

**South Africa (Coloured) - The probabilities of a major osteoporotic fracture in women**

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus fracture) according to body mass index (BMI kg/m<sup>2</sup>), 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 (Coloured). 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 <sup>2</sup>						
	15	20	25	30	35	40	45
0	1.7	1.5	1.4	1.2	1.1	0.9	0.8
1	2.7 (1.9-4.2)	2.4 (1.6-3.5)	2.2 (1.5-3.1)	1.9 (1.3-2.7)	1.7 (1.1-2.3)	1.5 (1.0-2.0)	1.3 (0.9-1.8)
2	4.5 (2.4-7.3)	3.8 (2.0-6.4)	3.5 (1.8-6.0)	3.0 (1.6-5.2)	2.6 (1.4-4.6)	2.3 (1.2-4.0)	2.0 (1.0-3.5)
3	7.2 (3.6-12)	6.0 (2.9-11)	5.4 (2.6-9.8)	4.6 (2.2-8.5)	4.0 (1.9-7.4)	3.5 (1.6-6.5)	3.0 (1.4-5.6)
4	11 (6.1-18)	9.3 (5.1-15)	8.2 (4.3-13)	7.0 (3.7-12)	6.1 (3.2-10)	5.3 (2.7-8.8)	4.6 (2.4-7.6)
5	18 (10-23)	14 (8.9-19)	12 (8.0-16)	11 (6.9-14)	9.1 (6.0-12)	7.8 (5.2-11)	6.8 (4.5-9.2)
6	27	21	18	16	13	12	10.0

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

Age = 55 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	2.6	2.3	2.2	1.9	1.6	1.4	1.2
1	4.3 (3.0-6.3)	3.7 (2.5-5.2)	3.4 (2.3-4.6)	2.9 (2.0-4.0)	2.5 (1.7-3.5)	2.2 (1.5-3.0)	1.9 (1.3-2.6)
2	6.9 (3.9-11)	5.8 (3.2-9.4)	5.2 (2.8-8.7)	4.5 (2.4-7.6)	3.9 (2.1-6.6)	3.4 (1.8-5.8)	2.9 (1.6-5.1)
3	11 (5.9-18)	9.0 (4.7-15)	8.0 (4.0-14)	6.9 (3.4-12)	6.0 (2.9-11)	5.2 (2.5-9.3)	4.5 (2.2-8.1)
4	17 (9.7-25)	14 (8.1-21)	12 (6.8-19)	10 (5.8-17)	8.9 (4.9-14)	7.7 (4.2-13)	6.7 (3.6-11)
5	25 (16-32)	21 (14-27)	18 (12-23)	15 (10-20)	13 (9.0-18)	11 (7.8-15)	9.8 (6.7-13)
6	37	30	26	22	19	17	14

Age = 60 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	3.9	3.3	3.0	2.6	2.3	2.0	1.7
1	6.2 (4.5-8.8)	5.3 (3.7-7.2)	4.7 (3.3-6.3)	4.1 (2.8-5.4)	3.5 (2.4-4.7)	3.0 (2.1-4.0)	2.6 (1.8-3.5)
2	9.9 (6.0-15)	8.2 (4.8-13)	7.2 (4.1-12)	6.2 (3.5-10)	5.4 (3.0-8.8)	4.6 (2.6-7.7)	4.0 (2.2-6.7)
3	15 (9.3-23)	13 (7.2-20)	11 (5.9-18)	9.4 (5.0-16)	8.1 (4.2-14)	7.0 (3.6-12)	6.0 (3.1-11)
4	23 (14-33)	19 (12-28)	16 (10.0-25)	14 (8.4-22)	12 (7.1-19)	10 (6.0-17)	8.9 (5.1-14)
5	34 (24-41)	28 (19-35)	24 (17-30)	20 (15-27)	18 (12-23)	15 (11-20)	13 (9.2-17)
6	47	40	34	29	25	22	19

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

Age = 65 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	5.2	4.3	3.8	3.2	2.8	2.4	2.1
1	8.3 (6.2-11)	6.8 (4.9-8.9)	5.9 (4.2-7.6)	5.0 (3.6-6.5)	4.3 (3.0-5.6)	3.7 (2.6-4.8)	3.2 (2.2-4.1)
2	13 (8.5-18)	10 (6.5-15)	9.0 (5.3-14)	7.7 (4.5-12)	6.5 (3.8-10)	5.6 (3.2-8.9)	4.8 (2.7-7.8)
3	20 (13-28)	16 (9.9-24)	13 (7.8-22)	12 (6.6-19)	9.8 (5.5-16)	8.4 (4.6-14)	7.2 (3.9-12)
4	29 (19-39)	23 (16-33)	20 (13-29)	17 (11-25)	15 (9.3-22)	12 (7.8-19)	11 (6.5-17)
5	40 (31-48)	34 (25-41)	29 (21-36)	24 (18-31)	21 (16-27)	18 (13-23)	15 (11-20)
6	54	46	40	34	30	26	22

