

South Africa (African) - 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 South Africa (African). 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	0.0
1	0.8 (0.5-1.6)	0.4 (0.3-0.9)	0.2 (0.2-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	1.5 (0.8-3.2)	0.9 (0.4-1.8)	0.5 (0.2-1.0)	0.4 (0.2-0.8)	0.3 (0.1-0.6)	0.2 (0.1-0.5)	0.2 (0.1-0.4)
3	2.9 (1.2-5.6)	1.6 (0.7-3.2)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.5 (0.2-1.1)	0.4 (0.2-0.8)	0.3 (0.1-0.6)
4	5.2 (2.0-8.4)	2.9 (1.1-4.8)	1.6 (0.6-2.7)	1.3 (0.5-2.1)	1.0 (0.4-1.6)	0.8 (0.3-1.3)	0.6 (0.2-1.0)
5	9.1 (4.2-12)	5.2 (2.4-7.0)	2.9 (1.3-4.0)	2.3 (1.0-3.1)	1.8 (0.8-2.4)	1.4 (0.6-1.9)	1.1 (0.5-1.4)
6	15	9.1	5.2	4.0	3.1	2.4	1.9

Age = 55 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	0.7	0.4	0.2	0.2	0.1	0.1	0.1
1	1.3 (0.9-2.4)	0.7 (0.5-1.3)	0.4 (0.3-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.3)
2	2.5 (1.3-4.8)	1.4 (0.8-2.7)	0.8 (0.4-1.5)	0.6 (0.3-1.2)	0.5 (0.3-0.9)	0.4 (0.2-0.7)	0.3 (0.2-0.6)
3	4.5 (2.0-8.3)	2.5 (1.1-4.8)	1.4 (0.6-2.7)	1.1 (0.5-2.1)	0.9 (0.4-1.6)	0.7 (0.3-1.3)	0.5 (0.2-1.0)
4	7.8 (3.6-12)	4.5 (2.0-7.2)	2.5 (1.1-4.1)	2.0 (0.9-3.2)	1.5 (0.7-2.5)	1.2 (0.5-1.9)	0.9 (0.4-1.5)
5	13 (7.1-17)	7.9 (4.1-10)	4.5 (2.3-6.0)	3.5 (1.8-4.6)	2.7 (1.4-3.6)	2.1 (1.1-2.8)	1.6 (0.8-2.2)
6	22	13	7.7	6.1	4.7	3.7	2.8

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

Age = 60 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	1.1	0.6	0.4	0.3	0.2	0.2	0.1
1	2.1 (1.5-3.3)	1.2 (0.8-1.9)	0.7 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)
2	3.7 (2.2-6.5)	2.1 (1.2-3.8)	1.2 (0.7-2.1)	0.9 (0.5-1.7)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.3-0.8)
3	6.4 (3.3-11)	3.7 (1.9-6.6)	2.1 (1.1-3.8)	1.6 (0.8-2.9)	1.3 (0.6-2.3)	1.0 (0.5-1.8)	0.8 (0.4-1.4)
4	11 (5.7-17)	6.5 (3.3-9.9)	3.7 (1.9-5.7)	2.9 (1.4-4.4)	2.2 (1.1-3.5)	1.7 (0.9-2.7)	1.3 (0.7-2.1)
5	18 (11-23)	11 (6.6-14)	6.4 (3.8-8.3)	5.0 (3.0-6.5)	3.9 (2.3-5.0)	3.0 (1.8-3.9)	2.3 (1.4-3.0)
6	28	18	11	8.4	6.6	5.1	4.0

Age = 65 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	1.8	1.0	0.6	0.4	0.3	0.3	0.2
1	3.1 (2.3-4.3)	1.8 (1.3-2.5)	1.0 (0.7-1.4)	0.8 (0.6-1.1)	0.6 (0.4-0.8)	0.5 (0.3-0.6)	0.4 (0.3-0.5)
2	5.3 (3.3-8.4)	3.1 (1.9-5.0)	1.7 (1.1-2.9)	1.3 (0.8-2.2)	1.0 (0.7-1.7)	0.8 (0.5-1.3)	0.6 (0.4-1.0)
3	8.8 (5.0-14)	5.2 (2.9-8.7)	3.0 (1.7-5.0)	2.3 (1.3-3.9)	1.8 (1.0-3.0)	1.4 (0.8-2.4)	1.1 (0.6-1.8)
4	14 (8.6-21)	8.8 (5.1-13)	5.1 (2.9-7.6)	4.0 (2.3-5.9)	3.1 (1.7-4.6)	2.4 (1.4-3.6)	1.9 (1.0-2.8)
5	23 (16-28)	14 (10-18)	8.6 (5.9-11)	6.7 (4.6-8.5)	5.2 (3.6-6.7)	4.0 (2.8-5.2)	3.1 (2.1-4.0)
6	34	23	14	11	8.6	6.7	5.2

