New Zealand - 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 New Zealand. 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	10	5.3	2.8	1.5	0.8	0.4	0.2	0.1	0.1	0.0	0.0
1	15 (10-20)	8.5 (5.6-11)	4.5 (3.0-6.0)	2.4 (1.6-3.2)	1.3 (0.8-1.7)	0.7 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	23 (15-34)	13 (7.9-19)	7.1 (4.2-11)	3.8 (2.2-5.8)	2.0 (1.2-3.1)	1.1 (0.6-1.6)	0.6 (0.3-0.9)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	34 (21-49)	20 (12-30)	11 (6.4-17)	6.0 (3.4-9.6)	3.2 (1.8-5.1)	1.7 (0.9-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	47 (33-63)	29 (19-42)	17 (11-25)	9.2 (5.7-14)	4.9 (3.0-7.7)	2.6 (1.6-4.1)	1.4 (0.8-2.2)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	61 (51-74)	41 (32-53)	24 (18-34)	14 (10-20)	7.5 (5.5-11)	4.0 (2.9-5.8)	2.1 (1.5-3.1)	1.1 (0.8-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
6	75	55	35	20	11	6.1	3.3	1.7	0.9	0.5	0.3

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

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	10	5.8	3.2	1.8	1.0	0.5	0.3	0.2	0.1	0.1	0.0
1	16 (11-19)	9.0 (6.1-11)	5.0 (3.4-6.2)	2.8 (1.8-3.4)	1.5 (1.0-1.9)	0.8 (0.6-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	23 (15-32)	14 (8.5-19)	7.7 (4.7-11)	4.3 (2.6-6.2)	2.4 (1.4-3.4)	1.3 (0.8-1.9)	0.7 (0.4-1.0)	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	34 (22-47)	20 (13-30)	12 (7.2-18)	6.6 (4.0-10)	3.7 (2.2-5.7)	2.0 (1.2-3.1)	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)
4	46 (34-61)	29 (20-41)	17 (12-26)	10 (6.6-15)	5.6 (3.7-8.5)	3.1 (2.0-4.8)	1.7 (1.1-2.6)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	60 (51-72)	41 (33-52)	25 (20-34)	15 (12-21)	8.4 (6.6-12)	4.7 (3.6-6.7)	2.6 (2.0-3.7)	1.4 (1.1-2.0)	0.8 (0.6-1.2)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	73	54	35	22	12	7.0	3.9	2.1	1.2	0.7	0.4

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	9.5	5.6	3.3	1.9	1.1	0.6	0.4	0.2	0.1	0.1	0.1
1	14 (9.9-16)	8.5 (5.9-10)	5.0 (3.5-5.9)	2.9 (2.0-3.5)	1.7 (1.2-2.0)	1.0 (0.7-1.2)	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 (0.1-0.1)
2	21 (14-27)	13 (8.3-17)	7.6 (4.9-10)	4.5 (2.9-6.1)	2.6 (1.7-3.6)	1.5 (1.0-2.1)	0.9 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	29 (20-39)	18 (12-26)	11 (7.3-16)	6.7 (4.3-9.7)	4.0 (2.5-5.8)	2.3 (1.5-3.4)	1.4 (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)
4	39 (30-51)	26 (19-36)	16 (12-23)	9.9 (7.0-14)	5.9 (4.1-8.7)	3.5 (2.4-5.2)	2.0 (1.4-3.0)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
5	51 (45-62)	36 (31-46)	23 (20-31)	14 (12-20)	8.7 (7.2-12)	5.2 (4.3-7.3)	3.0 (2.5-4.3)	1.8 (1.5-2.5)	1.1 (0.9-1.5)	0.6 (0.5-0.9)	0.4 (0.3-0.6)
6	63	47	32	21	13	7.6	4.5	2.7	1.6	1.0	0.6

