

South Africa (Indian) - 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 (Indian). 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	0.6	0.3	0.2	0.1	0.1	0.1	0.1
1	1.3 (0.8-2.5)	0.7 (0.5-1.4)	0.4 (0.2-0.7)	0.3 (0.2-0.6)	0.2 (0.2-0.4)	0.2 (0.1-0.4)	0.1 (0.1-0.3)
2	2.5 (1.3-5.3)	1.4 (0.7-2.9)	0.7 (0.4-1.6)	0.6 (0.3-1.2)	0.4 (0.2-1.0)	0.3 (0.2-0.7)	0.3 (0.1-0.6)
3	4.7 (1.9-9.2)	2.6 (1.0-5.1)	1.4 (0.6-2.8)	1.1 (0.4-2.2)	0.8 (0.3-1.7)	0.7 (0.3-1.3)	0.5 (0.2-1.0)
4	8.5 (3.4-14)	4.7 (1.8-7.7)	2.6 (1.0-4.2)	2.0 (0.8-3.3)	1.6 (0.6-2.6)	1.2 (0.5-2.0)	0.9 (0.4-1.6)
5	15 (7.0-20)	8.4 (3.9-11)	4.7 (2.1-6.3)	3.6 (1.7-4.9)	2.8 (1.3-3.8)	2.2 (1.0-3.0)	1.7 (0.8-2.3)
6	25	15	8.2	6.4	5.0	3.9	3.0

Age = 55 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	1.3	0.7	0.4	0.3	0.2	0.2	0.1
1	2.5 (1.7-4.4)	1.4 (1.0-2.4)	0.8 (0.5-1.3)	0.6 (0.4-1.0)	0.5 (0.3-0.8)	0.4 (0.2-0.6)	0.3 (0.2-0.5)
2	4.7 (2.6-9.1)	2.6 (1.4-5.1)	1.4 (0.8-2.8)	1.1 (0.6-2.2)	0.9 (0.5-1.7)	0.7 (0.4-1.3)	0.5 (0.3-1.0)
3	8.5 (3.9-16)	4.8 (2.2-8.9)	2.6 (1.2-5.0)	2.0 (0.9-3.9)	1.6 (0.7-3.0)	1.2 (0.6-2.3)	1.0 (0.4-1.8)
4	15 (6.8-23)	8.5 (3.8-13)	4.7 (2.1-7.5)	3.7 (1.6-5.8)	2.9 (1.3-4.6)	2.2 (1.0-3.6)	1.7 (0.8-2.8)
5	24 (14-31)	15 (7.8-19)	8.3 (4.4-11)	6.5 (3.4-8.6)	5.1 (2.7-6.7)	4.0 (2.1-5.3)	3.1 (1.6-4.1)
6	39	24	14	11	8.8	6.9	5.4

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

Age = 60 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	2.6	1.5	0.8	0.6	0.5	0.4	0.3
1	4.8 (3.4-7.4)	2.7 (1.9-4.2)	1.5 (1.1-2.3)	1.1 (0.8-1.8)	0.9 (0.6-1.4)	0.7 (0.5-1.1)	0.5 (0.4-0.8)
2	8.4 (5.0-15)	4.8 (2.8-8.6)	2.7 (1.6-4.8)	2.1 (1.2-3.8)	1.6 (0.9-2.9)	1.3 (0.7-2.3)	1.0 (0.6-1.8)
3	14 (7.5-24)	8.4 (4.3-15)	4.8 (2.4-8.4)	3.7 (1.9-6.6)	2.9 (1.4-5.1)	2.2 (1.1-4.0)	1.7 (0.9-3.1)
4	24 (13-34)	14 (7.5-21)	8.3 (4.2-13)	6.5 (3.3-9.9)	5.0 (2.5-7.7)	3.9 (2.0-6.0)	3.1 (1.5-4.7)
5	37 (24-45)	24 (15-30)	14 (8.6-18)	11 (6.7-14)	8.7 (5.2-11)	6.8 (4.1-8.8)	5.3 (3.2-6.9)
6	54	37	23	18	14	11	9.0

Age = 65 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	4.3	2.4	1.4	1.1	0.8	0.6	0.5
1	7.4 (5.6-10)	4.3 (3.2-6.0)	2.4 (1.8-3.4)	1.9 (1.4-2.6)	1.4 (1.1-2.0)	1.1 (0.8-1.6)	0.9 (0.6-1.2)
2	12 (7.9-19)	7.3 (4.6-12)	4.2 (2.6-6.9)	3.3 (2.0-5.4)	2.5 (1.6-4.2)	2.0 (1.2-3.3)	1.5 (1.0-2.5)
3	20 (12-31)	12 (7.0-20)	7.2 (4.0-12)	5.6 (3.1-9.3)	4.4 (2.4-7.3)	3.4 (1.9-5.7)	2.6 (1.4-4.4)
4	31 (20-43)	20 (12-29)	12 (6.9-18)	9.4 (5.4-14)	7.4 (4.2-11)	5.8 (3.3-8.5)	4.5 (2.5-6.7)
5	46 (35-53)	31 (23-38)	20 (14-24)	16 (11-20)	12 (8.5-16)	9.6 (6.7-12)	7.5 (5.2-9.6)
6	62	46	31	25	20	16	12

