

**France - The probabilities of a major osteoporotic fracture in men**

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	17	10	6.7	4.7	3.4	2.7	2.2	1.9	1.7	1.6	1.5	
1	25 (21-32)	16 (14-20)	10 (9.1-13)	7.1 (5.9-9.0)	5.2 (4.0-6.6)	4.1 (3.0-5.1)	3.3 (2.3-4.4)	2.8 (1.9-3.8)	2.6 (1.7-3.5)	2.4 (1.6-3.4)	2.3 (1.5-3.2)	
2	36 (27-49)	23 (18-33)	15 (12-22)	11 (8.0-15)	7.8 (5.4-11)	6.1 (3.8-9.5)	5.0 (2.9-8.1)	4.2 (2.3-7.1)	3.8 (2.0-6.5)	3.6 (1.9-6.2)	3.4 (1.7-6.0)	
3	49 (36-63)	34 (24-44)	23 (16-30)	16 (11-23)	11 (7.2-18)	8.9 (5.1-15)	7.2 (3.8-13)	6.1 (3.0-11)	5.5 (2.6-10)	5.2 (2.4-9.9)	4.9 (2.3-9.5)	
4	63 (48-75)	46 (32-57)	32 (22-39)	22 (15-29)	16 (11-23)	13 (8.4-19)	10 (6.3-16)	8.7 (4.9-14)	7.8 (4.2-13)	7.4 (3.9-13)	7.0 (3.6-12)	
5	76 (67-84)	59 (49-68)	43 (34-49)	31 (24-36)	23 (18-28)	18 (14-23)	15 (11-19)	12 (9.2-17)	11 (7.9-15)	10 (7.2-15)	9.8 (6.7-14)	
6	86	73	56	42	32	25	20	17	15	14	13	

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	16	10	7.0	4.9	3.7	2.9	2.4	2.0	1.8	1.7	1.6
1	24 (20-29)	16 (14-19)	11 (9.2-13)	7.4 (6.1-9.1)	5.5 (4.3-6.8)	4.3 (3.2-5.4)	3.5 (2.5-4.6)	3.0 (2.0-4.0)	2.7 (1.8-3.7)	2.5 (1.6-3.5)	2.3 (1.5-3.3)
2	34 (27-44)	23 (18-30)	16 (13-21)	11 (8.3-15)	8.2 (5.7-12)	6.4 (4.1-9.7)	5.2 (3.1-8.3)	4.3 (2.4-7.2)	3.9 (2.1-6.6)	3.6 (1.9-6.2)	3.4 (1.8-5.9)
3	46 (35-57)	32 (24-40)	22 (17-29)	16 (11-23)	12 (7.6-18)	9.2 (5.4-15)	7.5 (4.1-13)	6.2 (3.2-11)	5.6 (2.8-10)	5.2 (2.5-9.8)	4.9 (2.3-9.4)
4	59 (46-69)	43 (32-52)	31 (22-37)	23 (16-29)	17 (12-23)	13 (9.0-19)	11 (6.7-17)	8.9 (5.2-14)	8.0 (4.4-13)	7.4 (4.0-13)	7.0 (3.7-12)
5	71 (63-78)	56 (47-63)	42 (34-46)	31 (25-36)	23 (18-28)	18 (14-23)	15 (11-20)	12 (9.4-17)	11 (8.0-16)	10 (7.2-15)	9.7 (6.6-14)
6	81	69	54	41	31	25	20	17	15	14	13

**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	9.6	6.7	4.9	3.7	2.9	2.3	2.0	1.8	1.6	1.5
1	21 (18-24)	14 (13-17)	10 (8.7-12)	7.3 (6.0-8.6)	5.5 (4.3-6.5)	4.3 (3.2-5.3)	3.5 (2.5-4.5)	2.9 (2.0-3.9)	2.6 (1.7-3.6)	2.4 (1.6-3.4)	2.2 (1.4-3.2)
2	29 (24-37)	20 (17-26)	14 (12-19)	11 (8.1-14)	8.0 (5.7-11)	6.3 (4.1-9.3)	5.1 (3.1-7.8)	4.2 (2.5-6.7)	3.8 (2.1-6.3)	3.5 (1.9-5.9)	3.2 (1.7-5.5)
3	39 (31-48)	28 (22-35)	21 (16-27)	15 (11-21)	11 (7.7-17)	9.0 (5.6-14)	7.2 (4.2-12)	6.0 (3.2-10)	5.4 (2.8-9.7)	5.0 (2.5-9.1)	4.6 (2.2-8.6)
4	51 (40-59)	38 (29-44)	28 (21-34)	21 (15-27)	16 (11-22)	13 (8.9-18)	10 (6.7-16)	8.4 (5.2-13)	7.6 (4.4-12)	7.0 (3.9-12)	6.5 (3.5-11)
5	63 (56-69)	49 (43-55)	38 (32-42)	29 (24-33)	22 (18-27)	17 (14-22)	14 (11-19)	12 (9.0-16)	10 (7.7-15)	9.6 (6.8-14)	8.9 (6.1-13)
6	73	61	48	38	29	23	19	16	14	13	12

