

The US (Caucasian) - 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 US (Caucasian). 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	7.9	4.2	2.2	1.2	0.6	0.3	0.2	0.1	0.1	0.0
1	22 (15-28)	12 (8.3-16)	6.7 (4.4-8.8)	3.6 (2.3-4.7)	1.9 (1.2-2.5)	1.0 (0.7-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	33 (21-45)	19 (12-28)	10 (6.3-16)	5.6 (3.3-8.5)	3.0 (1.8-4.6)	1.6 (0.9-2.4)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	45 (30-62)	28 (17-41)	16 (9.4-25)	8.8 (5.0-14)	4.7 (2.7-7.6)	2.5 (1.4-4.1)	1.3 (0.7-2.2)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	60 (45-75)	40 (27-55)	24 (15-35)	13 (8.4-20)	7.3 (4.5-11)	3.9 (2.4-6.1)	2.1 (1.3-3.3)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	74 (64-84)	53 (43-67)	34 (26-45)	20 (15-28)	11 (8.1-16)	6.0 (4.3-8.6)	3.2 (2.3-4.6)	1.7 (1.2-2.4)	0.9 (0.6-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	85	68	47	29	16	9.0	4.8	2.6	1.4	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 US (Caucasian).

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	15	8.5	4.7	2.6	1.4	0.8	0.4	0.2	0.1	0.1	0.0
1	22 (16-27)	13 (8.9-16)	7.4 (5.0-9.1)	4.1 (2.7-5.1)	2.2 (1.5-2.8)	1.2 (0.8-1.5)	0.7 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	32 (22-43)	20 (12-27)	11 (7.0-16)	6.3 (3.9-9.1)	3.5 (2.1-5.1)	1.9 (1.2-2.8)	1.1 (0.6-1.5)	0.6 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	44 (31-59)	28 (18-40)	17 (10-25)	9.6 (5.9-15)	5.4 (3.2-8.3)	3.0 (1.8-4.6)	1.6 (1.0-2.6)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
4	58 (45-72)	39 (29-53)	24 (17-35)	14 (9.6-21)	8.2 (5.4-12)	4.6 (3.0-7.0)	2.5 (1.6-3.9)	1.4 (0.9-2.1)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.2-0.4)
5	71 (64-81)	52 (44-64)	34 (28-45)	21 (17-29)	12 (9.5-17)	6.9 (5.3-9.7)	3.8 (3.0-5.5)	2.1 (1.6-3.0)	1.2 (0.9-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.5)
6	82	66	47	30	18	10	5.7	3.2	1.8	1.0	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	14	8.6	5.1	3.0	1.7	1.0	0.6	0.3	0.2	0.1	0.1
1	21 (15-24)	13 (9.0-15)	7.7 (5.3-9.0)	4.5 (3.1-5.3)	2.7 (1.8-3.1)	1.5 (1.1-1.8)	0.9 (0.6-1.1)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	30 (20-38)	19 (13-25)	11 (7.5-15)	6.9 (4.4-9.4)	4.0 (2.6-5.5)	2.4 (1.5-3.3)	1.4 (0.9-1.9)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	40 (29-52)	27 (18-36)	17 (11-24)	10 (6.6-15)	6.1 (3.9-8.9)	3.6 (2.3-5.3)	2.1 (1.3-3.1)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.3 (0.2-0.4)
4	52 (42-64)	37 (28-48)	24 (18-33)	15 (11-21)	9.0 (6.4-13)	5.4 (3.7-7.9)	3.2 (2.2-4.7)	1.8 (1.3-2.8)	1.1 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
5	64 (59-74)	48 (42-59)	33 (28-43)	21 (18-29)	13 (11-18)	7.9 (6.6-11)	4.7 (3.9-6.6)	2.8 (2.3-3.9)	1.7 (1.4-2.4)	1.0 (0.8-1.4)	0.6 (0.5-0.9)
6	75	61	44	30	19	12	6.9	4.1	2.5	1.5	0.9

