Indonesia - The probabilities of a major osteoporotic fracture in men

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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 Indonesia. 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	13	8.0	5.2	3.7	2.7	2.2	1.8	1.6	1.4	1.3	1.3
1	19 (16-25)	12 (11-16)	8.0 (6.9-10)	5.6 (4.5-7.1)	4.2 (3.1-5.3)	3.3 (2.3-4.2)	2.7 (1.8-3.6)	2.3 (1.5-3.2)	2.1 (1.3-2.9)	2.0 (1.3-2.8)	1.9 (1.2-2.7)
2	28 (21-39)	18 (14-25)	12 (9.4-17)	8.4 (6.1-12)	6.2 (4.1-9.2)	4.9 (3.0-7.7)	4.0 (2.3-6.7)	3.4 (1.9-5.9)	3.1 (1.6-5.4)	2.9 (1.5-5.2)	2.8 (1.4-5.0)
3	39 (28-50)	26 (19-34)	18 (13-24)	12 (8.3-18)	9.1 (5.6-15)	7.1 (4.0-12)	5.8 (3.0-10)	5.0 (2.4-9.2)	4.5 (2.1-8.4)	4.2 (2.0-8.1)	4.1 (1.8-7.9)
4	52 (38-63)	36 (25-45)	25 (17-30)	18 (12-23)	13 (8.6-19)	10 (6.5-16)	8.3 (4.9-13)	7.1 (3.9-12)	6.3 (3.4-11)	6.0 (3.1-10)	5.8 (2.9-10)
5	65 (54-73)	48 (38-55)	34 (26-39)	25 (19-29)	18 (14-23)	14 (11-19)	12 (8.7-16)	9.9 (7.4-14)	8.8 (6.3-13)	8.4 (5.8-12)	8.0 (5.4-12)
6	76	61	45	33	25	19	16	13	12	11	11

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

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	13	8.3	5.6	4.0	3.0	2.4	2.0	1.7	1.5	1.4	1.4
1	19 (16-23)	12 (11-15)	8.4 (7.2-10)	6.0 (4.8-7.4)	4.5 (3.4-5.6)	3.6 (2.6-4.5)	2.9 (2.0-3.9)	2.5 (1.6-3.4)	2.3 (1.5-3.1)	2.1 (1.3-3.0)	2.0 (1.3-2.8)
2	27 (21-35)	18 (14-24)	12 (9.8-17)	8.9 (6.5-12)	6.7 (4.5-9.8)	5.2 (3.3-8.2)	4.3 (2.5-7.0)	3.6 (2.0-6.1)	3.3 (1.8-5.6)	3.1 (1.6-5.4)	2.9 (1.5-5.1)
3	37 (28-46)	25 (19-32)	18 (13-24)	13 (8.9-19)	9.6 (6.1-15)	7.5 (4.4-13)	6.2 (3.3-11)	5.2 (2.6-9.4)	4.7 (2.3-8.7)	4.4 (2.1-8.3)	4.2 (1.9-7.9)
4	48 (37-56)	35 (25-41)	25 (17-30)	18 (12-24)	14 (9.3-19)	11 (7.0-16)	8.7 (5.3-14)	7.3 (4.2-12)	6.6 (3.6-11)	6.2 (3.3-11)	5.9 (3.0-10)
5	59 (51-66)	45 (37-51)	33 (27-38)	25 (19-29)	19 (14-24)	15 (11-19)	12 (9.2-16)	10 (7.5-14)	9.1 (6.5-13)	8.5 (5.9-12)	8.1 (5.5-12)
6	70	56	43	33	25	20	16	14	12	12	11