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

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	9.8	6.2	3.9	2.4	1.5	0.9	0.6	0.4	0.2	0.1	0.1
1	14 (10-16)	9.1 (6.5-10)	5.7 (4.1-6.6)	3.6 (2.5-4.1)	2.2 (1.6-2.6)	1.4 (1.0-1.6)	0.8 (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	20 (14-25)	13 (9.1-17)	8.4 (5.7-11)	5.3 (3.6-6.8)	3.3 (2.2-4.3)	2.0 (1.4-2.7)	1.3 (0.8-1.7)	0.8 (0.5-1.0)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	28 (21-35)	19 (13-24)	12 (8.6-16)	7.7 (5.4-10)	4.8 (3.4-6.6)	3.0 (2.1-4.2)	1.9 (1.3-2.6)	1.2 (0.8-1.6)	0.8 (0.5-1.0)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	37 (30-46)	26 (20-33)	17 (13-23)	11 (8.4-15)	7.0 (5.3-9.8)	4.4 (3.3-6.3)	2.8 (2.1-3.9)	1.7 (1.3-2.5)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.5 (0.3-0.7)
5	47 (43-56)	34 (31-43)	24 (21-30)	16 (14-21)	10 (8.7-14)	6.4 (5.5-8.7)	4.0 (3.4-5.5)	2.5 (2.2-3.5)	1.6 (1.4-2.3)	1.0 (0.9-1.5)	0.7 (0.6-0.9)
6	57	44	32	22	14	9.2	5.8	3.7	2.4	1.5	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	7.3	4.8	3.2	2.1	1.4	0.9	0.6	0.4	0.3	0.2
1	17 (15-21)	11 (10-15)	7.7 (6.8-10)	5.2 (4.5-6.7)	3.4 (3.0-4.5)	2.3 (2.0-2.9)	1.5 (1.3-1.9)	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	25 (21-31)	18 (15-22)	12 (9.9-16)	8.2 (6.7-11)	5.5 (4.5-7.3)	3.7 (3.0-4.9)	2.4 (2.0-3.2)	1.6 (1.3-2.2)	1.1 (0.9-1.5)	0.7 (0.6-1.0)	0.5 (0.4-0.7)
3	35 (29-42)	26 (21-31)	18 (15-23)	13 (10-16)	8.7 (6.7-11)	5.8 (4.5-7.4)	3.9 (3.0-5.0)	2.6 (2.0-3.4)	1.8 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.1)
4	46 (39-53)	36 (30-42)	27 (21-32)	19 (15-23)	13 (10-16)	9.1 (6.9-11)	6.2 (4.6-7.4)	4.2 (3.1-5.1)	2.9 (2.1-3.5)	2.0 (1.4-2.4)	1.3 (1.0-1.6)
5	58 (50-62)	48 (40-51)	37 (30-40)	28 (22-30)	20 (16-22)	14 (11-16)	9.6 (7.3-11)	6.6 (5.0-7.4)	4.6 (3.4-5.1)	3.1 (2.4-3.5)	2.1 (1.6-2.4)
6	67	59	49	38	29	21	15	10	7.2	5.0	3.4

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

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	5.8	4.1	2.9	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 (2.0-5.9)	1.9 (1.4-4.2)	1.4 (1.0-3.1)	1.0 (0.7-2.2)	0.7 (0.5-1.6)
2	30 (20-48)	23 (15-39)	18 (11-30)	13 (8.0-23)	9.5 (5.7-17)	6.8 (4.0-13)	4.9 (2.8-9.1)	3.5 (2.0-6.7)	2.6 (1.4-4.9)	1.8 (1.0-3.6)	1.3 (0.7-2.6)
3	42 (27-57)	34 (20-49)	27 (15-40)	21 (11-32)	16 (8.0-25)	11 (5.7-18)	8.3 (4.0-13)	6.1 (2.9-10)	4.5 (2.1-7.3)	3.2 (1.5-5.3)	2.3 (1.1-3.9)
4	54 (35-65)	47 (28-58)	39 (21-49)	31 (16-40)	24 (12-32)	18 (8.5-25)	14 (6.0-18)	10 (4.4-14)	7.5 (3.2-10)	5.5 (2.3-7.5)	4.0 (1.7-5.5)
5	66 (45-72)	59 (37-65)	51 (29-58)	43 (23-49)	35 (17-40)	27 (12-32)	21 (9.1-24)	16 (6.7-19)	12 (4.9-14)	9.0 (3.6-10)	6.6 (2.6-7.7)
6	76	70	63	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	11	8.2	6.2	4.6	3.4	2.5	1.9	1.4	1.1	0.8	0.6
1	18 (14-35)	14 (11-29)	11 (8.0-23)	8.4 (6.0-18)	6.3 (4.5-14)	4.7 (3.3-10)	3.5 (2.5-7.8)	2.7 (1.9-6.0)	2.1 (1.4-4.6)	1.6 (1.1-3.5)	1.2 (0.8-2.7)
2	28 (18-46)	22 (14-38)	18 (11-31)	14 (8.1-25)	11 (6.1-20)	8.2 (4.5-15)	6.2 (3.4-12)	4.8 (2.6-9.1)	3.7 (2.0-7.0)	2.8 (1.5-5.4)	2.1 (1.2-4.2)
3	39 (24-55)	33 (19-48)	27 (14-40)	22 (11-33)	17 (8.4-27)	13 (6.4-21)	10 (4.8-17)	8.0 (3.7-13)	6.2 (2.8-10)	4.8 (2.2-8.1)	3.7 (1.6-6.2)
4	51 (31-63)	44 (25-56)	37 (20-49)	31 (16-42)	25 (12-35)	20 (9.2-28)	16 (7.0-22)	13 (5.4-18)	10 (4.2-14)	7.8 (3.2-11)	6.0 (2.5-8.6)
5	62 (41-68)	56 (34-62)	49 (28-56)	42 (22-48)	36 (17-41)	29 (13-34)	24 (10-28)	19 (8.1-23)	15 (6.3-18)	12 (4.9-15)	9.6 (3.7-12)
6	72	67	61	55	48	40	34	28	23	18	15

