Lebanon - 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 Lebanon. 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	6.4	3.4	1.8	1.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	10 (6.7-13)	5.4 (3.6-7.1)	2.9 (1.9-3.8)	1.5 (1.0-2.0)	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)	0.0 (0.0-0.0)
2	15 (9.4-22)	8.4 (5.1-13)	4.5 (2.7-6.8)	2.4 (1.4-3.7)	1.3 (0.7-1.9)	0.7 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.0)
3	23 (14-34)	13 (7.6-20)	7.0 (4.1-11)	3.8 (2.2-6.0)	2.0 (1.1-3.2)	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)	0.0 (0.0-0.1)
4	33 (22-46)	19 (12-28)	11 (6.7-16)	5.8 (3.6-9.0)	3.1 (1.9-4.9)	1.6 (1.0-2.6)	0.9 (0.5-1.4)	0.5 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
5	45 (35-57)	28 (21-37)	16 (12-22)	8.8 (6.4-13)	4.7 (3.4-6.8)	2.5 (1.8-3.7)	1.3 (1.0-1.9)	0.7 (0.5-1.0)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	59	39	23	13	7.2	3.8	2.0	1.1	0.6	0.3	0.2

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

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	7.4	4.1	2.3	1.3	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	11 (7.8-14)	6.4 (4.3-8.0)	3.5 (2.4-4.4)	2.0 (1.3-2.5)	1.1 (0.7-1.3)	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)	0.0 (0.0-0.0)
2	17 (11-23)	9.7 (6.1-14)	5.4 (3.4-7.8)	3.0 (1.9-4.4)	1.7 (1.0-2.4)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
3	24 (16-34)	14 (9.1-21)	8.2 (5.1-12)	4.6 (2.8-7.0)	2.6 (1.6-3.9)	1.4 (0.9-2.2)	0.8 (0.5-1.2)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	34 (25-46)	21 (15-30)	12 (8.3-18)	7.0 (4.6-10)	3.9 (2.6-5.9)	2.2 (1.4-3.3)	1.2 (0.8-1.8)	0.6 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	45 (38-56)	29 (24-39)	18 (14-24)	10 (8.0-14)	5.8 (4.5-8.2)	3.2 (2.5-4.6)	1.8 (1.4-2.6)	1.0 (0.8-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
6	58	40	25	15	8.6	4.8	2.7	1.5	0.8	0.5	0.3

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	7.6	4.5	2.7	1.6	0.9	0.5	0.3	0.2	0.1	0.1	0.0
1	11 (8.0-13)	6.8 (4.8-8.1)	4.0 (2.8-4.8)	2.4 (1.6-2.8)	1.4 (1.0-1.7)	0.8 (0.6-1.0)	0.5 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.0-0.1)
2	16 (11-22)	10 (6.7-13)	6.0 (4.0-8.2)	3.6 (2.3-4.9)	2.1 (1.4-2.9)	1.2 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	23 (16-31)	15 (10-20)	8.9 (6.0-12)	5.3 (3.5-7.5)	3.1 (2.1-4.5)	1.8 (1.2-2.7)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	0.4 (0.2-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
4	32 (24-41)	21 (15-28)	13 (9.3-18)	7.8 (5.6-11)	4.7 (3.3-6.7)	2.8 (1.9-4.0)	1.6 (1.1-2.4)	0.9 (0.7-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	42 (36-51)	28 (24-36)	18 (15-24)	11 (9.3-15)	6.8 (5.6-9.4)	4.1 (3.3-5.6)	2.4 (2.0-3.3)	1.4 (1.1-2.0)	0.9 (0.7-1.2)	0.5 (0.4-0.7)	0.3 (0.3-0.4)
6	52	38	25	16	9.8	5.9	3.5	2.1	1.3	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 Lebanon.

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	7.7	4.9	3.1	1.9	1.2	0.7	0.5	0.3	0.2	0.1	0.1
1	11 (8.1-13)	7.1 (5.1-8.0)	4.5 (3.2-5.1)	2.8 (2.0-3.2)	1.7 (1.2-2.0)	1.1 (0.8-1.2)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
2	16 (11-20)	10 (7.2-13)	6.5 (4.5-8.3)	4.1 (2.8-5.3)	2.6 (1.8-3.3)	1.6 (1.1-2.1)	1.0 (0.7-1.3)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
3	21 (16-28)	14 (11-19)	9.3 (6.8-12)	5.9 (4.3-7.9)	3.7 (2.7-5.0)	2.3 (1.7-3.1)	1.5 (1.0-2.0)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
4	29 (23-36)	20 (16-25)	13 (10-17)	8.5 (6.5-11)	5.4 (4.1-7.4)	3.4 (2.6-4.7)	2.1 (1.6-3.0)	1.3 (1.0-1.9)	0.9 (0.6-1.2)	0.6 (0.4-0.8)	0.4 (0.3-0.5)
5	37 (33-44)	26 (23-33)	18 (16-23)	12 (10-16)	7.7 (6.6-10)	4.9 (4.2-6.6)	3.1 (2.6-4.2)	1.9 (1.7-2.7)	1.3 (1.1-1.7)	0.8 (0.7-1.1)	0.5 (0.4-0.7)
6	46	34	24	16	11	6.9	4.4	2.8	1.8	1.2	0.8

