

**Ireland - 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 Ireland. 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	18	11	7.7	5.5	4.2	3.4	2.9	2.6	2.4	2.3	2.2
1	27 (23-34)	17 (15-22)	12 (10-15)	8.4 (6.7-10)	6.4 (4.8-8.0)	5.1 (3.6-6.6)	4.3 (2.9-5.7)	3.9 (2.6-5.3)	3.7 (2.4-5.1)	3.5 (2.2-4.9)	3.3 (2.1-4.7)
2	39 (31-53)	26 (21-36)	18 (14-24)	13 (8.9-17)	9.5 (6.2-14)	7.6 (4.6-12)	6.4 (3.6-11)	5.7 (3.1-9.7)	5.4 (2.8-9.3)	5.1 (2.7-8.9)	4.9 (2.5-8.6)
3	54 (40-69)	37 (27-48)	26 (19-35)	18 (12-28)	14 (8.2-23)	11 (6.0-19)	9.3 (4.7-17)	8.3 (4.0-15)	7.8 (3.7-15)	7.5 (3.4-14)	7.1 (3.3-14)
4	69 (53-82)	51 (36-62)	36 (24-44)	26 (17-35)	20 (13-29)	16 (10-24)	13 (7.8-21)	12 (6.6-20)	11 (6.0-19)	11 (5.6-18)	10 (5.3-17)
5	83 (74-90)	65 (55-73)	49 (39-53)	36 (28-42)	28 (21-34)	22 (17-29)	19 (14-25)	17 (12-23)	16 (11-22)	15 (10-21)	14 (9.7-20)
6	92	80	63	48	38	30	25	23	21	20	19

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

**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	20	14	9.6	7.1	5.5	4.5	3.7	3.4	3.2	3.0	2.8
1	30 (27-36)	21 (18-25)	14 (12-17)	11 (8.6-13)	8.3 (6.2-10)	6.7 (4.8-8.6)	5.6 (3.9-7.5)	5.1 (3.4-7.0)	4.8 (3.1-6.6)	4.5 (2.9-6.2)	4.2 (2.7-5.9)
2	42 (35-54)	30 (24-39)	21 (17-28)	16 (11-22)	12 (8.0-18)	9.9 (6.0-15)	8.2 (4.7-13)	7.5 (4.1-12)	7.0 (3.7-12)	6.5 (3.5-11)	6.2 (3.2-11)
3	57 (45-69)	41 (32-52)	30 (22-41)	23 (15-34)	18 (11-28)	14 (7.9-24)	12 (6.2-21)	11 (5.4-19)	10 (4.9-18)	9.4 (4.5-17)	8.9 (4.2-17)
4	71 (57-81)	55 (41-64)	41 (30-51)	31 (22-42)	25 (17-35)	20 (13-30)	17 (10-26)	15 (8.8-24)	14 (7.9-23)	13 (7.2-22)	13 (6.8-21)
5	84 (77-89)	69 (60-75)	54 (46-60)	42 (35-49)	34 (27-41)	27 (22-35)	23 (18-30)	21 (16-28)	19 (14-27)	18 (13-25)	17 (12-24)
6	92	82	68	55	45	37	31	28	26	25	23

**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	24	17	12	9.3	7.3	5.9	5.0	4.6	4.2	3.9	3.6
1	34 (31-39)	24 (22-28)	18 (15-21)	14 (11-16)	11 (8.1-13)	8.7 (6.3-11)	7.4 (5.2-9.9)	6.7 (4.6-9.2)	6.2 (4.1-8.6)	5.7 (3.8-8.0)	5.4 (3.5-7.6)
2	47 (40-57)	34 (29-44)	26 (20-33)	20 (14-27)	15 (10-22)	13 (7.8-19)	11 (6.3-17)	9.7 (5.5-16)	9.0 (4.9-15)	8.3 (4.5-14)	7.8 (4.1-13)
3	61 (50-70)	47 (38-58)	36 (27-48)	28 (19-40)	22 (14-34)	18 (10-29)	15 (8.3-26)	14 (7.2-24)	13 (6.4-23)	12 (5.8-21)	11 (5.3-20)
4	74 (62-81)	60 (47-68)	47 (36-58)	37 (28-49)	30 (22-42)	25 (17-36)	21 (13-32)	19 (12-30)	18 (10-28)	16 (9.3-27)	15 (8.6-25)
5	85 (80-89)	73 (66-77)	60 (53-67)	49 (42-57)	40 (34-49)	33 (28-42)	29 (23-37)	26 (20-35)	24 (17-33)	22 (16-31)	21 (15-29)
6	92	84	73	62	52	43	38	34	32	30	28

