

**Italy - 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 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 Italy. 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/m<sup>2</sup>.

**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	16	10	6.9	5.1	4.0	3.3	2.8	2.5	2.4	2.3	2.2	
1	24 (21-30)	16 (14-20)	11 (8.9-13)	7.7 (6.1-9.7)	6.0 (4.4-7.5)	4.9 (3.4-6.4)	4.2 (2.8-5.6)	3.8 (2.5-5.2)	3.6 (2.3-4.9)	3.4 (2.2-4.8)	3.3 (2.1-4.6)	
2	35 (27-47)	23 (18-32)	16 (12-22)	12 (8.0-17)	9.0 (5.6-14)	7.3 (4.3-12)	6.2 (3.4-10)	5.6 (3.0-9.5)	5.3 (2.8-9.1)	5.0 (2.6-8.7)	4.8 (2.5-8.4)	
3	48 (36-63)	33 (24-43)	23 (16-33)	17 (11-26)	13 (7.5-22)	11 (5.6-19)	9.0 (4.5-16)	8.1 (3.9-15)	7.7 (3.6-14)	7.3 (3.4-14)	7.0 (3.2-13)	
4	64 (47-76)	46 (32-56)	33 (22-41)	24 (16-33)	19 (12-28)	15 (9.4-24)	13 (7.4-21)	12 (6.4-19)	11 (5.8-18)	10 (5.5-18)	10 (5.2-17)	
5	78 (68-86)	60 (50-68)	45 (36-50)	34 (26-40)	26 (20-33)	21 (16-28)	18 (14-24)	16 (12-22)	15 (11-21)	14 (10-20)	14 (9.5-20)	
6	90	75	59	45	35	29	24	22	21	20	19	

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

**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	17	11	7.9	5.9	4.6	3.8	3.2	2.9	2.7	2.5	2.4
1	25 (22-29)	17 (15-20)	12 (10-14)	8.8 (7.0-11)	6.9 (5.1-8.6)	5.6 (4.0-7.3)	4.7 (3.2-6.3)	4.3 (2.9-5.9)	4.0 (2.7-5.6)	3.8 (2.5-5.3)	3.6 (2.3-5.1)
2	35 (29-46)	24 (20-33)	18 (13-24)	13 (9.2-18)	10 (6.6-15)	8.3 (5.0-13)	6.9 (4.0-11)	6.4 (3.5-11)	5.9 (3.2-10)	5.6 (2.9-9.5)	5.3 (2.7-9.0)
3	48 (38-61)	35 (27-45)	25 (18-35)	19 (12-29)	15 (8.7-24)	12 (6.6-21)	10 (5.2-18)	9.2 (4.5-17)	8.5 (4.1-16)	8.0 (3.8-15)	7.6 (3.5-14)
4	63 (48-74)	47 (34-55)	35 (25-44)	27 (18-36)	21 (14-30)	17 (11-26)	14 (8.6-23)	13 (7.4-21)	12 (6.7-20)	11 (6.2-19)	11 (5.8-18)
5	77 (69-84)	61 (53-67)	47 (39-53)	36 (30-43)	29 (23-36)	23 (19-30)	20 (15-26)	18 (13-25)	17 (12-23)	16 (11-22)	15 (10-21)
6	89	75	61	48	39	32	27	24	23	21	20

**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	19	13	9.5	7.2	5.6	4.5	3.8	3.5	3.2	3.0	2.8
1	28 (25-31)	19 (17-22)	14 (12-16)	11 (8.5-13)	8.3 (6.3-10)	6.7 (4.8-8.7)	5.7 (4.0-7.6)	5.1 (3.5-7.1)	4.7 (3.1-6.6)	4.4 (2.9-6.1)	4.1 (2.7-5.8)
2	39 (33-49)	28 (23-36)	20 (16-27)	15 (11-21)	12 (8.0-18)	9.7 (6.1-15)	8.3 (4.9-13)	7.5 (4.2-12)	6.9 (3.8-11)	6.4 (3.4-11)	6.0 (3.2-10)
3	52 (42-62)	39 (31-49)	29 (21-40)	22 (15-33)	17 (11-27)	14 (8.0-23)	12 (6.4-21)	11 (5.5-19)	9.8 (4.9-18)	9.1 (4.4-17)	8.5 (4.1-16)
4	66 (53-75)	51 (39-59)	39 (29-49)	30 (22-41)	24 (17-34)	19 (13-29)	17 (11-26)	15 (9.0-24)	14 (8.0-22)	13 (7.2-21)	12 (6.6-20)
5	79 (73-85)	65 (58-69)	52 (45-58)	41 (35-48)	33 (27-40)	27 (22-34)	23 (18-30)	21 (15-28)	19 (14-26)	18 (12-24)	16 (11-23)
6	89	78	65	53	43	36	31	28	26	24	22