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	8.1	5.5	3.7	2.4	1.6	1.1	0.7	0.5	0.3	0.2	0.1
1	12 (11-16)	8.6 (7.7-11)	5.8 (5.1-7.6)	3.9 (3.4-5.1)	2.6 (2.3-3.4)	1.7 (1.5-2.3)	1.1 (1.0-1.5)	0.8 (0.7-1.0)	0.5 (0.5-0.7)	0.3 (0.3-0.5)	0.2 (0.2-0.3)
2	19 (15-23)	13 (11-17)	9.0 (7.3-12)	6.1 (4.9-8.0)	4.1 (3.3-5.4)	2.7 (2.2-3.6)	1.8 (1.5-2.4)	1.2 (1.0-1.6)	0.8 (0.7-1.1)	0.6 (0.5-0.8)	0.4 (0.3-0.5)
3	27 (21-32)	19 (15-24)	14 (11-17)	9.4 (7.3-12)	6.4 (5.0-8.2)	4.3 (3.3-5.5)	2.9 (2.2-3.7)	2.0 (1.5-2.5)	1.3 (1.0-1.7)	0.9 (0.7-1.2)	0.6 (0.5-0.8)
4	36 (29-42)	27 (21-32)	20 (15-24)	14 (11-17)	9.9 (7.5-12)	6.7 (5.1-8.2)	4.5 (3.4-5.6)	3.1 (2.3-3.8)	2.1 (1.6-2.6)	1.5 (1.1-1.8)	1.0 (0.7-1.2)
5	46 (38-50)	37 (30-41)	28 (22-31)	21 (16-23)	15 (11-16)	10 (7.7-11)	7.0 (5.2-7.8)	4.8 (3.6-5.4)	3.4 (2.5-3.7)	2.3 (1.7-2.6)	1.6 (1.2-1.8)
6	56	47	38	29	21	15	11	7.5	5.2	3.6	2.5

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

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	8.9	6.4	4.6	3.2	2.3	1.6	1.1	0.8	0.6	0.4	0.3
1	15 (11-30)	11 (8.4-23)	8.3 (6.1-17)	6.0 (4.3-13)	4.3 (3.1-9.3)	3.0 (2.2-6.7)	2.1 (1.6-4.7)	1.5 (1.1-3.4)	1.1 (0.8-2.5)	0.8 (0.6-1.8)	0.6 (0.4-1.3)
2	24 (15-39)	18 (12-32)	14 (8.4-25)	10 (6.1-19)	7.5 (4.3-14)	5.4 (3.1-9.9)	3.8 (2.2-7.1)	2.8 (1.6-5.2)	2.0 (1.2-3.8)	1.5 (0.8-2.8)	1.1 (0.6-2.0)
3	34 (20-48)	27 (16-40)	21 (12-32)	16 (8.5-25)	12 (6.1-19)	9.0 (4.4-14)	6.5 (3.1-11)	4.8 (2.3-7.8)	3.5 (1.6-5.8)	2.6 (1.2-4.2)	1.9 (0.9-3.1)
4	45 (27-56)	37 (21-48)	31 (16-40)	24 (12-32)	19 (8.6-25)	14 (6.3-19)	10 (4.5-14)	7.8 (3.3-11)	5.8 (2.5-8.1)	4.3 (1.8-6.0)	3.1 (1.3-4.4)
5	56 (35-62)	49 (28-55)	41 (22-48)	34 (17-40)	27 (13-32)	21 (9.3-25)	16 (6.7-19)	12 (5.0-15)	9.3 (3.7-11)	7.0 (2.7-8.3)	5.1 (2.0-6.1)
6	66	60	52	45	37	30	24	19	14	11	8.2

