

**South Africa (Coloured) - 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 South Africa (Coloured). 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/m<sup>2</sup>

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	7.2	3.7	1.9	1.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	11 (7.5-15)	5.9 (3.9-7.8)	3.1 (2.0-4.0)	1.6 (1.0-2.1)	0.8 (0.5-1.1)	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	17 (11-25)	9.3 (5.5-14)	4.9 (2.8-7.4)	2.5 (1.5-3.8)	1.3 (0.8-2.0)	0.7 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	26 (16-39)	14 (8.3-23)	7.6 (4.3-12)	4.0 (2.2-6.5)	2.0 (1.1-3.4)	1.0 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.1 (0.1-0.3)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
4	37 (25-52)	21 (14-32)	12 (7.3-18)	6.2 (3.8-9.7)	3.2 (2.0-5.1)	1.6 (1.0-2.6)	0.8 (0.5-1.4)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	51 (41-64)	31 (24-42)	18 (13-25)	9.4 (6.9-14)	4.9 (3.6-7.2)	2.6 (1.9-3.7)	1.3 (1.0-1.9)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
6	66	44	26	14	7.5	3.9	2.0	1.1	0.6	0.3	0.2

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

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	7.9	4.3	2.4	1.3	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	12 (8.3-15)	6.8 (4.6-8.4)	3.7 (2.5-4.6)	2.0 (1.3-2.5)	1.1 (0.7-1.4)	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	18 (12-26)	10 (6.4-15)	5.8 (3.5-8.3)	3.2 (1.9-4.6)	1.7 (1.0-2.5)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	27 (17-39)	16 (9.6-24)	8.9 (5.3-14)	4.9 (2.9-7.6)	2.7 (1.6-4.2)	1.4 (0.8-2.3)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	38 (27-52)	23 (16-34)	13 (8.9-20)	7.4 (4.9-11)	4.1 (2.7-6.3)	2.2 (1.4-3.5)	1.2 (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)
5	51 (43-64)	33 (27-44)	20 (16-27)	11 (8.8-16)	6.2 (4.8-8.9)	3.4 (2.6-4.9)	1.8 (1.4-2.7)	1.0 (0.8-1.5)	0.6 (0.4-0.8)	0.3 (0.3-0.5)	0.2 (0.1-0.3)
6	66	45	28	17	9.3	5.1	2.8	1.6	0.9	0.5	0.3

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	9.0	5.1	2.9	1.6	0.9	0.5	0.3	0.2	0.1	0.1	0.0
1	14 (9.5-16)	7.9 (5.4-9.2)	4.5 (3.1-5.3)	2.5 (1.7-3.0)	1.4 (1.0-1.7)	0.8 (0.5-0.9)	0.5 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	20 (13-27)	12 (7.6-16)	6.8 (4.3-9.4)	3.9 (2.4-5.4)	2.2 (1.4-3.0)	1.2 (0.8-1.7)	0.7 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
3	29 (19-40)	17 (11-25)	10 (6.5-15)	5.9 (3.7-8.8)	3.3 (2.1-5.0)	1.9 (1.2-2.8)	1.1 (0.7-1.6)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	40 (30-53)	25 (18-35)	15 (11-22)	8.8 (6.2-13)	5.0 (3.5-7.6)	2.9 (2.0-4.3)	1.6 (1.1-2.5)	0.9 (0.7-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	52 (46-64)	35 (30-46)	22 (18-29)	13 (11-18)	7.5 (6.3-11)	4.3 (3.5-6.1)	2.5 (2.0-3.5)	1.4 (1.2-2.0)	0.8 (0.7-1.2)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	66	47	31	19	11	6.4	3.7	2.2	1.3	0.7	0.4