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	8.1	5.7	4.2	3.2	2.6	2.1	1.8	1.6	1.5	1.4
1	17 (16-20)	12 (10-14)	8.4 (7.0-10)	6.2 (4.9-7.4)	4.7 (3.6-5.7)	3.7 (2.7-4.7)	3.1 (2.1-4.0)	2.6 (1.7-3.5)	2.3 (1.5-3.3)	2.2 (1.4-3.1)	2.0 (1.3-2.9)
2	24 (19-30)	17 (13-22)	12 (9.5-16)	8.9 (6.6-12)	6.8 (4.7-9.8)	5.4 (3.5-8.2)	4.4 (2.7-7.0)	3.7 (2.1-6.1)	3.4 (1.9-5.7)	3.1 (1.7-5.3)	2.9 (1.5-5.0)
3	32 (25-39)	23 (18-29)	17 (13-23)	13 (9.0-18)	9.6 (6.4-15)	7.6 (4.7-12)	6.2 (3.5-11)	5.2 (2.8-9.2)	4.8 (2.4-8.6)	4.4 (2.2-8.1)	4.1 (2.0-7.7)
4	41 (33-49)	31 (24-36)	23 (17-29)	17 (13-23)	13 (9.6-19)	11 (7.2-16)	8.7 (5.5-14)	7.2 (4.3-12)	6.6 (3.7-11)	6.1 (3.3-10)	5.7 (3.0-9.8)
5	51 (45-56)	40 (34-45)	30 (25-35)	23 (19-28)	18 (14-23)	14 (11-19)	12 (9.3-16)	9.9 (7.5-14)	9.0 (6.5-13)	8.3 (5.8-12)	7.8 (5.3-11)
6	61	49	39	30	24	19	16	13	12	11	10

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

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	10	7.3	5.3	4.0	3.1	2.4	1.9	1.6	1.5	1.3	1.2
1	14 (13-16)	10 (9.0-12)	7.6 (6.4-8.8)	5.7 (4.6-6.6)	4.4 (3.4-5.2)	3.5 (2.5-4.3)	2.8 (2.0-3.7)	2.4 (1.6-3.2)	2.1 (1.4-2.9)	1.9 (1.2-2.7)	1.8 (1.1-2.5)
2	20 (16-24)	14 (12-18)	11 (8.6-13)	8.1 (6.2-11)	6.2 (4.5-8.7)	4.9 (3.3-7.3)	4.0 (2.5-6.1)	3.4 (2.0-5.4)	3.0 (1.7-4.9)	2.7 (1.5-4.6)	2.5 (1.4-4.3)
3	26 (21-32)	20 (16-24)	15 (12-19)	11 (8.5-16)	8.7 (6.1-13)	6.9 (4.5-11)	5.6 (3.4-9.1)	4.7 (2.7-8.0)	4.2 (2.3-7.4)	3.8 (2.0-6.9)	3.5 (1.8-6.4)
4	34 (28-40)	26 (21-31)	20 (15-25)	15 (12-20)	12 (8.9-17)	9.4 (6.8-14)	7.7 (5.1-12)	6.5 (4.1-10)	5.8 (3.4-9.4)	5.3 (3.0-8.8)	4.9 (2.7-8.2)
5	42 (37-47)	33 (29-38)	26 (22-31)	20 (17-25)	16 (13-20)	13 (10-17)	10 (8.3-14)	8.7 (6.8-12)	7.8 (5.8-11)	7.1 (5.0-10)	6.5 (4.5-9.7)
6	51	41	33	26	21	17	14	11	10	9.4	8.6

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	8.4	6.2	4.6	3.5	2.7	2.1	1.7	1.4	1.3	1.1	1.0
1	12 (10-16)	9.0 (7.3-11)	6.7 (5.3-8.5)	5.1 (3.9-6.4)	3.9 (2.9-4.8)	3.0 (2.2-3.7)	2.4 (1.7-2.9)	2.0 (1.4-2.4)	1.7 (1.2-2.1)	1.5 (1.0-1.8)	1.4 (0.9-1.7)
2	18 (14-23)	13 (10-17)	9.7 (7.3-13)	7.3 (5.4-9.9)	5.5 (4.0-7.6)	4.3 (3.0-5.9)	3.3 (2.3-4.7)	2.8 (1.8-3.9)	2.4 (1.5-3.4)	2.1 (1.3-3.0)	1.9 (1.1-2.7)
3	24 (19-31)	19 (14-24)	14 (10-19)	10 (7.4-14)	7.9 (5.5-11)	6.0 (4.1-8.7)	4.7 (3.1-6.9)	3.8 (2.5-5.7)	3.3 (2.0-5.0)	2.8 (1.7-4.4)	2.5 (1.5-3.9)
4	33 (26-39)	26 (19-31)	19 (14-25)	15 (11-19)	11 (7.9-15)	8.5 (5.9-11)	6.6 (4.5-9.1)	5.3 (3.6-7.6)	4.5 (3.0-6.5)	3.8 (2.5-5.7)	3.4 (2.2-5.1)
5	42 (35-48)	34 (27-39)	27 (21-31)	20 (16-25)	16 (12-19)	12 (9.2-15)	9.1 (7.1-12)	7.3 (5.7-9.6)	6.1 (4.7-8.2)	5.2 (4.1-7.1)	4.5 (3.5-6.3)
6	52	43	35	28	21	16	13	10	8.2	6.9	5.9