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

**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	22	16	11	8.6	6.6	5.3	4.6	4.1	3.7	3.4	3.1
1	31 (29-35)	22 (20-25)	17 (14-19)	13 (10-15)	9.8 (7.5-12)	7.8 (5.7-10)	6.7 (4.8-9.0)	6.0 (4.1-8.2)	5.4 (3.7-7.5)	4.9 (3.3-6.9)	4.5 (3.0-6.4)
2	42 (37-51)	32 (27-39)	24 (19-30)	18 (13-24)	14 (9.7-20)	11 (7.2-16)	9.7 (5.9-15)	8.7 (5.0-14)	7.8 (4.4-12)	7.1 (3.9-12)	6.5 (3.5-11)
3	56 (47-64)	43 (35-53)	33 (25-44)	25 (18-36)	20 (13-30)	16 (9.6-26)	14 (7.8-23)	12 (6.6-21)	11 (5.7-20)	10 (5.1-18)	9.3 (4.6-17)
4	69 (58-75)	55 (44-63)	44 (34-53)	34 (26-45)	27 (20-38)	22 (16-32)	19 (13-29)	17 (11-27)	15 (9.3-25)	14 (8.2-23)	13 (7.4-21)
5	81 (76-84)	68 (62-73)	56 (50-62)	45 (40-52)	36 (31-44)	30 (25-37)	26 (21-34)	23 (18-31)	21 (15-28)	19 (14-26)	18 (12-24)
6	89	80	69	57	47	39	34	31	28	26	24

**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	26	19	14	11	8.3	6.7	5.8	5.0	4.5	4.0	3.6
1	37 (34-43)	28 (24-32)	21 (17-24)	15 (13-18)	12 (9.4-14)	9.5 (7.3-11)	8.1 (6.1-9.4)	7.0 (5.2-8.2)	6.2 (4.5-7.3)	5.5 (3.9-6.5)	5.0 (3.5-5.9)
2	51 (43-62)	39 (32-49)	29 (23-38)	22 (17-29)	17 (12-22)	13 (9.4-18)	11 (7.6-15)	9.7 (6.4-13)	8.5 (5.4-12)	7.5 (4.7-10)	6.8 (4.2-9.4)
3	66 (55-76)	52 (41-64)	41 (30-52)	31 (22-42)	24 (16-33)	19 (12-27)	16 (10-23)	13 (8.3-20)	12 (7.1-18)	10 (6.1-16)	9.1 (5.4-14)
4	79 (70-85)	67 (56-75)	54 (43-63)	42 (33-51)	33 (25-41)	26 (19-34)	21 (16-29)	18 (13-26)	16 (11-23)	14 (9.8-20)	12 (8.6-18)
5	88 (84-90)	80 (74-83)	68 (61-73)	56 (48-61)	44 (38-50)	35 (30-41)	29 (25-35)	25 (21-31)	21 (18-27)	18 (16-24)	16 (14-22)
6	92	88	81	70	58	47	39	33	28	24	21

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

**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	32	24	18	14	11	8.9	7.5	6.5	5.7	5.0	4.4
1	46 (39-65)	36 (29-52)	27 (22-40)	21 (16-29)	16 (12-22)	13 (9.8-17)	11 (8.0-13)	9.0 (6.7-10)	7.7 (5.7-8.9)	6.6 (4.9-7.9)	5.8 (4.3-7.0)
2	61 (49-79)	50 (38-69)	39 (29-57)	30 (21-44)	23 (16-34)	18 (13-26)	15 (10-21)	12 (8.4-17)	10 (7.0-14)	8.9 (6.0-12)	7.7 (5.2-11)
3	75 (60-86)	65 (48-79)	54 (37-69)	43 (28-57)	33 (21-45)	26 (17-37)	21 (13-30)	17 (11-24)	14 (9.2-20)	12 (7.8-17)	10 (6.7-14)
4	84 (72-90)	78 (61-86)	69 (49-79)	57 (38-68)	46 (30-56)	37 (24-46)	30 (20-38)	24 (16-31)	20 (14-26)	16 (12-22)	14 (10-18)
5	89 (82-91)	86 (74-89)	80 (65-85)	72 (54-77)	61 (43-67)	51 (36-56)	41 (30-47)	33 (25-39)	27 (21-32)	22 (19-27)	18 (16-23)
6	91	90	88	83	75	66	55	45	37	30	25

