

Australia - 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 Australia. 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	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	0.6 (0.4-1.2)	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	1.2 (0.6-2.5)	0.6 (0.3-1.4)	0.3 (0.2-0.7)	0.3 (0.1-0.6)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)
3	2.2 (0.9-4.4)	1.2 (0.5-2.4)	0.7 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)	0.3 (0.1-0.6)	0.2 (0.1-0.5)
4	4.1 (1.6-6.7)	2.2 (0.9-3.7)	1.2 (0.5-2.0)	0.9 (0.4-1.5)	0.7 (0.3-1.2)	0.6 (0.2-0.9)	0.4 (0.2-0.7)
5	7.4 (3.4-9.9)	4.0 (1.8-5.5)	2.2 (1.0-3.0)	1.7 (0.8-2.3)	1.3 (0.6-1.8)	1.0 (0.5-1.4)	0.8 (0.4-1.1)
6	13	7.1	3.9	3.0	2.4	1.8	1.4

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.6	0.3	0.2	0.1	0.1	0.1	0.1
1	1.1 (0.7-1.9)	0.6 (0.4-1.0)	0.3 (0.2-0.6)	0.2 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)	0.1 (0.1-0.2)
2	2.1 (1.1-4.0)	1.1 (0.6-2.2)	0.6 (0.3-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.1-0.4)
3	3.8 (1.7-7.0)	2.1 (0.9-3.9)	1.1 (0.5-2.1)	0.9 (0.4-1.6)	0.7 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)
4	6.7 (3.0-11)	3.7 (1.6-5.9)	2.0 (0.9-3.2)	1.6 (0.7-2.5)	1.2 (0.5-1.9)	0.9 (0.4-1.5)	0.7 (0.3-1.2)
5	12 (6.2-15)	6.5 (3.4-8.7)	3.6 (1.9-4.8)	2.8 (1.5-3.7)	2.2 (1.1-2.9)	1.7 (0.9-2.3)	1.3 (0.7-1.8)
6	20	11	6.2	4.9	3.8	3.0	2.3

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.2	0.6	0.3	0.3	0.2	0.2	0.1
1	2.1 (1.5-3.3)	1.2 (0.8-1.8)	0.6 (0.4-1.0)	0.5 (0.3-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)
2	3.8 (2.2-6.9)	2.1 (1.2-3.8)	1.1 (0.7-2.1)	0.9 (0.5-1.6)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)
3	6.8 (3.4-12)	3.8 (1.9-6.7)	2.1 (1.0-3.7)	1.6 (0.8-2.9)	1.2 (0.6-2.2)	1.0 (0.5-1.7)	0.8 (0.4-1.4)
4	12 (6.0-18)	6.6 (3.3-10)	3.6 (1.8-5.6)	2.8 (1.4-4.4)	2.2 (1.1-3.4)	1.7 (0.8-2.6)	1.3 (0.7-2.1)
5	19 (12-25)	11 (6.9-15)	6.3 (3.8-8.3)	4.9 (3.0-6.5)	3.8 (2.3-5.1)	3.0 (1.8-3.9)	2.3 (1.4-3.1)
6	31	19	11	8.4	6.6	5.1	4.0

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.5	1.4	0.8	0.6	0.5	0.4	0.3
1	4.4 (3.3-6.1)	2.5 (1.8-3.4)	1.3 (1.0-1.9)	1.0 (0.8-1.5)	0.8 (0.6-1.1)	0.6 (0.5-0.9)	0.5 (0.4-0.7)
2	7.6 (4.8-12)	4.3 (2.7-7.1)	2.4 (1.5-4.0)	1.8 (1.2-3.1)	1.4 (0.9-2.4)	1.1 (0.7-1.9)	0.9 (0.5-1.4)
3	13 (7.3-21)	7.4 (4.1-12)	4.1 (2.3-6.9)	3.2 (1.8-5.4)	2.5 (1.4-4.2)	1.9 (1.1-3.3)	1.5 (0.8-2.5)
4	21 (12-30)	12 (7.1-18)	7.0 (4.0-10)	5.5 (3.1-8.1)	4.3 (2.4-6.3)	3.3 (1.9-5.0)	2.6 (1.5-3.9)
5	33 (24-40)	20 (14-25)	12 (8.2-15)	9.3 (6.4-12)	7.2 (5.0-9.3)	5.7 (3.9-7.3)	4.4 (3.0-5.7)
6	48	32	19	15	12	9.5	7.4

