

Australia - The probabilities of a hip fracture in women

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 Australia. 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	5.0	2.6	1.3	0.7	0.3	0.2	0.1	0.1	0.0	0.0	0.0	
1	7.9 (5.2-10)	4.1 (2.7-5.4)	2.1 (1.4-2.8)	1.1 (0.7-1.4)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	
2	12 (7.3-19)	6.5 (3.8-9.9)	3.4 (2.0-5.2)	1.7 (1.0-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	
3	19 (11-30)	10 (5.7-17)	5.4 (3.0-8.8)	2.8 (1.5-4.6)	1.4 (0.8-2.4)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	
4	28 (18-42)	16 (9.8-24)	8.3 (5.1-13)	4.3 (2.6-6.9)	2.2 (1.4-3.6)	1.1 (0.7-1.8)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	
5	40 (32-53)	23 (18-32)	13 (9.4-18)	6.7 (4.9-9.7)	3.5 (2.5-5.1)	1.8 (1.3-2.6)	0.9 (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)	
6	55	34	19	10	5.3	2.7	1.4	0.7	0.4	0.2	0.1	

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

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	5.4	2.9	1.6	0.8	0.5	0.2	0.1	0.1	0.0	0.0	0.0
1	8.4 (5.7-10)	4.6 (3.1-5.7)	2.5 (1.7-3.1)	1.3 (0.9-1.7)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	13 (7.9-19)	7.2 (4.3-10)	3.9 (2.3-5.7)	2.1 (1.3-3.1)	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)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
3	20 (12-30)	11 (6.5-17)	6.1 (3.6-9.7)	3.3 (1.9-5.3)	1.8 (1.0-2.9)	1.0 (0.6-1.6)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
4	29 (20-42)	17 (11-25)	9.4 (6.1-14)	5.1 (3.3-8.0)	2.8 (1.8-4.4)	1.5 (1.0-2.4)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
5	41 (34-53)	25 (20-34)	14 (11-20)	7.8 (6.1-11)	4.3 (3.3-6.2)	2.3 (1.8-3.4)	1.2 (1.0-1.8)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	55	35	21	12	6.5	3.5	1.9	1.1	0.6	0.3	0.2

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	6.6	3.7	2.1	1.2	0.6	0.4	0.2	0.1	0.1	0.0	0.0
1	10 (6.9-12)	5.7 (3.9-6.8)	3.2 (2.2-3.9)	1.8 (1.2-2.2)	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 (0.0-0.1)	0.0 (0.0-0.0)
2	15 (9.6-21)	8.8 (5.5-12)	5.0 (3.1-6.9)	2.8 (1.7-3.9)	1.6 (1.0-2.2)	0.9 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
3	22 (14-33)	13 (8.2-20)	7.6 (4.7-12)	4.3 (2.6-6.6)	2.4 (1.5-3.7)	1.4 (0.8-2.1)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
4	32 (23-45)	20 (14-28)	11 (7.9-17)	6.6 (4.5-9.9)	3.7 (2.5-5.7)	2.1 (1.4-3.2)	1.2 (0.8-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	44 (38-57)	28 (24-38)	17 (14-23)	9.8 (8.0-14)	5.6 (4.6-8.0)	3.2 (2.6-4.5)	1.8 (1.5-2.6)	1.0 (0.8-1.5)	0.6 (0.5-0.9)	0.3 (0.3-0.5)	0.2 (0.2-0.3)
6	59	39	24	14	8.3	4.7	2.7	1.6	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 women from Australia.

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	8.8	5.2	3.0	1.8	1.0	0.6	0.4	0.2	0.1	0.1	0.1
1	13 (9.2-16)	7.9 (5.4-9.4)	4.6 (3.2-5.6)	2.7 (1.9-3.3)	1.6 (1.1-1.9)	0.9 (0.6-1.1)	0.5 (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	19 (13-25)	12 (7.7-15)	7.0 (4.5-9.3)	4.1 (2.6-5.5)	2.4 (1.5-3.2)	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 (0.1-0.3)	0.1 (0.1-0.2)
3	28 (19-38)	17 (11-24)	10 (6.8-15)	6.2 (4.0-9.1)	3.6 (2.3-5.4)	2.1 (1.4-3.1)	1.3 (0.8-1.9)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
4	38 (30-51)	25 (18-35)	15 (11-22)	9.2 (6.6-13)	5.5 (3.9-8.1)	3.2 (2.3-4.8)	1.9 (1.4-2.9)	1.2 (0.8-1.7)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
5	51 (45-63)	35 (29-45)	22 (18-30)	14 (11-19)	8.1 (6.6-11)	4.8 (3.9-6.7)	2.9 (2.3-4.1)	1.7 (1.4-2.5)	1.1 (0.8-1.5)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	65	47	31	19	12	7.0	4.3	2.6	1.6	0.9	0.6

