

India - 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 India. 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	6.0	3.1	1.6	0.8	0.4	0.2	0.1	0.1	0.0	0.0	0.0	
1	9.5 (6.3-12)	5.0 (3.3-6.5)	2.6 (1.7-3.4)	1.3 (0.9-1.7)	0.7 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	
2	15 (8.8-22)	7.8 (4.6-12)	4.1 (2.4-6.2)	2.1 (1.2-3.2)	1.1 (0.6-1.7)	0.6 (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)	0.0 (0.0-0.0)	
3	22 (13-34)	12 (7.0-19)	6.4 (3.6-10)	3.3 (1.9-5.4)	1.7 (1.0-2.8)	0.9 (0.5-1.5)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	
4	32 (21-46)	18 (12-28)	9.9 (6.1-15)	5.2 (3.2-8.2)	2.7 (1.6-4.3)	1.4 (0.8-2.2)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
5	45 (36-58)	27 (20-37)	15 (11-21)	7.9 (5.8-11)	4.1 (3.0-6.0)	2.1 (1.5-3.1)	1.1 (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)	
6	60	38	22	12	6.3	3.3	1.7	0.9	0.5	0.3	0.1	

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

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	7.6	4.2	2.3	1.2	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	12 (8.0-14)	6.5 (4.4-8.0)	3.5 (2.4-4.4)	1.9 (1.3-2.4)	1.0 (0.7-1.3)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
2	18 (11-25)	10.0 (6.1-14)	5.5 (3.4-8.0)	3.0 (1.8-4.4)	1.6 (1.0-2.4)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	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	26 (16-37)	15 (9.2-23)	8.5 (5.1-13)	4.7 (2.8-7.3)	2.5 (1.5-4.0)	1.4 (0.8-2.2)	0.7 (0.4-1.2)	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	37 (26-50)	22 (15-32)	13 (8.5-19)	7.1 (4.7-11)	3.9 (2.5-6.0)	2.1 (1.4-3.3)	1.1 (0.7-1.8)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	50 (42-62)	32 (26-42)	19 (15-26)	11 (8.4-15)	5.9 (4.6-8.4)	3.2 (2.5-4.6)	1.8 (1.4-2.5)	1.0 (0.8-1.4)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
6	64	44	27	16	8.9	4.9	2.7	1.5	0.8	0.5	0.3

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	11	6.1	3.5	2.0	1.1	0.6	0.4	0.2	0.1	0.1	0.0
1	16 (11-18)	9.3 (6.4-11)	5.3 (3.6-6.2)	3.0 (2.1-3.5)	1.7 (1.2-2.0)	1.0 (0.6-1.1)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	23 (15-30)	14 (9.0-19)	8.0 (5.1-11)	4.6 (2.9-6.3)	2.6 (1.6-3.6)	1.5 (0.9-2.0)	0.8 (0.5-1.2)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	32 (22-44)	20 (13-28)	12 (7.7-17)	6.9 (4.4-10)	4.0 (2.5-5.9)	2.2 (1.4-3.3)	1.3 (0.8-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
4	44 (34-57)	29 (21-39)	17 (13-25)	10 (7.2-15)	5.9 (4.1-8.8)	3.4 (2.3-5.1)	1.9 (1.3-2.9)	1.1 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
5	56 (50-67)	39 (34-50)	25 (21-33)	15 (13-21)	8.8 (7.3-12)	5.0 (4.2-7.1)	2.9 (2.4-4.1)	1.7 (1.4-2.4)	1.0 (0.8-1.4)	0.6 (0.5-0.8)	0.3 (0.3-0.5)
6	69	51	34	22	13	7.5	4.3	2.5	1.5	0.9	0.5

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

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	13	7.9	4.7	2.8	1.6	1.0	0.6	0.3	0.2	0.1	0.1
1	19 (14-22)	12 (8.3-14)	7.0 (4.9-8.2)	4.2 (2.9-4.9)	2.5 (1.7-2.9)	1.4 (1.0-1.7)	0.9 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	27 (19-33)	17 (12-22)	10 (7.0-13)	6.2 (4.1-8.1)	3.7 (2.4-4.8)	2.2 (1.4-2.8)	1.3 (0.9-1.7)	0.8 (0.5-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
3	36 (27-46)	24 (17-31)	15 (10-20)	9.1 (6.2-13)	5.5 (3.7-7.6)	3.2 (2.2-4.6)	2.0 (1.3-2.8)	1.2 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
4	47 (39-58)	33 (26-43)	21 (16-29)	13 (10.0-18)	8.0 (6.0-11)	4.8 (3.5-6.9)	2.9 (2.1-4.2)	1.8 (1.3-2.6)	1.1 (0.8-1.6)	0.7 (0.5-1.0)	0.4 (0.3-0.6)
5	59 (55-68)	43 (39-53)	29 (26-38)	19 (16-25)	12 (9.8-16)	7.0 (5.8-9.6)	4.3 (3.6-5.9)	2.6 (2.2-3.7)	1.6 (1.3-2.2)	1.0 (0.8-1.4)	0.6 (0.5-0.8)
6	69	55	39	26	16	10	6.2	3.8	2.4	1.4	0.9

