

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 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 (Indian). 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	10	5.4	2.8	1.4	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	16 (11-21)	8.6 (5.7-11)	4.5 (2.9-5.9)	2.3 (1.5-3.1)	1.2 (0.8-1.6)	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	25 (15-35)	13 (8.0-20)	7.1 (4.2-11)	3.7 (2.1-5.6)	1.9 (1.1-2.9)	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 (0.0-0.1)	0.0 (0.0-0.1)
3	36 (22-52)	20 (12-32)	11 (6.3-18)	5.8 (3.3-9.5)	3.0 (1.7-5.0)	1.6 (0.9-2.6)	0.8 (0.4-1.3)	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	50 (35-67)	30 (20-44)	17 (11-26)	9.0 (5.6-14)	4.7 (2.9-7.5)	2.4 (1.5-3.9)	1.2 (0.8-2.0)	0.7 (0.4-1.1)	0.3 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	65 (55-79)	43 (34-56)	25 (19-35)	14 (10-20)	7.3 (5.3-11)	3.8 (2.7-5.5)	1.9 (1.4-2.8)	1.0 (0.7-1.5)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
6	80	58	36	20	11	5.8	3.0	1.6	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 women from South Africa (Indian).

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	12	6.8	3.7	2.0	1.1	0.6	0.3	0.2	0.1	0.1	0.0
1	19 (13-23)	11 (7.2-13)	5.9 (3.9-7.2)	3.2 (2.1-3.9)	1.7 (1.1-2.1)	0.9 (0.6-1.1)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	28 (18-38)	16 (10-23)	9.1 (5.5-13)	5.0 (3.0-7.2)	2.7 (1.6-3.9)	1.5 (0.9-2.1)	0.8 (0.5-1.2)	0.4 (0.3-0.6)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	39 (26-55)	24 (15-36)	14 (8.3-21)	7.7 (4.5-12)	4.2 (2.5-6.7)	2.3 (1.3-3.6)	1.2 (0.7-2.0)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	53 (40-70)	34 (24-49)	21 (14-30)	12 (7.7-18)	6.5 (4.2-10.0)	3.5 (2.3-5.5)	1.9 (1.2-3.0)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	68 (60-80)	47 (40-61)	30 (24-40)	17 (14-24)	9.8 (7.7-14)	5.4 (4.2-7.7)	2.9 (2.3-4.2)	1.6 (1.3-2.4)	0.9 (0.7-1.3)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	82	62	42	25	15	8.1	4.4	2.5	1.4	0.8	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	15	8.4	4.8	2.7	1.5	0.8	0.5	0.3	0.2	0.1	0.1
1	22 (15-25)	13 (8.8-15)	7.4 (5.0-8.7)	4.2 (2.8-4.9)	2.4 (1.6-2.8)	1.3 (0.9-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	31 (21-41)	19 (12-25)	11 (7.1-15)	6.4 (4.0-8.8)	3.6 (2.3-5.0)	2.0 (1.3-2.8)	1.2 (0.7-1.6)	0.7 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	43 (30-57)	28 (18-39)	17 (11-24)	9.7 (6.1-14)	5.5 (3.4-8.4)	3.1 (1.9-4.8)	1.8 (1.1-2.7)	1.0 (0.6-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	57 (45-71)	38 (29-52)	24 (17-34)	14 (10-21)	8.3 (5.8-12)	4.7 (3.3-7.2)	2.7 (1.9-4.1)	1.6 (1.1-2.4)	0.9 (0.6-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
5	70 (65-81)	51 (46-64)	34 (29-45)	21 (18-29)	12 (10-17)	7.1 (5.9-10)	4.1 (3.4-5.8)	2.4 (2.0-3.4)	1.4 (1.1-2.0)	0.8 (0.7-1.2)	0.5 (0.4-0.7)
6	82	66	46	30	18	11	6.1	3.6	2.1	1.2	0.7

