Ireland - The probabilities of a hip fracture in men

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	19	11	5.7	3.0	1.6	0.8	0.4	0.2	0.1	0.1	0.0
1	29 (20-36)	16 (11-21)	9.0 (5.9-12)	4.8 (3.1-6.3)	2.5 (1.7-3.3)	1.3 (0.9-1.8)	0.7 (0.5-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	41 (27-56)	25 (15-35)	14 (8.3-21)	7.6 (4.4-11)	4.0 (2.4-6.1)	2.1 (1.2-3.3)	1.1 (0.6-1.7)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
3	56 (38-74)	36 (22-52)	21 (12-32)	12 (6.7-19)	6.3 (3.6-10)	3.4 (1.9-5.5)	1.8 (1.0-2.9)	0.9 (0.5-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
4	71 (56-85)	50 (35-66)	31 (20-45)	18 (11-27)	9.8 (6.1-15)	5.2 (3.2-8.3)	2.8 (1.7-4.4)	1.5 (0.9-2.3)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)
5	83 (76-91)	65 (54-78)	43 (34-56)	26 (20-36)	15 (11-21)	8.0 (5.9-12)	4.3 (3.1-6.2)	2.3 (1.6-3.3)	1.2 (0.9-1.8)	0.7 (0.5-1.0)	0.4 (0.3-0.5)
6	91	79	58	37	22	12	6.6	3.5	1.9	1.0	0.6

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Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	11	6.4	3.5	1.9	1.1	0.6	0.3	0.2	0.1	0.1
1	29 (21-35)	17 (12-21)	9.9 (6.7-12)	5.5 (3.7-6.9)	3.1 (2.0-3.8)	1.7 (1.1-2.1)	0.9 (0.6-1.1)	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	41 (28-54)	26 (17-35)	15 (9.4-21)	8.6 (5.2-12)	4.8 (2.9-6.9)	2.6 (1.6-3.8)	1.4 (0.9-2.1)	0.8 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
3	55 (40-71)	37 (24-51)	22 (14-33)	13 (7.9-20)	7.3 (4.4-11)	4.1 (2.4-6.4)	2.2 (1.3-3.5)	1.2 (0.7-1.9)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
4	69 (56-82)	50 (37-65)	32 (23-45)	19 (13-28)	11 (7.3-17)	6.2 (4.1-9.5)	3.4 (2.2-5.3)	1.9 (1.2-2.9)	1.1 (0.7-1.7)	0.6 (0.4-0.9)	0.3 (0.2-0.5)
5	81 (75-88)	64 (56-76)	44 (37-57)	28 (22-38)	16 (13-23)	9.4 (7.3-13)	5.2 (4.1-7.5)	2.9 (2.2-4.1)	1.6 (1.3-2.3)	0.9 (0.7-1.3)	0.5 (0.4-0.8)
6	89	77	58	39	24	14	7.8	4.4	2.5	1.4	0.8

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	11	6.7	3.9	2.3	1.3	0.8	0.4	0.3	0.2	0.1
1	27 (19-31)	17 (12-19)	10 (7.0-12)	6.0 (4.1-7.0)	3.5 (2.4-4.1)	2.0 (1.4-2.4)	1.2 (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	37 (26-47)	24 (16-32)	15 (9.8-20)	9.0 (5.8-12)	5.4 (3.4-7.3)	3.1 (2.0-4.3)	1.8 (1.1-2.5)	1.1 (0.7-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	50 (37-62)	34 (24-45)	22 (15-30)	13 (8.7-19)	8.0 (5.1-12)	4.8 (3.0-7.0)	2.8 (1.7-4.1)	1.6 (1.0-2.4)	1.0 (0.6-1.5)	0.6 (0.4-0.9)	0.4 (0.2-0.5)
4	62 (52-74)	46 (36-59)	31 (23-42)	19 (14-28)	12 (8.4-17)	7.1 (5.0-10)	4.2 (2.9-6.2)	2.5 (1.7-3.7)	1.5 (1.0-2.2)	0.9 (0.6-1.3)	0.5 (0.4-0.8)
5	74 (69-82)	58 (52-69)	42 (36-53)	28 (23-36)	17 (14-24)	10 (8.7-15)	6.2 (5.2-8.8)	3.7 (3.0-5.2)	2.2 (1.8-3.1)	1.3 (1.1-1.9)	0.8 (0.7-1.1)
6	83	71	54	38	25	15	9.2	5.4	3.3	2.0	1.2