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	13	8.5	5.3	3.2	2.0	1.2	0.8	0.5	0.3	0.2	0.1
1	21 (18-26)	14 (12-17)	8.6 (7.4-11)	5.3 (4.6-6.8)	3.3 (2.8-4.2)	2.0 (1.8-2.6)	1.3 (1.1-1.7)	0.8 (0.7-1.1)	0.5 (0.4-0.7)	0.3 (0.3-0.4)	0.2 (0.2-0.3)
2	31 (26-39)	21 (17-27)	14 (11-18)	8.6 (6.9-12)	5.4 (4.3-7.2)	3.4 (2.7-4.6)	2.1 (1.7-2.9)	1.4 (1.1-1.9)	0.9 (0.7-1.2)	0.5 (0.4-0.8)	0.3 (0.3-0.5)
3	44 (37-52)	31 (25-38)	21 (16-26)	14 (10-17)	8.7 (6.5-11)	5.5 (4.1-7.1)	3.5 (2.6-4.6)	2.2 (1.7-2.9)	1.4 (1.0-1.9)	0.9 (0.7-1.2)	0.6 (0.4-0.8)
4	58 (49-64)	44 (36-50)	31 (24-36)	21 (16-25)	14 (10-16)	8.8 (6.5-11)	5.7 (4.2-7.0)	3.7 (2.7-4.5)	2.3 (1.7-2.9)	1.5 (1.1-1.8)	0.9 (0.7-1.2)
5	70 (63-73)	58 (50-61)	44 (36-48)	31 (25-34)	21 (17-24)	14 (11-16)	9.1 (7.0-10)	5.9 (4.6-6.8)	3.8 (2.9-4.4)	2.4 (1.9-2.8)	1.5 (1.2-1.8)
6	78	70	58	44	31	21	14	9.4	6.1	4.0	2.5

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

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	13	8.4	5.5	3.5	2.3	1.5	1.0	0.7	0.4	0.3	0.2
1	22 (17-42)	15 (12-31)	10 (7.7-21)	6.8 (5.0-14)	4.4 (3.2-9.5)	3.0 (2.1-6.4)	2.0 (1.4-4.3)	1.3 (0.9-2.9)	0.9 (0.6-1.9)	0.6 (0.4-1.3)	0.4 (0.3-0.8)
2	35 (24-55)	25 (16-43)	18 (11-32)	12 (7.0-22)	8.1 (4.6-15)	5.5 (3.0-11)	3.7 (2.0-7.2)	2.5 (1.3-4.9)	1.7 (0.9-3.3)	1.1 (0.6-2.2)	0.7 (0.4-1.5)
3	49 (32-65)	38 (23-55)	28 (16-43)	20 (10-31)	14 (6.9-22)	9.6 (4.6-15)	6.6 (3.1-11)	4.4 (2.0-7.3)	3.0 (1.4-4.9)	2.0 (0.9-3.3)	1.3 (0.6-2.2)
4	62 (43-73)	52 (32-64)	42 (22-53)	31 (15-41)	22 (10-30)	16 (7.0-22)	11 (4.7-16)	7.6 (3.2-11)	5.2 (2.1-7.4)	3.5 (1.4-5.0)	2.3 (0.9-3.4)
5	73 (54-79)	65 (43-72)	56 (32-62)	45 (23-50)	34 (16-39)	25 (11-29)	18 (7.7-21)	13 (5.2-15)	8.8 (3.5-10)	6.0 (2.4-7.1)	4.0 (1.6-4.8)
6	81	76	69	59	48	37	28	20	14	9.9	6.7