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

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	15	9.0	5.3	3.1	1.8	1.1	0.6	0.4	0.2	0.1	0.1
1	22 (16-25)	13 (9.4-16)	8.0 (5.6-9.5)	4.7 (3.3-5.6)	2.8 (1.9-3.3)	1.6 (1.1-1.9)	1.0 (0.7-1.2)	0.6 (0.4-0.7)	0.4 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
2	31 (21-38)	19 (13-25)	12 (7.8-15)	7.1 (4.6-9.3)	4.2 (2.7-5.5)	2.5 (1.6-3.2)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
3	42 (31-54)	28 (19-37)	17 (12-24)	11 (7.0-15)	6.3 (4.1-9.0)	3.7 (2.4-5.4)	2.2 (1.4-3.3)	1.4 (0.9-2.0)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)
4	55 (45-68)	38 (30-50)	25 (19-34)	15 (11-22)	9.3 (6.8-13)	5.5 (4.0-8.1)	3.4 (2.4-4.9)	2.0 (1.5-3.0)	1.2 (0.9-1.8)	0.7 (0.5-1.1)	0.4 (0.3-0.7)
5	67 (62-77)	50 (44-62)	34 (29-44)	22 (18-29)	14 (11-18)	8.1 (6.7-11)	5.0 (4.1-7.0)	3.0 (2.5-4.3)	1.8 (1.5-2.6)	1.1 (0.9-1.6)	0.7 (0.5-1.0)
6	79	63	46	31	19	12	7.3	4.5	2.7	1.7	1.0

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	14	9.0	5.5	3.4	2.1	1.3	0.8	0.5	0.3	0.2	0.1
1	23 (20-28)	15 (13-18)	9.1 (7.8-11)	5.6 (4.8-7.1)	3.5 (2.9-4.4)	2.1 (1.8-2.7)	1.3 (1.1-1.7)	0.8 (0.7-1.1)	0.5 (0.5-0.7)	0.3 (0.3-0.4)	0.2 (0.2-0.3)
2	34 (28-43)	23 (18-30)	15 (12-20)	9.2 (7.2-12)	5.7 (4.4-7.8)	3.6 (2.7-4.9)	2.3 (1.7-3.1)	1.4 (1.1-2.0)	0.9 (0.7-1.2)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
3	49 (40-57)	34 (27-42)	23 (17-29)	15 (11-19)	9.3 (6.8-12)	5.9 (4.2-7.8)	3.7 (2.7-5.0)	2.4 (1.7-3.2)	1.5 (1.1-2.0)	0.9 (0.7-1.3)	0.6 (0.4-0.8)
4	64 (55-70)	49 (39-56)	35 (27-41)	23 (17-28)	15 (11-18)	9.5 (6.9-12)	6.1 (4.4-7.7)	3.9 (2.8-4.9)	2.5 (1.8-3.1)	1.6 (1.1-2.0)	1.0 (0.7-1.3)
5	77 (70-80)	64 (56-68)	49 (41-54)	35 (28-39)	23 (19-26)	15 (12-17)	9.9 (7.8-11)	6.4 (5.0-7.4)	4.1 (3.2-4.7)	2.6 (2.0-3.0)	1.6 (1.3-1.9)
6	85	77	65	49	35	24	16	10	6.7	4.3	2.7

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

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	14	9.3	6.0	3.9	2.5	1.6	1.1	0.7	0.5	0.3	0.2
1	25 (19-47)	17 (13-34)	12 (8.4-23)	7.5 (5.4-16)	4.9 (3.5-10)	3.2 (2.3-6.9)	2.1 (1.5-4.6)	1.4 (1.0-3.0)	0.9 (0.7-2.0)	0.6 (0.4-1.3)	0.4 (0.3-0.9)
2	40 (26-63)	29 (18-49)	20 (12-36)	14 (7.7-26)	9.0 (4.9-17)	6.1 (3.3-12)	4.1 (2.2-8.0)	2.7 (1.4-5.4)	1.8 (0.9-3.6)	1.2 (0.6-2.4)	0.8 (0.4-1.6)
3	56 (37-74)	44 (26-62)	32 (17-49)	23 (11-36)	16 (7.4-25)	11 (4.9-18)	7.3 (3.3-12)	4.9 (2.2-8.4)	3.3 (1.4-5.7)	2.2 (0.9-3.8)	1.4 (0.6-2.5)
4	70 (50-80)	60 (37-72)	48 (26-61)	36 (18-48)	26 (12-35)	18 (7.9-26)	13 (5.3-18)	8.6 (3.5-13)	5.8 (2.3-8.5)	3.9 (1.5-5.7)	2.6 (1.0-3.8)
5	80 (63-85)	74 (51-79)	64 (39-70)	52 (28-58)	39 (19-45)	29 (13-34)	21 (9.0-25)	14 (6.1-17)	9.9 (4.1-12)	6.7 (2.7-8.1)	4.5 (1.8-5.4)
6	87	83	77	68	56	44	33	23	16	11	7.6

