

Ireland - The probabilities of a hip fracture in women

The following tables give the 10-year probability (%) of a hip fracture according to body mass index (BMI kg/m²), 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.

Age = 50 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.9	0.5	0.3	0.2	0.2	0.1	0.1
1	1.8 (1.1-3.4)	1.0 (0.6-1.9)	0.5 (0.3-1.0)	0.4 (0.3-0.8)	0.3 (0.2-0.6)	0.2 (0.2-0.5)	0.2 (0.1-0.4)
2	3.4 (1.7-7.2)	1.9 (0.9-4.0)	1.0 (0.5-2.1)	0.8 (0.4-1.7)	0.6 (0.3-1.3)	0.5 (0.2-1.0)	0.4 (0.2-0.8)
3	6.4 (2.6-12)	3.5 (1.4-6.9)	1.9 (0.8-3.8)	1.5 (0.6-2.9)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)
4	12 (4.6-18)	6.4 (2.5-10)	3.5 (1.3-5.7)	2.7 (1.0-4.5)	2.1 (0.8-3.5)	1.7 (0.6-2.7)	1.3 (0.5-2.1)
5	20 (9.6-26)	11 (5.3-15)	6.3 (2.9-8.5)	4.9 (2.2-6.7)	3.8 (1.7-5.2)	3.0 (1.4-4.1)	2.3 (1.1-3.2)
6	33	19	11	8.6	6.8	5.3	4.1

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

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.6	0.9	0.5	0.4	0.3	0.2	0.2
1	3.1 (2.1-5.3)	1.7 (1.1-2.9)	0.9 (0.6-1.6)	0.7 (0.5-1.2)	0.5 (0.4-1.0)	0.4 (0.3-0.7)	0.3 (0.2-0.6)
2	5.7 (3.1-11)	3.1 (1.7-6.2)	1.7 (0.9-3.4)	1.3 (0.7-2.6)	1.0 (0.6-2.0)	0.8 (0.4-1.6)	0.6 (0.3-1.2)
3	10 (4.7-19)	5.7 (2.6-11)	3.1 (1.4-5.9)	2.4 (1.1-4.6)	1.9 (0.8-3.6)	1.5 (0.7-2.8)	1.1 (0.5-2.2)
4	18 (8.2-27)	10 (4.5-16)	5.6 (2.5-8.8)	4.4 (1.9-6.9)	3.4 (1.5-5.4)	2.7 (1.2-4.2)	2.1 (0.9-3.3)
5	29 (17-37)	17 (9.5-23)	9.8 (5.2-13)	7.7 (4.1-10)	6.1 (3.2-8.1)	4.7 (2.5-6.3)	3.7 (1.9-4.9)
6	46	29	17	13	10	8.2	6.4

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	2.9	1.6	0.9	0.7	0.5	0.4	0.3
1	5.3 (3.8-8.1)	2.9 (2.1-4.5)	1.6 (1.1-2.5)	1.2 (0.9-1.9)	1.0 (0.7-1.5)	0.7 (0.5-1.2)	0.6 (0.4-0.9)
2	9.3 (5.5-16)	5.2 (3.1-9.4)	2.9 (1.7-5.2)	2.2 (1.3-4.1)	1.7 (1.0-3.2)	1.4 (0.8-2.5)	1.1 (0.6-1.9)
3	16 (8.3-27)	9.2 (4.7-16)	5.1 (2.6-9.1)	4.0 (2.0-7.1)	3.1 (1.6-5.6)	2.4 (1.2-4.3)	1.9 (0.9-3.4)
4	26 (14-38)	16 (8.1-23)	8.9 (4.5-14)	7.0 (3.5-11)	5.5 (2.7-8.4)	4.3 (2.1-6.5)	3.3 (1.6-5.1)
5	41 (27-50)	26 (16-33)	15 (9.3-20)	12 (7.3-15)	9.4 (5.7-12)	7.4 (4.5-9.6)	5.8 (3.5-7.5)
6	59	40	25	20	16	12	9.8

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

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	2.8	1.6	1.2	0.9	0.7	0.6
1	8.7 (6.6-12)	5.0 (3.7-6.9)	2.8 (2.1-3.9)	2.1 (1.6-3.0)	1.7 (1.2-2.3)	1.3 (1.0-1.8)	1.0 (0.7-1.4)
2	15 (9.5-23)	8.6 (5.4-14)	4.8 (3.0-8.0)	3.8 (2.4-6.2)	2.9 (1.8-4.9)	2.3 (1.4-3.8)	1.8 (1.1-2.9)
3	24 (14-37)	14 (8.2-23)	8.3 (4.6-14)	6.5 (3.6-11)	5.1 (2.8-8.4)	3.9 (2.2-6.6)	3.1 (1.7-5.1)
4	37 (23-50)	23 (14-33)	14 (8.0-20)	11 (6.3-16)	8.6 (4.9-13)	6.7 (3.8-9.9)	5.2 (3.0-7.8)
5	53 (41-61)	36 (27-44)	23 (16-28)	18 (13-23)	14 (10-18)	11 (7.8-14)	8.8 (6.1-11)
6	69	53	35	29	23	18	14

