

**New Zealand - The probabilities of a hip fracture in men**

The following tables give the 10-year probability (%) of a hip fracture according to body mass index (BMI kg/m<sup>2</sup>), 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.

**Age = 50 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	0.5 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
2	1.0 (0.5-2.1)	0.6 (0.3-1.2)	0.3 (0.2-0.7)	0.2 (0.1-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)	0.1 (0.1-0.2)
3	1.9 (0.8-3.8)	1.1 (0.4-2.2)	0.6 (0.2-1.2)	0.5 (0.2-0.9)	0.4 (0.1-0.7)	0.3 (0.1-0.6)	0.2 (0.1-0.4)
4	3.4 (1.4-5.7)	2.0 (0.8-3.3)	1.1 (0.4-1.8)	0.9 (0.3-1.4)	0.7 (0.3-1.1)	0.5 (0.2-0.9)	0.4 (0.2-0.7)
5	6.1 (2.7-8.0)	3.5 (1.6-4.7)	2.0 (0.9-2.7)	1.6 (0.7-2.1)	1.2 (0.5-1.6)	0.9 (0.4-1.3)	0.7 (0.3-1.0)
6	10	6.2	3.5	2.7	2.1	1.6	1.3

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

**Age = 55 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	0.5	0.3	0.2	0.1	0.1	0.1	0.1
1	0.9 (0.6-1.6)	0.5 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	1.7 (0.9-3.2)	1.0 (0.5-1.9)	0.5 (0.3-1.1)	0.4 (0.2-0.8)	0.3 (0.2-0.6)	0.2 (0.1-0.5)	0.2 (0.1-0.4)
3	3.0 (1.4-5.6)	1.7 (0.8-3.3)	1.0 (0.4-1.9)	0.8 (0.3-1.4)	0.6 (0.3-1.1)	0.5 (0.2-0.9)	0.4 (0.2-0.7)
4	5.3 (2.4-8.4)	3.1 (1.4-5.0)	1.8 (0.8-2.8)	1.4 (0.6-2.2)	1.1 (0.5-1.7)	0.8 (0.4-1.3)	0.6 (0.3-1.0)
5	9.0 (4.7-12)	5.4 (2.8-7.1)	3.1 (1.6-4.1)	2.4 (1.2-3.2)	1.9 (1.0-2.5)	1.4 (0.7-1.9)	1.1 (0.6-1.5)
6	15	9.2	5.4	4.2	3.2	2.5	1.9

**Age = 60 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	0.8	0.5	0.3	0.2	0.2	0.1	0.1
1	1.4 (1.0-2.3)	0.8 (0.6-1.4)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)	0.2 (0.1-0.3)
2	2.5 (1.4-4.3)	1.5 (0.9-2.7)	0.9 (0.5-1.6)	0.7 (0.4-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.6)
3	4.3 (2.2-7.5)	2.6 (1.3-4.7)	1.6 (0.8-2.8)	1.2 (0.6-2.1)	0.9 (0.5-1.7)	0.7 (0.4-1.3)	0.5 (0.3-1.0)
4	7.2 (3.8-11)	4.5 (2.3-7.0)	2.7 (1.4-4.2)	2.1 (1.1-3.2)	1.6 (0.8-2.5)	1.2 (0.6-1.9)	1.0 (0.5-1.5)
5	12 (7.0-15)	7.6 (4.5-9.7)	4.6 (2.7-6.0)	3.6 (2.1-4.6)	2.8 (1.6-3.6)	2.1 (1.3-2.8)	1.6 (1.0-2.1)
6	19	12	7.7	6.0	4.7	3.6	2.8

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

**Age = 65 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	1.4	0.9	0.5	0.4	0.3	0.2	0.2
1	2.4 (1.9-3.5)	1.5 (1.2-2.2)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)
2	4.0 (2.5-6.2)	2.6 (1.6-4.1)	1.6 (1.0-2.6)	1.2 (0.8-2.0)	0.9 (0.6-1.5)	0.7 (0.5-1.2)	0.6 (0.3-0.9)
3	6.6 (3.8-11)	4.4 (2.5-7.2)	2.7 (1.5-4.5)	2.1 (1.2-3.5)	1.6 (0.9-2.7)	1.2 (0.7-2.1)	0.9 (0.5-1.6)
4	10 (6.4-16)	7.1 (4.3-11)	4.5 (2.6-6.8)	3.5 (2.0-5.3)	2.7 (1.6-4.1)	2.1 (1.2-3.1)	1.6 (0.9-2.4)
5	16 (11-20)	11 (7.7-14)	7.5 (5.0-9.3)	5.8 (3.9-7.2)	4.4 (3.0-5.6)	3.4 (2.3-4.3)	2.6 (1.8-3.3)
6	24	18	12	9.3	7.2	5.6	4.3