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	13	7.9	4.8	2.9	1.8	1.1	0.7	0.4	0.3	0.2	0.1
1	20 (18-25)	13 (11-16)	8.0 (6.8-10)	4.9 (4.2-6.2)	3.0 (2.5-3.8)	1.8 (1.6-2.3)	1.2 (1.0-1.5)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.2-0.2)
2	32 (25-41)	21 (16-27)	13 (10-18)	8.2 (6.3-11)	5.0 (3.8-6.9)	3.1 (2.4-4.3)	2.0 (1.5-2.7)	1.2 (0.9-1.7)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
3	46 (36-57)	32 (24-41)	21 (15-28)	13 (9.6-18)	8.3 (5.9-11)	5.2 (3.6-7.1)	3.3 (2.3-4.5)	2.1 (1.4-2.9)	1.3 (0.9-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)
4	63 (52-71)	47 (37-55)	32 (24-39)	21 (16-26)	13 (9.8-17)	8.5 (6.1-11)	5.4 (3.9-6.9)	3.4 (2.4-4.4)	2.2 (1.5-2.8)	1.4 (1.0-1.8)	0.9 (0.6-1.1)
5	78 (71-82)	63 (55-68)	47 (39-52)	33 (26-37)	21 (17-24)	14 (11-16)	8.9 (7.0-10)	5.7 (4.5-6.6)	3.6 (2.8-4.2)	2.3 (1.8-2.7)	1.4 (1.1-1.7)
6	88	78	64	47	33	22	14	9.3	5.9	3.8	2.4

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

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	17	11	7.1	4.5	2.9	1.9	1.2	0.8	0.5	0.4	0.2
1	29 (23-53)	20 (15-39)	14 (9.9-27)	8.9 (6.4-18)	5.7 (4.1-12)	3.8 (2.7-8.0)	2.5 (1.8-5.3)	1.7 (1.2-3.5)	1.1 (0.8-2.3)	0.7 (0.5-1.5)	0.5 (0.3-1.0)
2	46 (31-71)	34 (21-57)	24 (14-43)	16 (9.0-30)	11 (5.8-20)	7.1 (3.8-14)	4.8 (2.5-9.5)	3.2 (1.7-6.3)	2.1 (1.1-4.2)	1.4 (0.7-2.8)	0.9 (0.5-1.8)
3	63 (42-81)	51 (30-70)	38 (20-57)	27 (13-43)	19 (8.7-31)	13 (5.8-22)	8.6 (3.8-15)	5.8 (2.5-10)	3.8 (1.7-6.8)	2.5 (1.1-4.6)	1.7 (0.7-3.0)
4	77 (58-87)	68 (43-80)	55 (31-70)	42 (21-56)	30 (14-42)	22 (9.4-31)	15 (6.3-22)	10 (4.2-15)	6.8 (2.8-10)	4.6 (1.8-6.9)	3.0 (1.2-4.6)
5	87 (73-90)	81 (60-86)	72 (46-78)	60 (34-67)	46 (23-53)	34 (16-40)	25 (11-29)	17 (7.4-21)	12 (4.9-14)	7.9 (3.3-9.7)	5.3 (2.2-6.5)
6	91	89	85	77	64	51	39	28	20	13	9.1