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	7.3	5.5	4.1	3.1	2.3	1.7	1.3	1.0	0.8	0.6
1	16 (12-31)	12 (9.0-25)	9.6 (6.9-20)	7.4 (5.3-16)	5.6 (4.0-12)	4.2 (3.0-9.4)	3.2 (2.3-7.1)	2.5 (1.7-5.5)	1.9 (1.3-4.3)	1.5 (1.0-3.3)	1.1 (0.8-2.5)
2	24 (15-40)	19 (12-34)	15 (8.9-28)	12 (6.8-22)	9.4 (5.2-18)	7.2 (3.9-14)	5.5 (3.0-11)	4.3 (2.3-8.2)	3.3 (1.8-6.4)	2.6 (1.4-4.9)	2.0 (1.0-3.8)
3	33 (19-48)	28 (15-41)	23 (12-35)	18 (9.3-29)	15 (7.1-23)	11 (5.4-18)	8.9 (4.1-15)	7.0 (3.2-12)	5.5 (2.5-9.2)	4.3 (1.9-7.2)	3.3 (1.5-5.6)
4	43 (25-55)	37 (20-48)	32 (16-42)	26 (13-36)	21 (9.8-30)	17 (7.5-24)	14 (5.8-19)	11 (4.5-16)	8.7 (3.5-13)	6.8 (2.7-9.9)	5.3 (2.1-7.8)
5	54 (33-60)	48 (27-54)	42 (22-48)	36 (18-42)	30 (14-35)	25 (11-29)	20 (8.5-24)	16 (6.7-20)	13 (5.3-16)	10 (4.1-13)	8.3 (3.2-10)
6	64	59	53	46	40	34	28	23	19	16	13

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

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	10	8.0	6.4	5.1	4.0	3.2	2.5	2.1	1.7	1.3	1.1
1	16 (12-31)	13 (9.7-27)	11 (7.8-22)	8.8 (6.2-19)	7.1 (5.0-15)	5.7 (4.0-12)	4.6 (3.2-10)	3.8 (2.6-8.4)	3.1 (2.1-6.9)	2.5 (1.7-5.6)	2.0 (1.4-4.6)
2	24 (15-40)	20 (12-35)	17 (10-30)	14 (8.0-26)	12 (6.4-21)	9.4 (5.1-18)	7.7 (4.1-15)	6.3 (3.4-12)	5.2 (2.8-10)	4.3 (2.2-8.3)	3.5 (1.8-6.8)
3	33 (20-48)	29 (16-43)	25 (13-37)	21 (11-32)	17 (8.6-28)	14 (6.9-23)	12 (5.6-20)	10 (4.6-16)	8.3 (3.8-14)	6.9 (3.1-11)	5.7 (2.5-9.4)
4	44 (25-55)	39 (21-50)	34 (18-44)	29 (14-39)	25 (12-34)	21 (9.5-29)	18 (7.8-25)	15 (6.4-21)	13 (5.3-18)	11 (4.3-15)	8.8 (3.5-13)
5	54 (34-61)	49 (29-56)	44 (24-51)	39 (20-45)	34 (17-40)	29 (14-35)	25 (11-30)	22 (9.4-26)	19 (7.8-22)	16 (6.4-19)	13 (5.3-16)
6	64	60	55	50	44	39	34	30	26	22	19

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	11	8.9	7.5	6.2	5.2	4.3	3.7	3.1	2.6	2.3	1.9
1	17 (13-33)	15 (11-29)	13 (9.1-25)	11 (7.6-22)	9.0 (6.3-19)	7.5 (5.3-16)	6.5 (4.5-14)	5.6 (3.8-12)	4.8 (3.3-11)	4.1 (2.8-9.1)	3.5 (2.4-7.8)
2	25 (16-42)	22 (14-38)	19 (12-33)	17 (9.7-30)	14 (8.2-26)	12 (6.8-22)	11 (5.8-20)	9.1 (5.0-17)	7.9 (4.3-15)	6.8 (3.6-13)	5.9 (3.1-11)
3	35 (21-50)	31 (18-45)	28 (15-41)	24 (13-37)	21 (11-33)	18 (9.2-29)	16 (7.9-26)	14 (6.8-23)	12 (5.8-20)	11 (5.0-18)	9.3 (4.2-15)
4	45 (27-56)	41 (23-52)	37 (20-48)	33 (17-44)	30 (15-40)	26 (12-35)	23 (11-32)	21 (9.3-28)	18 (8.0-25)	16 (6.9-23)	14 (5.9-20)
5	55 (35-61)	52 (31-58)	48 (27-54)	44 (24-50)	40 (21-46)	35 (18-41)	32 (15-38)	29 (13-34)	26 (12-31)	23 (10-27)	20 (8.7-24)
6	63	61	58	54	50	46	42	39	35	32	28