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	14	10	7.4	5.5	4.2	3.4	2.7	2.3	2.0	1.9	1.7
1	20 (19-22)	15 (13-16)	11 (9.2-12)	8.0 (6.6-9.2)	6.2 (4.8-7.3)	4.9 (3.7-6.1)	3.9 (2.8-5.1)	3.3 (2.3-4.4)	3.0 (2.0-4.1)	2.7 (1.8-3.8)	2.5 (1.6-3.5)
2	28 (23-34)	20 (17-25)	15 (12-19)	11 (8.9-15)	8.9 (6.5-12)	7.0 (4.8-10)	5.7 (3.6-8.5)	4.8 (2.9-7.4)	4.3 (2.5-6.8)	3.9 (2.2-6.3)	3.5 (1.9-5.9)
3	37 (30-43)	28 (22-34)	21 (17-27)	16 (12-22)	12 (8.7-18)	9.9 (6.4-15)	8.0 (4.9-13)	6.7 (3.8-11)	6.0 (3.3-10)	5.5 (2.8-9.7)	5.0 (2.5-9.1)
4	47 (38-53)	37 (29-42)	28 (22-34)	22 (17-28)	17 (13-23)	14 (10-20)	11 (7.6-17)	9.3 (6.0-15)	8.3 (5.1-13)	7.5 (4.4-12)	6.9 (3.9-12)
5	57 (52-61)	46 (41-51)	37 (32-42)	29 (25-34)	23 (19-28)	18 (15-24)	15 (12-20)	13 (10-17)	11 (8.5-16)	10 (7.4-15)	9.4 (6.6-14)
6	66	56	46	37	30	24	20	17	15	14	13

**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	16	12	8.8	6.7	5.2	4.1	3.3	2.8	2.4	2.2	2.0
1	23 (20-28)	17 (14-21)	13 (11-16)	9.7 (7.9-12)	7.5 (5.9-9.1)	5.8 (4.5-7.1)	4.6 (3.5-5.6)	3.9 (2.8-4.6)	3.4 (2.4-4.0)	3.0 (2.1-3.5)	2.7 (1.9-3.2)
2	32 (26-39)	24 (19-31)	18 (14-24)	14 (11-18)	11 (7.9-14)	8.3 (6.0-11)	6.6 (4.6-8.8)	5.4 (3.7-7.4)	4.7 (3.1-6.4)	4.1 (2.6-5.7)	3.7 (2.3-5.1)
3	43 (34-52)	34 (26-42)	26 (19-34)	20 (14-27)	15 (11-21)	12 (8.0-17)	9.2 (6.1-13)	7.6 (4.9-11)	6.5 (4.1-9.8)	5.6 (3.5-8.7)	5.0 (3.0-7.8)
4	54 (45-61)	44 (36-52)	35 (28-43)	28 (21-34)	21 (16-27)	17 (12-22)	13 (9.4-18)	11 (7.5-15)	8.9 (6.2-13)	7.7 (5.3-11)	6.7 (4.6-10)
5	64 (57-69)	56 (48-61)	46 (39-52)	37 (31-43)	29 (24-34)	23 (19-28)	18 (14-22)	15 (12-18)	12 (9.8-16)	10 (8.4-14)	9.0 (7.4-12)
6	73	66	57	48	39	31	25	20	16	14	12

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	17	14	10	8.1	6.4	5.0	4.0	3.4	3.0	2.6	2.3
1	27 (21-44)	21 (16-35)	16 (12-28)	13 (9.4-21)	9.9 (7.2-16)	7.7 (5.6-12)	6.0 (4.4-9.1)	5.0 (3.6-7.2)	4.2 (3.0-5.7)	3.6 (2.6-4.7)	3.1 (2.2-3.8)
2	38 (27-54)	31 (21-46)	25 (16-38)	19 (13-30)	15 (9.8-23)	12 (7.5-18)	9.1 (5.8-14)	7.4 (4.7-11)	6.1 (3.9-8.8)	5.1 (3.3-7.2)	4.4 (2.8-5.9)
3	50 (36-64)	42 (28-56)	35 (22-48)	28 (17-39)	22 (13-32)	17 (10-25)	14 (7.9-20)	11 (6.4-16)	8.9 (5.2-13)	7.3 (4.4-11)	6.1 (3.7-8.8)
4	61 (45-71)	54 (37-65)	47 (30-57)	39 (24-49)	32 (19-41)	25 (15-33)	20 (11-26)	16 (9.4-21)	13 (7.8-17)	11 (6.5-14)	8.6 (5.5-12)
5	71 (54-77)	65 (47-72)	58 (39-65)	51 (32-58)	43 (26-49)	35 (21-41)	28 (17-33)	23 (14-27)	19 (11-22)	15 (9.7-18)	12 (8.3-15)
6	79	75	69	62	55	47	39	32	26	21	17