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

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	20 (14-22)	13 (9.1-15)	8.1 (5.8-9.4)	5.1 (3.6-5.9)	3.2 (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 (20-34)	18 (13-23)	12 (8.1-15)	7.5 (5.1-9.7)	4.7 (3.1-6.1)	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	37 (28-45)	25 (19-32)	17 (12-22)	11 (7.6-15)	6.9 (4.7-9.4)	4.3 (2.9-6.0)	2.7 (1.8-3.7)	1.7 (1.1-2.4)	1.1 (0.7-1.5)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
4	47 (40-57)	34 (28-44)	23 (18-31)	16 (12-21)	10 (7.5-14)	6.3 (4.7-8.9)	4.0 (2.9-5.6)	2.5 (1.8-3.6)	1.6 (1.2-2.3)	1.0 (0.8-1.5)	0.6 (0.5-0.9)
5	58 (54-66)	44 (40-54)	32 (28-40)	22 (19-28)	14 (12-19)	9.1 (7.8-12)	5.8 (4.9-7.9)	3.6 (3.1-5.0)	2.3 (2.0-3.2)	1.5 (1.3-2.1)	1.0 (0.8-1.3)
6	68	55	42	29	20	13	8.3	5.3	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	14	9.4	6.3	4.1	2.7	1.8	1.2	0.8	0.5	0.4	0.2
1	21 (19-27)	15 (13-19)	10 (8.8-13)	6.7 (5.8-8.6)	4.4 (3.8-5.7)	2.9 (2.5-3.8)	1.9 (1.7-2.5)	1.3 (1.1-1.7)	0.9 (0.7-1.1)	0.6 (0.5-0.8)	0.4 (0.3-0.5)
2	31 (27-39)	22 (19-29)	16 (13-20)	11 (8.7-14)	7.2 (5.8-9.5)	4.8 (3.8-6.4)	3.1 (2.5-4.2)	2.1 (1.7-2.8)	1.4 (1.1-1.9)	1.0 (0.8-1.3)	0.6 (0.5-0.9)
3	43 (36-50)	33 (27-39)	24 (19-29)	17 (13-21)	11 (8.8-14)	7.6 (5.9-9.6)	5.1 (3.9-6.4)	3.4 (2.6-4.4)	2.3 (1.7-3.0)	1.6 (1.2-2.0)	1.1 (0.8-1.4)
4	55 (48-62)	45 (37-51)	34 (27-39)	25 (19-29)	17 (13-21)	12 (8.9-14)	8.1 (6.0-9.6)	5.5 (4.0-6.6)	3.8 (2.7-4.5)	2.6 (1.9-3.1)	1.7 (1.3-2.1)
5	66 (59-70)	57 (49-60)	46 (38-49)	35 (28-38)	26 (20-28)	18 (14-20)	13 (9.7-14)	8.7 (6.6-9.8)	6.0 (4.6-6.8)	4.1 (3.1-4.7)	2.8 (2.1-3.2)
6	74	67	58	47	37	27	19	14	9.5	6.6	4.5

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

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	14	10	7.4	5.2	3.6	2.5	1.7	1.2	0.9	0.6	0.5
1	24 (20-45)	18 (14-35)	13 (10-27)	9.7 (7.2-20)	6.9 (5.1-15)	4.8 (3.5-10)	3.4 (2.5-7.3)	2.4 (1.8-5.3)	1.7 (1.3-3.8)	1.2 (0.9-2.7)	0.9 (0.6-1.9)
2	37 (26-56)	29 (20-47)	22 (14-38)	17 (10-29)	12 (7.2-22)	8.7 (5.0-16)	6.2 (3.5-12)	4.5 (2.5-8.6)	3.2 (1.8-6.2)	2.3 (1.3-4.5)	1.7 (0.9-3.3)
3	50 (34-65)	42 (26-57)	34 (20-49)	26 (14-39)	20 (10-31)	15 (7.4-23)	11 (5.2-17)	7.8 (3.8-13)	5.7 (2.7-9.3)	4.1 (1.9-6.8)	3.0 (1.4-4.9)
4	62 (43-72)	54 (35-65)	46 (28-58)	38 (21-49)	30 (15-39)	23 (11-31)	17 (7.8-23)	13 (5.7-18)	9.6 (4.1-13)	7.0 (2.9-9.8)	5.1 (2.1-7.2)
5	72 (53-77)	66 (45-72)	59 (37-66)	51 (29-58)	43 (22-49)	34 (16-39)	27 (12-30)	21 (8.8-24)	16 (6.5-18)	12 (4.7-14)	8.5 (3.4-10)
6	79	75	70	63	56	47	38	31	24	18	14