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

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	6.8	5.2	4.0	3.1	2.4	1.9	1.5	1.3	1.1	1.0	0.9
1	11 (7.9-20)	8.4 (6.0-15)	6.4 (4.5-11)	4.9 (3.4-8.6)	3.8 (2.6-6.4)	2.9 (2.0-4.8)	2.3 (1.6-3.6)	1.9 (1.3-2.8)	1.6 (1.1-2.3)	1.4 (0.9-1.8)	1.2 (0.8-1.5)
2	17 (11-28)	13 (8.1-21)	10 (6.2-16)	7.7 (4.7-12)	5.8 (3.6-9.3)	4.5 (2.7-7.0)	3.5 (2.1-5.3)	2.8 (1.7-4.2)	2.3 (1.4-3.4)	2.0 (1.2-2.8)	1.7 (1.0-2.3)
3	25 (15-36)	20 (11-29)	15 (8.6-22)	12 (6.5-17)	8.9 (4.9-13)	6.8 (3.8-10)	5.2 (2.9-7.7)	4.1 (2.3-6.1)	3.4 (1.9-5.0)	2.8 (1.6-4.1)	2.3 (1.4-3.4)
4	35 (20-45)	28 (16-37)	22 (12-30)	17 (9.2-23)	13 (7.0-18)	10 (5.4-14)	7.8 (4.1-11)	6.1 (3.3-8.4)	4.9 (2.8-6.7)	4.0 (2.3-5.5)	3.3 (2.0-4.5)
5	46 (27-53)	39 (21-45)	32 (17-37)	25 (13-30)	20 (10-24)	15 (7.8-18)	11 (6.1-14)	9.0 (5.0-11)	7.2 (4.1-9.1)	5.7 (3.5-7.3)	4.6 (3.0-6.0)
6	58	50	42	35	28	22	17	13	10	8.2	6.6

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	5.4	4.3	3.4	2.7	2.2	1.8	1.5	1.3	1.1	1.0	0.9
1	8.6 (6.0-16)	6.8 (4.7-12)	5.4 (3.7-9.7)	4.3 (2.9-7.5)	3.4 (2.3-5.9)	2.7 (1.8-4.5)	2.2 (1.5-3.6)	1.9 (1.2-2.9)	1.6 (1.1-2.4)	1.4 (0.9-2.0)	1.2 (0.8-1.6)
2	13 (8.1-22)	10 (6.4-17)	8.2 (5.0-14)	6.5 (4.0-11)	5.1 (3.1-8.3)	4.1 (2.5-6.5)	3.3 (2.0-5.1)	2.7 (1.7-4.1)	2.3 (1.4-3.4)	1.9 (1.2-2.8)	1.7 (1.0-2.3)
3	19 (11-29)	15 (8.6-23)	12 (6.8-19)	9.8 (5.4-15)	7.7 (4.3-12)	6.1 (3.4-9.1)	4.8 (2.7-7.2)	4.0 (2.3-5.8)	3.3 (1.9-4.7)	2.8 (1.6-3.9)	2.3 (1.4-3.3)
4	27 (15-36)	22 (12-30)	18 (9.3-24)	14 (7.4-20)	11 (5.9-16)	9.0 (4.7-12)	7.1 (3.8-9.7)	5.8 (3.1-7.9)	4.8 (2.6-6.5)	3.9 (2.2-5.3)	3.3 (1.9-4.5)
5	37 (20-43)	31 (16-36)	25 (13-30)	21 (10-25)	16 (8.1-20)	13 (6.5-16)	10 (5.2-13)	8.4 (4.4-11)	6.9 (3.7-8.7)	5.6 (3.2-7.2)	4.6 (2.7-6.0)
6	47	41	34	28	23	19	15	12	9.9	8.1	6.6

