Malta - 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 Malta. 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	16	8.7	4.7	2.5	1.3	0.7	0.4	0.2	0.1	0.1	0.0
1	24 (17-31)	14 (9.2-18)	7.4 (4.9-9.7)	4.0 (2.6-5.2)	2.1 (1.4-2.8)	1.1 (0.7-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	36 (23-49)	21 (13-30)	12 (6.9-17)	6.3 (3.7-9.5)	3.3 (1.9-5.1)	1.8 (1.0-2.7)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	49 (33-67)	31 (19-45)	18 (10-27)	9.7 (5.5-16)	5.2 (2.9-8.5)	2.8 (1.5-4.5)	1.5 (0.8-2.4)	0.8 (0.4-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	64 (49-80)	43 (30-60)	26 (17-39)	15 (9.3-23)	8.1 (5.0-13)	4.3 (2.6-6.9)	2.3 (1.4-3.6)	1.2 (0.7-1.9)	0.6 (0.4-1.0)	0.3 (0.2-0.6)	0.2 (0.1-0.3)
5	78 (69-88)	58 (48-71)	37 (29-50)	22 (17-31)	12 (9.0-17)	6.6 (4.8-9.6)	3.5 (2.6-5.1)	1.9 (1.4-2.7)	1.0 (0.7-1.5)	0.5 (0.4-0.8)	0.3 (0.2-0.4)
6	89	73	51	32	18	10	5.4	2.9	1.5	0.8	0.5

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Malta.

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	9.6	5.4	3.0	1.6	0.9	0.5	0.3	0.2	0.1	0.1
1	25 (18-31)	15 (10-18)	8.4 (5.6-10)	4.6 (3.1-5.8)	2.6 (1.7-3.2)	1.4 (0.9-1.7)	0.8 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	36 (24-48)	22 (14-30)	13 (7.9-18)	7.2 (4.4-10)	4.0 (2.4-5.8)	2.2 (1.3-3.2)	1.2 (0.7-1.7)	0.7 (0.4-1.0)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	49 (34-64)	32 (21-45)	19 (12-28)	11 (6.6-17)	6.1 (3.7-9.5)	3.4 (2.0-5.3)	1.9 (1.1-2.9)	1.0 (0.6-1.6)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	63 (50-77)	44 (32-58)	28 (19-39)	16 (11-24)	9.3 (6.1-14)	5.2 (3.4-8.0)	2.9 (1.9-4.4)	1.6 (1.0-2.4)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)
5	76 (69-85)	57 (49-70)	39 (32-50)	24 (19-32)	14 (11-19)	7.8 (6.1-11)	4.4 (3.4-6.2)	2.4 (1.9-3.5)	1.3 (1.0-1.9)	0.8 (0.6-1.1)	0.4 (0.3-0.6)
6	86	71	52	34	20	12	6.6	3.6	2.0	1.2	0.7

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	18	11	6.3	3.7	2.2	1.3	0.7	0.4	0.3	0.2	0.1
1	25 (18-29)	16 (11-18)	9.6 (6.6-11)	5.7 (3.9-6.7)	3.3 (2.3-3.9)	1.9 (1.3-2.3)	1.1 (0.8-1.3)	0.7 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
2	36 (25-45)	23 (15-30)	14 (9.3-19)	8.6 (5.5-12)	5.1 (3.2-6.9)	3.0 (1.9-4.1)	1.7 (1.1-2.4)	1.0 (0.6-1.4)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)
3	47 (35-59)	32 (22-43)	21 (14-29)	13 (8.3-18)	7.6 (4.9-11)	4.5 (2.9-6.6)	2.6 (1.7-3.9)	1.5 (1.0-2.3)	0.9 (0.6-1.4)	0.6 (0.3-0.8)	0.3 (0.2-0.5)
4	60 (49-71)	43 (34-56)	29 (22-40)	18 (13-26)	11 (7.9-16)	6.7 (4.7-9.9)	4.0 (2.7-5.9)	2.3 (1.6-3.5)	1.4 (1.0-2.1)	0.8 (0.6-1.3)	0.5 (0.4-0.8)
5	71 (66-79)	56 (50-66)	39 (34-50)	26 (22-34)	16 (14-22)	9.9 (8.2-14)	5.9 (4.9-8.2)	3.5 (2.9-4.9)	2.1 (1.7-3.0)	1.3 (1.0-1.8)	0.8 (0.6-1.1)
6	80	68	52	36	23	14	8.6	5.1	3.1	1.9	1.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Malta.

