

New Zealand - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip 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 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 ²)						
	15	20	25	30	35	40	45
0	0.4	0.2	0.1	0.1	0.1	0.1	0.1
1	0.9 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	1.7 (0.9-3.7)	0.9 (0.5-2.0)	0.5 (0.3-1.1)	0.4 (0.2-0.8)	0.3 (0.2-0.7)	0.2 (0.1-0.5)	0.2 (0.1-0.4)
3	3.3 (1.3-6.4)	1.8 (0.7-3.5)	1.0 (0.4-1.9)	0.7 (0.3-1.5)	0.6 (0.2-1.2)	0.5 (0.2-0.9)	0.4 (0.1-0.7)
4	6.0 (2.3-9.6)	3.3 (1.3-5.3)	1.8 (0.7-2.9)	1.4 (0.5-2.3)	1.1 (0.4-1.8)	0.8 (0.3-1.4)	0.6 (0.3-1.1)
5	11 (4.9-14)	5.9 (2.7-7.9)	3.2 (1.5-4.4)	2.5 (1.1-3.4)	1.9 (0.9-2.6)	1.5 (0.7-2.1)	1.2 (0.5-1.6)
6	18	10	5.7	4.4	3.5	2.7	2.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.8	0.4	0.2	0.2	0.1	0.1	0.1
1	1.5 (1.0-2.7)	0.8 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.6)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)
2	2.9 (1.6-5.6)	1.6 (0.8-3.1)	0.8 (0.5-1.7)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)	0.3 (0.2-0.6)
3	5.2 (2.4-9.7)	2.9 (1.3-5.4)	1.6 (0.7-3.0)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.6 (0.3-1.1)
4	9.2 (4.1-14)	5.2 (2.3-8.1)	2.8 (1.2-4.5)	2.2 (1.0-3.5)	1.7 (0.7-2.7)	1.3 (0.6-2.1)	1.0 (0.5-1.7)
5	16 (8.6-21)	9.0 (4.8-12)	5.0 (2.6-6.7)	3.9 (2.0-5.2)	3.1 (1.6-4.1)	2.4 (1.2-3.2)	1.8 (1.0-2.5)
6	26	15	8.7	6.8	5.3	4.2	3.2

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.4	0.8	0.4	0.3	0.3	0.2	0.2
1	2.6 (1.9-4.1)	1.4 (1.0-2.3)	0.8 (0.6-1.2)	0.6 (0.4-1.0)	0.5 (0.3-0.7)	0.4 (0.3-0.6)	0.3 (0.2-0.5)
2	4.7 (2.7-8.4)	2.6 (1.5-4.7)	1.4 (0.8-2.6)	1.1 (0.7-2.0)	0.9 (0.5-1.6)	0.7 (0.4-1.2)	0.5 (0.3-1.0)
3	8.2 (4.2-14)	4.6 (2.3-8.2)	2.6 (1.3-4.6)	2.0 (1.0-3.6)	1.6 (0.8-2.8)	1.2 (0.6-2.2)	0.9 (0.5-1.7)
4	14 (7.3-21)	8.1 (4.1-12)	4.5 (2.2-6.9)	3.5 (1.7-5.4)	2.7 (1.4-4.2)	2.1 (1.1-3.3)	1.7 (0.8-2.6)
5	23 (14-29)	14 (8.4-18)	7.8 (4.7-10)	6.1 (3.7-8.0)	4.7 (2.9-6.2)	3.7 (2.2-4.9)	2.9 (1.7-3.8)
6	36	22	13	10	8.1	6.3	4.9

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.8	1.6	0.9	0.7	0.5	0.4	0.3
1	4.9 (3.7-6.9)	2.8 (2.1-3.9)	1.6 (1.2-2.2)	1.2 (0.9-1.7)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.6 (0.4-0.8)
2	8.4 (5.3-14)	4.9 (3.1-8.0)	2.7 (1.7-4.6)	2.1 (1.3-3.5)	1.7 (1.0-2.8)	1.3 (0.8-2.1)	1.0 (0.6-1.7)
3	14 (8.0-23)	8.3 (4.7-14)	4.7 (2.6-7.9)	3.7 (2.0-6.2)	2.9 (1.6-4.8)	2.2 (1.2-3.7)	1.7 (0.9-2.9)
4	23 (14-32)	14 (8.1-20)	8.0 (4.6-12)	6.3 (3.6-9.3)	4.9 (2.8-7.3)	3.8 (2.1-5.7)	3.0 (1.7-4.4)
5	35 (25-42)	22 (16-28)	13 (9.3-17)	10 (7.3-13)	8.2 (5.7-10)	6.4 (4.4-8.2)	5.0 (3.4-6.4)
6	50	34	22	17	14	11	8.3

