

Lebanon - 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 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	4.8	2.5	1.3	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
1	7.7 (5.1-10)	4.0 (2.6-5.2)	2.1 (1.3-2.7)	1.1 (0.7-1.4)	0.5 (0.4-0.7)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
2	12 (7.1-18)	6.3 (3.7-9.6)	3.3 (1.9-5.0)	1.7 (1.0-2.6)	0.9 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
3	18 (11-29)	9.9 (5.6-16)	5.2 (2.9-8.5)	2.7 (1.5-4.4)	1.4 (0.8-2.3)	0.7 (0.4-1.2)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
4	27 (18-40)	15 (9.5-23)	8.0 (4.9-13)	4.2 (2.6-6.7)	2.2 (1.3-3.5)	1.1 (0.7-1.8)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
5	39 (30-52)	23 (17-31)	12 (9.1-18)	6.5 (4.7-9.4)	3.4 (2.4-4.9)	1.7 (1.3-2.5)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)
6	54	33	18	9.8	5.1	2.7	1.4	0.7	0.4	0.2	0.1	0.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	5.8	3.1	1.7	0.9	0.5	0.3	0.1	0.1	0.0	0.0	0.0
1	9.0 (6.0-11)	4.9 (3.3-6.1)	2.7 (1.8-3.3)	1.4 (1.0-1.8)	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)	0.0 (0.0-0.1)	0.0 (0.0-0.0)
2	14 (8.5-20)	7.7 (4.6-11)	4.2 (2.5-6.1)	2.3 (1.4-3.3)	1.2 (0.7-1.8)	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)	0.0 (0.0-0.1)
3	21 (13-31)	12 (7.0-18)	6.5 (3.8-10)	3.5 (2.1-5.6)	1.9 (1.1-3.1)	1.0 (0.6-1.7)	0.6 (0.3-0.9)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	30 (21-43)	18 (12-26)	9.9 (6.5-15)	5.5 (3.5-8.5)	3.0 (1.9-4.6)	1.6 (1.0-2.5)	0.9 (0.6-1.4)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
5	42 (35-55)	26 (21-35)	15 (12-21)	8.3 (6.5-12)	4.5 (3.5-6.5)	2.5 (1.9-3.6)	1.3 (1.0-1.9)	0.7 (0.6-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.3)	0.1 (0.1-0.2)
6	56	37	22	12	6.9	3.7	2.0	1.1	0.6	0.4	0.2

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	7.1	4.0	2.3	1.3	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	11 (7.5-13)	6.2 (4.2-7.3)	3.5 (2.4-4.2)	2.0 (1.3-2.3)	1.1 (0.7-1.3)	0.6 (0.4-0.7)	0.4 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)	0.1 (0.1-0.1)	0.0 (0.0-0.1)
2	16 (10-22)	9.5 (6.0-13)	5.4 (3.4-7.4)	3.1 (1.9-4.2)	1.7 (1.1-2.4)	1.0 (0.6-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	24 (15-34)	14 (9.0-21)	8.2 (5.1-12)	4.7 (2.9-7.1)	2.6 (1.6-4.0)	1.5 (0.9-2.3)	0.8 (0.5-1.3)	0.5 (0.3-0.8)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
4	34 (25-46)	21 (15-30)	12 (8.6-18)	7.1 (4.9-11)	4.0 (2.7-6.1)	2.3 (1.5-3.4)	1.3 (0.9-2.0)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.2 (0.2-0.4)	0.1 (0.1-0.2)
5	46 (40-58)	30 (25-39)	18 (15-25)	10 (8.7-15)	6.0 (4.9-8.5)	3.4 (2.8-4.8)	1.9 (1.6-2.8)	1.1 (0.9-1.6)	0.7 (0.5-0.9)	0.4 (0.3-0.5)	0.2 (0.2-0.3)
6	60	41	26	15	8.9	5.1	2.9	1.7	1.0	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 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	8.7	5.2	3.0	1.8	1.0	0.6	0.4	0.2	0.1	0.1	0.1
1	13 (9.1-15)	7.8 (5.4-9.2)	4.6 (3.2-5.4)	2.7 (1.9-3.2)	1.6 (1.1-1.9)	0.9 (0.6-1.1)	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 (0.1-0.1)
2	19 (13-24)	12 (7.6-15)	6.9 (4.5-9.0)	4.1 (2.6-5.3)	2.4 (1.5-3.1)	1.4 (0.9-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.2)
3	27 (19-36)	17 (11-23)	10 (6.8-14)	6.1 (4.0-8.7)	3.6 (2.3-5.2)	2.1 (1.4-3.0)	1.3 (0.8-1.8)	0.8 (0.5-1.1)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	37 (29-48)	24 (18-33)	15 (11-21)	9.0 (6.6-13)	5.3 (3.9-7.8)	3.1 (2.3-4.6)	1.9 (1.4-2.8)	1.1 (0.8-1.7)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
5	48 (43-60)	33 (28-43)	21 (18-28)	13 (11-18)	7.8 (6.5-11)	4.6 (3.8-6.5)	2.8 (2.3-4.0)	1.7 (1.4-2.4)	1.0 (0.8-1.5)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	61	44	29	19	11	6.8	4.2	2.5	1.5	0.9	0.6

