Sri Lanka - The probabilities of a hip fracture in men

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 Sri Lanka. 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	8.1	4.3	2.3	1.2	0.6	0.3	0.2	0.1	0.1	0.0	0.0
1	13 (8.5-16)	6.8 (4.5-9.0)	3.6 (2.4-4.8)	1.9 (1.3-2.6)	1.0 (0.7-1.4)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	19 (12-27)	11 (6.4-16)	5.7 (3.4-8.6)	3.1 (1.8-4.6)	1.6 (1.0-2.5)	0.9 (0.5-1.3)	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)
3	28 (17-40)	16 (9.6-24)	8.8 (5.2-14)	4.8 (2.7-7.5)	2.5 (1.4-4.0)	1.3 (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)
4	39 (27-53)	23 (15-34)	13 (8.5-20)	7.3 (4.5-11)	3.9 (2.4-6.1)	2.1 (1.3-3.3)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
5	52 (42-64)	33 (26-44)	20 (15-27)	11 (8.0-16)	6.0 (4.3-8.5)	3.2 (2.3-4.6)	1.7 (1.2-2.5)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
6	65	45	28	16	9.0	4.8	2.6	1.4	0.7	0.4	0.2

FRAX®
WHO Fracture Risk Assessment Tool

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

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	10	5.6	3.1	1.7	0.9	0.5	0.3	0.2	0.1	0.1	0.0
1	15 (11-19)	8.6 (5.9-11)	4.8 (3.3-6.1)	2.7 (1.8-3.4)	1.5 (1.0-1.9)	0.8 (0.5-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	22 (15-30)	13 (8.3-18)	7.4 (4.6-11)	4.1 (2.6-5.9)	2.3 (1.4-3.3)	1.3 (0.8-1.8)	0.7 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	31 (21-42)	19 (12-27)	11 (7.0-16)	6.3 (3.9-9.4)	3.5 (2.1-5.3)	1.9 (1.2-2.9)	1.1 (0.6-1.6)	0.6 (0.4-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	42 (32-55)	27 (19-38)	16 (11-23)	9.4 (6.3-14)	5.3 (3.5-7.9)	2.9 (1.9-4.5)	1.6 (1.1-2.5)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
5	54 (47-65)	37 (30-48)	23 (19-31)	14 (11-19)	7.9 (6.1-11)	4.4 (3.4-6.3)	2.5 (1.9-3.5)	1.3 (1.0-1.9)	0.8 (0.6-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
6	66	49	32	20	12	6.6	3.7	2.0	1.2	0.7	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	12	7.1	4.2	2.5	1.4	0.8	0.5	0.3	0.2	0.1	0.1
1	17 (12-20)	10 (7.4-12)	6.3 (4.4-7.5)	3.7 (2.6-4.4)	2.2 (1.5-2.6)	1.3 (0.9-1.5)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	24 (17-31)	15 (10-20)	9.2 (6.2-12)	5.5 (3.7-7.5)	3.3 (2.1-4.5)	1.9 (1.3-2.6)	1.1 (0.7-1.6)	0.7 (0.4-0.9)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
3	32 (24-42)	21 (15-28)	13 (9.2-18)	8.2 (5.5-11)	4.9 (3.3-6.8)	2.9 (1.9-4.1)	1.7 (1.1-2.4)	1.0 (0.7-1.4)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
4	42 (34-52)	29 (22-38)	19 (14-26)	12 (8.5-16)	7.2 (5.1-10)	4.3 (3.0-6.1)	2.5 (1.8-3.7)	1.5 (1.0-2.2)	0.9 (0.6-1.3)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
5	52 (47-61)	38 (33-47)	26 (22-34)	17 (14-22)	10 (8.5-14)	6.2 (5.1-8.6)	3.7 (3.0-5.1)	2.2 (1.8-3.1)	1.3 (1.1-1.9)	0.8 (0.7-1.1)	0.5 (0.4-0.7)
6	62	49	35	23	15	9.0	5.4	3.2	2.0	1.2	0.7

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

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	12	7.9	5.0	3.1	1.9	1.2	0.7	0.5	0.3	0.2	0.1
1	17 (13-19)	11 (8.2-13)	7.2 (5.2-8.2)	4.6 (3.3-5.2)	2.9 (2.0-3.2)	1.8 (1.3-2.0)	1.1 (0.8-1.3)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	24 (18-29)	16 (11-20)	10 (7.3-13)	6.6 (4.6-8.4)	4.2 (2.9-5.4)	2.6 (1.8-3.4)	1.6 (1.1-2.1)	1.0 (0.7-1.3)	0.7 (0.4-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
3	31 (24-39)	22 (16-28)	14 (11-19)	9.4 (6.9-12)	6.0 (4.4-8.0)	3.8 (2.7-5.1)	2.4 (1.7-3.2)	1.5 (1.1-2.0)	1.0 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
4	40 (34-48)	29 (24-36)	20 (16-26)	13 (10-17)	8.6 (6.6-12)	5.5 (4.2-7.5)	3.4 (2.6-4.8)	2.2 (1.6-3.0)	1.4 (1.1-2.0)	0.9 (0.7-1.3)	0.6 (0.4-0.8)
5	49 (44-56)	37 (33-44)	26 (23-33)	18 (16-23)	12 (10-16)	7.8 (6.7-10)	4.9 (4.3-6.7)	3.1 (2.7-4.3)	2.0 (1.8-2.8)	1.3 (1.1-1.8)	0.8 (0.7-1.2)
6	57	46	34	24	16	11	7.0	4.5	2.9	1.9	1.2