**Age = 70 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	2.6	1.7	1.1	0.9	0.7	0.5	0.4
1	4.4 (3.2-5.4)	3.1 (2.3-3.7)	2.0 (1.5-2.4)	1.5 (1.2-1.8)	1.2 (0.9-1.4)	0.9 (0.7-1.1)	0.7 (0.5-0.8)
2	7.5 (4.9-11)	5.3 (3.5-7.7)	3.5 (2.3-4.9)	2.7 (1.8-3.8)	2.1 (1.4-2.9)	1.6 (1.0-2.3)	1.2 (0.8-1.7)
3	12 (7.5-18)	9.0 (5.8-13)	6.1 (4.0-9.0)	4.7 (3.1-7.0)	3.6 (2.4-5.4)	2.8 (1.8-4.1)	2.1 (1.4-3.1)
4	19 (13-27)	15 (9.9-21)	10 (7.2-15)	8.1 (5.5-12)	6.3 (4.2-9.2)	4.8 (3.2-7.1)	3.7 (2.4-5.5)
5	28 (24-36)	23 (19-29)	17 (14-22)	14 (11-17)	11 (8.6-14)	8.2 (6.6-11)	6.3 (5.1-8.2)
6	40	34	27	22	17	13	10

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

**Age = 75 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	4.3	3.1	2.1	1.6	1.2	0.9	0.7
1	7.7 (5.1-14)	5.9 (3.9-10)	4.1 (2.8-7.2)	3.1 (2.1-5.6)	2.4 (1.6-4.3)	1.8 (1.2-3.3)	1.4 (0.9-2.5)
2	13 (7.5-22)	10 (5.9-18)	7.5 (4.3-13)	5.8 (3.2-9.8)	4.5 (2.5-7.6)	3.4 (1.9-5.8)	2.6 (1.4-4.5)
3	21 (11-34)	17 (9.1-28)	13 (7.1-21)	10 (5.4-16)	8.0 (4.1-13)	6.1 (3.1-10)	4.7 (2.3-7.7)
4	32 (18-44)	27 (15-38)	22 (12-32)	17 (9.2-26)	14 (7.0-21)	11 (5.4-16)	8.1 (4.1-13)
5	44 (28-54)	39 (24-49)	34 (20-42)	27 (16-35)	22 (12-29)	17 (9.4-23)	14 (7.2-18)
6	57	53	47	40	33	27	22

**Age = 80 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	6.3	4.9	3.5	2.7	2.1	1.6	1.2
1	11 (7.4-19)	8.7 (5.9-15)	6.5 (4.5-12)	5.0 (3.4-9.0)	3.8 (2.6-6.9)	2.9 (2.0-5.3)	2.2 (1.5-4.0)
2	18 (11-30)	14 (8.8-25)	11 (6.7-19)	8.7 (5.1-15)	6.7 (3.9-12)	5.1 (3.0-9.1)	3.9 (2.2-7.0)
3	27 (16-39)	23 (13-34)	18 (10-29)	14 (7.8-23)	11 (6.0-18)	8.7 (4.6-14)	6.7 (3.5-11)
4	38 (22-50)	33 (19-44)	28 (16-39)	23 (12-32)	18 (9.3-26)	14 (7.1-21)	11 (5.4-16)
5	50 (34-59)	45 (29-54)	40 (25-49)	34 (20-42)	27 (15-35)	22 (12-29)	17 (9.1-23)
6	62	58	53	46	39	32	26

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

**Age = 85 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	8.0	6.4	4.8	3.7	2.8	2.1	1.6
1	14 (9.4-24)	11 (7.6-19)	8.7 (5.9-15)	6.6 (4.5-12)	5.1 (3.4-9.2)	3.8 (2.6-7.1)	2.9 (1.9-5.4)
2	22 (14-35)	18 (11-30)	15 (8.8-25)	11 (6.8-20)	8.8 (5.1-15)	6.7 (3.9-12)	5.1 (2.9-9.2)
3	32 (19-46)	27 (16-40)	23 (13-34)	18 (10-28)	14 (7.8-23)	11 (6.0-18)	8.6 (4.5-14)
4	44 (27-56)	39 (23-51)	34 (19-45)	28 (15-38)	22 (12-31)	18 (9.0-25)	14 (6.9-20)
5	55 (39-63)	51 (35-60)	46 (30-56)	39 (24-48)	33 (19-41)	27 (15-34)	22 (12-28)
6	64	63	59	52	45	38	32

**Age = 90 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	8.8	7.0	5.3	4.0	3.0	2.3	1.7
1	15 (10-26)	12 (8.3-21)	9.4 (6.5-17)	7.2 (4.9-13)	5.5 (3.7-10)	4.2 (2.8-7.7)	3.2 (2.1-5.9)
2	23 (15-38)	20 (12-32)	16 (9.6-27)	12 (7.4-21)	9.5 (5.6-17)	7.3 (4.3-13)	5.6 (3.2-10)
3	34 (21-48)	29 (18-43)	25 (14-37)	20 (11-30)	16 (8.5-24)	12 (6.5-19)	9.4 (4.9-15)
4	45 (29-57)	41 (25-53)	36 (21-48)	30 (17-40)	24 (13-34)	19 (9.9-27)	15 (7.6-22)
5	55 (41-63)	53 (37-61)	49 (32-58)	42 (26-51)	35 (21-44)	29 (16-37)	23 (13-30)
6	62	63	61	55	48	41	34