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

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	9.6	5.7	3.4	2.0	1.1	0.7	0.4	0.2	0.1	0.1	0.1
1	14 (10-17)	8.6 (6.0-10)	5.1 (3.5-6.0)	3.0 (2.1-3.5)	1.7 (1.2-2.1)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	20 (14-26)	13 (8.4-16)	7.6 (5.0-9.9)	4.5 (2.9-5.9)	2.6 (1.7-3.5)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.6 (0.4-0.7)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	29 (20-38)	18 (13-25)	11 (7.5-16)	6.7 (4.4-9.5)	4.0 (2.6-5.7)	2.3 (1.5-3.3)	1.4 (0.9-2.0)	0.8 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	39 (31-51)	26 (20-35)	16 (12-23)	9.8 (7.3-14)	5.9 (4.3-8.5)	3.5 (2.5-5.0)	2.1 (1.5-3.1)	1.3 (0.9-1.9)	0.8 (0.6-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
5	51 (46-62)	35 (31-45)	23 (19-30)	14 (12-19)	8.6 (7.1-12)	5.1 (4.2-7.1)	3.1 (2.6-4.3)	1.9 (1.6-2.7)	1.1 (0.9-1.6)	0.7 (0.6-1.0)	0.4 (0.3-0.6)
6	63	47	31	20	12	7.4	4.6	2.8	1.7	1.0	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	9.4	5.8	3.6	2.2	1.3	0.8	0.5	0.3	0.2	0.1	0.1
1	15 (13-19)	9.5 (8.2-12)	5.9 (5.0-7.5)	3.6 (3.1-4.6)	2.2 (1.9-2.8)	1.4 (1.2-1.7)	0.9 (0.7-1.1)	0.5 (0.5-0.7)	0.3 (0.3-0.4)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	24 (19-31)	15 (12-20)	9.6 (7.6-13)	6.0 (4.7-8.1)	3.7 (2.9-5.0)	2.3 (1.8-3.1)	1.4 (1.1-2.0)	0.9 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
3	35 (28-43)	24 (18-30)	15 (11-20)	9.7 (7.1-13)	6.0 (4.4-8.0)	3.8 (2.7-5.0)	2.4 (1.7-3.2)	1.5 (1.1-2.0)	1.0 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
4	49 (40-56)	35 (27-41)	24 (18-28)	15 (11-19)	9.8 (7.1-12)	6.2 (4.5-7.6)	3.9 (2.8-4.9)	2.5 (1.8-3.1)	1.6 (1.1-2.0)	1.0 (0.7-1.3)	0.6 (0.5-0.8)
5	64 (56-68)	49 (41-54)	35 (29-39)	24 (19-27)	15 (12-18)	9.9 (7.7-11)	6.4 (5.0-7.4)	4.1 (3.2-4.7)	2.6 (2.0-3.0)	1.7 (1.3-1.9)	1.0 (0.8-1.2)
6	76	64	50	35	24	16	10	6.7	4.3	2.7	1.7

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

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	9.1	5.9	3.8	2.4	1.5	1.0	0.7	0.4	0.3	0.2	0.1
1	17 (13-33)	11 (8.2-23)	7.3 (5.3-15)	4.8 (3.4-10)	3.1 (2.2-6.5)	2.0 (1.4-4.3)	1.3 (0.9-2.9)	0.9 (0.6-1.9)	0.6 (0.4-1.3)	0.4 (0.3-0.8)	0.3 (0.2-0.5)
2	28 (17-48)	20 (12-35)	13 (7.5-25)	8.8 (4.8-17)	5.7 (3.1-11)	3.8 (2.0-7.5)	2.5 (1.3-5.0)	1.7 (0.9-3.3)	1.1 (0.6-2.2)	0.7 (0.4-1.5)	0.5 (0.3-1.0)
3	42 (25-60)	32 (17-47)	22 (11-35)	15 (7.3-25)	10 (4.7-17)	6.8 (3.1-12)	4.6 (2.0-7.9)	3.1 (1.4-5.3)	2.0 (0.9-3.5)	1.3 (0.6-2.4)	0.9 (0.4-1.6)
4	58 (36-70)	46 (25-59)	35 (17-46)	25 (11-34)	17 (7.4-24)	12 (4.9-17)	8.0 (3.3-12)	5.4 (2.2-7.9)	3.6 (1.5-5.3)	2.4 (1.0-3.6)	1.6 (0.6-2.4)
5	72 (49-78)	62 (37-68)	50 (27-57)	38 (18-44)	27 (12-32)	19 (8.4-23)	14 (5.6-16)	9.3 (3.8-11)	6.2 (2.5-7.5)	4.2 (1.7-5.1)	2.8 (1.1-3.4)
6	82	75	66	54	41	31	22	15	11	7.1	4.8

