

France - The probabilities of a hip fracture in men

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 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/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	14	7.4	4.0	2.1	1.1	0.6	0.3	0.2	0.1	0.1	0.0
1	21 (14-27)	12 (7.8-15)	6.3 (4.2-8.3)	3.4 (2.2-4.4)	1.8 (1.2-2.3)	0.9 (0.6-1.2)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	31 (20-43)	18 (11-26)	9.8 (5.9-15)	5.3 (3.1-8.0)	2.8 (1.6-4.3)	1.5 (0.9-2.3)	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)
3	43 (28-60)	26 (16-39)	15 (8.8-23)	8.2 (4.7-13)	4.4 (2.5-7.1)	2.3 (1.3-3.8)	1.2 (0.7-2.0)	0.6 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	57 (43-73)	38 (26-52)	22 (14-33)	13 (7.9-19)	6.8 (4.2-11)	3.6 (2.2-5.7)	1.9 (1.2-3.1)	1.0 (0.6-1.6)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	72 (62-82)	51 (41-64)	32 (25-43)	19 (14-26)	10 (7.6-15)	5.6 (4.1-8.1)	3.0 (2.1-4.3)	1.6 (1.1-2.3)	0.8 (0.6-1.2)	0.5 (0.3-0.7)	0.2 (0.2-0.4)
6	83	66	45	27	15	8.5	4.5	2.4	1.3	0.7	0.4

Ten year probability of hip 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	13	7.1	3.9	2.2	1.2	0.6	0.4	0.2	0.1	0.1	0.0
1	19 (13-23)	11 (7.5-13)	6.1 (4.1-7.6)	3.4 (2.3-4.2)	1.9 (1.2-2.3)	1.0 (0.7-1.3)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	28 (18-38)	16 (10-23)	9.4 (5.8-13)	5.3 (3.2-7.6)	2.9 (1.8-4.2)	1.6 (1.0-2.3)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	39 (26-52)	24 (15-35)	14 (8.7-21)	8.0 (4.9-12)	4.5 (2.7-6.9)	2.5 (1.5-3.8)	1.4 (0.8-2.1)	0.7 (0.4-1.2)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	52 (39-66)	34 (24-47)	21 (14-30)	12 (8.0-18)	6.8 (4.5-10)	3.8 (2.5-5.8)	2.1 (1.4-3.2)	1.1 (0.7-1.8)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	65 (57-76)	46 (39-58)	30 (24-39)	18 (14-24)	10 (7.9-14)	5.7 (4.4-8.1)	3.2 (2.4-4.5)	1.7 (1.3-2.5)	1.0 (0.8-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)
6	77	60	41	25	15	8.5	4.7	2.6	1.5	0.8	0.5

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	11	6.3	3.7	2.2	1.3	0.7	0.4	0.2	0.2	0.1	0.1
1	16 (11-18)	9.5 (6.6-11)	5.7 (3.9-6.7)	3.3 (2.3-3.9)	1.9 (1.3-2.3)	1.1 (0.8-1.3)	0.7 (0.4-0.8)	0.4 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	23 (15-30)	14 (9.3-19)	8.5 (5.5-12)	5.0 (3.2-6.9)	3.0 (1.9-4.1)	1.7 (1.1-2.4)	1.0 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	32 (22-42)	20 (14-28)	13 (8.3-18)	7.6 (4.9-11)	4.5 (2.9-6.5)	2.6 (1.7-3.9)	1.5 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	43 (33-55)	29 (21-39)	18 (13-26)	11 (7.9-16)	6.7 (4.7-9.8)	3.9 (2.7-5.8)	2.3 (1.6-3.4)	1.3 (0.9-2.0)	0.8 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	55 (49-66)	39 (34-49)	26 (22-34)	16 (13-22)	9.8 (8.1-14)	5.8 (4.8-8.2)	3.4 (2.8-4.8)	2.0 (1.7-2.8)	1.2 (1.0-1.7)	0.7 (0.6-1.0)	0.4 (0.4-0.6)
6	67	51	35	23	14	8.6	5.1	3.0	1.8	1.1	0.7