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

Age = 70 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	6.2	3.7	2.1	1.6	1.3	1.0	0.8
1	11 (8.5-13)	6.6 (5.2-7.7)	3.9 (3.1-4.5)	3.0 (2.4-3.5)	2.3 (1.8-2.7)	1.8 (1.4-2.1)	1.4 (1.1-1.6)
2	19 (13-25)	12 (7.9-16)	7.0 (4.6-9.3)	5.4 (3.6-7.2)	4.2 (2.8-5.6)	3.3 (2.2-4.4)	2.5 (1.7-3.4)
3	30 (21-41)	20 (13-28)	12 (8.1-18)	9.6 (6.3-14)	7.5 (4.9-11)	5.9 (3.8-8.7)	4.5 (2.9-6.8)
4	45 (34-57)	32 (24-44)	21 (16-29)	17 (12-24)	13 (9.5-19)	10 (7.4-15)	8.1 (5.8-12)
5	61 (55-69)	49 (43-57)	34 (30-41)	28 (24-33)	22 (19-27)	18 (15-22)	14 (12-17)
6	74	66	52	43	36	29	23

Age = 75 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	8.7	5.5	3.3	2.5	2.0	1.5	1.2
1	16 (11-26)	10 (7.6-18)	6.4 (4.7-11)	5.0 (3.6-8.6)	3.9 (2.8-6.7)	3.0 (2.1-5.2)	2.3 (1.7-4.0)
2	27 (17-41)	19 (11-30)	12 (7.0-20)	9.5 (5.5-16)	7.4 (4.2-13)	5.7 (3.3-9.9)	4.4 (2.5-7.7)
3	41 (26-58)	31 (19-46)	21 (12-34)	17 (9.4-27)	14 (7.3-22)	11 (5.7-17)	8.3 (4.4-14)
4	57 (39-70)	48 (31-63)	35 (21-50)	29 (16-42)	23 (13-34)	19 (10-28)	15 (7.8-22)
5	70 (55-77)	64 (47-73)	53 (35-63)	45 (29-55)	38 (23-46)	31 (18-39)	25 (14-32)
6	79	77	71	64	56	47	40

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

Age = 80 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	12	7.9	5.0	3.8	3.0	2.3	1.7
1	20 (14-33)	14 (10-24)	9.3 (6.8-16)	7.2 (5.3-13)	5.6 (4.1-9.9)	4.3 (3.1-7.7)	3.3 (2.4-6.0)
2	31 (21-48)	24 (15-38)	17 (10-28)	13 (7.9-22)	10 (6.1-18)	7.9 (4.7-14)	6.1 (3.6-11)
3	44 (29-59)	37 (22-53)	27 (15-42)	22 (12-35)	18 (9.4-28)	14 (7.2-23)	11 (5.6-18)
4	57 (40-69)	51 (34-64)	42 (25-55)	35 (20-47)	28 (16-39)	23 (12-32)	18 (9.6-26)
5	68 (53-75)	65 (48-73)	58 (39-67)	50 (32-59)	43 (26-51)	35 (21-43)	29 (16-36)
6	77	75	72	65	58	50	43

Age = 85 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	14	11	7.4	5.7	4.4	3.4	2.6
1	23 (17-38)	19 (13-31)	13 (9.7-23)	10 (7.5-18)	8.1 (5.8-14)	6.2 (4.4-11)	4.8 (3.4-8.6)
2	34 (23-52)	29 (19-45)	22 (14-36)	18 (11-29)	14 (8.6-23)	11 (6.6-19)	8.5 (5.1-15)
3	47 (32-62)	42 (27-57)	35 (21-50)	28 (17-43)	23 (13-35)	18 (10-29)	14 (7.7-23)
4	58 (42-70)	55 (37-67)	49 (32-62)	42 (25-54)	35 (20-47)	29 (16-39)	23 (12-32)
5	69 (55-75)	66 (51-74)	62 (45-71)	56 (38-65)	48 (31-58)	41 (25-50)	34 (20-43)
6	76	75	73	68	62	55	48

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

Age = 90 years

Number of CRFs	BMI kg/m ²						
	15	20	25	30	35	40	45
0	17	13	9.9	7.6	5.8	4.5	3.4
1	26 (19-41)	22 (16-36)	17 (12-29)	13 (9.6-23)	10 (7.4-18)	8.1 (5.6-14)	6.2 (4.3-11)
2	37 (26-54)	33 (22-50)	27 (18-43)	22 (14-36)	18 (11-29)	14 (8.4-23)	11 (6.4-18)
3	49 (34-64)	45 (30-60)	40 (26-55)	33 (21-47)	27 (16-40)	22 (13-33)	18 (9.7-27)
4	60 (44-71)	57 (40-69)	53 (36-65)	46 (29-58)	39 (24-51)	33 (19-44)	27 (15-37)
5	69 (57-74)	68 (53-74)	65 (49-73)	59 (42-67)	52 (35-61)	45 (29-54)	38 (23-47)
6	73	75	74	70	64	58	51