

South Africa (Coloured) - The probabilities of a hip fracture in men

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/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	9.0	4.9	2.6	1.4	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	14 (9.5-18)	7.6 (5.1-10)	4.1 (2.7-5.5)	2.2 (1.4-2.9)	1.2 (0.8-1.5)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	21 (13-29)	12 (7.2-17)	6.4 (3.9-9.5)	3.4 (2.0-5.2)	1.8 (1.1-2.8)	1.0 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	30 (19-41)	17 (11-26)	9.7 (5.8-15)	5.3 (3.1-8.2)	2.8 (1.6-4.4)	1.5 (0.9-2.4)	0.8 (0.5-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	41 (29-54)	25 (17-36)	15 (9.3-21)	8.0 (5.1-12)	4.3 (2.7-6.7)	2.3 (1.4-3.6)	1.2 (0.8-1.9)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	53 (43-64)	35 (27-45)	21 (16-29)	12 (8.7-17)	6.6 (4.7-9.3)	3.5 (2.5-5.1)	1.9 (1.3-2.7)	1.0 (0.7-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
6	65	47	30	17	9.8	5.3	2.8	1.5	0.8	0.4	0.2

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	9.7	5.5	3.1	1.7	0.9	0.5	0.3	0.2	0.1	0.1	0.0
1	15 (10-18)	8.4 (5.8-10)	4.7 (3.2-5.9)	2.6 (1.8-3.3)	1.4 (1.0-1.8)	0.8 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	21 (14-29)	12 (8.1-17)	7.1 (4.5-10)	4.0 (2.5-5.7)	2.2 (1.4-3.2)	1.2 (0.8-1.8)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	30 (21-40)	18 (12-25)	11 (6.8-15)	6.0 (3.8-8.8)	3.4 (2.1-5.0)	1.9 (1.2-2.8)	1.0 (0.6-1.5)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	40 (30-51)	26 (18-35)	15 (11-22)	9.0 (6.0-13)	5.1 (3.4-7.5)	2.8 (1.9-4.2)	1.6 (1.0-2.4)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
5	51 (43-61)	35 (28-45)	22 (17-29)	13 (10-18)	7.5 (5.8-10)	4.2 (3.2-5.9)	2.4 (1.8-3.3)	1.3 (1.0-1.8)	0.7 (0.6-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
6	62	46	30	19	11	6.2	3.5	1.9	1.1	0.6	0.4

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	9.3	5.6	3.3	1.9	1.1	0.7	0.4	0.2	0.1	0.1	0.1
1	14 (9.8-16)	8.3 (5.9-9.9)	5.0 (3.5-5.9)	2.9 (2.0-3.5)	1.7 (1.2-2.1)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	19 (14-25)	12 (8.2-16)	7.3 (4.9-9.8)	4.4 (2.9-5.9)	2.6 (1.7-3.5)	1.5 (1.0-2.1)	0.9 (0.6-1.2)	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	27 (20-35)	17 (12-23)	11 (7.4-14)	6.4 (4.4-8.9)	3.8 (2.6-5.3)	2.3 (1.5-3.2)	1.3 (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)
4	35 (28-44)	24 (18-31)	15 (11-21)	9.3 (6.7-13)	5.6 (4.0-8.0)	3.3 (2.4-4.8)	2.0 (1.4-2.9)	1.2 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
5	45 (39-54)	32 (27-40)	21 (18-27)	13 (11-18)	8.1 (6.6-11)	4.9 (4.0-6.7)	2.9 (2.4-4.0)	1.7 (1.4-2.4)	1.0 (0.8-1.5)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	55	41	29	19	12	7.1	4.2	2.5	1.5	0.9	0.6

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	8.5	5.4	3.4	2.1	1.3	0.8	0.5	0.3	0.2	0.1	0.1
1	12 (8.9-14)	7.8 (5.6-8.8)	4.9 (3.5-5.6)	3.1 (2.2-3.5)	1.9 (1.4-2.2)	1.2 (0.9-1.4)	0.7 (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)
2	17 (12-21)	11 (7.9-14)	7.1 (5.0-9.1)	4.5 (3.1-5.8)	2.8 (2.0-3.6)	1.8 (1.2-2.3)	1.1 (0.8-1.4)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	23 (18-29)	15 (12-20)	10 (7.4-13)	6.5 (4.7-8.6)	4.1 (3.0-5.5)	2.6 (1.8-3.5)	1.6 (1.1-2.2)	1.0 (0.7-1.4)	0.6 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
4	30 (25-38)	21 (17-27)	14 (11-19)	9.2 (7.1-12)	5.9 (4.5-8.0)	3.7 (2.8-5.1)	2.3 (1.8-3.2)	1.5 (1.1-2.1)	1.0 (0.7-1.3)	0.6 (0.5-0.9)	0.4 (0.3-0.6)
5	39 (35-46)	28 (25-35)	19 (17-25)	13 (11-17)	8.3 (7.2-11)	5.3 (4.6-7.2)	3.4 (2.9-4.6)	2.1 (1.8-2.9)	1.4 (1.2-1.9)	0.9 (0.8-1.2)	0.6 (0.5-0.8)
6	48	36	26	18	12	7.5	4.8	3.1	2.0	1.3	0.8