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

Age = 70 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	2.7	1.6	0.9	0.7	0.5	0.4	0.3
1	4.8 (3.8-5.6)	2.8 (2.2-3.3)	1.6 (1.3-1.9)	1.3 (1.0-1.5)	1.0 (0.8-1.1)	0.7 (0.6-0.9)	0.6 (0.5-0.7)
2	8.5 (5.7-12)	5.1 (3.4-6.9)	3.0 (2.0-4.0)	2.3 (1.5-3.1)	1.8 (1.2-2.4)	1.4 (0.9-1.8)	1.1 (0.7-1.4)
3	15 (9.8-21)	9.1 (5.9-13)	5.3 (3.4-8.0)	4.2 (2.7-6.2)	3.2 (2.1-4.8)	2.5 (1.6-3.8)	1.9 (1.2-2.9)
4	24 (18-33)	16 (11-22)	9.5 (6.9-14)	7.4 (5.4-11)	5.8 (4.2-8.4)	4.5 (3.2-6.6)	3.5 (2.5-5.1)
5	38 (33-45)	26 (22-32)	16 (14-20)	13 (11-16)	10 (8.6-13)	8.0 (6.7-9.8)	6.2 (5.2-7.7)
6	54	41	27	22	17	14	11

Age = 75 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	3.7	2.2	1.3	1.0	0.8	0.6	0.5
1	7.1 (5.1-12)	4.4 (3.1-7.6)	2.6 (1.9-4.4)	2.0 (1.4-3.4)	1.5 (1.1-2.7)	1.2 (0.9-2.1)	0.9 (0.7-1.6)
2	13 (7.6-21)	8.3 (4.8-14)	5.0 (2.8-8.8)	3.9 (2.2-6.8)	3.0 (1.7-5.3)	2.3 (1.3-4.1)	1.8 (1.0-3.2)
3	23 (13-35)	15 (8.2-24)	9.3 (4.9-15)	7.3 (3.8-12)	5.7 (3.0-9.4)	4.4 (2.3-7.4)	3.4 (1.8-5.7)
4	36 (22-50)	26 (14-38)	17 (8.8-25)	13 (6.9-20)	10 (5.3-16)	8.1 (4.1-13)	6.3 (3.2-9.8)
5	52 (35-62)	41 (25-50)	29 (17-36)	23 (13-29)	18 (10-23)	15 (8.0-18)	11 (6.2-15)
6	68	59	46	38	31	25	20

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

Age = 80 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	4.6	2.9	1.7	1.3	1.0	0.8	0.6
1	8.4 (6.0-15)	5.5 (4.0-9.7)	3.3 (2.5-5.9)	2.6 (1.9-4.6)	2.0 (1.5-3.6)	1.5 (1.1-2.7)	1.2 (0.9-2.1)
2	15 (9.0-24)	9.9 (6.0-17)	6.2 (3.7-11)	4.8 (2.9-8.8)	3.7 (2.2-6.8)	2.9 (1.7-5.3)	2.2 (1.3-4.1)
3	24 (14-37)	17 (9.1-28)	11 (5.7-19)	8.8 (4.4-15)	6.8 (3.4-12)	5.3 (2.6-9.1)	4.1 (2.0-7.1)
4	36 (21-49)	28 (15-39)	19 (9.9-28)	15 (7.7-22)	12 (6.0-17)	9.3 (4.6-14)	7.3 (3.6-11)
5	51 (33-60)	42 (26-51)	31 (18-38)	25 (14-31)	20 (11-25)	16 (8.5-20)	12 (6.6-16)
6	64	58	47	39	32	26	21

Age = 85 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	5.3	3.6	2.3	1.8	1.4	1.0	0.8
1	9.6 (6.7-17)	6.7 (4.8-12)	4.4 (3.2-7.8)	3.4 (2.4-6.0)	2.6 (1.9-4.7)	2.0 (1.4-3.6)	1.5 (1.1-2.8)
2	16 (9.9-27)	12 (7.2-20)	8.0 (4.8-14)	6.2 (3.7-11)	4.8 (2.8-8.4)	3.7 (2.2-6.5)	2.8 (1.6-5.0)
3	25 (15-38)	20 (11-31)	14 (7.3-23)	11 (5.6-18)	8.5 (4.3-14)	6.6 (3.3-11)	5.1 (2.6-8.6)
4	37 (22-49)	31 (17-42)	23 (12-33)	18 (9.7-26)	14 (7.5-21)	11 (5.8-17)	8.8 (4.5-13)
5	50 (33-59)	44 (28-53)	36 (21-44)	29 (17-36)	24 (13-30)	19 (10-24)	15 (7.7-19)
6	62	58	51	43	36	29	23

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

Age = 90 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	5.8	4.2	2.8	2.2	1.7	1.3	1.0
1	10 (7.0-18)	7.7 (5.3-14)	5.3 (3.8-9.5)	4.1 (2.9-7.3)	3.1 (2.2-5.6)	2.4 (1.7-4.3)	1.8 (1.3-3.3)
2	17 (10-28)	13 (8.0-22)	9.5 (5.7-16)	7.3 (4.3-12)	5.6 (3.3-9.7)	4.3 (2.5-7.5)	3.3 (1.9-5.8)
3	26 (15-38)	21 (12-32)	16 (8.6-26)	13 (6.6-21)	9.8 (5.1-16)	7.6 (3.9-13)	5.8 (3.0-9.7)
4	37 (22-49)	32 (18-43)	26 (14-36)	21 (11-29)	16 (8.4-23)	13 (6.4-19)	9.9 (4.9-15)
5	49 (33-58)	45 (28-54)	38 (23-47)	31 (18-39)	26 (14-32)	20 (11-26)	16 (8.4-21)
6	61	58	52	45	38	31	25