

South Africa (White) - 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 (White). 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	0.1
1	0.9 (0.6-1.7)	0.5 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)
2	1.7 (0.9-3.7)	0.9 (0.5-2.0)	0.5 (0.3-1.1)	0.4 (0.2-0.8)	0.3 (0.2-0.7)	0.2 (0.1-0.5)	0.2 (0.1-0.4)
3	3.3 (1.3-6.4)	1.8 (0.7-3.5)	1.0 (0.4-1.9)	0.7 (0.3-1.5)	0.6 (0.2-1.2)	0.5 (0.2-0.9)	0.4 (0.1-0.7)
4	6.0 (2.3-9.7)	3.3 (1.3-5.4)	1.8 (0.7-2.9)	1.4 (0.5-2.3)	1.1 (0.4-1.8)	0.8 (0.3-1.4)	0.7 (0.3-1.1)
5	11 (4.9-14)	5.9 (2.7-7.9)	3.2 (1.5-4.4)	2.5 (1.1-3.4)	2.0 (0.9-2.7)	1.5 (0.7-2.1)	1.2 (0.5-1.6)
6	18	10	5.7	4.5	3.5	2.7	2.1

Age = 55 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	0.8	0.5	0.2	0.2	0.2	0.1	0.1
1	1.6 (1.1-2.8)	0.9 (0.6-1.5)	0.5 (0.3-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)	0.2 (0.1-0.3)
2	3.0 (1.6-5.9)	1.7 (0.9-3.3)	0.9 (0.5-1.8)	0.7 (0.4-1.4)	0.5 (0.3-1.1)	0.4 (0.2-0.8)	0.3 (0.2-0.7)
3	5.5 (2.5-10)	3.0 (1.4-5.7)	1.7 (0.7-3.1)	1.3 (0.6-2.4)	1.0 (0.4-1.9)	0.8 (0.3-1.5)	0.6 (0.3-1.1)
4	9.8 (4.4-15)	5.5 (2.4-8.6)	3.0 (1.3-4.8)	2.3 (1.0-3.7)	1.8 (0.8-2.9)	1.4 (0.6-2.2)	1.1 (0.5-1.8)
5	17 (9.1-22)	9.6 (5.1-13)	5.3 (2.8-7.1)	4.1 (2.2-5.5)	3.2 (1.7-4.3)	2.5 (1.3-3.4)	2.0 (1.0-2.6)
6	28	16	9.2	7.2	5.6	4.4	3.4

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

Age = 60 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	1.6	0.9	0.5	0.4	0.3	0.2	0.2
1	2.9 (2.1-4.6)	1.6 (1.1-2.5)	0.9 (0.6-1.4)	0.7 (0.5-1.1)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)
2	5.3 (3.1-9.4)	2.9 (1.7-5.3)	1.6 (0.9-2.9)	1.2 (0.7-2.3)	1.0 (0.6-1.8)	0.7 (0.4-1.4)	0.6 (0.3-1.1)
3	9.2 (4.7-16)	5.2 (2.6-9.2)	2.9 (1.4-5.1)	2.2 (1.1-4.0)	1.7 (0.9-3.1)	1.3 (0.7-2.4)	1.0 (0.5-1.9)
4	16 (8.2-23)	9.0 (4.6-14)	5.0 (2.5-7.7)	3.9 (1.9-6.0)	3.0 (1.5-4.7)	2.4 (1.2-3.7)	1.8 (0.9-2.8)
5	26 (16-32)	15 (9.4-20)	8.6 (5.3-11)	6.8 (4.1-8.9)	5.3 (3.2-6.9)	4.1 (2.5-5.4)	3.2 (1.9-4.2)
6	40	25	15	11	9.0	7.1	5.5

Age = 65 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	2.8	1.6	0.8	0.7	0.5	0.4	0.3
1	4.9 (3.7-6.9)	2.7 (2.0-3.8)	1.5 (1.1-2.1)	1.2 (0.9-1.6)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.5 (0.4-0.8)
2	8.5 (5.4-14)	4.8 (3.0-7.9)	2.6 (1.7-4.4)	2.1 (1.3-3.4)	1.6 (1.0-2.7)	1.2 (0.8-2.1)	1.0 (0.6-1.6)
3	14 (8.1-23)	8.2 (4.6-14)	4.6 (2.5-7.7)	3.6 (2.0-6.0)	2.8 (1.5-4.7)	2.2 (1.2-3.7)	1.7 (0.9-2.8)
4	23 (14-33)	14 (7.9-20)	7.8 (4.4-11)	6.1 (3.4-9.0)	4.8 (2.7-7.1)	3.7 (2.1-5.5)	2.9 (1.6-4.3)
5	36 (26-44)	22 (16-28)	13 (9.2-17)	10 (7.2-13)	8.1 (5.6-10)	6.3 (4.4-8.1)	4.9 (3.4-6.3)
6	52	35	21	17	13	11	8.3