**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	18	14	12	9.2	7.4	6.0	4.9	4.2	3.7	3.2	2.8
1	26 (20-43)	22 (16-36)	17 (13-29)	14 (10-24)	11 (8.2-19)	9.1 (6.5-15)	7.3 (5.2-12)	6.2 (4.4-9.5)	5.3 (3.7-7.8)	4.5 (3.2-6.4)	3.9 (2.7-5.3)
2	37 (26-53)	31 (21-46)	25 (17-39)	21 (14-32)	17 (11-26)	13 (8.8-21)	11 (7.0-17)	9.1 (5.9-14)	7.6 (4.9-12)	6.5 (4.2-9.5)	5.5 (3.5-7.9)
3	48 (33-62)	41 (28-56)	35 (23-49)	29 (18-41)	24 (15-35)	20 (12-28)	16 (9.5-23)	13 (7.9-19)	11 (6.6-16)	9.3 (5.6-13)	7.8 (4.7-11)
4	59 (42-69)	53 (35-64)	46 (30-57)	40 (24-50)	33 (20-43)	28 (16-36)	23 (13-30)	19 (11-25)	16 (9.2-21)	13 (7.9-17)	11 (6.8-15)
5	69 (51-75)	64 (44-70)	57 (38-64)	51 (32-58)	44 (26-51)	38 (22-44)	32 (18-37)	27 (15-32)	22 (13-27)	19 (11-23)	16 (9.6-19)
6	77	73	68	62	56	49	42	36	31	26	22

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	16	14	11	9.5	7.9	6.6	5.6	4.9	4.3	3.8	3.4
1	24 (18-38)	20 (15-33)	17 (12-28)	14 (10-23)	12 (8.2-19)	9.7 (6.8-16)	8.2 (5.7-13)	7.1 (4.9-11)	6.2 (4.2-9.3)	5.4 (3.7-7.9)	4.7 (3.2-6.7)
2	33 (23-48)	28 (19-42)	24 (16-36)	20 (13-31)	17 (11-26)	14 (9.1-22)	12 (7.6-18)	10 (6.6-15)	8.8 (5.6-13)	7.6 (4.9-11)	6.6 (4.2-9.6)
3	43 (29-56)	38 (25-51)	33 (21-45)	28 (18-39)	24 (15-34)	20 (12-29)	17 (10-24)	15 (8.8-21)	13 (7.6-18)	11 (6.5-15)	9.4 (5.6-13)
4	53 (37-64)	48 (32-59)	43 (27-53)	37 (23-47)	32 (20-42)	28 (16-36)	24 (14-31)	21 (12-27)	18 (10-23)	15 (9.0-20)	13 (7.8-17)
5	63 (45-70)	59 (40-65)	54 (35-60)	48 (30-55)	43 (26-49)	37 (22-43)	32 (19-38)	28 (16-34)	25 (14-30)	21 (12-26)	18 (11-23)
6	72	68	64	59	54	48	43	38	33	29	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	14	12	10	8.6	7.3	6.2	5.4	4.8	4.2	3.7	3.3
1	20 (15-32)	18 (13-28)	15 (11-24)	13 (9.0-21)	11 (7.6-18)	9.1 (6.4-15)	8.0 (5.5-13)	7.0 (4.9-11)	6.2 (4.3-9.7)	5.4 (3.7-8.4)	4.8 (3.3-7.3)
2	28 (20-41)	25 (17-37)	21 (14-32)	18 (12-28)	16 (10-24)	13 (8.6-21)	12 (7.5-18)	10 (6.5-16)	9.0 (5.7-14)	7.9 (5.0-12)	6.9 (4.4-10)
3	38 (25-50)	33 (22-45)	30 (19-41)	26 (16-36)	22 (14-32)	19 (12-27)	17 (10-24)	15 (8.8-21)	13 (7.7-19)	11 (6.8-16)	10 (5.9-14)
4	48 (32-58)	43 (28-54)	39 (25-49)	35 (21-44)	31 (18-39)	27 (16-35)	24 (14-31)	21 (12-28)	19 (11-24)	16 (9.3-22)	14 (8.2-19)
5	58 (40-64)	54 (36-60)	50 (32-56)	45 (28-52)	40 (24-47)	36 (21-42)	32 (18-38)	29 (16-34)	26 (14-31)	23 (13-28)	20 (11-25)
6	66	63	60	56	51	47	43	39	35	31	28