Ten year probability of hip 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	10	6.3	4.0	2.5	1.5	0.9	0.6	0.4	0.2	0.1	0.1
1	15 (11-17)	9.3 (6.7-11)	5.9 (4.2-6.8)	3.7 (2.6-4.3)	2.3 (1.6-2.7)	1.4 (1.0-1.6)	0.9 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	21 (15-26)	13 (9.3-17)	8.6 (5.9-11)	5.4 (3.6-7.0)	3.4 (2.3-4.4)	2.1 (1.4-2.7)	1.3 (0.9-1.7)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	28 (21-36)	19 (14-25)	12 (8.8-17)	7.9 (5.5-11)	5.0 (3.4-6.8)	3.1 (2.1-4.3)	1.9 (1.3-2.7)	1.2 (0.8-1.7)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	38 (31-47)	26 (21-34)	18 (14-24)	11 (8.6-16)	7.3 (5.4-10)	4.6 (3.4-6.5)	2.8 (2.1-4.1)	1.8 (1.3-2.6)	1.1 (0.8-1.6)	0.7 (0.5-1.1)	0.5 (0.3-0.7)
5	48 (44-57)	35 (32-44)	24 (21-31)	16 (14-21)	10 (8.9-14)	6.6 (5.6-9.0)	4.1 (3.5-5.7)	2.6 (2.2-3.6)	1.7 (1.4-2.3)	1.1 (0.9-1.5)	0.7 (0.6-1.0)
6	58	45	33	22	15	9.5	6.0	3.8	2.4	1.6	1.0

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	11	7.5	5.0	3.3	2.1	1.4	0.9	0.6	0.4	0.3	0.2
1	17 (15-22)	12 (10-15)	8.0 (7.0-10)	5.3 (4.6-6.9)	3.5 (3.0-4.5)	2.3 (2.0-3.0)	1.5 (1.3-2.0)	1.0 (0.9-1.3)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.3-0.4)
2	26 (22-32)	18 (15-23)	13 (10-16)	8.5 (6.9-11)	5.7 (4.6-7.5)	3.7 (3.0-5.0)	2.5 (2.0-3.3)	1.7 (1.3-2.2)	1.1 (0.9-1.5)	0.8 (0.6-1.0)	0.5 (0.4-0.7)
3	37 (30-44)	27 (22-33)	19 (15-24)	13 (10-17)	9.0 (7.0-11)	6.0 (4.6-7.7)	4.0 (3.1-5.1)	2.7 (2.0-3.4)	1.8 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.1)
4	49 (41-55)	38 (31-44)	28 (22-33)	20 (15-24)	14 (11-17)	9.5 (7.1-11)	6.4 (4.7-7.6)	4.3 (3.2-5.2)	3.0 (2.2-3.6)	2.0 (1.5-2.4)	1.4 (1.0-1.7)
5	60 (53-64)	50 (42-53)	39 (32-42)	29 (23-32)	21 (16-23)	15 (11-16)	10 (7.7-11)	6.9 (5.2-7.8)	4.7 (3.6-5.4)	3.2 (2.5-3.7)	2.2 (1.7-2.5)
6	70	61	51	41	31	22	15	11	7.5	5.2	3.6

Ten year probability of hip 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	13	9.1	6.4	4.5	3.2	2.2	1.5	1.1	0.8	0.6	0.4
1	22 (17-41)	16 (13-32)	12 (9.0-24)	8.5 (6.3-18)	6.0 (4.4-13)	4.2 (3.1-9.1)	3.0 (2.2-6.4)	2.1 (1.5-4.6)	1.5 (1.1-3.3)	1.1 (0.8-2.4)	0.8 (0.6-1.7)
2	33 (23-52)	26 (17-43)	20 (12-34)	15 (8.9-26)	11 (6.3-20)	7.6 (4.4-14)	5.4 (3.1-10)	3.9 (2.2-7.5)	2.8 (1.6-5.4)	2.0 (1.1-3.9)	1.5 (0.8-2.8)
3	46 (30-62)	38 (23-53)	30 (17-44)	23 (13-36)	18 (9.0-27)	13 (6.4-21)	9.3 (4.5-15)	6.8 (3.3-11)	5.0 (2.4-8.1)	3.6 (1.7-5.9)	2.6 (1.2-4.3)
4	59 (40-69)	51 (32-62)	43 (24-54)	35 (18-45)	27 (13-36)	21 (9.6-27)	15 (6.8-20)	11 (4.9-15)	8.4 (3.6-12)	6.1 (2.6-8.5)	4.5 (1.8-6.2)
5	70 (50-75)	63 (41-69)	56 (33-62)	47 (26-54)	39 (19-44)	31 (14-35)	24 (10-27)	18 (7.7-21)	14 (5.6-16)	10 (4.1-12)	7.5 (3.0-8.7)
6	79	74	67	60	52	43	35	27	21	16	12