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.0	5.3	3.0	2.3	1.8	1.4	1.1
1	16 (12-18)	9.5 (7.6-11)	5.5 (4.4-6.4)	4.3 (3.4-5.0)	3.3 (2.7-3.9)	2.6 (2.1-3.0)	2.0 (1.6-2.3)
2	26 (18-34)	17 (11-22)	9.9 (6.7-13)	7.8 (5.2-10)	6.1 (4.0-8.1)	4.7 (3.1-6.3)	3.7 (2.4-4.9)
3	41 (30-53)	28 (19-39)	17 (11-25)	14 (9.0-20)	11 (7.0-16)	8.4 (5.5-12)	6.6 (4.2-9.8)
4	58 (46-70)	43 (34-56)	29 (22-39)	23 (17-32)	19 (14-26)	15 (11-21)	12 (8.4-17)
5	73 (68-79)	61 (56-69)	45 (40-53)	38 (33-44)	31 (27-37)	25 (21-30)	20 (17-24)
6	82	77	65	56	47	40	32

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

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	15	9.8	5.9	4.6	3.5	2.7	2.1
1	27 (20-42)	18 (13-30)	11 (8.3-19)	8.9 (6.5-15)	6.9 (5.0-12)	5.4 (3.9-9.3)	4.2 (3.0-7.2)
2	42 (28-59)	31 (20-47)	21 (12-34)	16 (9.7-27)	13 (7.6-22)	10 (5.9-17)	8.0 (4.6-14)
3	58 (41-74)	48 (31-64)	35 (21-51)	28 (16-43)	23 (13-36)	18 (10-29)	14 (7.9-23)
4	71 (56-81)	64 (48-78)	53 (34-69)	45 (28-61)	38 (22-52)	31 (18-44)	25 (14-37)
5	80 (70-85)	77 (64-84)	71 (53-79)	63 (45-73)	56 (37-65)	48 (30-57)	40 (24-49)
6	85	85	83	78	73	66	58

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	21	15	9.4	7.3	5.7	4.4	3.4
1	34 (26-51)	25 (19-41)	17 (13-29)	13 (10-23)	11 (7.8-18)	8.2 (6.0-14)	6.4 (4.6-11)
2	48 (36-66)	39 (27-57)	29 (19-46)	23 (15-38)	19 (12-31)	15 (9.0-25)	12 (7.0-20)
3	61 (47-75)	55 (38-70)	44 (27-62)	37 (22-54)	30 (17-46)	25 (14-39)	20 (11-32)
4	72 (57-81)	68 (52-78)	61 (42-74)	53 (35-67)	46 (28-59)	38 (22-51)	32 (18-43)
5	79 (69-83)	78 (66-83)	74 (59-81)	68 (51-76)	61 (43-70)	54 (36-63)	46 (29-55)
6	83	84	83	79	75	69	62

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

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	22	16	11	8.5	6.6	5.1	3.9
1	35 (27-52)	27 (21-43)	19 (14-32)	15 (11-26)	12 (8.8-21)	9.4 (6.8-16)	7.3 (5.2-13)
2	49 (36-67)	41 (29-59)	32 (21-48)	26 (17-41)	21 (13-33)	16 (10-27)	13 (7.8-22)
3	62 (48-75)	56 (40-71)	47 (30-64)	40 (24-57)	33 (19-49)	27 (15-41)	21 (12-34)
4	72 (58-81)	68 (53-78)	62 (44-74)	55 (37-68)	48 (30-61)	40 (24-53)	33 (19-45)
5	78 (70-81)	78 (66-82)	75 (60-81)	69 (52-77)	63 (45-71)	55 (37-65)	48 (30-57)
6	79	82	83	79	75	69	63

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	18	13	9.2	7.1	5.5	4.2	3.2
1	28 (21-44)	22 (16-37)	16 (12-28)	13 (9.3-22)	10 (7.1-18)	7.7 (5.5-14)	6.0 (4.2-11)
2	41 (29-59)	34 (23-52)	27 (17-42)	22 (14-35)	17 (11-28)	13 (8.2-23)	11 (6.3-18)
3	54 (39-68)	48 (33-63)	40 (25-57)	34 (20-49)	27 (16-41)	22 (12-34)	18 (9.5-28)
4	65 (50-75)	61 (44-72)	55 (37-68)	48 (30-61)	41 (25-53)	34 (19-46)	28 (15-38)
5	72 (62-76)	71 (58-77)	68 (52-76)	62 (45-70)	55 (37-64)	48 (30-57)	40 (25-49)
6	73	77	77	73	68	62	55