

The UK - 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 the UK. 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	15	8.4	4.5	2.4	1.3	0.7	0.3	0.2	0.1	0.1	0.0
1	24 (16-30)	13 (8.9-17)	7.2 (4.7-9.4)	3.8 (2.5-5.0)	2.0 (1.3-2.7)	1.1 (0.7-1.4)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	34 (22-48)	20 (12-29)	11 (6.7-17)	6.0 (3.6-9.1)	3.2 (1.9-4.9)	1.7 (1.0-2.6)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	48 (32-65)	30 (18-44)	17 (10-26)	9.4 (5.4-15)	5.0 (2.8-8.1)	2.7 (1.5-4.4)	1.4 (0.8-2.3)	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	62 (47-78)	42 (29-58)	25 (16-37)	14 (9.0-22)	7.8 (4.8-12)	4.2 (2.5-6.6)	2.2 (1.3-3.5)	1.2 (0.7-1.9)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	76 (67-86)	56 (46-69)	36 (28-48)	21 (16-29)	12 (8.7-17)	6.4 (4.6-9.2)	3.4 (2.5-4.9)	1.8 (1.3-2.6)	1.0 (0.7-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.4)
6	87	71	49	31	18	9.6	5.2	2.8	1.5	0.8	0.4

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from the UK.

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	9.2	5.1	2.8	1.5	0.8	0.5	0.3	0.1	0.1	0.0
1	24 (17-29)	14 (9.6-17)	7.9 (5.4-9.8)	4.4 (3.0-5.5)	2.4 (1.6-3.0)	1.3 (0.9-1.7)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	34 (23-46)	21 (13-29)	12 (7.5-17)	6.8 (4.2-9.8)	3.8 (2.3-5.5)	2.1 (1.3-3.0)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	47 (33-61)	30 (20-42)	18 (11-27)	10 (6.3-16)	5.8 (3.5-8.9)	3.2 (1.9-5.0)	1.8 (1.0-2.8)	1.0 (0.6-1.5)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	60 (48-74)	42 (30-56)	26 (18-37)	15 (10-23)	8.8 (5.8-13)	4.9 (3.2-7.5)	2.7 (1.8-4.2)	1.5 (1.0-2.3)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	73 (66-82)	55 (47-67)	37 (30-48)	22 (18-31)	13 (10-18)	7.4 (5.7-10)	4.1 (3.2-5.9)	2.3 (1.8-3.3)	1.3 (1.0-1.8)	0.7 (0.6-1.0)	0.4 (0.3-0.6)
6	83	69	49	32	19	11	6.2	3.4	1.9	1.1	0.6

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	15	9.0	5.4	3.1	1.8	1.1	0.6	0.4	0.2	0.1	0.1
1	22 (16-25)	13 (9.5-16)	8.1 (5.6-9.5)	4.8 (3.3-5.6)	2.8 (1.9-3.3)	1.6 (1.1-1.9)	1.0 (0.7-1.1)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	31 (21-40)	20 (13-26)	12 (7.9-16)	7.2 (4.7-9.8)	4.3 (2.7-5.9)	2.5 (1.6-3.4)	1.5 (0.9-2.0)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	42 (31-53)	28 (19-37)	18 (12-24)	11 (7.0-15)	6.4 (4.1-9.3)	3.8 (2.4-5.5)	2.2 (1.4-3.3)	1.3 (0.8-1.9)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	54 (44-66)	38 (29-50)	25 (18-34)	16 (11-22)	9.5 (6.7-14)	5.6 (4.0-8.3)	3.3 (2.3-4.9)	1.9 (1.4-2.9)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.6)
5	66 (60-75)	50 (44-60)	34 (29-44)	22 (19-30)	14 (11-19)	8.3 (6.9-12)	4.9 (4.1-6.9)	2.9 (2.4-4.1)	1.8 (1.4-2.5)	1.1 (0.9-1.5)	0.6 (0.5-0.9)
6	76	62	46	31	20	12	7.3	4.3	2.6	1.6	1.0

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from the UK.