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	7.1	4.8	3.2	2.1	1.4	0.9	0.6	0.4	0.3	0.2	0.1
1	11 (9.9-14)	7.5 (6.7-9.8)	5.1 (4.5-6.6)	3.4 (3.0-4.4)	2.2 (2.0-2.9)	1.5 (1.3-1.9)	1.0 (0.8-1.3)	0.6 (0.6-0.9)	0.4 (0.4-0.6)	0.3 (0.3-0.4)	0.2 (0.2-0.3)
2	17 (14-21)	12 (9.5-15)	8.0 (6.5-10)	5.4 (4.3-7.1)	3.6 (2.9-4.7)	2.4 (1.9-3.2)	1.6 (1.3-2.1)	1.1 (0.9-1.4)	0.7 (0.6-1.0)	0.5 (0.4-0.7)	0.3 (0.3-0.4)
3	25 (20-30)	18 (14-22)	12 (9.6-15)	8.4 (6.5-11)	5.7 (4.4-7.2)	3.8 (2.9-4.8)	2.5 (1.9-3.2)	1.7 (1.3-2.2)	1.2 (0.9-1.5)	0.8 (0.6-1.0)	0.5 (0.4-0.7)
4	34 (28-40)	26 (20-30)	18 (14-22)	13 (9.8-16)	8.8 (6.6-11)	6.0 (4.5-7.2)	4.0 (3.0-4.9)	2.7 (2.0-3.3)	1.9 (1.4-2.3)	1.3 (0.9-1.5)	0.9 (0.6-1.0)
5	45 (37-49)	35 (28-39)	26 (21-29)	19 (15-21)	13 (10-15)	9.2 (6.9-10)	6.2 (4.7-6.9)	4.3 (3.2-4.8)	2.9 (2.2-3.3)	2.0 (1.5-2.3)	1.4 (1.0-1.6)
6	56	46	36	27	20	14	9.6	6.7	4.6	3.2	2.2

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	6.1	4.3	3.0	2.1	1.5	1.0	0.7	0.5	0.4	0.3	0.2
1	11 (8.4-23)	8.0 (6.0-17)	5.7 (4.3-12)	4.0 (3.0-8.8)	2.8 (2.1-6.2)	2.0 (1.5-4.4)	1.4 (1.0-3.1)	1.0 (0.7-2.2)	0.7 (0.5-1.6)	0.5 (0.4-1.1)	0.4 (0.3-0.8)
2	18 (12-31)	14 (8.3-24)	10.0 (6.0-18)	7.2 (4.2-13)	5.1 (3.0-9.6)	3.6 (2.1-6.9)	2.5 (1.4-4.9)	1.8 (1.0-3.5)	1.3 (0.7-2.5)	0.9 (0.5-1.8)	0.7 (0.4-1.3)
3	28 (16-41)	22 (12-33)	16 (8.3-25)	12 (6.0-19)	8.7 (4.2-14)	6.2 (3.0-10)	4.4 (2.1-7.3)	3.2 (1.5-5.3)	2.3 (1.1-3.9)	1.7 (0.8-2.8)	1.2 (0.6-2.0)
4	39 (22-50)	32 (16-41)	25 (12-33)	19 (8.8-25)	14 (6.3-19)	10 (4.5-14)	7.4 (3.2-10)	5.4 (2.3-7.4)	4.0 (1.7-5.4)	2.9 (1.2-4.0)	2.1 (0.9-2.9)
5	51 (30-58)	43 (23-50)	35 (17-41)	28 (13-33)	22 (9.4-25)	16 (6.8-19)	12 (4.8-14)	8.9 (3.5-10)	6.5 (2.6-7.6)	4.8 (1.9-5.6)	3.5 (1.4-4.1)
6	63	55	47	39	31	24	18	14	10	7.8	5.7

