

**Switzerland - 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 Switzerland. 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	4.9	4.5	4.3	3.7	3.3	2.9	2.5
1	7.9 (5.5-12)	7.1 (4.8-10)	6.7 (4.5-9.1)	5.8 (3.9-8.0)	5.1 (3.4-6.9)	4.5 (3.0-6.1)	3.9 (2.6-5.3)
2	12 (6.9-20)	11 (6.0-18)	10 (5.5-17)	8.9 (4.8-15)	7.8 (4.2-13)	6.8 (3.6-12)	6.0 (3.2-10)
3	19 (10-32)	17 (8.4-29)	15 (7.5-27)	13 (6.5-24)	12 (5.6-21)	10 (4.9-19)	9.0 (4.3-17)
4	29 (17-43)	25 (14-38)	22 (12-35)	20 (11-31)	17 (9.3-28)	15 (8.1-25)	13 (7.1-22)
5	42 (28-52)	36 (24-45)	32 (22-41)	28 (20-37)	25 (17-33)	22 (15-29)	19 (13-26)
6	59	50	44	39	35	31	27

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

**Age = 55 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	7.3	6.7	6.3	5.6	4.9	4.3	3.7
1	12 (8.1-16)	10 (7.2-14)	9.7 (6.7-13)	8.5 (5.9-11)	7.5 (5.1-9.9)	6.6 (4.5-8.7)	5.8 (3.9-7.6)
2	18 (10-27)	16 (8.9-25)	15 (8.1-24)	13 (7.1-21)	11 (6.2-19)	9.9 (5.4-17)	8.7 (4.7-15)
3	27 (15-42)	23 (12-38)	21 (11-36)	19 (9.6-33)	17 (8.4-29)	15 (7.3-26)	13 (6.4-23)
4	39 (25-55)	34 (21-49)	31 (18-46)	27 (16-42)	24 (14-37)	21 (12-33)	19 (10-30)
5	54 (39-64)	47 (34-57)	42 (32-53)	38 (28-48)	34 (25-43)	30 (22-39)	27 (19-35)
6	70	62	57	51	46	41	37

**Age = 60 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	9.6	8.6	8.1	7.1	6.2	5.4	4.7
1	15 (11-20)	13 (9.4-17)	12 (8.6-16)	11 (7.5-14)	9.4 (6.5-12)	8.3 (5.7-11)	7.2 (5.0-9.4)
2	23 (14-33)	20 (12-30)	18 (10-29)	16 (9.1-26)	14 (7.9-23)	12 (6.9-20)	11 (6.0-18)
3	34 (20-50)	29 (17-46)	26 (14-43)	23 (12-39)	21 (11-35)	18 (9.4-31)	16 (8.2-28)
4	47 (32-63)	41 (27-58)	37 (23-54)	33 (20-49)	29 (18-44)	26 (15-40)	23 (13-35)
5	63 (49-73)	55 (43-66)	50 (39-61)	45 (35-56)	40 (31-51)	36 (27-46)	32 (24-41)
6	78	71	65	59	54	49	44

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

**Age = 65 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	12	10	9.5	8.3	7.2	6.3	5.5
1	19 (14-24)	16 (12-20)	14 (10-18)	13 (8.9-16)	11 (7.7-14)	9.5 (6.7-12)	8.3 (5.8-11)
2	28 (19-39)	24 (15-34)	21 (13-32)	19 (11-29)	16 (9.5-25)	14 (8.2-22)	12 (7.1-20)
3	40 (27-55)	34 (21-50)	30 (18-47)	27 (15-42)	23 (13-38)	21 (11-34)	18 (9.8-30)
4	55 (40-69)	47 (34-63)	42 (29-59)	37 (25-53)	33 (22-48)	29 (19-43)	26 (16-39)
5	70 (59-78)	62 (51-72)	56 (45-67)	50 (40-61)	45 (36-56)	40 (31-50)	36 (28-45)
6	82	76	71	65	59	53	48