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Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	11	6.9	4.3	2.7	1.7	1.0	0.6	0.4	0.3	0.2
1	24 (18-27)	16 (11-18)	10 (7.2-12)	6.4 (4.5-7.4)	4.0 (2.8-4.7)	2.5 (1.7-2.9)	1.5 (1.1-1.8)	1.0 (0.7-1.1)	0.6 (0.4-0.7)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
2	33 (24-40)	22 (16-28)	15 (10-19)	9.4 (6.4-12)	5.9 (4.0-7.7)	3.7 (2.5-4.8)	2.3 (1.5-3.0)	1.4 (0.9-1.9)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.4 (0.2-0.5)
3	43 (34-53)	31 (23-39)	21 (15-27)	14 (9.5-18)	8.7 (6.0-12)	5.5 (3.7-7.5)	3.4 (2.3-4.7)	2.1 (1.4-3.0)	1.4 (0.9-1.9)	0.9 (0.6-1.2)	0.6 (0.4-0.8)
4	54 (47-64)	41 (33-51)	29 (23-37)	19 (15-26)	12 (9.4-17)	7.9 (6.0-11)	5.0 (3.7-7.1)	3.1 (2.3-4.5)	2.0 (1.5-2.9)	1.3 (1.0-1.9)	0.8 (0.6-1.2)
5	65 (61-73)	51 (47-61)	38 (34-47)	26 (23-34)	18 (15-23)	11 (9.8-15)	7.2 (6.1-9.9)	4.6 (3.9-6.3)	3.0 (2.5-4.1)	1.9 (1.6-2.6)	1.2 (1.0-1.7)
6	74	62	49	35	24	16	10	6.6	4.3	2.8	1.8

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	16	11	7.4	5.0	3.3	2.2	1.4	0.9	0.6	0.4	0.3
1	24 (22-31)	17 (15-22)	12 (10-15)	7.9 (6.9-10)	5.3 (4.6-6.9)	3.5 (3.0-4.5)	2.3 (2.0-3.0)	1.5 (1.3-2.0)	1.0 (0.9-1.4)	0.7 (0.6-0.9)	0.5 (0.4-0.6)
2	35 (30-42)	26 (22-32)	18 (15-23)	12 (10-16)	8.4 (6.9-11)	5.6 (4.6-7.5)	3.7 (3.0-5.0)	2.5 (2.0-3.4)	1.7 (1.4-2.3)	1.2 (0.9-1.6)	0.8 (0.6-1.1)
3	47 (40-54)	36 (30-43)	27 (22-33)	19 (15-24)	13 (10-16)	8.9 (6.9-11)	6.0 (4.6-7.6)	4.1 (3.1-5.2)	2.8 (2.1-3.5)	1.9 (1.4-2.4)	1.3 (1.0-1.6)
4	59 (51-65)	48 (41-55)	38 (31-43)	28 (22-33)	20 (15-24)	14 (10-17)	9.4 (7.1-11)	6.5 (4.8-7.8)	4.5 (3.3-5.3)	3.0 (2.2-3.7)	2.1 (1.5-2.5)
5	68 (62-72)	60 (52-63)	49 (41-53)	39 (32-42)	29 (23-32)	21 (16-23)	15 (11-16)	10 (7.7-11)	7.1 (5.4-7.9)	4.9 (3.7-5.5)	3.3 (2.5-3.8)
6	76	69	61	51	40	30	22	16	11	7.7	5.3

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	16	12	8.3	5.9	4.1	2.9	2.0	1.4	1.0	0.7	0.5
1	26 (21-47)	20 (16-38)	15 (11-29)	11 (8.2-22)	7.7 (5.8-16)	5.5 (4.1-12)	3.9 (2.9-8.4)	2.8 (2.0-6.1)	2.0 (1.5-4.4)	1.5 (1.1-3.2)	1.0 (0.8-2.3)
2	38 (27-57)	30 (21-49)	24 (16-39)	18 (11-31)	13 (8.1-24)	9.7 (5.8-18)	7.0 (4.0-13)	5.1 (2.9-9.6)	3.7 (2.1-7.0)	2.7 (1.5-5.1)	1.9 (1.1-3.7)
3	50 (35-65)	42 (28-58)	35 (21-49)	28 (16-41)	21 (11-33)	16 (8.1-25)	12 (5.8-19)	8.7 (4.2-14)	6.4 (3.1-10)	4.7 (2.2-7.7)	3.4 (1.6-5.6)
4	62 (44-72)	55 (36-65)	47 (28-58)	39 (22-50)	32 (16-41)	25 (12-33)	19 (8.6-25)	14 (6.3-19)	11 (4.6-14)	7.9 (3.4-11)	5.8 (2.4-7.9)
5	71 (53-77)	66 (45-72)	59 (37-65)	51 (30-58)	43 (23-50)	35 (17-41)	28 (13-32)	22 (9.5-25)	17 (7.1-20)	13 (5.2-15)	9.5 (3.8-11)
6	79	75	70	63	56	48	39	32	25	20	15

