

Ireland - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip 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/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	14	7.3	3.8	2.0	1.0	0.5	0.3	0.1	0.1	0.0	0.0	
1	21 (15-27)	12 (7.7-15)	6.1 (4.0-7.9)	3.2 (2.1-4.1)	1.6 (1.1-2.1)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)	
2	32 (20-45)	18 (11-26)	9.6 (5.6-14)	5.0 (2.9-7.6)	2.6 (1.5-4.0)	1.3 (0.8-2.0)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	
3	45 (29-64)	27 (16-41)	15 (8.5-24)	7.9 (4.4-13)	4.1 (2.3-6.8)	2.1 (1.2-3.5)	1.1 (0.6-1.8)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	
4	61 (45-79)	39 (26-55)	22 (14-34)	12 (7.5-19)	6.4 (3.9-10)	3.3 (2.0-5.3)	1.7 (1.0-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.8)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	
5	76 (67-88)	53 (43-68)	33 (25-44)	18 (14-26)	9.8 (7.2-14)	5.1 (3.8-7.5)	2.6 (1.9-3.9)	1.4 (1.0-2.0)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	
6	89	70	46	27	15	7.8	4.1	2.1	1.1	0.6	0.3	

Ten year probability of hip 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	15	8.1	4.4	2.4	1.3	0.7	0.4	0.2	0.1	0.1	0.0
1	22 (15-27)	13 (8.5-15)	7.0 (4.7-8.5)	3.8 (2.5-4.7)	2.1 (1.4-2.5)	1.1 (0.7-1.4)	0.6 (0.4-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	32 (21-44)	19 (12-27)	11 (6.6-15)	6.0 (3.6-8.6)	3.2 (1.9-4.7)	1.7 (1.0-2.6)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	46 (30-63)	28 (18-42)	16 (9.8-25)	9.2 (5.4-14)	5.0 (2.9-8.0)	2.7 (1.6-4.4)	1.5 (0.9-2.4)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
4	60 (46-77)	40 (28-56)	24 (16-36)	14 (9.2-21)	7.7 (5.0-12)	4.2 (2.7-6.6)	2.3 (1.5-3.6)	1.3 (0.8-2.0)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.1-0.4)
5	75 (68-87)	54 (46-68)	35 (28-46)	21 (16-29)	12 (9.2-17)	6.5 (5.1-9.3)	3.5 (2.7-5.1)	2.0 (1.5-2.9)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.3 (0.3-0.5)
6	88	70	48	30	17	9.7	5.3	3.0	1.7	0.9	0.5

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	16	9.1	5.2	2.9	1.6	0.9	0.5	0.3	0.2	0.1	0.1
1	23 (16-27)	14 (9.5-16)	8.0 (5.4-9.4)	4.5 (3.1-5.4)	2.5 (1.7-3.0)	1.4 (1.0-1.7)	0.8 (0.5-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	34 (23-44)	21 (13-28)	12 (7.6-16)	6.9 (4.3-9.5)	3.9 (2.4-5.4)	2.2 (1.4-3.1)	1.3 (0.8-1.7)	0.7 (0.4-1.0)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
3	46 (32-62)	30 (20-42)	18 (11-26)	11 (6.5-16)	6.0 (3.7-9.1)	3.4 (2.1-5.2)	1.9 (1.2-3.0)	1.1 (0.7-1.7)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
4	61 (48-76)	41 (31-56)	26 (19-37)	16 (11-23)	9.1 (6.3-14)	5.2 (3.5-7.8)	3.0 (2.0-4.5)	1.7 (1.2-2.6)	1.0 (0.7-1.5)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
5	75 (69-85)	55 (49-68)	37 (31-48)	23 (19-31)	13 (11-19)	7.8 (6.3-11)	4.5 (3.6-6.4)	2.6 (2.1-3.7)	1.5 (1.2-2.2)	0.9 (0.7-1.3)	0.5 (0.4-0.7)
6	86	70	50	32	20	12	6.7	3.9	2.3	1.3	0.8