**Age = 70 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	18	16	14	12	11	9.2	8.0
1	27 (21-33)	23 (18-28)	20 (15-25)	18 (13-22)	15 (11-19)	13 (9.8-17)	11 (8.5-15)
2	39 (28-50)	33 (22-43)	29 (19-39)	25 (16-34)	22 (14-30)	19 (12-26)	16 (10-23)
3	54 (40-68)	46 (32-61)	40 (27-55)	35 (23-49)	30 (20-44)	26 (17-39)	23 (14-34)
4	69 (58-80)	61 (49-75)	53 (41-68)	47 (36-62)	41 (31-56)	36 (27-50)	32 (23-44)
5	81 (76-86)	75 (69-83)	68 (60-77)	61 (53-71)	55 (47-65)	49 (41-59)	43 (36-53)
6	87	86	81	76	70	63	57

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

**Age = 75 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	28	24	22	19	17	14	13
1	41 (32-52)	35 (27-42)	31 (24-37)	27 (21-32)	23 (18-28)	20 (15-25)	17 (13-22)
2	56 (41-70)	48 (34-61)	42 (30-52)	37 (26-46)	32 (22-41)	28 (19-37)	24 (16-32)
3	69 (55-81)	63 (47-77)	56 (41-70)	50 (35-64)	44 (30-57)	38 (26-51)	33 (23-45)
4	79 (68-87)	76 (63-85)	70 (57-82)	64 (51-77)	57 (45-71)	51 (39-65)	45 (34-58)
5	86 (80-89)	85 (78-89)	82 (75-88)	77 (70-84)	72 (64-80)	65 (58-74)	59 (52-68)
6	89	89	89	86	83	78	72

**Age = 80 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	35	31	27	23	20	17	15
1	49 (39-62)	43 (34-53)	38 (30-44)	33 (25-38)	28 (22-32)	24 (19-28)	21 (16-24)
2	62 (49-75)	57 (43-69)	51 (37-62)	44 (32-55)	39 (27-48)	33 (23-41)	29 (20-35)
3	73 (61-83)	70 (57-80)	64 (50-76)	58 (44-70)	51 (38-64)	45 (32-57)	39 (28-50)
4	80 (71-86)	79 (70-86)	76 (66-85)	71 (59-81)	65 (53-76)	58 (46-70)	52 (40-64)
5	85 (80-87)	85 (79-88)	84 (78-88)	81 (73-86)	76 (68-83)	71 (62-78)	65 (56-73)
6	85	88	89	87	84	80	76

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

**Age = 85 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	36	31	27	23	20	17	14
1	49 (39-63)	44 (35-57)	38 (30-48)	33 (25-41)	28 (21-35)	24 (18-29)	20 (15-24)
2	61 (49-75)	57 (44-71)	52 (38-64)	45 (33-57)	39 (27-50)	33 (23-43)	28 (19-36)
3	71 (59-82)	69 (56-80)	65 (52-76)	58 (45-70)	52 (39-64)	45 (33-57)	39 (28-50)
4	78 (69-85)	78 (67-85)	76 (65-83)	71 (58-80)	65 (52-75)	58 (45-70)	51 (39-63)
5	81 (77-84)	83 (77-86)	83 (76-87)	79 (71-85)	75 (65-81)	70 (59-77)	64 (52-72)
6	80	85	87	85	82	79	74

**Age = 90 years**

Number of CRFs	BMI (kg/m <sup>2</sup> )						
	15	20	25	30	35	40	45
0	32	28	26	22	18	15	13
1	44 (35-59)	40 (31-54)	36 (28-47)	31 (23-40)	26 (19-34)	22 (16-28)	18 (13-23)
2	57 (45-71)	53 (40-67)	49 (36-62)	42 (30-54)	36 (25-47)	31 (21-40)	26 (17-34)
3	67 (54-78)	65 (51-77)	61 (47-74)	55 (41-68)	48 (35-61)	42 (29-54)	36 (24-47)
4	74 (64-81)	74 (62-82)	72 (60-80)	67 (54-76)	60 (47-71)	54 (40-65)	47 (34-59)
5	76 (73-80)	79 (72-82)	79 (71-84)	76 (66-81)	71 (60-78)	65 (53-73)	59 (47-68)
6	73	80	83	81	79	75	70