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	12	8.0	5.5	3.7	2.6	1.8	1.3	0.9	0.6	0.4	0.3
1	20 (15-38)	14 (10-29)	10 (7.1-21)	7.0 (4.9-15)	4.9 (3.3-11)	3.4 (2.4-7.5)	2.4 (1.6-5.3)	1.7 (1.1-3.7)	1.2 (0.8-2.6)	0.8 (0.6-1.8)	0.6 (0.4-1.3)
2	31 (20-50)	23 (14-40)	17 (9.9-30)	12 (6.8-22)	8.6 (4.7-16)	6.2 (3.3-12)	4.4 (2.3-8.6)	3.1 (1.6-6.1)	2.2 (1.1-4.3)	1.5 (0.8-3.1)	1.1 (0.6-2.1)
3	43 (27-60)	34 (20-51)	26 (14-41)	20 (9.8-31)	14 (6.9-23)	10 (4.9-17)	7.6 (3.5-13)	5.4 (2.5-9.1)	3.8 (1.7-6.5)	2.7 (1.2-4.6)	1.9 (0.8-3.3)
4	55 (36-67)	47 (27-59)	38 (20-50)	30 (14-40)	22 (10-31)	17 (7.4-23)	12 (5.3-18)	9.0 (3.7-13)	6.5 (2.6-9.4)	4.6 (1.8-6.8)	3.3 (1.3-4.8)
5	67 (46-73)	59 (37-66)	51 (28-57)	42 (21-48)	33 (15-39)	26 (11-31)	19 (8.2-24)	14 (5.9-18)	11 (4.2-13)	7.6 (3.0-9.4)	5.4 (2.1-6.8)
6	76	70	63	54	45	37	29	22	17	12	8.8

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

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	9.2	6.6	4.8	3.4	2.5	1.8	1.4	1.0	0.7	0.5	0.4
1	16 (12-32)	12 (8.6-25)	8.8 (6.2-19)	6.4 (4.4-14)	4.7 (3.3-10)	3.5 (2.4-7.7)	2.6 (1.8-5.7)	1.9 (1.3-4.3)	1.4 (1.0-3.1)	1.0 (0.7-2.3)	0.8 (0.5-1.7)
2	25 (16-42)	20 (12-34)	15 (8.7-27)	11 (6.2-20)	8.3 (4.6-16)	6.3 (3.4-12)	4.7 (2.5-9.1)	3.5 (1.9-6.8)	2.6 (1.4-5.1)	1.9 (1.0-3.8)	1.4 (0.7-2.8)
3	37 (22-53)	30 (16-45)	23 (12-36)	18 (8.8-28)	14 (6.6-22)	11 (4.9-17)	8.0 (3.7-13)	6.0 (2.7-10)	4.5 (2.0-7.6)	3.3 (1.5-5.7)	2.5 (1.1-4.2)
4	49 (29-61)	41 (23-54)	34 (17-45)	27 (13-37)	21 (9.8-29)	17 (7.4-23)	13 (5.5-18)	9.9 (4.1-14)	7.5 (3.1-11)	5.6 (2.3-8.1)	4.2 (1.7-6.1)
5	61 (39-67)	54 (31-60)	46 (25-52)	38 (19-44)	32 (15-37)	25 (11-30)	20 (8.5-24)	16 (6.4-19)	12 (4.8-15)	9.1 (3.6-11)	6.9 (2.7-8.5)
6	71	66	59	51	44	36	30	24	19	14	11

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	5.9	4.5	3.4	2.6	2.0	1.6	1.2	0.9	0.7	0.6	0.4
1	11 (7.7-22)	8.2 (5.8-17)	6.3 (4.4-14)	4.8 (3.4-10)	3.8 (2.6-8.3)	3.0 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)	1.4 (1.0-3.1)	1.1 (0.7-2.4)	0.8 (0.6-1.9)
2	18 (10-31)	14 (8.0-25)	11 (6.1-20)	8.4 (4.7-16)	6.6 (3.7-13)	5.2 (2.9-10.0)	4.1 (2.2-7.9)	3.2 (1.7-6.2)	2.5 (1.3-4.9)	2.0 (1.0-3.8)	1.5 (0.8-3.0)
3	27 (14-40)	22 (11-34)	17 (8.5-27)	14 (6.6-22)	11 (5.2-18)	8.8 (4.1-15)	7.0 (3.2-12)	5.5 (2.5-9.3)	4.3 (2.0-7.3)	3.4 (1.5-5.8)	2.6 (1.2-4.5)
4	38 (20-49)	32 (16-42)	26 (12-35)	21 (9.7-29)	17 (7.7-24)	14 (6.1-20)	11 (4.8-16)	9.0 (3.8-13)	7.2 (3.0-10)	5.7 (2.3-8.1)	4.4 (1.8-6.4)
5	50 (28-56)	43 (22-49)	37 (18-42)	31 (14-36)	26 (11-30)	21 (9.1-25)	18 (7.3-21)	14 (5.8-17)	11 (4.6-14)	9.1 (3.6-11)	7.2 (2.8-8.9)
6	62	56	49	43	37	31	26	22	18	14	11