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

**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	28	20	15	12	9.1	7.3	6.4	5.7	5.2	4.7	4.4
1	38 (36-43)	29 (25-32)	22 (18-24)	17 (13-20)	13 (10-16)	11 (7.8-14)	9.3 (6.6-12)	8.3 (5.7-11)	7.6 (5.1-10)	6.9 (4.6-9.7)	6.4 (4.2-9.0)
2	51 (45-60)	39 (33-48)	30 (24-38)	24 (17-31)	19 (13-26)	15 (9.7-22)	13 (8.1-20)	12 (6.9-19)	11 (6.1-17)	9.9 (5.5-16)	9.1 (5.0-15)
3	64 (55-73)	51 (43-63)	41 (31-54)	32 (23-46)	26 (17-39)	21 (13-34)	19 (11-31)	17 (9.0-28)	15 (7.9-26)	14 (7.1-25)	13 (6.4-23)
4	76 (66-82)	64 (53-73)	53 (42-64)	43 (33-55)	35 (26-48)	29 (20-41)	25 (17-38)	23 (14-35)	21 (13-33)	19 (11-31)	18 (10-29)
5	85 (82-88)	76 (71-81)	65 (59-72)	54 (48-63)	45 (40-55)	38 (32-48)	34 (27-43)	30 (23-40)	28 (20-37)	26 (18-35)	24 (17-33)
6	91	85	76	66	57	49	43	40	36	34	31

**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	32	24	18	14	11	9.1	7.9	6.9	6.2	5.5	5.0
1	45 (40-51)	34 (30-40)	26 (22-30)	20 (16-23)	16 (12-18)	13 (9.7-15)	11 (8.1-13)	9.5 (7.0-11)	8.5 (6.1-10)	7.6 (5.4-9.0)	6.8 (4.8-8.1)
2	58 (50-69)	46 (38-57)	36 (29-45)	28 (21-36)	22 (16-28)	18 (12-23)	15 (10-20)	13 (8.5-17)	12 (7.4-16)	10 (6.5-14)	9.3 (5.7-13)
3	72 (62-81)	60 (49-72)	48 (37-61)	38 (28-50)	30 (21-41)	24 (16-34)	20 (13-30)	18 (11-26)	16 (9.5-24)	14 (8.3-21)	12 (7.4-19)
4	82 (75-87)	73 (63-80)	62 (51-70)	50 (40-60)	40 (31-50)	32 (24-42)	27 (20-37)	24 (17-33)	21 (15-30)	18 (13-27)	16 (12-24)
5	88 (85-90)	83 (78-86)	74 (67-79)	63 (56-69)	52 (45-59)	43 (37-50)	36 (31-44)	31 (27-39)	27 (23-35)	24 (20-31)	21 (18-28)
6	91	88	84	75	65	55	47	40	35	31	28

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

**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	37	28	22	17	13	11	9.2	7.9	6.9	6.1	5.4
1	51 (44-71)	41 (34-59)	32 (26-46)	25 (19-35)	19 (15-26)	15 (12-20)	13 (9.7-16)	11 (8.1-13)	9.4 (6.9-11)	8.1 (6.0-9.5)	7.1 (5.2-8.5)
2	66 (54-81)	55 (43-73)	45 (33-62)	35 (25-50)	27 (19-39)	22 (15-31)	18 (12-25)	15 (10-20)	13 (8.5-17)	11 (7.3-15)	9.4 (6.3-13)
3	77 (65-86)	69 (54-81)	59 (42-73)	48 (33-63)	38 (25-51)	31 (20-42)	25 (16-35)	21 (13-29)	17 (11-24)	15 (9.5-20)	12 (8.2-17)
4	84 (75-89)	79 (65-86)	72 (55-81)	62 (44-73)	52 (35-62)	43 (28-52)	35 (23-43)	29 (20-36)	24 (17-30)	20 (14-26)	17 (13-22)
5	88 (82-90)	86 (76-89)	81 (68-86)	75 (58-80)	65 (48-72)	56 (41-62)	47 (34-53)	39 (29-45)	32 (25-37)	26 (22-32)	22 (19-27)
6	90	89	87	83	77	70	61	51	42	35	29

