (3.2-5.4)	4.1 (2.9-4.9)
2	45 (37-55)	33 (27-43)	25 (19-32)	19 (14-24)	14 (10-19)	11 (7.8-15)	9.4 (6.3-12)	8.0 (5.3-11)	7.0 (4.5-9.6)	6.2 (3.9-8.6)	5.6 (3.4-7.8)
3	60 (49-71)	46 (36-58)	35 (26-46)	26 (19-36)	20 (14-28)	16 (10-23)	13 (8.3-20)	11 (6.9-17)	9.6 (5.8-15)	8.5 (5.1-13)	7.6 (4.5-12)
4	74 (64-81)	61 (50-69)	48 (38-56)	37 (28-45)	28 (21-36)	22 (16-29)	18 (13-25)	15 (11-22)	13 (9.4-19)	11 (8.1-17)	10 (7.1-15)
5	85 (80-87)	75 (68-79)	62 (55-67)	50 (43-55)	38 (33-44)	30 (25-36)	25 (21-30)	21 (17-26)	18 (15-23)	15 (13-20)	14 (11-18)
6	91	86	76	64	51	41	33	28	24	20	18

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

**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	29	21	16	12	9.2	7.5	6.3	5.4	4.7	4.1	3.6
1	43 (36-63)	33 (27-49)	25 (20-37)	18 (15-27)	14 (11-19)	11 (8.5-15)	9.0 (6.9-11)	7.5 (5.7-8.9)	6.4 (4.8-7.5)	5.5 (4.1-6.5)	4.8 (3.5-5.7)
2	59 (46-78)	47 (35-67)	36 (26-54)	27 (19-42)	21 (14-31)	16 (11-24)	13 (8.8-19)	11 (7.2-15)	8.9 (5.9-12)	7.5 (5.0-10)	6.4 (4.3-9.0)
3	73 (58-86)	63 (45-78)	51 (34-67)	40 (25-54)	30 (19-42)	24 (15-33)	19 (12-26)	15 (9.4-21)	12 (7.8-17)	10 (6.6-14)	8.7 (5.6-12)
4	84 (70-90)	76 (58-85)	67 (46-77)	55 (35-66)	43 (27-53)	34 (21-43)	27 (17-34)	22 (14-28)	17 (12-23)	14 (10-19)	12 (8.7-16)
5	89 (81-92)	86 (73-89)	80 (62-84)	70 (51-76)	59 (40-64)	48 (33-53)	38 (27-43)	30 (22-35)	24 (19-28)	20 (16-23)	16 (14-19)
6	92	91	88	83	74	63	52	42	34	27	22

**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	34	26	20	16	12	10	8.7	7.4	6.3	5.4	4.7
1	47 (41-67)	38 (32-55)	30 (24-44)	23 (18-34)	18 (14-26)	15 (11-20)	12 (9.3-16)	10 (7.7-13)	8.6 (6.5-10)	7.3 (5.5-8.5)	6.3 (4.7-7.4)
2	62 (50-79)	52 (40-71)	42 (31-60)	33 (24-49)	26 (19-39)	21 (15-31)	17 (12-25)	14 (9.8-20)	12 (8.1-16)	10 (6.8-13)	8.5 (5.7-11)
3	74 (60-85)	65 (50-80)	56 (40-71)	46 (31-60)	37 (24-50)	30 (20-41)	25 (16-33)	20 (13-27)	17 (11-23)	14 (8.9-19)	11 (7.5-16)
4	82 (70-88)	77 (60-85)	69 (50-79)	60 (40-70)	50 (32-60)	42 (27-51)	34 (22-42)	28 (18-35)	23 (15-29)	19 (13-24)	16 (11-20)
5	87 (79-90)	84 (73-88)	80 (64-84)	73 (55-78)	64 (46-70)	55 (39-61)	47 (32-52)	39 (27-44)	32 (23-36)	26 (20-30)	21 (17-25)
6	89	89	87	83	77	69	60	51	43	35	29

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

**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	36	30	24	19	16	13	11	9.6	8.2	7.0	6.0
1	48 (40-65)	40 (33-56)	33 (26-47)	27 (21-38)	22 (17-31)	19 (14-25)	16 (12-21)	13 (9.8-17)	11 (8.2-14)	9.5 (7.0-11)	8.1 (5.9-9.3)
2	60 (49-75)	53 (41-68)	44 (33-60)	37 (27-51)	31 (22-44)	26 (18-37)	22 (15-31)	18 (12-25)	15 (10-21)	13 (8.7-17)	11 (7.3-14)
3	71 (59-81)	64 (50-76)	57 (42-70)	48 (34-62)	42 (28-54)	35 (24-46)	30 (20-40)	25 (16-34)	21 (14-29)	18 (11-24)	15 (9.6-20)
4	79 (67-85)	74 (60-82)	68 (52-77)	60 (43-70)	54 (37-63)	47 (31-56)	40 (27-49)	34 (23-42)	29 (19-36)	24 (16-31)	20 (14-26)
5	84 (75-87)	81 (69-85)	77 (63-82)	71 (55-77)	65 (49-72)	59 (43-65)	52 (37-58)	45 (32-51)	38 (28-44)	32 (24-38)	27 (20-32)
6	86	86	83	80	76	70	64	57	50	43	36

**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	33	27	22	18	15	13	11	9.2	7.8	6.6	5.6
1	43 (35-59)	37 (29-51)	30 (23-43)	25 (19-36)	21 (16-30)	18 (14-25)	15 (11-21)	13 (9.5-18)	11 (8.0-14)	9.2 (6.7-12)	7.7 (5.6-9.8)
2	55 (43-69)	48 (36-63)	41 (30-55)	34 (25-48)	30 (21-42)	25 (18-36)	21 (15-31)	18 (12-26)	15 (10-22)	13 (8.6-18)	11 (7.2-15)
3	65 (52-76)	59 (45-71)	52 (38-65)	45 (32-58)	40 (27-52)	35 (23-46)	30 (19-39)	25 (16-34)	21 (14-29)	18 (11-25)	15 (9.5-21)
4	74 (61-81)	69 (54-77)	63 (47-73)	57 (40-67)	51 (35-61)	46 (30-55)	40 (26-49)	34 (22-43)	29 (19-37)	25 (16-31)	21 (14-27)
5	80 (69-83)	77 (64-81)	73 (58-78)	68 (51-74)	63 (46-69)	57 (41-64)	51 (36-58)	45 (31-52)	40 (27-46)	34 (23-40)	29 (20-34)
6	83	82	80	77	73	68	63	57	51	45	39