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	8.7	5.5	3.4	2.1	1.3	0.8	0.5	0.3	0.2	0.1
1	19 (14-22)	13 (9.1-14)	8.0 (5.7-9.2)	5.1 (3.6-5.8)	3.1 (2.2-3.7)	2.0 (1.4-2.3)	1.2 (0.8-1.4)	0.8 (0.5-0.9)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
2	27 (20-33)	18 (13-23)	12 (8.0-15)	7.4 (5.0-9.6)	4.7 (3.1-6.0)	2.9 (1.9-3.8)	1.8 (1.2-2.4)	1.1 (0.7-1.5)	0.7 (0.5-0.9)	0.5 (0.3-0.6)	0.3 (0.2-0.4)
3	36 (28-45)	25 (19-32)	17 (12-22)	11 (7.6-14)	6.8 (4.7-9.2)	4.3 (3.0-5.8)	2.7 (1.8-3.7)	1.7 (1.1-2.3)	1.1 (0.7-1.5)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
4	46 (39-56)	33 (27-43)	23 (18-30)	15 (12-21)	9.8 (7.4-14)	6.2 (4.7-8.7)	3.9 (2.9-5.5)	2.5 (1.8-3.5)	1.6 (1.2-2.3)	1.0 (0.7-1.5)	0.6 (0.5-0.9)
5	57 (53-65)	43 (39-52)	31 (28-39)	21 (19-28)	14 (12-19)	9.0 (7.7-12)	5.7 (4.8-7.7)	3.6 (3.1-4.9)	2.3 (2.0-3.2)	1.5 (1.3-2.1)	1.0 (0.8-1.3)
6	66	54	41	29	19	13	8.1	5.2	3.4	2.2	1.4

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	12	8.3	5.6	3.7	2.4	1.6	1.1	0.7	0.5	0.3	0.2
1	19 (17-24)	13 (12-17)	8.9 (7.8-11)	5.9 (5.2-7.7)	3.9 (3.4-5.1)	2.6 (2.3-3.4)	1.7 (1.5-2.2)	1.1 (1.0-1.5)	0.8 (0.7-1.0)	0.5 (0.5-0.7)	0.4 (0.3-0.5)
2	28 (23-34)	20 (17-25)	14 (11-18)	9.4 (7.7-12)	6.3 (5.2-8.4)	4.2 (3.4-5.6)	2.8 (2.3-3.7)	1.9 (1.5-2.5)	1.3 (1.0-1.7)	0.9 (0.7-1.2)	0.6 (0.5-0.8)
3	39 (32-46)	29 (24-35)	21 (17-26)	15 (11-18)	9.9 (7.7-13)	6.7 (5.2-8.5)	4.5 (3.4-5.7)	3.0 (2.3-3.9)	2.1 (1.6-2.6)	1.4 (1.1-1.8)	0.9 (0.7-1.2)
4	51 (43-57)	40 (33-46)	30 (24-35)	22 (17-26)	15 (12-18)	10 (7.9-13)	7.1 (5.3-8.5)	4.8 (3.6-5.8)	3.3 (2.4-4.0)	2.3 (1.7-2.7)	1.5 (1.1-1.9)
5	62 (54-66)	52 (44-56)	41 (34-44)	31 (25-34)	23 (18-25)	16 (12-18)	11 (8.4-12)	7.6 (5.8-8.5)	5.3 (4.0-5.9)	3.6 (2.7-4.1)	2.5 (1.9-2.8)
6	71	63	53	43	32	24	17	12	8.2	5.7	3.9

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from the UK.

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	11	8.1	5.7	4.0	2.8	2.0	1.4	1.0	0.7	0.5	0.4
1	19 (15-37)	14 (11-29)	11 (8.0-22)	7.6 (5.7-16)	5.4 (4.0-12)	3.8 (2.8-8.3)	2.7 (2.0-5.8)	1.9 (1.4-4.2)	1.4 (1.0-3.0)	1.0 (0.7-2.2)	0.7 (0.5-1.6)
2	30 (20-48)	23 (15-39)	18 (11-30)	13 (7.9-23)	9.5 (5.6-17)	6.8 (4.0-13)	4.8 (2.8-9.1)	3.5 (2.0-6.7)	2.5 (1.4-4.9)	1.8 (1.0-3.5)	1.3 (0.7-2.5)
3	42 (27-58)	34 (20-49)	27 (15-40)	21 (11-32)	16 (7.9-24)	11 (5.6-18)	8.3 (4.0-13)	6.1 (2.9-9.9)	4.4 (2.1-7.3)	3.2 (1.5-5.3)	2.3 (1.1-3.9)
4	55 (35-66)	47 (28-58)	39 (21-49)	31 (16-40)	24 (12-32)	18 (8.4-24)	13 (6.0-18)	10 (4.4-14)	7.4 (3.2-10)	5.5 (2.3-7.5)	4.0 (1.7-5.5)
5	66 (45-72)	59 (37-66)	51 (29-58)	43 (22-49)	35 (17-40)	27 (12-32)	21 (9.0-24)	16 (6.6-19)	12 (4.9-14)	8.9 (3.6-10)	6.6 (2.6-7.6)
6	76	71	64	56	47	39	31	24	19	14	11