Ten year probability of hip 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	17	10	6.1	3.6	2.1	1.2	0.7	0.4	0.3	0.2	0.1
1	25 (18-29)	15 (11-18)	9.3 (6.5-11)	5.5 (3.8-6.6)	3.2 (2.2-3.9)	1.9 (1.3-2.3)	1.1 (0.8-1.4)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	35 (25-44)	22 (15-29)	14 (9.1-18)	8.3 (5.3-11)	4.9 (3.1-6.5)	2.9 (1.8-3.8)	1.7 (1.1-2.3)	1.0 (0.7-1.4)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	47 (35-61)	32 (22-43)	20 (13-28)	12 (8.0-18)	7.3 (4.7-11)	4.3 (2.8-6.3)	2.6 (1.7-3.8)	1.6 (1.0-2.3)	1.0 (0.6-1.4)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
4	61 (51-74)	43 (34-57)	28 (22-39)	18 (13-25)	11 (7.8-16)	6.4 (4.6-9.5)	3.9 (2.8-5.8)	2.4 (1.7-3.5)	1.4 (1.0-2.1)	0.9 (0.6-1.3)	0.5 (0.4-0.8)
5	74 (68-83)	56 (50-68)	39 (34-50)	25 (21-34)	16 (13-21)	9.5 (7.8-13)	5.8 (4.7-8.1)	3.5 (2.9-5.0)	2.1 (1.7-3.0)	1.3 (1.0-1.8)	0.8 (0.6-1.1)
6	84	70	52	35	22	14	8.5	5.2	3.2	1.9	1.2

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	20	13	8.0	4.9	3.0	1.8	1.2	0.7	0.5	0.3	0.2
1	31 (27-38)	20 (18-25)	13 (11-16)	8.1 (6.9-10)	5.0 (4.2-6.3)	3.1 (2.6-3.9)	1.9 (1.6-2.5)	1.2 (1.0-1.6)	0.8 (0.7-1.0)	0.5 (0.4-0.6)	0.3 (0.3-0.4)
2	45 (38-56)	31 (25-40)	21 (16-27)	13 (10-18)	8.2 (6.4-11)	5.1 (4.0-7.0)	3.3 (2.5-4.5)	2.1 (1.6-2.8)	1.3 (1.0-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)
3	62 (52-70)	46 (36-55)	32 (24-40)	21 (15-27)	13 (9.7-18)	8.4 (6.1-11)	5.4 (3.8-7.3)	3.4 (2.4-4.7)	2.2 (1.5-3.0)	1.4 (1.0-1.9)	0.9 (0.6-1.2)
4	76 (67-81)	62 (52-69)	46 (36-53)	32 (24-38)	21 (16-26)	14 (9.9-17)	8.8 (6.4-11)	5.7 (4.1-7.1)	3.6 (2.6-4.6)	2.3 (1.6-2.9)	1.4 (1.0-1.8)
5	85 (81-87)	76 (69-79)	62 (54-67)	46 (38-51)	32 (26-36)	21 (17-24)	14 (11-16)	9.2 (7.2-11)	5.9 (4.6-6.9)	3.8 (2.9-4.4)	2.4 (1.9-2.8)
6	90	85	76	62	46	33	22	15	9.6	6.2	3.9

Ten year probability of hip 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	24	16	11	6.9	4.4	2.9	1.9	1.3	0.8	0.6	0.4
1	39 (32-66)	28 (22-52)	20 (15-38)	13 (9.7-27)	8.7 (6.3-18)	5.8 (4.1-12)	3.9 (2.7-8.2)	2.6 (1.8-5.5)	1.7 (1.2-3.6)	1.1 (0.8-2.4)	0.7 (0.5-1.6)
2	56 (42-78)	44 (30-68)	32 (20-54)	23 (14-41)	16 (8.8-29)	11 (5.9-20)	7.2 (3.9-14)	4.8 (2.6-9.5)	3.2 (1.7-6.4)	2.1 (1.1-4.3)	1.4 (0.7-2.8)
3	71 (55-84)	60 (41-78)	48 (29-67)	36 (20-54)	26 (13-41)	18 (8.8-30)	13 (5.9-21)	8.7 (3.9-15)	5.9 (2.6-10)	3.9 (1.7-6.8)	2.6 (1.1-4.6)
4	81 (68-88)	74 (55-84)	64 (41-76)	53 (30-66)	40 (20-53)	30 (14-41)	21 (9.4-30)	15 (6.3-22)	10 (4.2-15)	6.9 (2.8-10)	4.6 (1.9-6.9)
5	87 (77-90)	83 (69-87)	77 (57-83)	69 (44-74)	57 (32-64)	45 (23-52)	34 (16-40)	24 (11-29)	17 (7.3-21)	12 (4.9-14)	8.0 (3.3-9.7)
6	90	88	86	81	73	62	50	38	28	19	13