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	8.8	6.0	4.0	2.7	1.8	1.3	0.9	0.6	0.4	0.3	0.2
1	16 (11-32)	11 (7.8-23)	7.7 (5.3-16)	5.3 (3.6-11)	3.6 (2.4-7.8)	2.5 (1.7-5.4)	1.7 (1.2-3.8)	1.2 (0.8-2.6)	0.8 (0.6-1.8)	0.6 (0.4-1.3)	0.4 (0.3-0.9)
2	26 (16-45)	19 (11-35)	14 (7.4-26)	9.5 (5.0-18)	6.6 (3.4-13)	4.6 (2.4-9.2)	3.2 (1.6-6.5)	2.3 (1.1-4.5)	1.6 (0.8-3.2)	1.1 (0.5-2.2)	0.7 (0.4-1.5)
3	39 (23-57)	30 (16-46)	22 (11-35)	16 (7.5-26)	11 (5.2-19)	8.1 (3.6-14)	5.7 (2.5-9.8)	4.0 (1.7-7.0)	2.8 (1.2-4.9)	2.0 (0.8-3.5)	1.4 (0.6-2.4)
4	54 (32-66)	44 (23-56)	34 (16-46)	25 (11-35)	19 (8.0-27)	14 (5.6-20)	9.7 (3.9-14)	6.9 (2.8-10)	4.9 (1.9-7.4)	3.4 (1.3-5.2)	2.4 (0.9-3.7)
5	67 (44-73)	58 (34-65)	48 (25-55)	38 (18-45)	29 (13-35)	22 (9.2-26)	16 (6.6-20)	11 (4.6-14)	8.2 (3.3-10)	5.8 (2.3-7.3)	4.0 (1.6-5.1)
6	77	71	62	52	42	33	25	18	13	9.5	6.7

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

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	8.9	6.4	4.5	3.2	2.3	1.7	1.2	0.9	0.7	0.5	0.4
1	16 (12-32)	12 (8.3-24)	8.5 (5.9-18)	6.1 (4.2-13)	4.5 (3.1-9.7)	3.3 (2.2-7.2)	2.4 (1.6-5.3)	1.8 (1.2-3.9)	1.3 (0.9-2.8)	0.9 (0.6-2.1)	0.7 (0.5-1.5)
2	26 (16-44)	20 (12-35)	15 (8.3-27)	11 (5.9-20)	8.1 (4.3-15)	6.0 (3.2-12)	4.4 (2.3-8.8)	3.3 (1.7-6.5)	2.4 (1.2-4.8)	1.8 (0.9-3.5)	1.3 (0.7-2.6)
3	38 (22-55)	30 (16-46)	23 (12-37)	18 (8.8-29)	14 (6.5-22)	10 (4.8-17)	7.7 (3.5-13)	5.7 (2.6-9.7)	4.2 (1.9-7.2)	3.1 (1.4-5.3)	2.3 (1.0-3.9)
4	51 (31-63)	43 (23-55)	35 (18-46)	27 (13-37)	22 (9.7-30)	17 (7.2-24)	13 (5.4-18)	9.6 (4.0-14)	7.2 (2.9-11)	5.3 (2.1-8.0)	3.9 (1.6-5.9)
5	63 (41-69)	56 (33-62)	48 (26-54)	39 (19-46)	32 (15-38)	26 (11-31)	20 (8.6-25)	16 (6.4-19)	12 (4.8-15)	8.9 (3.5-11)	6.6 (2.6-8.3)
6	73	68	61	53	45	38	30	24	19	14	11

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	8.8	6.7	5.0	3.8	2.9	2.3	1.7	1.3	1.0	0.8	0.6
1	16 (11-31)	12 (8.7-25)	9.2 (6.5-19)	7.1 (4.9-15)	5.5 (3.8-12)	4.3 (3.0-9.4)	3.4 (2.3-7.3)	2.6 (1.8-5.7)	2.0 (1.4-4.4)	1.5 (1.0-3.4)	1.2 (0.8-2.6)
2	25 (16-42)	20 (12-35)	16 (9.1-28)	12 (6.9-23)	9.7 (5.4-18)	7.7 (4.2-15)	6.0 (3.2-12)	4.7 (2.5-9.2)	3.6 (1.9-7.2)	2.8 (1.5-5.6)	2.2 (1.1-4.3)
3	36 (21-52)	30 (17-45)	24 (13-38)	20 (9.9-31)	16 (7.8-26)	13 (6.1-21)	10 (4.8-17)	8.1 (3.7-14)	6.3 (2.9-11)	4.9 (2.2-8.4)	3.8 (1.7-6.5)
4	48 (29-61)	42 (23-54)	36 (18-47)	30 (15-40)	25 (12-34)	20 (9.1-28)	16 (7.2-23)	13 (5.6-19)	11 (4.4-15)	8.3 (3.4-12)	6.5 (2.6-9.5)
5	60 (38-67)	54 (32-61)	48 (26-54)	42 (21-47)	36 (17-41)	30 (14-36)	25 (11-30)	21 (8.8-25)	17 (6.9-20)	13 (5.4-16)	11 (4.2-13)
6	71	66	60	54	48	42	36	31	25	21	17