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.9	3.5	2.0	1.5	1.2	0.9	0.7
1	10 (8.2-12)	6.3 (5.0-7.3)	3.6 (2.9-4.2)	2.8 (2.2-3.3)	2.2 (1.7-2.5)	1.7 (1.3-2.0)	1.3 (1.0-1.5)
2	18 (12-24)	11 (7.5-15)	6.6 (4.4-8.8)	5.1 (3.4-6.8)	4.0 (2.6-5.3)	3.1 (2.0-4.1)	2.4 (1.6-3.2)
3	29 (20-40)	19 (13-27)	12 (7.6-17)	9.2 (5.9-14)	7.1 (4.6-11)	5.6 (3.6-8.3)	4.3 (2.8-6.5)
4	44 (34-57)	31 (23-42)	20 (15-28)	16 (12-23)	13 (9.1-18)	9.8 (7.1-14)	7.7 (5.5-11)
5	60 (55-69)	48 (42-55)	33 (29-39)	27 (23-32)	21 (18-26)	17 (14-21)	13 (11-16)
6	74	65	50	42	35	28	23

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	6.9	4.1	3.2	2.5	1.9	1.5
1	20 (14-32)	13 (9.5-22)	8.0 (5.8-14)	6.3 (4.5-11)	4.9 (3.5-8.3)	3.8 (2.7-6.5)	2.9 (2.1-5.0)
2	32 (21-48)	23 (14-36)	15 (8.8-25)	12 (6.8-20)	9.2 (5.3-16)	7.2 (4.1-12)	5.6 (3.2-9.6)
3	48 (32-65)	37 (23-53)	26 (15-40)	21 (12-33)	17 (9.1-26)	13 (7.1-21)	10 (5.5-17)
4	63 (46-75)	54 (37-69)	42 (25-57)	35 (20-49)	28 (16-41)	23 (13-34)	18 (9.8-27)
5	75 (61-81)	70 (54-78)	60 (42-70)	52 (34-62)	44 (28-54)	37 (22-46)	30 (18-38)
6	83	81	77	70	63	55	47

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	16	11	7.1	5.5	4.3	3.3	2.5
1	27 (20-42)	20 (15-33)	13 (9.7-22)	10 (7.6-18)	8.0 (5.8-14)	6.2 (4.5-11)	4.8 (3.5-8.5)
2	40 (28-58)	32 (21-48)	23 (14-37)	18 (11-30)	14 (8.8-24)	11 (6.8-19)	8.7 (5.2-15)
3	54 (38-68)	46 (30-63)	36 (21-53)	30 (17-45)	24 (13-38)	19 (10-31)	15 (8.0-25)
4	66 (50-76)	61 (43-72)	52 (34-66)	44 (27-58)	37 (22-50)	31 (17-42)	25 (14-35)
5	76 (63-81)	73 (58-79)	67 (50-76)	60 (42-69)	53 (35-62)	45 (28-54)	38 (23-46)
6	82	81	79	74	68	61	53

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	19	14	9.9	7.7	5.9	4.6	3.5
1	30 (23-47)	24 (18-39)	18 (13-30)	14 (10-24)	11 (7.8-19)	8.4 (6.0-15)	6.5 (4.6-12)
2	43 (31-61)	37 (25-54)	29 (19-44)	23 (15-37)	18 (11-30)	15 (8.9-24)	11 (6.8-19)
3	56 (41-70)	50 (35-65)	43 (27-59)	36 (22-52)	29 (17-44)	24 (13-36)	19 (10-30)
4	67 (52-77)	63 (46-74)	57 (40-70)	50 (33-63)	43 (26-56)	36 (21-48)	30 (17-41)
5	75 (65-80)	74 (60-80)	70 (54-78)	64 (47-72)	57 (39-66)	50 (33-59)	43 (26-52)
6	78	80	80	75	70	64	57

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	19	14	10	7.9	6.0	4.6	3.5
1	29 (22-45)	24 (17-38)	18 (13-30)	14 (10-24)	11 (7.7-19)	8.4 (5.9-15)	6.5 (4.5-12)
2	42 (30-59)	36 (24-53)	29 (19-44)	23 (15-37)	18 (11-30)	14 (8.8-24)	11 (6.8-19)
3	54 (40-69)	49 (34-64)	42 (27-58)	35 (22-51)	29 (17-43)	23 (13-36)	19 (10-29)
4	65 (50-75)	62 (45-73)	56 (39-68)	49 (32-62)	42 (26-55)	35 (20-47)	29 (16-40)
5	71 (62-75)	71 (59-77)	69 (53-76)	63 (46-71)	56 (38-65)	49 (32-58)	42 (26-51)
6	71	76	77	73	68	62	55