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	5.6	4.2	3.1	2.3	1.7	1.2	0.9	0.7	0.5	0.4	0.3
1	10 (7.3-21)	7.6 (5.4-16)	5.7 (4.0-12)	4.3 (3.0-9.4)	3.2 (2.2-7.0)	2.3 (1.6-5.2)	1.7 (1.2-3.9)	1.3 (0.9-2.9)	1.0 (0.7-2.2)	0.8 (0.5-1.7)	0.6 (0.4-1.3)
2	16 (9.7-29)	13 (7.4-23)	9.8 (5.5-18)	7.4 (4.1-14)	5.6 (3.1-11)	4.2 (2.3-7.9)	3.1 (1.7-6.0)	2.4 (1.3-4.6)	1.8 (1.0-3.5)	1.4 (0.7-2.7)	1.0 (0.5-2.0)
3	25 (13-38)	20 (10-31)	16 (7.7-25)	12 (5.8-20)	9.3 (4.3-15)	7.0 (3.2-12)	5.3 (2.4-8.9)	4.1 (1.8-6.9)	3.1 (1.4-5.3)	2.4 (1.1-4.0)	1.8 (0.8-3.1)
4	35 (18-46)	29 (14-39)	24 (11-32)	19 (8.4-26)	15 (6.4-21)	11 (4.8-16)	8.6 (3.6-12)	6.7 (2.8-9.5)	5.1 (2.1-7.4)	3.9 (1.6-5.7)	3.0 (1.2-4.3)
5	46 (25-53)	40 (20-46)	33 (16-39)	27 (12-32)	22 (9.4-26)	17 (7.1-20)	13 (5.4-16)	11 (4.2-13)	8.2 (3.2-10.0)	6.4 (2.5-7.8)	4.9 (1.9-6.0)
6	57	51	44	38	31	25	20	16	13	10	7.8

Ten years probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	5.4	4.2	3.3	2.6	2.0	1.5	1.2	1.0	0.8	0.6	0.5
1	9.6 (7.0-20)	7.6 (5.5-16)	6.0 (4.3-13)	4.7 (3.3-10)	3.7 (2.6-8.2)	2.9 (2.0-6.4)	2.3 (1.6-5.1)	1.8 (1.3-4.1)	1.4 (1.0-3.2)	1.2 (0.8-2.6)	0.9 (0.6-2.1)
2	16 (9.2-28)	13 (7.3-23)	10 (5.7-19)	8.1 (4.5-15)	6.4 (3.5-12)	5.1 (2.8-9.5)	4.0 (2.2-7.6)	3.2 (1.7-6.2)	2.6 (1.4-5.0)	2.1 (1.1-4.0)	1.7 (0.9-3.2)
3	23 (13-36)	20 (10-30)	16 (8.0-26)	13 (6.3-21)	10 (5.0-17)	8.4 (3.9-14)	6.7 (3.1-11)	5.4 (2.5-9.2)	4.4 (2.0-7.4)	3.5 (1.6-6.0)	2.8 (1.3-4.8)
4	33 (17-44)	28 (14-38)	24 (11-33)	20 (8.9-27)	16 (7.1-23)	13 (5.6-19)	11 (4.5-15)	8.8 (3.6-13)	7.1 (2.9-10)	5.8 (2.4-8.4)	4.7 (1.9-6.8)
5	44 (24-50)	38 (20-44)	33 (16-39)	28 (13-33)	24 (10-28)	20 (8.3-23)	16 (6.7-19)	14 (5.5-16)	11 (4.4-13)	9.2 (3.6-11)	7.5 (2.9-9.0)
6	55	50	44	38	33	28	24	20	17	14	12

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	5.3	4.4	3.6	2.9	2.4	1.9	1.6	1.3	1.1	0.9	0.8
1	9.5 (6.9-20)	7.9 (5.7-17)	6.5 (4.7-14)	5.4 (3.8-12)	4.4 (3.1-9.7)	3.6 (2.5-8.0)	3.0 (2.1-6.7)	2.5 (1.7-5.6)	2.1 (1.5-4.7)	1.8 (1.2-3.9)	1.5 (1.0-3.3)
2	15 (9.0-28)	13 (7.4-24)	11 (6.2-20)	9.1 (5.1-17)	7.5 (4.2-14)	6.2 (3.4-12)	5.2 (2.9-9.9)	4.4 (2.4-8.4)	3.7 (2.0-7.1)	3.1 (1.7-6.0)	2.6 (1.4-5.0)
3	23 (12-35)	20 (10-31)	17 (8.5-27)	14 (7.1-23)	12 (5.8-20)	10 (4.8-17)	8.6 (4.0-14)	7.4 (3.4-12)	6.2 (2.8-10)	5.3 (2.4-8.9)	4.4 (2.0-7.5)
4	33 (17-43)	29 (14-39)	25 (12-34)	22 (9.9-30)	19 (8.3-26)	16 (6.8-22)	14 (5.8-19)	12 (4.9-17)	10.0 (4.2-14)	8.5 (3.5-12)	7.2 (3.0-10)
5	43 (23-49)	39 (20-45)	35 (17-40)	31 (14-36)	27 (12-31)	23 (10-27)	20 (8.6-24)	18 (7.3-21)	15 (6.2-18)	13 (5.3-16)	11 (4.5-13)
6	54	50	45	41	37	32	29	25	22	20	17