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	14	9.7	6.6	4.5	3.0	2.1	1.5	1.0	0.7	0.5	0.3
1	24 (18-46)	17 (13-35)	12 (8.6-25)	8.5 (5.8-18)	5.8 (4.0-12)	4.1 (2.8-8.8)	2.9 (1.9-6.2)	2.0 (1.3-4.3)	1.4 (0.9-3.0)	1.0 (0.6-2.1)	0.7 (0.4-1.4)
2	37 (24-59)	28 (17-48)	21 (12-37)	15 (8.2-28)	10 (5.6-20)	7.5 (3.9-15)	5.3 (2.7-10)	3.7 (1.9-7.4)	2.6 (1.3-5.2)	1.8 (0.9-3.6)	1.2 (0.6-2.5)
3	52 (34-70)	42 (25-60)	32 (17-49)	24 (12-38)	18 (8.4-28)	13 (5.9-21)	9.2 (4.1-15)	6.5 (2.9-11)	4.6 (2.0-8.0)	3.2 (1.4-5.6)	2.2 (1.0-4.0)
4	65 (45-76)	56 (34-69)	46 (25-59)	36 (18-48)	28 (13-38)	21 (9.1-30)	15 (6.4-22)	11 (4.5-16)	7.9 (3.2-12)	5.6 (2.2-8.4)	3.9 (1.5-6.0)
5	75 (57-80)	69 (46-75)	60 (36-67)	51 (27-58)	41 (20-48)	32 (15-38)	24 (11-30)	18 (7.5-22)	13 (5.3-16)	9.3 (3.7-12)	6.6 (2.6-8.3)
6	83	79	73	65	55	46	36	28	21	15	11

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

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	14	10	7.4	5.3	3.9	2.9	2.1	1.5	1.1	0.8	0.6
1	24 (18-44)	18 (13-35)	13 (9.7-27)	9.8 (6.9-21)	7.3 (5.1-16)	5.5 (3.8-12)	4.0 (2.8-8.8)	3.0 (2.0-6.5)	2.2 (1.5-4.8)	1.6 (1.1-3.5)	1.2 (0.8-2.6)
2	36 (24-56)	28 (18-47)	22 (13-38)	17 (9.7-30)	13 (7.1-24)	9.7 (5.3-18)	7.3 (3.9-14)	5.4 (2.9-11)	4.0 (2.1-7.9)	2.9 (1.5-5.9)	2.2 (1.1-4.3)
3	49 (32-65)	41 (25-58)	33 (19-49)	26 (14-40)	21 (10-33)	16 (7.8-26)	12 (5.8-20)	9.3 (4.3-15)	6.9 (3.2-12)	5.2 (2.3-8.7)	3.8 (1.7-6.5)
4	61 (41-72)	54 (34-66)	46 (26-58)	38 (20-50)	31 (15-42)	25 (12-34)	20 (8.7-27)	15 (6.5-21)	12 (4.8-17)	8.7 (3.5-13)	6.5 (2.6-9.5)
5	71 (52-76)	65 (44-71)	58 (36-65)	51 (28-57)	44 (22-50)	36 (17-42)	30 (13-35)	24 (10-28)	18 (7.7-22)	14 (5.7-17)	11 (4.3-13)
6	79	75	70	63	57	49	42	35	28	22	17

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	14	11	8.0	6.1	4.8	3.7	2.9	2.2	1.7	1.3	1.0
1	23 (17-42)	18 (14-35)	14 (10-29)	11 (8.0-23)	8.8 (6.3-19)	7.0 (4.9-15)	5.5 (3.8-12)	4.3 (2.9-9.3)	3.3 (2.3-7.3)	2.6 (1.8-5.7)	2.0 (1.4-4.4)
2	34 (23-53)	28 (18-46)	23 (14-39)	18 (11-32)	15 (8.7-27)	12 (6.8-22)	9.6 (5.3-18)	7.6 (4.2-14)	6.0 (3.2-11)	4.7 (2.5-9.1)	3.6 (1.9-7.1)
3	46 (30-62)	39 (24-56)	33 (19-49)	28 (15-42)	23 (12-36)	19 (9.7-31)	16 (7.6-25)	13 (6.0-21)	10 (4.7-17)	8.0 (3.7-13)	6.3 (2.9-11)
4	57 (38-69)	51 (32-63)	45 (26-57)	39 (21-51)	34 (17-45)	29 (14-39)	24 (11-33)	20 (9.0-27)	16 (7.1-22)	13 (5.5-18)	10 (4.3-15)
5	68 (48-73)	63 (41-69)	57 (35-64)	51 (29-58)	46 (25-52)	40 (20-46)	35 (17-40)	29 (13-35)	25 (11-29)	20 (8.5-24)	16 (6.8-20)
6	76	72	68	63	58	53	47	41	35	30	25