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	15	11	8.5	6.3	4.7	3.5	2.6	2.0	1.5	1.1	0.9
1	24 (19-44)	19 (14-36)	15 (11-29)	11 (8.2-23)	8.6 (6.1-18)	6.5 (4.6-14)	4.9 (3.4-11)	3.7 (2.6-8.2)	2.8 (2.0-6.3)	2.2 (1.5-4.8)	1.6 (1.1-3.7)
2	34 (23-54)	28 (18-47)	23 (14-39)	18 (11-32)	14 (8.3-26)	11 (6.3-20)	8.4 (4.7-16)	6.5 (3.6-12)	5.0 (2.8-9.6)	3.9 (2.1-7.4)	2.9 (1.6-5.7)
3	46 (30-62)	39 (24-55)	33 (19-48)	27 (15-41)	22 (11-34)	17 (8.7-28)	14 (6.6-22)	11 (5.1-18)	8.4 (3.9-14)	6.5 (3.0-11)	5.0 (2.3-8.5)
4	57 (38-68)	51 (32-63)	45 (26-56)	38 (21-50)	32 (16-42)	26 (12-35)	21 (9.6-29)	17 (7.5-24)	13 (5.8-19)	11 (4.5-15)	8.2 (3.4-12)
5	67 (48-73)	62 (41-68)	56 (34-62)	50 (28-56)	43 (23-49)	36 (18-42)	30 (14-35)	25 (11-29)	20 (8.6-24)	16 (6.7-19)	13 (5.2-16)
6	75	71	66	61	55	48	41	35	29	24	20

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men 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	11	8.9	7.0	5.5	4.3	3.3	2.6	2.1	1.7	1.3	1.1
1	19 (14-37)	15 (12-31)	12 (9.1-25)	9.9 (7.1-21)	7.8 (5.6-17)	6.2 (4.4-13)	4.9 (3.4-11)	3.9 (2.7-8.7)	3.2 (2.2-7.0)	2.5 (1.7-5.6)	2.0 (1.4-4.5)
2	29 (19-47)	24 (15-41)	20 (12-35)	16 (9.6-29)	13 (7.6-24)	11 (5.9-19)	8.5 (4.7-16)	6.9 (3.8-13)	5.5 (3.0-10)	4.5 (2.4-8.5)	3.6 (2.0-6.9)
3	40 (25-56)	35 (20-50)	30 (16-44)	25 (13-38)	21 (10-32)	17 (8.3-27)	14 (6.6-22)	11 (5.3-18)	9.2 (4.3-15)	7.5 (3.4-13)	6.1 (2.8-10)
4	52 (33-64)	47 (27-59)	41 (23-53)	35 (18-47)	30 (15-40)	25 (12-34)	21 (9.6-29)	18 (7.9-25)	15 (6.4-21)	12 (5.2-17)	9.8 (4.2-14)
5	63 (42-69)	58 (37-65)	53 (31-59)	47 (26-54)	42 (21-47)	36 (17-41)	31 (14-36)	26 (12-31)	22 (9.4-26)	18 (7.7-22)	15 (6.2-18)
6	71	68	64	59	54	48	42	37	32	27	23

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	6.6	5.4	4.4	3.6	3.0	2.4	2.0	1.7	1.4	1.2	1.0
1	12 (8.6-24)	9.8 (7.1-20)	8.1 (5.8-17)	6.7 (4.7-14)	5.5 (3.9-12)	4.5 (3.1-9.8)	3.7 (2.6-8.3)	3.1 (2.2-7.0)	2.6 (1.8-5.9)	2.2 (1.5-4.9)	1.8 (1.3-4.1)
2	19 (11-33)	16 (9.4-28)	13 (7.7-24)	11 (6.4-21)	9.3 (5.2-17)	7.7 (4.3-14)	6.5 (3.6-12)	5.5 (3.0-10)	4.6 (2.5-8.8)	3.9 (2.1-7.4)	3.3 (1.8-6.3)
3	28 (15-42)	24 (13-37)	21 (11-32)	18 (8.8-28)	15 (7.3-24)	13 (6.0-20)	11 (5.0-18)	9.1 (4.2-15)	7.7 (3.6-13)	6.6 (3.0-11)	5.5 (2.5-9.3)
4	39 (21-50)	35 (18-45)	30 (15-41)	26 (13-36)	23 (11-31)	19 (8.7-27)	17 (7.4-23)	14 (6.2-20)	12 (5.3-17)	11 (4.5-15)	9.0 (3.8-13)
5	50 (29-57)	46 (25-52)	41 (21-47)	37 (18-42)	32 (15-37)	28 (13-33)	25 (11-29)	22 (9.2-25)	19 (7.9-22)	16 (6.7-19)	14 (5.6-17)
6	61	57	53	49	44	39	35	31	27	24	21