

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 body mass index (BMI kg/m²), 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.

Age = 50 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.8	1.8	1.5	1.3	1.2	1.0
1	3.0 (2.0-4.5)	2.8 (1.9-4.0)	2.7 (1.8-3.8)	2.4 (1.6-3.3)	2.1 (1.4-2.9)	1.8 (1.2-2.5)	1.6 (1.1-2.2)
2	4.8 (2.6-8.1)	4.4 (2.3-7.6)	4.2 (2.2-7.4)	3.7 (1.9-6.4)	3.2 (1.7-5.6)	2.8 (1.5-4.9)	2.4 (1.3-4.3)
3	7.5 (3.7-13)	6.8 (3.3-12)	6.4 (3.1-12)	5.6 (2.6-10)	4.8 (2.3-8.9)	4.2 (2.0-7.8)	3.6 (1.7-6.8)
4	12 (6.2-18)	10 (5.4-16)	9.5 (5.0-16)	8.3 (4.3-14)	7.2 (3.7-12)	6.2 (3.2-10)	5.4 (2.7-9.1)
5	17 (11-23)	15 (9.7-20)	14 (9.3-19)	12 (8.1-16)	11 (7.1-14)	9.1 (6.1-13)	7.9 (5.3-11)
6	26	22	20	17	15	13	11

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.2	2.0	2.0	1.7	1.5	1.3	1.1
1	3.5 (2.4-5.1)	3.2 (2.2-4.5)	3.0 (2.1-4.1)	2.6 (1.8-3.6)	2.3 (1.5-3.1)	2.0 (1.3-2.7)	1.7 (1.2-2.3)
2	5.5 (3.1-8.8)	4.9 (2.7-8.2)	4.7 (2.5-7.9)	4.0 (2.2-6.9)	3.5 (1.9-6.0)	3.0 (1.6-5.3)	2.6 (1.4-4.6)
3	8.5 (4.6-14)	7.6 (3.9-13)	7.0 (3.5-13)	6.1 (3.0-11)	5.3 (2.6-9.5)	4.6 (2.2-8.3)	3.9 (1.9-7.2)
4	13 (7.6-20)	11 (6.5-18)	10 (5.7-17)	9.0 (4.9-15)	7.8 (4.2-13)	6.7 (3.6-11)	5.8 (3.1-9.7)
5	19 (12-25)	17 (11-22)	15 (10-20)	13 (9.0-18)	11 (7.8-15)	9.9 (6.8-13)	8.5 (5.8-12)
6	28	25	22	19	16	14	12

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.4	2.2	2.1	1.8	1.5	1.3	1.2
1	3.8 (2.7-5.5)	3.4 (2.4-4.7)	3.2 (2.2-4.3)	2.8 (1.9-3.7)	2.4 (1.6-3.2)	2.1 (1.4-2.7)	1.8 (1.2-2.4)
2	6.0 (3.6-9.2)	5.3 (3.1-8.5)	4.9 (2.7-8.1)	4.2 (2.3-7.0)	3.6 (2.0-6.1)	3.1 (1.7-5.3)	2.7 (1.5-4.6)
3	9.3 (5.5-14)	8.1 (4.5-13)	7.4 (3.9-13)	6.3 (3.3-11)	5.4 (2.8-9.5)	4.7 (2.4-8.2)	4.0 (2.0-7.1)
4	14 (8.7-21)	12 (7.5-19)	11 (6.4-17)	9.4 (5.4-15)	8.0 (4.5-13)	6.9 (3.8-11)	5.9 (3.2-9.7)
5	21 (14-27)	18 (12-23)	16 (11-21)	14 (9.6-18)	12 (8.2-16)	10 (7.0-14)	8.6 (6.0-12)
6	30	26	23	20	17	14	12

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	2.8	2.6	2.2	1.9	1.6	1.4
1	4.9 (3.5-6.7)	4.3 (3.1-5.8)	4.0 (2.8-5.3)	3.4 (2.4-4.5)	2.9 (2.0-3.8)	2.5 (1.7-3.3)	2.1 (1.4-2.8)
2	7.5 (4.8-11)	6.6 (4.0-10)	6.1 (3.5-9.6)	5.2 (3.0-8.3)	4.4 (2.5-7.2)	3.7 (2.1-6.2)	3.2 (1.8-5.3)
3	11 (7.5-16)	10 (6.1-15)	9.1 (5.2-15)	7.7 (4.3-13)	6.5 (3.6-11)	5.6 (3.0-9.4)	4.7 (2.6-8.1)
4	17 (11-23)	15 (9.9-22)	13 (8.4-20)	11 (7.0-17)	9.6 (5.8-15)	8.1 (4.8-13)	6.9 (4.0-11)
5	24 (17-30)	21 (15-27)	19 (14-25)	16 (12-21)	14 (10-18)	12 (8.4-16)	9.9 (7.1-14)
6	33	30	27	23	19	17	14