Age = 70 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	6.7	5.5	4.8	4.0	3.4	2.9	2.5
1	11 (8.0-13)	8.5 (6.4-11)	7.2 (5.3-9.1)	6.1 (4.5-7.7)	5.1 (3.8-6.6)	4.4 (3.2-5.6)	3.7 (2.7-4.8)
2	17 (11-23)	13 (8.5-18)	11 (6.9-15)	9.1 (5.8-13)	7.6 (4.8-11)	6.4 (4.0-9.1)	5.5 (3.4-7.7)
3	25 (17-35)	20 (13-29)	16 (10-24)	14 (8.5-20)	11 (7.1-17)	9.6 (5.9-15)	8.1 (4.9-12)
4	37 (27-49)	30 (22-41)	24 (17-34)	20 (14-29)	17 (12-25)	14 (9.8-21)	12 (8.1-18)
5	51 (45-60)	43 (37-52)	35 (29-43)	30 (24-37)	25 (20-31)	21 (17-27)	18 (14-23)
6	65	58	49	42	36	30	26

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

Age = 75 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	8.6	7.1	6.2	5.2	4.4	3.7	3.2
1	14 (10-20)	11 (8.2-15)	9.3 (6.9-11)	7.8 (5.8-9.4)	6.5 (4.8-8.0)	5.5 (4.0-6.8)	4.6 (3.4-5.8)
2	22 (14-33)	18 (11-25)	14 (9.0-19)	12 (7.5-16)	9.8 (6.2-13)	8.2 (5.2-11)	6.8 (4.3-9.1)
3	34 (21-47)	27 (17-39)	22 (13-31)	18 (11-26)	15 (9.2-22)	12 (7.7-18)	10 (6.4-15)
4	47 (31-61)	40 (26-54)	32 (22-45)	27 (18-38)	23 (15-32)	19 (12-27)	15 (10-22)
5	61 (46-70)	55 (41-65)	47 (35-56)	40 (30-48)	33 (25-41)	28 (21-35)	23 (18-29)
6	72	69	63	55	48	41	34

Age = 80 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	11	8.9	7.7	6.5	5.4	4.6	3.9
1	17 (12-25)	14 (10-19)	12 (8.6-15)	9.7 (7.2-12)	8.0 (5.9-9.8)	6.7 (4.9-8.0)	5.6 (4.1-6.6)
2	25 (17-37)	21 (14-30)	17 (11-24)	14 (9.4-20)	12 (7.8-16)	9.9 (6.4-13)	8.2 (5.3-11)
3	36 (24-50)	31 (21-43)	26 (17-36)	22 (14-30)	18 (12-25)	15 (9.6-20)	12 (7.9-17)
4	49 (34-60)	44 (31-56)	37 (26-49)	31 (22-42)	26 (18-36)	22 (15-30)	18 (12-25)
5	60 (46-69)	57 (43-66)	51 (38-60)	44 (33-53)	37 (27-45)	31 (23-39)	26 (19-33)
6	71	68	65	58	51	44	37

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

Age = 85 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	13	11	9.6	7.9	6.6	5.5	4.6
1	20 (14-30)	17 (12-25)	14 (11-19)	12 (8.7-16)	9.8 (7.2-13)	8.1 (5.9-10)	6.7 (4.8-8.4)
2	29 (19-43)	25 (17-36)	22 (14-30)	18 (12-24)	15 (9.5-20)	12 (7.7-16)	9.9 (6.3-13)
3	40 (26-54)	36 (24-49)	31 (21-43)	26 (17-36)	22 (14-30)	18 (12-25)	15 (9.4-20)
4	51 (36-63)	48 (34-60)	44 (31-56)	37 (26-49)	31 (21-42)	26 (17-35)	21 (14-30)
5	62 (48-70)	60 (46-68)	56 (43-65)	50 (37-59)	43 (31-52)	36 (26-45)	30 (22-38)
6	71	70	68	62	55	48	42

Age = 90 years

Number of CRFs	BMI kg/m <sup>2</sup>						
	15	20	25	30	35	40	45
0	14	13	11	9.0	7.4	6.1	5.0
1	22 (16-34)	19 (14-29)	17 (12-24)	14 (10.0-19)	11 (8.1-15)	9.2 (6.6-12)	7.5 (5.3-10)
2	32 (21-47)	29 (19-42)	25 (17-35)	21 (13-29)	17 (11-24)	14 (8.8-19)	11 (7.1-16)
3	43 (28-57)	40 (26-54)	36 (24-48)	30 (19-41)	25 (16-34)	20 (13-29)	17 (10-24)
4	54 (38-66)	51 (36-63)	48 (34-60)	41 (29-53)	35 (24-46)	29 (19-39)	24 (16-33)
5	64 (50-71)	62 (48-70)	60 (46-68)	53 (40-62)	47 (34-56)	40 (28-49)	34 (23-42)
6	72	71	70	65	58	52	45