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	13	9.4	7.0	5.2	3.9	2.8	2.1	1.6	1.2	0.9	0.7
1	21 (16-40)	16 (12-33)	13 (9.1-26)	9.6 (6.8-20)	7.2 (5.1-15)	5.4 (3.7-12)	4.0 (2.8-8.7)	3.0 (2.1-6.7)	2.3 (1.6-5.1)	1.7 (1.2-3.9)	1.3 (0.9-2.9)
2	32 (21-51)	26 (16-43)	20 (12-35)	16 (9.5-28)	12 (7.1-22)	9.3 (5.2-17)	7.0 (3.9-13)	5.4 (2.9-10)	4.1 (2.2-8.0)	3.2 (1.7-6.1)	2.4 (1.3-4.7)
3	44 (28-60)	37 (22-53)	31 (17-46)	25 (13-38)	20 (9.8-31)	15 (7.4-25)	12 (5.5-19)	9.1 (4.2-15)	7.0 (3.2-12)	5.4 (2.5-9.1)	4.1 (1.9-7.0)
4	56 (36-68)	49 (30-62)	42 (24-54)	36 (19-47)	29 (14-39)	23 (11-32)	18 (8.3-26)	15 (6.4-20)	11 (4.9-16)	8.9 (3.7-13)	6.9 (2.8-9.8)
5	67 (46-73)	61 (39-68)	55 (32-61)	48 (26-54)	41 (20-46)	34 (16-39)	27 (12-32)	22 (9.6-26)	18 (7.4-21)	14 (5.7-17)	11 (4.4-13)
6	76	72	67	60	53	46	39	32	27	21	17

Ten year probability of hip 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	10	8.2	6.4	5.0	3.9	3.1	2.4	1.9	1.5	1.2	1.0
1	18 (13-34)	14 (11-29)	11 (8.4-24)	9.1 (6.6-19)	7.2 (5.1-15)	5.7 (4.0-12)	4.5 (3.2-9.9)	3.6 (2.5-8.0)	2.9 (2.0-6.4)	2.3 (1.6-5.2)	1.8 (1.3-4.1)
2	27 (17-44)	22 (14-38)	18 (11-32)	15 (8.8-27)	12 (6.9-22)	9.7 (5.4-18)	7.8 (4.3-14)	6.3 (3.5-12)	5.1 (2.8-9.6)	4.1 (2.2-7.8)	3.3 (1.8-6.3)
3	38 (23-54)	33 (19-48)	28 (15-41)	23 (12-35)	19 (9.6-30)	15 (7.6-25)	13 (6.0-21)	10 (4.9-17)	8.5 (3.9-14)	6.9 (3.2-12)	5.6 (2.5-9.4)
4	50 (30-62)	44 (25-56)	39 (21-50)	33 (17-44)	28 (14-38)	23 (11-32)	19 (8.8-27)	16 (7.1-23)	13 (5.8-19)	11 (4.7-16)	9.0 (3.8-13)
5	61 (40-67)	56 (34-62)	51 (29-57)	45 (24-51)	39 (19-45)	33 (16-38)	28 (13-33)	24 (11-28)	20 (8.6-24)	17 (7.0-20)	14 (5.7-17)
6	71	67	62	57	51	45	39	34	29	25	21

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	7.9	6.5	5.3	4.4	3.6	2.9	2.4	2.0	1.7	1.4	1.2
1	14 (10-28)	12 (8.5-24)	9.6 (7.0-20)	7.9 (5.7-17)	6.5 (4.7-14)	5.4 (3.8-12)	4.5 (3.2-9.9)	3.8 (2.7-8.4)	3.2 (2.2-7.1)	2.7 (1.9-5.9)	2.2 (1.5-5.0)
2	22 (13-37)	19 (11-33)	16 (9.2-28)	13 (7.6-24)	11 (6.3-20)	9.2 (5.1-17)	7.8 (4.3-14)	6.6 (3.6-12)	5.6 (3.0-10)	4.7 (2.6-8.9)	4.0 (2.1-7.5)
3	32 (18-47)	28 (15-42)	24 (13-37)	21 (11-32)	18 (8.7-28)	15 (7.2-24)	13 (6.0-20)	11 (5.1-18)	9.2 (4.3-15)	7.8 (3.6-13)	6.6 (3.0-11)
4	43 (25-55)	39 (21-50)	34 (18-45)	30 (15-40)	26 (12-35)	22 (10-31)	19 (8.8-27)	17 (7.4-24)	15 (6.3-20)	12 (5.3-18)	11 (4.5-15)
5	55 (33-61)	50 (29-57)	46 (25-52)	41 (21-47)	37 (18-42)	32 (15-37)	28 (13-33)	25 (11-29)	22 (9.3-26)	19 (7.9-22)	16 (6.7-20)
6	65	62	58	53	49	44	39	35	31	28	24