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	4.5	3.9	3.5	3.0	2.5	2.1	1.8
1	7.0 (5.1-8.9)	6.0 (4.4-7.7)	5.3 (3.9-6.8)	4.4 (3.2-5.7)	3.7 (2.7-4.8)	3.1 (2.2-4.1)	2.6 (1.9-3.5)
2	11 (7.1-16)	9.3 (5.9-13)	8.0 (5.1-11)	6.6 (4.2-9.5)	5.5 (3.5-8.0)	4.6 (2.9-6.7)	3.9 (2.4-5.6)
3	17 (11-24)	14 (9.2-20)	12 (7.6-18)	9.9 (6.3-15)	8.2 (5.2-12)	6.8 (4.3-10)	5.7 (3.5-8.7)
4	25 (17-34)	21 (14-30)	18 (12-26)	15 (10-22)	12 (8.1-18)	10 (6.7-15)	8.4 (5.5-13)
5	34 (29-43)	31 (25-38)	26 (21-33)	22 (17-28)	18 (14-23)	15 (12-20)	12 (9.5-16)
6	46	42	37	31	26	22	18

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	6.7	5.8	5.1	4.2	3.5	2.9	2.4
1	11 (7.6-17)	9.4 (6.6-14)	7.9 (5.7-11)	6.5 (4.6-8.5)	5.3 (3.8-6.8)	4.4 (3.1-5.5)	3.6 (2.5-4.4)
2	18 (11-28)	15 (9.1-23)	12 (7.7-18)	10 (6.2-15)	8.2 (5.0-12)	6.7 (4.1-9.8)	5.4 (3.3-7.9)
3	27 (15-40)	23 (13-35)	19 (12-28)	16 (9.5-23)	13 (7.7-19)	10 (6.2-15)	8.3 (5.0-12)
4	38 (23-50)	34 (21-46)	29 (18-41)	24 (15-34)	20 (12-28)	16 (9.5-23)	13 (7.6-19)
5	50 (35-60)	46 (33-56)	41 (29-51)	35 (24-44)	29 (20-37)	24 (16-31)	19 (13-25)
6	62	59	55	48	41	35	29

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.4	8.2	7.2	5.9	4.8	4.0	3.3
1	15 (10-24)	13 (9.1-20)	11 (8.0-16)	9.1 (6.5-13)	7.4 (5.2-10)	6.0 (4.2-8.1)	4.9 (3.4-6.5)
2	23 (15-36)	20 (13-30)	17 (11-25)	14 (8.8-20)	11 (7.0-16)	9.1 (5.7-13)	7.3 (4.6-10)
3	33 (21-47)	29 (18-42)	25 (16-36)	21 (13-29)	17 (10-24)	14 (8.3-20)	11 (6.6-16)
4	45 (29-57)	41 (26-52)	36 (24-48)	30 (20-41)	25 (16-34)	20 (13-28)	16 (10-23)
5	57 (41-65)	53 (38-62)	49 (35-58)	42 (29-51)	35 (24-44)	29 (19-37)	24 (16-31)
6	67	65	61	54	47	40	34

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	10	9.4	7.6	6.2	5.0	4.1
1	17 (12-28)	16 (11-24)	14 (10-20)	11 (8.1-16)	9.3 (6.5-13)	7.5 (5.2-10)	6.1 (4.2-8.3)
2	26 (17-40)	23 (15-35)	21 (14-31)	17 (11-25)	14 (8.8-20)	11 (7.0-16)	9.0 (5.6-13)
3	37 (23-51)	33 (21-47)	30 (19-42)	25 (15-35)	20 (12-30)	17 (9.8-24)	13 (7.8-20)
4	49 (33-61)	45 (30-57)	41 (28-53)	35 (23-46)	29 (19-39)	24 (15-33)	20 (12-27)
5	60 (45-67)	57 (42-65)	53 (39-62)	46 (33-55)	40 (27-49)	33 (22-42)	28 (18-35)
6	68	67	65	58	52	45	38

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	12	11	10	8.2	6.6	5.4	4.4
1	19 (14-30)	17 (12-26)	15 (11-22)	12 (8.7-18)	10 (7.0-14)	8.1 (5.6-11)	6.5 (4.5-9.1)
2	29 (19-43)	26 (17-38)	23 (15-33)	19 (12-27)	15 (9.5-22)	12 (7.6-18)	9.8 (6.1-14)
3	40 (26-54)	36 (23-50)	33 (21-45)	27 (17-38)	22 (13-32)	18 (11-26)	15 (8.5-22)
4	51 (35-63)	48 (32-59)	44 (30-56)	38 (25-49)	32 (20-42)	26 (16-35)	21 (13-29)
5	60 (47-67)	59 (45-67)	56 (42-65)	49 (35-58)	43 (30-52)	36 (24-45)	30 (20-38)
6	66	68	67	61	55	48	41