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	25	18	12	8.5	5.8	4.0	2.8	1.9	1.3	0.9	0.6
1	40 (32-66)	30 (23-54)	22 (16-42)	16 (11-31)	11 (7.6-23)	7.8 (5.3-16)	5.5 (3.7-12)	3.8 (2.6-8.2)	2.7 (1.8-5.7)	1.8 (1.2-4.0)	1.3 (0.8-2.8)
2	55 (41-76)	45 (30-67)	35 (22-57)	26 (15-45)	19 (11-35)	14 (7.4-26)	9.9 (5.2-19)	7.0 (3.6-14)	4.9 (2.5-9.8)	3.4 (1.7-6.9)	2.4 (1.2-4.8)
3	68 (52-82)	59 (41-76)	49 (31-68)	39 (22-58)	30 (16-46)	23 (11-36)	17 (7.8-28)	12 (5.5-20)	8.7 (3.8-15)	6.1 (2.6-11)	4.3 (1.8-7.6)
4	78 (64-85)	72 (53-82)	64 (42-76)	54 (31-67)	44 (23-58)	35 (17-48)	27 (12-38)	20 (8.6-29)	15 (6.0-22)	10 (4.2-16)	7.4 (2.9-11)
5	84 (73-87)	80 (65-85)	75 (55-80)	68 (44-74)	59 (34-67)	50 (26-58)	40 (19-48)	31 (14-38)	23 (10-29)	17 (7.2-21)	12 (5.0-16)
6	87	86	83	79	73	65	56	45	35	27	20

Ten year probability of hip 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	21	15	11	8.0	5.8	4.3	3.1	2.3	1.7	1.2	0.9
1	34 (26-58)	26 (20-48)	20 (14-38)	15 (10-29)	11 (7.6-23)	8.1 (5.6-17)	6.0 (4.1-13)	4.4 (3.0-9.6)	3.3 (2.2-7.1)	2.4 (1.6-5.2)	1.7 (1.2-3.8)
2	48 (35-70)	39 (26-61)	31 (20-52)	24 (14-42)	19 (11-34)	14 (7.9-27)	11 (5.8-21)	8.0 (4.2-16)	6.0 (3.1-12)	4.4 (2.3-8.7)	3.2 (1.6-6.4)
3	62 (45-77)	54 (36-71)	45 (27-63)	37 (21-54)	29 (16-45)	23 (12-37)	18 (8.7-29)	14 (6.4-23)	10 (4.7-17)	7.7 (3.4-13)	5.7 (2.5-9.7)
4	73 (56-82)	67 (47-78)	59 (37-72)	51 (29-64)	43 (22-55)	35 (17-47)	28 (13-39)	22 (9.7-31)	17 (7.2-24)	13 (5.3-19)	9.6 (3.9-14)
5	80 (67-84)	77 (59-82)	71 (50-77)	65 (41-71)	57 (33-64)	49 (26-57)	41 (20-48)	34 (15-40)	27 (12-32)	21 (8.7-25)	16 (6.5-19)
6	84	83	80	76	71	64	56	48	39	31	25

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	13	10	7.6	5.7	4.5	3.5	2.7	2.1	1.6	1.2	0.9
1	23 (17-43)	18 (13-35)	14 (9.8-28)	11 (7.5-22)	8.4 (5.8-18)	6.5 (4.5-14)	5.1 (3.5-11)	4.0 (2.7-8.6)	3.1 (2.1-6.7)	2.4 (1.6-5.2)	1.8 (1.2-4.0)
2	34 (23-55)	28 (18-47)	23 (14-39)	18 (10-32)	14 (8.1-26)	11 (6.4-21)	9.1 (4.9-17)	7.1 (3.8-14)	5.5 (2.9-11)	4.3 (2.3-8.5)	3.3 (1.7-6.6)
3	48 (30-65)	41 (24-58)	34 (19-51)	28 (15-43)	23 (12-36)	19 (9.3-30)	15 (7.3-25)	12 (5.7-20)	9.5 (4.4-16)	7.5 (3.4-13)	5.8 (2.6-9.8)
4	61 (41-72)	54 (33-67)	47 (27-60)	40 (21-53)	34 (17-46)	29 (14-39)	24 (11-33)	19 (8.5-27)	16 (6.6-22)	12 (5.2-18)	9.8 (4.0-14)
5	71 (52-77)	66 (44-72)	60 (37-67)	54 (30-61)	48 (25-55)	41 (20-48)	35 (17-42)	29 (13-35)	24 (10-29)	20 (8.2-24)	16 (6.5-19)
6	78	76	72	67	62	55	49	42	36	30	24