**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	38	30	23	18	14	12	10	8.5	7.3	6.3	5.4
1	51 (44-70)	42 (35-60)	33 (27-49)	26 (21-39)	21 (16-30)	17 (13-24)	14 (11-19)	12 (8.8-15)	10 (7.4-12)	8.5 (6.2-9.9)	7.3 (5.3-8.4)
2	64 (53-78)	55 (43-72)	46 (35-63)	37 (27-53)	30 (21-43)	24 (17-35)	20 (14-29)	17 (11-23)	14 (9.3-19)	12 (7.8-15)	9.8 (6.6-13)
3	74 (62-84)	67 (53-79)	59 (44-73)	49 (35-64)	41 (27-54)	34 (22-45)	28 (18-37)	23 (15-31)	19 (12-26)	16 (10-22)	13 (8.6-18)
4	81 (71-87)	76 (63-83)	70 (53-79)	62 (44-72)	53 (36-64)	46 (30-55)	38 (25-47)	32 (21-39)	26 (17-33)	21 (15-28)	18 (13-23)
5	85 (77-88)	83 (72-86)	79 (65-83)	73 (57-78)	66 (48-72)	58 (41-65)	50 (35-56)	42 (30-48)	35 (25-41)	29 (22-34)	24 (19-29)
6	87	86	84	81	76	70	63	55	46	39	32

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

**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	18	15	12	10	8.9	7.6	6.5	5.6
1	46 (38-64)	38 (31-55)	31 (25-46)	25 (19-37)	21 (16-30)	18 (13-25)	15 (11-20)	12 (9.1-16)	10 (7.6-13)	8.9 (6.4-11)	7.5 (5.4-9.0)
2	58 (47-73)	50 (39-66)	42 (31-58)	35 (25-50)	29 (21-42)	25 (17-35)	21 (14-29)	17 (12-24)	14 (9.7-20)	12 (8.1-17)	10 (6.8-14)
3	68 (56-79)	62 (48-74)	54 (40-68)	46 (32-60)	40 (27-52)	34 (22-45)	28 (18-38)	24 (15-32)	20 (13-27)	17 (11-23)	14 (8.9-19)
4	76 (64-83)	71 (57-80)	65 (49-75)	58 (41-68)	51 (35-62)	45 (29-54)	38 (25-47)	32 (21-40)	27 (18-34)	23 (15-29)	19 (13-25)
5	82 (72-85)	79 (66-83)	75 (59-80)	69 (52-75)	63 (45-69)	57 (39-63)	50 (34-56)	43 (29-49)	37 (25-43)	31 (22-36)	26 (19-31)
6	84	83	81	78	73	68	62	55	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	17	14	12	10	8.7	7.4	6.3	5.4	4.6
1	36 (28-51)	30 (23-43)	25 (19-36)	20 (15-29)	17 (13-25)	15 (11-21)	12 (8.9-17)	10 (7.5-14)	8.8 (6.3-12)	7.4 (5.3-9.6)	6.3 (4.5-8.0)
2	47 (35-61)	40 (29-54)	34 (24-47)	28 (20-40)	24 (17-35)	20 (14-30)	17 (12-25)	15 (9.7-21)	12 (8.1-18)	10 (6.8-15)	8.7 (5.7-12)
3	57 (44-69)	51 (37-64)	44 (31-57)	38 (25-50)	33 (22-44)	28 (18-38)	24 (15-33)	20 (13-28)	17 (11-24)	14 (9.0-20)	12 (7.6-17)
4	67 (53-75)	61 (46-71)	55 (39-65)	49 (33-59)	43 (29-53)	38 (25-47)	33 (21-41)	28 (18-35)	24 (15-30)	20 (13-26)	17 (11-22)
5	74 (62-79)	71 (56-76)	66 (49-72)	60 (43-67)	55 (38-61)	49 (33-56)	43 (29-50)	38 (25-44)	33 (21-38)	28 (18-33)	23 (16-28)
6	79	77	74	70	66	61	55	49	43	37	32