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	11	7.2	4.8	3.2	2.1	1.4	0.9	0.6	0.4	0.3	0.2
1	16 (15-21)	11 (10-15)	7.6 (6.7-9.9)	5.1 (4.5-6.7)	3.4 (3.0-4.5)	2.3 (2.0-3.0)	1.5 (1.3-2.0)	1.0 (0.9-1.3)	0.7 (0.6-0.9)	0.5 (0.4-0.6)	0.3 (0.3-0.4)
2	24 (20-29)	17 (14-21)	12 (9.5-15)	8.0 (6.5-10)	5.4 (4.4-7.1)	3.6 (2.9-4.8)	2.4 (1.9-3.2)	1.6 (1.3-2.2)	1.1 (0.9-1.5)	0.7 (0.6-1.0)	0.5 (0.4-0.7)
3	33 (27-40)	25 (20-30)	18 (14-22)	12 (9.6-15)	8.4 (6.5-11)	5.7 (4.4-7.2)	3.8 (2.9-4.9)	2.6 (2.0-3.3)	1.8 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.1)
4	44 (36-50)	34 (28-40)	26 (20-30)	18 (14-22)	13 (9.9-16)	8.8 (6.7-11)	6.0 (4.5-7.3)	4.1 (3.1-5.0)	2.8 (2.1-3.4)	1.9 (1.4-2.4)	1.3 (1.0-1.6)
5	55 (47-59)	45 (37-49)	35 (28-39)	26 (21-29)	19 (15-21)	13 (10-15)	9.2 (6.9-10)	6.4 (4.8-7.1)	4.4 (3.3-4.9)	3.1 (2.3-3.4)	2.1 (1.6-2.4)
6	65	56	46	36	27	20	14	9.8	6.9	4.8	3.3

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

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	8.4	6.0	4.3	3.0	2.1	1.5	1.0	0.7	0.5	0.4	0.3
1	15 (11-29)	11 (8.1-22)	7.9 (5.8-17)	5.6 (4.1-12)	4.0 (2.9-8.8)	2.8 (2.1-6.2)	2.0 (1.5-4.4)	1.4 (1.1-3.2)	1.0 (0.8-2.3)	0.7 (0.5-1.7)	0.5 (0.4-1.2)
2	23 (15-39)	18 (11-31)	13 (8.0-24)	9.7 (5.8-18)	7.1 (4.1-13)	5.1 (2.9-9.4)	3.6 (2.1-6.7)	2.6 (1.5-4.9)	1.9 (1.1-3.6)	1.4 (0.8-2.6)	1.0 (0.6-1.9)
3	34 (20-48)	27 (15-40)	21 (11-32)	16 (8.1-25)	12 (5.8-19)	8.5 (4.1-14)	6.1 (2.9-10)	4.5 (2.1-7.4)	3.3 (1.5-5.4)	2.4 (1.1-4.0)	1.7 (0.8-2.9)
4	45 (27-56)	38 (21-48)	31 (16-40)	24 (12-32)	18 (8.4-25)	14 (6.1-19)	10 (4.3-14)	7.4 (3.2-10)	5.5 (2.3-7.6)	4.0 (1.7-5.6)	2.9 (1.2-4.1)
5	57 (36-64)	50 (28-57)	42 (22-48)	34 (17-40)	27 (12-32)	21 (9.0-25)	16 (6.5-19)	12 (4.8-14)	8.9 (3.5-11)	6.6 (2.6-7.8)	4.9 (1.9-5.7)
6	68	62	54	46	38	30	23	18	14	10	7.8