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

Age = 70 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	4.9	2.8	1.5	1.2	0.9	0.7	0.6
1	8.9 (7.1-10)	5.1 (4.1-5.8)	2.8 (2.3-3.2)	2.2 (1.8-2.5)	1.7 (1.4-2.0)	1.3 (1.1-1.5)	1.0 (0.8-1.2)
2	16 (11-21)	9.2 (6.2-12)	5.2 (3.4-6.8)	4.0 (2.7-5.3)	3.1 (2.1-4.1)	2.4 (1.6-3.2)	1.9 (1.3-2.5)
3	27 (18-37)	16 (11-23)	9.3 (6.0-14)	7.3 (4.7-11)	5.7 (3.7-8.6)	4.4 (2.8-6.7)	3.5 (2.2-5.2)
4	42 (33-55)	27 (21-37)	16 (12-23)	13 (9.6-18)	10 (7.5-15)	8.0 (5.9-12)	6.3 (4.6-9.0)
5	61 (55-69)	43 (38-51)	28 (24-33)	22 (19-27)	18 (15-21)	14 (12-17)	11 (9.5-13)
6	78	63	44	37	30	24	19

Age = 75 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	8.6	5.0	2.8	2.2	1.7	1.3	1.0
1	16 (12-27)	9.7 (7.2-16)	5.6 (4.1-9.4)	4.3 (3.2-7.4)	3.4 (2.5-5.8)	2.6 (1.9-4.5)	2.0 (1.5-3.5)
2	29 (18-45)	18 (11-30)	11 (6.2-19)	8.4 (4.8-15)	6.6 (3.8-12)	5.1 (2.9-9.1)	4.0 (2.3-7.1)
3	46 (29-64)	31 (18-47)	20 (11-31)	16 (8.4-25)	12 (6.6-20)	9.7 (5.1-16)	7.6 (4.0-13)
4	65 (45-79)	50 (30-66)	34 (19-48)	27 (15-40)	22 (12-33)	18 (9.1-26)	14 (7.1-21)
5	80 (65-86)	69 (50-78)	53 (34-62)	45 (28-53)	37 (22-45)	30 (18-37)	24 (14-30)
6	88	85	74	66	57	48	40

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

Age = 80 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	14	8.5	4.9	3.8	3.0	2.3	1.8
1	25 (19-40)	16 (12-26)	9.4 (7.1-16)	7.4 (5.5-13)	5.8 (4.3-10)	4.5 (3.3-7.8)	3.5 (2.6-6.1)
2	40 (27-59)	27 (18-45)	17 (11-30)	14 (8.3-24)	11 (6.5-19)	8.4 (5.1-15)	6.6 (3.9-12)
3	56 (38-73)	43 (26-62)	29 (16-46)	24 (13-38)	19 (9.9-31)	15 (7.8-25)	12 (6.0-20)
4	71 (55-81)	61 (40-75)	46 (26-61)	39 (21-52)	32 (17-44)	26 (13-36)	21 (10-29)
5	81 (70-86)	77 (60-83)	65 (45-74)	57 (37-66)	49 (31-57)	41 (25-49)	34 (20-41)
6	87	86	81	75	68	60	51

Age = 85 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	22	14	8.6	6.7	5.2	4.0	3.1
1	35 (28-53)	25 (19-40)	16 (12-27)	13 (9.5-21)	9.9 (7.4-17)	7.7 (5.7-13)	6.0 (4.4-10)
2	51 (38-69)	40 (27-58)	27 (18-45)	22 (14-37)	18 (11-30)	14 (8.6-24)	11 (6.7-19)
3	65 (50-78)	56 (38-73)	43 (26-63)	36 (21-54)	30 (17-46)	24 (13-38)	19 (10-31)
4	75 (62-84)	71 (55-81)	61 (41-75)	53 (33-68)	45 (27-60)	38 (22-51)	31 (17-43)
5	82 (73-86)	81 (69-86)	76 (60-83)	70 (52-78)	63 (44-72)	55 (36-64)	47 (30-56)
6	86	86	86	82	77	71	64

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

Age = 90 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	29	21	14	11	8.4	6.5	5.0
1	44 (35-62)	34 (27-52)	24 (19-39)	19 (15-32)	15 (11-26)	12 (8.9-21)	9.4 (6.9-16)
2	58 (46-74)	50 (37-68)	39 (27-58)	32 (21-49)	26 (17-42)	21 (13-34)	17 (10-28)
3	69 (56-80)	64 (49-78)	55 (37-73)	48 (31-66)	40 (25-58)	34 (20-50)	27 (15-42)
4	77 (66-85)	75 (62-84)	70 (54-81)	64 (46-76)	57 (38-70)	49 (31-63)	42 (25-55)
5	82 (75-85)	82 (73-86)	81 (69-86)	76 (62-82)	71 (54-78)	64 (46-73)	57 (39-66)
6	83	86	86	84	80	76	71