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

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	9.2	7.3	5.7	4.5	3.5	2.7	2.2	1.7	1.4	1.1	0.9
1	16 (12-31)	13 (9.4-26)	10 (7.4-21)	8.1 (5.9-17)	6.4 (4.6-14)	5.1 (3.6-11)	4.0 (2.8-8.9)	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	24 (15-41)	20 (12-35)	17 (9.7-29)	13 (7.7-24)	11 (6.1-20)	8.6 (4.8-16)	6.9 (3.8-13)	5.6 (3.1-11)	4.6 (2.5-8.7)	3.7 (2.0-7.0)	3.0 (1.6-5.7)
3	35 (20-50)	30 (16-44)	25 (13-38)	21 (11-32)	17 (8.4-27)	14 (6.7-22)	11 (5.3-18)	9.3 (4.3-15)	7.6 (3.5-13)	6.2 (2.8-10)	5.0 (2.2-8.4)
4	46 (27-58)	41 (22-52)	35 (18-46)	30 (15-40)	25 (12-34)	21 (9.5-29)	17 (7.7-24)	14 (6.3-20)	12 (5.1-17)	9.9 (4.1-14)	8.1 (3.3-12)
5	58 (36-64)	53 (31-59)	47 (26-53)	41 (21-47)	36 (17-41)	30 (14-35)	26 (11-30)	22 (9.3-25)	18 (7.6-21)	15 (6.1-18)	13 (5.0-15)
6	68	64	59	53	47	41	36	31	27	22	19

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	6.8	5.6	4.6	3.8	3.1	2.5	2.1	1.7	1.5	1.2	1.0
1	12 (8.8-25)	10 (7.3-21)	8.3 (6.0-18)	6.8 (4.9-15)	5.6 (4.0-12)	4.6 (3.3-10)	3.9 (2.7-8.6)	3.3 (2.3-7.3)	2.7 (1.9-6.1)	2.3 (1.6-5.2)	1.9 (1.3-4.3)
2	19 (12-33)	16 (9.6-29)	14 (7.9-25)	11 (6.5-21)	9.6 (5.3-18)	7.9 (4.4-15)	6.7 (3.7-13)	5.7 (3.1-11)	4.8 (2.6-9.1)	4.1 (2.2-7.7)	3.4 (1.8-6.5)
3	28 (16-42)	25 (13-37)	21 (11-33)	18 (9.0-28)	15 (7.5-24)	13 (6.1-21)	11 (5.2-18)	9.3 (4.3-15)	8.0 (3.7-13)	6.8 (3.1-11)	5.7 (2.6-9.6)
4	39 (21-50)	35 (18-46)	31 (15-41)	27 (13-36)	23 (11-32)	20 (8.9-27)	17 (7.5-24)	15 (6.4-21)	13 (5.4-18)	11 (4.5-15)	9.2 (3.8-13)
5	50 (29-57)	46 (25-52)	42 (22-48)	37 (18-43)	33 (15-38)	29 (13-33)	25 (11-29)	22 (9.4-26)	19 (8.0-23)	17 (6.8-20)	14 (5.8-17)
6	61	57	53	49	44	39	35	31	28	24	21