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	10	7.7	5.7	4.3	3.2	2.4	1.8	1.3	1.0	0.8	0.6
1	17 (13-33)	13 (9.9-27)	10 (7.5-21)	7.8 (5.6-17)	5.9 (4.2-13)	4.4 (3.1-9.7)	3.3 (2.3-7.3)	2.5 (1.8-5.6)	1.9 (1.3-4.3)	1.5 (1.0-3.3)	1.1 (0.8-2.5)
2	26 (17-43)	21 (13-36)	17 (9.8-30)	13 (7.4-24)	10 (5.6-18)	7.6 (4.2-14)	5.8 (3.1-11)	4.4 (2.4-8.4)	3.4 (1.8-6.5)	2.6 (1.4-5.0)	2.0 (1.1-3.9)
3	37 (22-52)	31 (17-45)	25 (13-38)	20 (10-31)	16 (7.8-25)	12 (5.9-20)	9.5 (4.4-16)	7.4 (3.4-12)	5.7 (2.6-9.6)	4.4 (2.0-7.5)	3.4 (1.5-5.8)
4	49 (29-61)	42 (23-54)	35 (18-47)	29 (14-39)	24 (11-33)	19 (8.5-26)	15 (6.4-21)	12 (5.0-17)	9.3 (3.9-13)	7.2 (3.0-10)	5.6 (2.3-8.1)
5	60 (38-66)	54 (32-60)	47 (26-53)	40 (20-46)	34 (16-39)	28 (12-32)	22 (9.5-26)	18 (7.4-21)	14 (5.8-17)	11 (4.5-14)	8.9 (3.5-11)
6	70	65	59	52	45	38	32	26	21	17	14

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from the UK.

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	8.9	7.1	5.6	4.4	3.5	2.7	2.2	1.7	1.4	1.1	0.9
1	15 (11-30)	12 (9.0-25)	9.9 (7.2-21)	7.9 (5.7-17)	6.3 (4.5-14)	5.0 (3.5-11)	4.0 (2.8-8.8)	3.2 (2.3-7.2)	2.6 (1.8-5.8)	2.1 (1.5-4.7)	1.7 (1.2-3.8)
2	23 (14-39)	19 (12-34)	16 (9.3-28)	13 (7.4-24)	10 (5.8-19)	8.4 (4.6-16)	6.8 (3.7-13)	5.5 (3.0-11)	4.5 (2.4-8.6)	3.7 (1.9-7.0)	3.0 (1.6-5.7)
3	33 (19-48)	28 (16-42)	24 (13-36)	20 (10-31)	16 (8.1-26)	13 (6.4-21)	11 (5.2-18)	9.0 (4.2-15)	7.4 (3.4-12)	6.0 (2.7-10)	4.9 (2.2-8.2)
4	45 (26-56)	39 (21-51)	34 (17-45)	29 (14-39)	24 (11-33)	20 (9.0-28)	17 (7.3-23)	14 (6.0-20)	12 (4.8-17)	9.6 (3.9-14)	7.9 (3.2-11)
5	56 (34-62)	51 (29-57)	45 (24-51)	39 (20-45)	34 (16-39)	29 (13-34)	24 (11-29)	21 (8.8-24)	17 (7.2-21)	15 (5.9-17)	12 (4.8-14)
6	66	62	57	51	45	40	34	30	25	21	18

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)	11 (8.4-24)	9.5 (6.9-20)	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 (1.9-6.0)	2.3 (1.6-5.1)
2	21 (13-37)	18 (11-32)	16 (9.1-28)	13 (7.5-24)	11 (6.2-20)	9.1 (5.1-17)	7.7 (4.3-14)	6.6 (3.6-12)	5.6 (3.0-11)	4.7 (2.6-9.0)	4.0 (2.1-7.6)
3	31 (18-46)	27 (15-41)	24 (12-36)	20 (10-32)	17 (8.6-27)	15 (7.1-23)	13 (6.0-20)	11 (5.1-18)	9.2 (4.3-15)	7.8 (3.6-13)	6.6 (3.0-11)
4	42 (24-54)	38 (20-49)	34 (17-44)	29 (15-40)	26 (12-35)	22 (10-30)	19 (8.6-27)	17 (7.3-23)	14 (6.2-20)	12 (5.3-18)	11 (4.5-15)
5	53 (32-59)	49 (28-55)	45 (24-51)	40 (21-46)	36 (18-41)	32 (15-36)	28 (13-32)	25 (11-29)	22 (9.2-25)	19 (7.8-22)	16 (6.7-19)
6	62	59	56	52	47	43	38	35	31	27	24