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

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	4.6	3.8	3.1	2.6	2.1	1.8	1.5	1.3	1.2	1.1	0.9
1	7.0 (4.8-13)	5.8 (3.9-10)	4.7 (3.2-8.4)	3.9 (2.6-6.8)	3.2 (2.1-5.5)	2.6 (1.7-4.4)	2.2 (1.5-3.6)	1.9 (1.3-3.1)	1.7 (1.1-2.6)	1.5 (1.0-2.2)	1.3 (0.8-1.9)
2	11 (6.5-17)	8.7 (5.3-14)	7.1 (4.3-12)	5.8 (3.5-9.5)	4.8 (2.9-7.7)	3.9 (2.3-6.2)	3.3 (2.0-5.1)	2.8 (1.7-4.3)	2.4 (1.5-3.6)	2.1 (1.3-3.1)	1.8 (1.1-2.6)
3	15 (8.7-23)	13 (7.1-19)	11 (5.8-16)	8.7 (4.8-13)	7.1 (3.9-11)	5.8 (3.2-8.6)	4.8 (2.7-7.1)	4.1 (2.3-6.0)	3.5 (2.0-5.0)	3.0 (1.7-4.3)	2.6 (1.5-3.6)
4	22 (12-29)	18 (9.6-25)	15 (7.9-21)	13 (6.5-17)	10 (5.4-14)	8.5 (4.4-12)	7.0 (3.7-9.6)	5.9 (3.1-8.1)	5.0 (2.7-6.9)	4.3 (2.3-5.8)	3.6 (2.0-5.0)
5	30 (16-36)	26 (13-31)	22 (11-26)	18 (8.9-22)	15 (7.3-18)	12 (6.0-15)	10 (5.1-13)	8.6 (4.4-11)	7.2 (3.8-9.2)	6.1 (3.3-7.9)	5.2 (2.9-6.7)
6	40	34	30	25	21	17	14	12	10	8.7	7.3

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	4.0	3.4	2.9	2.4	2.1	1.7	1.5	1.4	1.2	1.1	1.0
1	6.0 (4.1-10)	5.1 (3.4-8.7)	4.3 (2.9-7.3)	3.6 (2.4-6.1)	3.0 (2.0-5.1)	2.6 (1.7-4.3)	2.2 (1.5-3.7)	2.0 (1.3-3.2)	1.7 (1.1-2.8)	1.5 (1.0-2.4)	1.4 (0.9-2.1)
2	8.9 (5.5-14)	7.6 (4.6-12)	6.4 (3.9-10)	5.4 (3.3-8.6)	4.5 (2.7-7.2)	3.8 (2.3-6.0)	3.3 (2.0-5.2)	2.9 (1.8-4.5)	2.5 (1.5-3.9)	2.2 (1.4-3.3)	2.0 (1.2-2.9)
3	13 (7.4-19)	11 (6.2-16)	9.4 (5.3-14)	7.9 (4.4-12)	6.7 (3.7-9.9)	5.6 (3.1-8.3)	4.9 (2.7-7.2)	4.2 (2.4-6.2)	3.7 (2.1-5.4)	3.2 (1.8-4.7)	2.8 (1.6-4.1)
4	18 (10-25)	16 (8.5-21)	14 (7.2-18)	11 (6.1-16)	9.7 (5.1-13)	8.2 (4.3-11)	7.1 (3.7-9.7)	6.2 (3.3-8.5)	5.4 (2.9-7.4)	4.7 (2.5-6.4)	4.1 (2.2-5.5)
5	25 (13-31)	22 (11-27)	19 (9.8-23)	16 (8.3-20)	14 (7.0-17)	12 (5.9-15)	10 (5.1-13)	8.9 (4.5-11)	7.8 (4.0-9.8)	6.8 (3.5-8.6)	5.9 (3.1-7.5)
6	34	30	26	23	20	17	15	13	11	9.7	8.4