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	6.7	5.0	3.7	2.8	2.1	1.5	1.1	0.9	0.7	0.5	0.4
1	12 (8.6-24)	8.9 (6.5-19)	6.8 (4.9-15)	5.1 (3.6-11)	3.8 (2.7-8.5)	2.9 (2.0-6.4)	2.1 (1.5-4.8)	1.6 (1.1-3.7)	1.3 (0.9-2.8)	1.0 (0.7-2.2)	0.7 (0.5-1.6)
2	18 (11-32)	15 (8.4-26)	11 (6.4-21)	8.7 (4.8-16)	6.6 (3.6-12)	5.0 (2.7-9.5)	3.8 (2.0-7.2)	2.9 (1.6-5.6)	2.2 (1.2-4.3)	1.7 (0.9-3.3)	1.3 (0.7-2.5)
3	27 (15-41)	22 (12-34)	18 (8.9-28)	14 (6.7-22)	11 (5.1-17)	8.2 (3.8-14)	6.3 (2.9-10)	4.9 (2.2-8.2)	3.8 (1.7-6.4)	2.9 (1.3-4.9)	2.2 (1.0-3.8)
4	38 (20-49)	31 (16-42)	26 (12-35)	21 (9.4-29)	16 (7.2-23)	13 (5.4-18)	10 (4.1-14)	7.8 (3.2-11)	6.1 (2.5-8.8)	4.7 (1.9-6.9)	3.7 (1.5-5.3)
5	49 (28-55)	42 (22-48)	36 (18-41)	30 (14-35)	24 (11-28)	19 (8.1-23)	15 (6.2-18)	12 (4.8-14)	9.6 (3.7-11)	7.5 (2.9-8.9)	5.8 (2.2-7.0)
6	60	54	47	40	34	28	22	18	14	11	9.0

FRAX® WHO Fracture Risk Assessment Tool

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

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	4.9	3.9	3.0	2.4	1.8	1.4	1.1	0.9	0.7	0.6	0.5
1	8.8 (6.4-19)	7.0 (5.0-15)	5.5 (4.0-12)	4.4 (3.1-9.6)	3.4 (2.4-7.6)	2.7 (1.9-6.0)	2.1 (1.5-4.8)	1.7 (1.2-3.8)	1.4 (0.9-3.1)	1.1 (0.8-2.5)	0.9 (0.6-2.0)
2	14 (8.3-26)	12 (6.6-21)	9.4 (5.2-17)	7.5 (4.1-14)	5.9 (3.2-11)	4.7 (2.5-8.9)	3.7 (2.0-7.1)	3.0 (1.6-5.7)	2.4 (1.3-4.6)	1.9 (1.0-3.7)	1.5 (0.8-3.0)
3	22 (11-34)	18 (9.1-28)	15 (7.3-24)	12 (5.7-19)	9.6 (4.5-16)	7.7 (3.5-13)	6.2 (2.8-10)	5.0 (2.3-8.4)	4.1 (1.8-6.8)	3.3 (1.5-5.5)	2.6 (1.2-4.5)
4	31 (16-42)	27 (13-36)	22 (10-31)	18 (8.1-26)	15 (6.5-21)	12 (5.1-17)	9.8 (4.1-14)	8.1 (3.3-12)	6.6 (2.7-9.5)	5.3 (2.1-7.7)	4.3 (1.7-6.3)
5	42 (22-48)	37 (18-42)	32 (15-37)	27 (12-31)	22 (9.5-26)	18 (7.6-22)	15 (6.1-18)	12 (4.9-15)	10 (4.0-12)	8.4 (3.2-10)	6.9 (2.6-8.2)
6	53	48	42	37	31	26	22	19	16	13	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	3.0	2.4	2.0	1.6	1.3	1.1	0.9	0.7	0.6	0.5	0.4
1	5.4 (3.9-12)	4.5 (3.2-9.8)	3.7 (2.6-8.1)	3.0 (2.1-6.7)	2.5 (1.7-5.5)	2.0 (1.4-4.5)	1.7 (1.2-3.8)	1.4 (1.0-3.2)	1.2 (0.8-2.7)	1.0 (0.7-2.2)	0.8 (0.6-1.9)
2	9.2 (5.1-17)	7.6 (4.2-14)	6.3 (3.4-12)	5.2 (2.8-9.9)	4.3 (2.3-8.2)	3.5 (1.9-6.7)	2.9 (1.6-5.7)	2.5 (1.3-4.8)	2.1 (1.1-4.0)	1.8 (0.9-3.4)	1.5 (0.8-2.8)
3	15 (7.1-23)	12 (5.8-20)	10 (4.8-17)	8.5 (3.9-14)	7.1 (3.2-12)	5.8 (2.6-9.8)	4.9 (2.2-8.3)	4.2 (1.9-7.0)	3.5 (1.6-5.9)	3.0 (1.3-5.0)	2.5 (1.1-4.2)
4	22 (10-30)	19 (8.3-26)	16 (6.9-22)	13 (5.7-19)	11 (4.7-16)	9.3 (3.9-13)	7.9 (3.2-11)	6.7 (2.7-9.7)	5.7 (2.3-8.3)	4.8 (1.9-7.0)	4.1 (1.6-5.9)
5	31 (15-36)	27 (12-32)	23 (10-27)	20 (8.4-24)	17 (7.0-20)	14 (5.8-17)	12 (4.9-15)	10 (4.1-12)	9.0 (3.5-11)	7.6 (2.9-9.1)	6.5 (2.5-7.8)
6	42	37	33	29	25	21	18	16	14	12	10