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	18	11	7.2	4.5	2.8	1.7	1.1	0.7	0.4	0.3	0.2
1	25 (19-28)	16 (12-19)	11 (7.6-12)	6.7 (4.7-7.7)	4.2 (3.0-4.9)	2.6 (1.8-3.0)	1.6 (1.1-1.9)	1.0 (0.7-1.2)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)
2	34 (25-41)	23 (16-29)	15 (11-19)	9.8 (6.7-13)	6.2 (4.2-8.0)	3.9 (2.6-5.0)	2.4 (1.6-3.1)	1.5 (1.0-2.0)	1.0 (0.6-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
3	44 (35-53)	31 (24-40)	21 (16-28)	14 (10-19)	9.0 (6.3-12)	5.7 (3.9-7.7)	3.5 (2.4-4.9)	2.2 (1.5-3.1)	1.4 (1.0-2.0)	0.9 (0.6-1.3)	0.6 (0.4-0.8)
4	55 (47-64)	41 (34-51)	29 (23-38)	20 (15-26)	13 (9.8-18)	8.2 (6.2-12)	5.2 (3.9-7.3)	3.3 (2.4-4.7)	2.1 (1.6-3.0)	1.3 (1.0-1.9)	0.9 (0.6-1.2)
5	65 (61-72)	52 (48-61)	39 (35-48)	27 (24-35)	18 (16-24)	12 (10-16)	7.5 (6.4-10)	4.8 (4.1-6.6)	3.1 (2.6-4.3)	2.0 (1.7-2.7)	1.3 (1.1-1.8)
6	73	62	49	36	25	17	11	6.9	4.5	2.9	1.9

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	17	12	7.9	5.3	3.5	2.3	1.5	1.0	0.7	0.5	0.3
1	26 (23-32)	18 (16-23)	12 (11-16)	8.5 (7.4-11)	5.7 (4.9-7.3)	3.8 (3.3-4.9)	2.5 (2.1-3.2)	1.7 (1.4-2.2)	1.1 (1.0-1.5)	0.8 (0.7-1.0)	0.5 (0.4-0.7)
2	36 (31-44)	27 (23-33)	19 (16-24)	13 (11-17)	9.0 (7.4-12)	6.0 (4.9-8.0)	4.0 (3.3-5.3)	2.7 (2.2-3.6)	1.8 (1.5-2.5)	1.2 (1.0-1.7)	0.8 (0.7-1.1)
3	48 (41-55)	38 (31-44)	28 (23-34)	20 (16-25)	14 (11-17)	9.5 (7.4-12)	6.4 (4.9-8.1)	4.3 (3.3-5.5)	3.0 (2.3-3.8)	2.0 (1.5-2.6)	1.4 (1.0-1.8)
4	60 (52-66)	49 (42-56)	39 (32-45)	29 (23-34)	21 (16-25)	15 (11-17)	10 (7.5-12)	6.9 (5.1-8.3)	4.7 (3.5-5.7)	3.3 (2.4-3.9)	2.2 (1.6-2.7)
5	69 (62-73)	61 (53-64)	51 (43-54)	40 (33-43)	30 (24-33)	22 (17-24)	15 (12-17)	11 (8.2-12)	7.5 (5.7-8.4)	5.2 (3.9-5.8)	3.6 (2.7-4.0)
6	76	70	61	52	41	31	23	16	12	8.1	5.6

FRAX® WHO Fracture Risk Assessment Tool

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Malta.

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	14	10	7.3	5.1	3.6	2.5	1.7	1.2	0.9	0.6	0.5
1	24 (19-44)	18 (14-35)	13 (10-27)	9.6 (7.2-20)	6.8 (5.1-14)	4.8 (3.5-10)	3.4 (2.5-7.3)	2.4 (1.8-5.3)	1.7 (1.3-3.8)	1.3 (0.9-2.8)	0.9 (0.6-2.0)
2	36 (26-56)	28 (19-46)	22 (14-37)	16 (10-29)	12 (7.1-22)	8.6 (5.0-16)	6.1 (3.5-12)	4.4 (2.5-8.5)	3.2 (1.8-6.2)	2.3 (1.3-4.5)	1.7 (0.9-3.2)
3	49 (33-65)	41 (26-57)	33 (19-48)	26 (14-39)	19 (10-30)	14 (7.2-23)	10 (5.1-17)	7.7 (3.7-12)	5.6 (2.7-9.2)	4.1 (1.9-6.7)	3.0 (1.4-4.9)
4	62 (43-72)	54 (35-65)	46 (27-57)	37 (20-48)	30 (15-39)	23 (11-30)	17 (7.7-23)	13 (5.6-17)	9.5 (4.0-13)	6.9 (2.9-9.5)	5.1 (2.1-7.0)
5	72 (53-77)	66 (45-72)	59 (36-65)	51 (28-57)	42 (21-48)	34 (16-39)	26 (12-30)	20 (8.6-23)	15 (6.3-18)	11 (4.6-13)	8.4 (3.4-9.8)
6	79	75	70	63	55	47	38	30	23	18	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	9.5	7.1	5.3	3.9	2.9	2.1	1.6	1.2	0.9	0.7	0.5
1	16 (12-32)	13 (9.2-26)	9.6 (6.9-20)	7.2 (5.1-16)	5.4 (3.8-12)	4.0 (2.8-8.9)	3.0 (2.1-6.7)	2.3 (1.6-5.1)	1.7 (1.2-3.9)	1.3 (0.9-3.0)	1.0 (0.7-2.2)
2	25 (16-43)	20 (12-35)	16 (9.4-28)	12 (7.0-22)	9.4 (5.3-17)	7.1 (3.9-13)	5.3 (2.9-10)	4.1 (2.2-7.8)	3.1 (1.7-6.0)	2.4 (1.3-4.6)	1.8 (1.0-3.5)
3	37 (22-52)	30 (17-45)	24 (13-38)	19 (9.8-31)	15 (7.4-24)	12 (5.5-19)	8.9 (4.1-15)	6.9 (3.2-12)	5.3 (2.4-9.0)	4.1 (1.8-6.9)	3.1 (1.4-5.3)
4	49 (29-61)	42 (23-54)	35 (18-46)	29 (14-39)	23 (11-32)	18 (8.1-25)	14 (6.2-20)	11 (4.7-16)	8.7 (3.6-12)	6.7 (2.8-9.6)	5.2 (2.1-7.4)
5	60 (38-67)	54 (32-60)	47 (25-53)	40 (20-46)	33 (16-38)	27 (12-32)	21 (9.1-25)	17 (7.1-21)	14 (5.5-16)	11 (4.2-13)	8.3 (3.2-10)
6	70	66	59	53	45	38	31	26	21	16	13