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.7	3.2	1.8	1.4	1.1	0.8	0.7
1	10 (8.1-12)	5.9 (4.7-6.8)	3.3 (2.7-3.8)	2.6 (2.1-3.0)	2.0 (1.6-2.3)	1.5 (1.2-1.8)	1.2 (1.0-1.4)
2	18 (12-23)	11 (7.1-14)	6.0 (4.0-8.0)	4.7 (3.1-6.2)	3.7 (2.4-4.9)	2.8 (1.9-3.8)	2.2 (1.5-2.9)
3	29 (20-40)	18 (12-26)	11 (7.0-16)	8.5 (5.5-13)	6.6 (4.3-9.9)	5.2 (3.3-7.8)	4.0 (2.6-6.1)
4	45 (35-58)	31 (23-41)	19 (14-26)	15 (11-21)	12 (8.6-17)	9.2 (6.8-13)	7.2 (5.3-10)
5	63 (58-71)	47 (42-55)	31 (27-37)	25 (22-30)	20 (17-24)	16 (14-20)	13 (11-15)
6	78	67	49	41	33	27	22

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	11	6.6	3.8	3.0	2.3	1.8	1.4
1	20 (15-32)	13 (9.3-21)	7.5 (5.5-13)	5.9 (4.3-10)	4.6 (3.3-7.8)	3.5 (2.6-6.1)	2.7 (2.0-4.7)
2	34 (21-50)	23 (14-37)	14 (8.3-24)	11 (6.5-19)	8.7 (5.0-15)	6.8 (3.9-12)	5.3 (3.0-9.3)
3	51 (34-67)	38 (23-55)	25 (14-39)	20 (11-32)	16 (8.7-26)	13 (6.8-21)	9.9 (5.3-16)
4	67 (50-79)	56 (37-72)	41 (24-57)	34 (19-48)	28 (15-40)	22 (12-33)	18 (9.4-27)
5	79 (67-85)	73 (56-81)	61 (42-70)	53 (34-62)	44 (28-53)	37 (22-45)	30 (18-37)
6	86	84	79	72	64	56	47

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	10	6.3	4.9	3.8	2.9	2.3
1	26 (19-41)	18 (14-30)	12 (8.8-20)	9.2 (6.8-16)	7.2 (5.3-13)	5.6 (4.1-9.8)	4.3 (3.1-7.7)
2	39 (27-57)	30 (20-46)	21 (13-35)	16 (10-28)	13 (7.9-22)	10 (6.1-18)	7.9 (4.7-14)
3	54 (38-69)	45 (28-62)	34 (19-51)	28 (15-43)	22 (12-35)	18 (9.4-29)	14 (7.3-23)
4	67 (50-77)	60 (43-73)	50 (31-64)	42 (25-56)	35 (20-48)	29 (16-40)	23 (12-33)
5	77 (64-83)	73 (58-80)	67 (48-75)	59 (40-68)	51 (33-61)	44 (27-52)	36 (21-44)
6	83	82	79	74	68	60	52

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	16	12	8.6	6.6	5.1	3.9	3.0
1	26 (19-41)	21 (15-34)	15 (11-26)	12 (8.6-21)	9.3 (6.6-16)	7.2 (5.0-13)	5.5 (3.8-9.9)
2	38 (27-56)	32 (22-49)	25 (16-40)	20 (13-33)	16 (9.8-26)	13 (7.6-21)	9.7 (5.8-17)
3	51 (36-66)	45 (30-61)	38 (24-54)	32 (19-46)	26 (15-39)	21 (11-32)	16 (8.8-26)
4	63 (47-74)	59 (41-70)	53 (35-65)	45 (28-58)	38 (23-51)	32 (18-43)	26 (14-36)
5	73 (60-78)	70 (55-77)	66 (49-74)	59 (42-68)	52 (35-62)	45 (28-54)	38 (23-47)
6	78	79	77	72	66	59	52

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	12	8.6	6.6	5.0	3.8	2.9
1	24 (17-38)	19 (14-32)	15 (11-26)	12 (8.2-20)	9.0 (6.3-16)	6.9 (4.8-12)	5.3 (3.6-9.6)
2	35 (24-52)	30 (20-46)	24 (16-39)	19 (12-32)	15 (9.3-26)	12 (7.1-20)	9.2 (5.4-16)
3	47 (32-62)	42 (28-57)	36 (23-51)	30 (18-44)	24 (14-36)	19 (11-30)	15 (8.3-24)
4	58 (42-70)	55 (38-67)	50 (32-62)	43 (26-55)	36 (21-47)	29 (16-40)	24 (13-33)
5	67 (55-72)	66 (51-73)	62 (46-70)	56 (39-65)	49 (32-58)	42 (26-51)	35 (21-43)
6	71	73	73	68	62	55	48