**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	36	28	22	17	14	11	9.5	8.1	7.0	6.0	5.2
1	49 (42-68)	40 (33-57)	32 (25-46)	25 (20-36)	20 (15-28)	16 (12-22)	13 (10-17)	11 (8.4-14)	9.5 (7.1-11)	8.1 (6.0-9.3)	7.0 (5.1-8.1)
2	62 (51-78)	53 (42-71)	44 (33-61)	35 (25-51)	28 (20-41)	23 (16-33)	19 (13-27)	16 (11-22)	13 (8.8-18)	11 (7.4-14)	9.3 (6.3-12)
3	73 (61-84)	66 (51-79)	57 (42-71)	47 (33-62)	39 (26-51)	32 (21-43)	26 (17-35)	22 (14-29)	18 (12-24)	15 (9.7-20)	13 (8.2-17)
4	81 (70-87)	76 (61-84)	69 (52-79)	61 (42-71)	52 (34-61)	43 (28-53)	36 (24-44)	30 (20-37)	25 (17-31)	20 (14-26)	17 (12-22)
5	86 (78-89)	83 (72-87)	79 (64-83)	72 (56-78)	65 (47-71)	56 (40-62)	48 (34-54)	40 (29-46)	33 (25-39)	28 (21-32)	23 (18-27)
6	89	87	85	81	76	69	61	53	44	37	31

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

**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	34	28	22	17	14	12	10	8.7	7.4	6.3	5.4
1	46 (39-64)	39 (31-55)	31 (25-45)	25 (19-36)	21 (16-30)	17 (13-24)	14 (11-20)	12 (9.0-16)	10 (7.5-13)	8.6 (6.3-10)	7.3 (5.4-8.6)
2	59 (47-74)	51 (39-67)	43 (32-59)	35 (25-50)	29 (21-42)	24 (17-35)	20 (14-29)	17 (12-24)	14 (9.6-20)	12 (8.0-16)	10 (6.7-13)
3	69 (57-80)	63 (49-75)	55 (40-69)	47 (32-60)	40 (27-52)	34 (22-45)	28 (18-38)	24 (15-32)	20 (13-27)	16 (10-22)	14 (8.8-19)
4	78 (66-84)	73 (58-81)	66 (50-76)	59 (41-69)	52 (35-62)	45 (30-54)	38 (25-47)	32 (21-40)	27 (18-34)	23 (15-29)	19 (13-24)
5	83 (74-86)	80 (68-84)	76 (61-81)	70 (53-76)	64 (47-70)	57 (41-64)	50 (35-57)	43 (30-49)	37 (26-42)	31 (22-36)	26 (19-30)
6	86	85	82	79	74	69	63	56	48	41	35

**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	27	22	18	15	12	10	8.9	7.5	6.4	5.4	4.6
1	37 (29-52)	31 (24-45)	25 (19-37)	21 (16-31)	18 (13-26)	15 (11-21)	13 (9.2-18)	11 (7.7-15)	8.9 (6.5-12)	7.5 (5.4-10)	6.4 (4.6-8.2)
2	48 (37-63)	41 (30-56)	35 (25-49)	29 (20-42)	25 (17-36)	21 (14-31)	18 (12-26)	15 (10-22)	13 (8.4-18)	11 (7.0-15)	8.9 (5.9-13)
3	59 (45-71)	52 (38-65)	45 (32-58)	39 (26-52)	34 (22-45)	29 (19-39)	25 (16-34)	21 (13-29)	18 (11-24)	15 (9.3-21)	12 (7.8-17)
4	68 (54-77)	63 (47-72)	57 (40-67)	50 (34-60)	45 (29-55)	39 (25-48)	34 (21-42)	29 (18-37)	25 (15-31)	21 (13-27)	17 (11-22)
5	76 (63-81)	72 (57-77)	67 (50-73)	62 (44-68)	56 (39-63)	51 (34-57)	45 (30-51)	39 (26-45)	34 (22-39)	29 (19-34)	24 (16-29)
6	81	79	76	72	67	62	57	51	45	39	33