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Malta.

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	5.8	4.5	3.5	2.8	2.1	1.7	1.3	1.1	0.8	0.7	0.5
1	10 (7.5-21)	8.2 (5.9-17)	6.5 (4.6-14)	5.1 (3.6-11)	4.0 (2.8-8.8)	3.1 (2.2-7.0)	2.5 (1.7-5.5)	2.0 (1.4-4.5)	1.6 (1.1-3.6)	1.3 (0.9-2.9)	1.0 (0.7-2.3)
2	17 (9.8-29)	13 (7.7-24)	11 (6.1-20)	8.7 (4.8-16)	6.9 (3.8-13)	5.4 (2.9-10)	4.3 (2.3-8.2)	3.5 (1.9-6.7)	2.8 (1.5-5.4)	2.3 (1.2-4.3)	1.8 (1.0-3.5)
3	25 (13-38)	21 (11-32)	17 (8.5-27)	14 (6.7-22)	11 (5.3-18)	8.9 (4.1-15)	7.2 (3.3-12)	5.8 (2.6-9.8)	4.7 (2.1-8.0)	3.8 (1.7-6.5)	3.1 (1.4-5.2)
4	35 (18-46)	30 (15-40)	25 (12-35)	21 (9.6-29)	17 (7.6-24)	14 (6.0-20)	11 (4.8-16)	9.4 (3.9-13)	7.7 (3.1-11)	6.2 (2.5-9.0)	5.0 (2.0-7.3)
5	47 (26-53)	41 (21-47)	36 (17-41)	30 (14-35)	25 (11-30)	21 (8.9-25)	17 (7.2-20)	14 (5.8-17)	12 (4.7-14)	9.8 (3.8-12)	8.0 (3.1-9.6)
6	58	53	47	41	36	30	25	21	18	15	12

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	3.5	2.9	2.3	1.9	1.6	1.3	1.1	0.9	0.8	0.6	0.5
1	6.3 (4.6-14)	5.2 (3.7-11)	4.3 (3.1-9.5)	3.6 (2.5-7.9)	2.9 (2.1-6.5)	2.4 (1.7-5.4)	2.0 (1.4-4.5)	1.7 (1.2-3.8)	1.4 (1.0-3.2)	1.2 (0.8-2.7)	1.0 (0.7-2.3)
2	11 (5.9-20)	8.9 (4.9-17)	7.4 (4.0-14)	6.1 (3.3-12)	5.0 (2.7-9.6)	4.1 (2.2-8.0)	3.5 (1.9-6.7)	2.9 (1.6-5.7)	2.5 (1.3-4.8)	2.1 (1.1-4.1)	1.8 (0.9-3.4)
3	17 (8.2-26)	14 (6.8-22)	12 (5.6-19)	9.9 (4.6-16)	8.2 (3.8-14)	6.8 (3.1-11)	5.8 (2.6-9.6)	4.9 (2.2-8.2)	4.2 (1.9-7.0)	3.5 (1.6-5.9)	3.0 (1.3-5.0)
4	24 (12-33)	21 (9.6-29)	18 (8.0-25)	15 (6.6-22)	13 (5.5-18)	11 (4.5-15)	9.2 (3.8-13)	7.9 (3.2-11)	6.7 (2.7-9.7)	5.7 (2.3-8.2)	4.8 (1.9-7.0)
5	34 (17-40)	30 (14-35)	26 (12-31)	23 (9.8-27)	19 (8.1-23)	16 (6.7-19)	14 (5.7-17)	12 (4.8-14)	10 (4.1-12)	8.9 (3.4-11)	7.6 (2.9-9.1)
6	45	41	36	32	28	24	21	18	16	14	12