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	14	11	8.0	5.9	4.4	3.2	2.4	1.8	1.4	1.0	0.8
1	23 (18-43)	18 (14-36)	14 (10-29)	11 (7.7-22)	8.1 (5.7-17)	6.1 (4.2-13)	4.5 (3.1-9.8)	3.4 (2.4-7.5)	2.6 (1.8-5.7)	2.0 (1.3-4.4)	1.5 (1.0-3.3)
2	34 (23-54)	28 (18-46)	23 (14-38)	18 (11-31)	14 (8.0-25)	10 (5.9-19)	8.0 (4.4-15)	6.1 (3.3-12)	4.7 (2.5-9.1)	3.6 (1.9-7.0)	2.7 (1.4-5.3)
3	46 (30-62)	40 (24-56)	33 (19-49)	27 (15-41)	22 (11-34)	17 (8.4-27)	13 (6.3-21)	10 (4.8-17)	8.0 (3.7-13)	6.1 (2.8-10)	4.7 (2.1-8.0)
4	58 (39-69)	52 (32-64)	45 (26-57)	38 (21-50)	32 (16-42)	26 (12-35)	20 (9.4-28)	16 (7.2-23)	13 (5.5-18)	10 (4.2-14)	7.8 (3.2-11)
5	68 (48-74)	63 (42-69)	57 (35-63)	50 (28-57)	43 (23-49)	37 (18-42)	30 (14-35)	25 (11-29)	20 (8.4-24)	16 (6.5-19)	12 (5.0-15)
6	76	72	67	62	55	49	42	35	29	24	19

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

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	12	9.1	7.1	5.6	4.3	3.3	2.6	2.1	1.6	1.3	1.0
1	20 (15-38)	16 (12-32)	13 (9.2-26)	10 (7.2-21)	7.9 (5.6-17)	6.2 (4.4-13)	4.9 (3.4-11)	3.9 (2.7-8.6)	3.1 (2.2-6.9)	2.5 (1.7-5.5)	2.0 (1.4-4.4)
2	30 (20-49)	25 (16-42)	21 (13-35)	17 (9.9-30)	13 (7.8-24)	11 (6.1-20)	8.6 (4.8-16)	6.9 (3.8-13)	5.6 (3.0-11)	4.5 (2.4-8.6)	3.6 (1.9-6.9)
3	42 (26-58)	36 (21-52)	31 (17-46)	26 (14-39)	21 (11-33)	17 (8.5-28)	14 (6.8-23)	12 (5.4-19)	9.4 (4.4-16)	7.6 (3.5-13)	6.1 (2.8-10)
4	54 (34-65)	48 (29-60)	42 (24-54)	37 (19-48)	31 (16-42)	26 (13-35)	22 (10-30)	18 (8.1-25)	15 (6.5-21)	12 (5.3-17)	10 (4.2-14)
5	65 (44-71)	60 (38-66)	55 (32-61)	49 (27-55)	43 (22-49)	37 (18-43)	32 (15-37)	27 (12-32)	23 (9.8-27)	19 (8.0-23)	16 (6.4-19)
6	73	70	66	61	55	49	44	38	33	28	24

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	7.3	6.0	4.9	4.0	3.2	2.6	2.2	1.8	1.5	1.2	1.0
1	13 (9.5-26)	11 (7.8-22)	8.9 (6.3-19)	7.3 (5.2-16)	6.0 (4.2-13)	4.9 (3.4-11)	4.1 (2.8-8.9)	3.4 (2.4-7.5)	2.8 (2.0-6.3)	2.4 (1.6-5.3)	2.0 (1.4-4.4)
2	21 (13-36)	18 (10-31)	15 (8.6-26)	12 (7.1-22)	10 (5.8-19)	8.5 (4.7-16)	7.1 (3.9-13)	6.0 (3.3-11)	5.0 (2.8-9.6)	4.2 (2.3-8.1)	3.5 (1.9-6.8)
3	31 (17-45)	27 (14-40)	23 (12-35)	19 (9.8-31)	16 (8.1-26)	14 (6.6-22)	12 (5.5-19)	10 (4.7-16)	8.5 (3.9-14)	7.1 (3.3-12)	6.0 (2.7-10)
4	42 (24-54)	38 (20-49)	33 (17-44)	29 (14-39)	25 (12-34)	21 (9.7-29)	18 (8.2-25)	16 (7.0-22)	14 (5.9-19)	12 (4.9-16)	9.8 (4.1-14)
5	54 (32-60)	50 (28-56)	45 (24-51)	40 (20-46)	35 (17-41)	31 (14-36)	27 (12-32)	24 (10-28)	21 (8.7-24)	18 (7.4-21)	15 (6.2-18)
6	65	61	57	52	48	43	38	34	30	26	23