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	18	12	8.5	5.7	3.9	2.7	1.9	1.3	0.9	0.6	0.4
1	30 (23-54)	22 (16-42)	16 (11-31)	11 (7.5-22)	7.5 (5.1-16)	5.3 (3.6-11)	3.7 (2.5-7.9)	2.6 (1.7-5.5)	1.8 (1.2-3.8)	1.2 (0.8-2.7)	0.8 (0.6-1.8)
2	45 (30-68)	35 (22-57)	26 (15-46)	19 (10-34)	13 (7.2-25)	9.6 (5.0-19)	6.8 (3.5-13)	4.7 (2.4-9.5)	3.3 (1.7-6.7)	2.3 (1.2-4.7)	1.6 (0.8-3.2)
3	60 (42-78)	50 (31-69)	40 (22-58)	30 (15-46)	22 (11-35)	16 (7.5-27)	12 (5.3-20)	8.4 (3.7-14)	5.9 (2.5-10)	4.1 (1.8-7.3)	2.9 (1.2-5.1)
4	73 (54-83)	65 (42-77)	55 (32-68)	44 (23-58)	34 (16-47)	26 (12-37)	19 (8.3-28)	14 (5.8-21)	10 (4.1-15)	7.1 (2.8-11)	5.0 (2.0-7.7)
5	82 (66-86)	77 (56-82)	69 (45-76)	60 (34-67)	49 (25-57)	39 (19-47)	30 (14-37)	23 (9.8-28)	17 (6.9-21)	12 (4.9-15)	8.5 (3.4-11)
6	87	85	80	74	65	55	45	35	26	19	14

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

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	16	12	8.6	6.1	4.5	3.3	2.5	1.8	1.3	1.0	0.7
1	27 (20-48)	20 (15-39)	15 (11-31)	11 (8.0-23)	8.4 (5.9-18)	6.3 (4.4-14)	4.7 (3.2-10)	3.5 (2.4-7.6)	2.6 (1.7-5.6)	1.9 (1.3-4.1)	1.4 (0.9-3.0)
2	39 (27-60)	31 (21-51)	25 (15-42)	19 (11-33)	14 (8.2-26)	11 (6.1-21)	8.3 (4.5-16)	6.2 (3.3-12)	4.6 (2.5-9.1)	3.4 (1.8-6.8)	2.5 (1.3-5.0)
3	52 (35-69)	44 (27-62)	36 (21-53)	29 (16-44)	23 (12-36)	18 (8.9-29)	14 (6.7-23)	11 (5.0-18)	8.0 (3.7-13)	6.0 (2.7-10)	4.4 (2.0-7.5)
4	64 (45-76)	57 (37-70)	50 (29-62)	41 (22-54)	34 (17-45)	28 (13-37)	22 (9.9-30)	17 (7.5-24)	13 (5.6-19)	10 (4.1-14)	7.5 (3.0-11)
5	75 (56-80)	69 (48-75)	62 (39-68)	55 (31-61)	47 (25-54)	40 (20-46)	33 (15-39)	26 (12-31)	21 (8.7-25)	16 (6.6-19)	12 (4.9-15)
6	82	78	74	67	61	53	46	38	31	24	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	12	9.0	6.9	5.3	4.1	3.2	2.5	2.0	1.5	1.2	0.9
1	20 (15-38)	16 (12-31)	12 (8.9-25)	9.6 (6.9-20)	7.6 (5.4-16)	6.0 (4.2-13)	4.7 (3.3-10)	3.7 (2.6-8.2)	2.9 (2.0-6.4)	2.3 (1.5-5.0)	1.8 (1.2-3.9)
2	30 (20-49)	25 (16-42)	20 (12-35)	16 (9.4-28)	13 (7.5-24)	10 (5.9-19)	8.3 (4.6-16)	6.6 (3.6-12)	5.2 (2.8-9.9)	4.1 (2.2-7.8)	3.2 (1.7-6.2)
3	42 (26-59)	36 (21-52)	30 (16-45)	25 (13-38)	21 (10-32)	17 (8.3-27)	14 (6.5-22)	11 (5.1-18)	8.7 (4.0-15)	6.9 (3.2-12)	5.4 (2.5-9.2)
4	55 (35-66)	48 (29-61)	42 (23-54)	36 (19-47)	30 (15-41)	26 (12-35)	21 (9.7-29)	17 (7.7-24)	14 (6.1-20)	11 (4.8-16)	9.0 (3.7-13)
5	66 (45-71)	60 (38-67)	54 (32-61)	48 (26-54)	42 (22-48)	37 (18-42)	31 (14-36)	26 (11-31)	22 (9.2-26)	18 (7.3-21)	14 (5.8-17)
6	74	71	66	61	55	49	43	37	32	26	22