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	11	7.1	4.4	2.7	1.6	1.0	0.6	0.4	0.3	0.2	0.1
1	18 (16-22)	11 (9.9-14)	7.2 (6.1-9.1)	4.4 (3.8-5.6)	2.7 (2.3-3.4)	1.7 (1.4-2.1)	1.1 (0.9-1.4)	0.7 (0.6-0.9)	0.4 (0.4-0.5)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	28 (23-35)	18 (15-24)	12 (9.2-15)	7.2 (5.7-9.8)	4.5 (3.5-6.1)	2.8 (2.2-3.8)	1.8 (1.4-2.4)	1.1 (0.9-1.5)	0.7 (0.5-1.0)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
3	40 (33-48)	28 (22-34)	18 (14-23)	12 (8.6-15)	7.3 (5.3-9.5)	4.6 (3.3-6.0)	2.9 (2.1-3.9)	1.8 (1.3-2.5)	1.2 (0.8-1.6)	0.7 (0.5-1.0)	0.5 (0.3-0.6)
4	55 (45-61)	40 (32-46)	28 (21-33)	18 (14-22)	12 (8.6-14)	7.4 (5.4-9.2)	4.8 (3.5-5.9)	3.0 (2.2-3.8)	1.9 (1.4-2.4)	1.2 (0.9-1.5)	0.8 (0.6-1.0)
5	68 (61-71)	55 (46-59)	40 (33-44)	28 (22-31)	18 (14-21)	12 (9.3-14)	7.7 (6.0-8.9)	5.0 (3.8-5.7)	3.2 (2.5-3.7)	2.0 (1.6-2.3)	1.3 (1.0-1.5)
6	78	68	55	40	28	19	12	8.0	5.2	3.3	2.1

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	15	9.9	6.4	4.2	2.7	1.8	1.2	0.8	0.5	0.3	0.2
1	26 (20-47)	18 (14-35)	12 (9.0-25)	8.0 (5.8-17)	5.2 (3.8-11)	3.5 (2.5-7.5)	2.3 (1.7-5.0)	1.5 (1.1-3.3)	1.0 (0.7-2.2)	0.7 (0.5-1.5)	0.4 (0.3-1.0)
2	40 (27-61)	29 (19-49)	21 (13-37)	14 (8.2-26)	9.5 (5.3-18)	6.5 (3.5-12)	4.3 (2.4-8.5)	2.9 (1.6-5.7)	1.9 (1.0-3.8)	1.3 (0.7-2.6)	0.8 (0.5-1.7)
3	54 (37-71)	43 (27-61)	33 (18-48)	24 (12-36)	16 (8.0-26)	11 (5.4-18)	7.7 (3.6-13)	5.2 (2.4-8.7)	3.5 (1.6-5.9)	2.3 (1.0-4.0)	1.6 (0.7-2.7)
4	67 (49-77)	58 (37-69)	47 (26-59)	36 (18-47)	26 (12-35)	19 (8.3-26)	13 (5.6-19)	9.0 (3.8-13)	6.1 (2.5-8.9)	4.1 (1.7-6.0)	2.8 (1.1-4.1)
5	77 (60-82)	70 (49-76)	61 (38-68)	51 (28-56)	39 (19-45)	29 (13-34)	21 (9.3-25)	15 (6.3-18)	10 (4.3-12)	7.1 (2.9-8.5)	4.8 (1.9-5.7)
6	84	79	73	65	54	43	33	24	17	12	8.0

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	18	13	9.0	6.2	4.3	3.0	2.1	1.5	1.0	0.7	0.5
1	30 (23-52)	22 (17-42)	16 (12-32)	11 (8.1-23)	8.0 (5.6-17)	5.7 (3.9-12)	4.0 (2.8-8.8)	2.8 (1.9-6.2)	2.0 (1.3-4.4)	1.4 (0.9-3.1)	1.0 (0.6-2.1)
2	42 (31-63)	34 (22-53)	26 (16-43)	19 (11-34)	14 (7.8-25)	10 (5.5-19)	7.3 (3.9-14)	5.2 (2.7-10)	3.7 (1.9-7.2)	2.6 (1.3-5.1)	1.8 (0.9-3.6)
3	55 (39-71)	46 (30-63)	38 (22-54)	29 (16-44)	22 (11-35)	17 (8.2-27)	12 (5.8-20)	8.9 (4.1-15)	6.4 (2.9-11)	4.5 (2.0-7.7)	3.2 (1.4-5.4)
4	66 (48-76)	59 (39-70)	50 (31-63)	41 (23-54)	33 (17-44)	26 (12-35)	20 (8.7-27)	15 (6.2-21)	11 (4.4-15)	7.6 (3.1-11)	5.4 (2.2-8.0)
5	75 (58-80)	69 (49-75)	62 (40-68)	54 (32-60)	46 (24-52)	37 (18-43)	30 (13-35)	23 (9.8-27)	17 (7.0-21)	12 (5.0-15)	8.9 (3.6-11)
6	81	77	72	66	58	50	42	33	26	19	14

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	21	16	12	8.8	6.6	4.9	3.7	2.7	2.0	1.5	1.1
1	32 (26-54)	26 (20-46)	20 (15-38)	15 (11-30)	12 (8.5-24)	9.0 (6.4-19)	6.8 (4.8-15)	5.1 (3.6-11)	3.8 (2.6-8.4)	2.8 (1.9-6.2)	2.1 (1.4-4.6)
2	43 (32-63)	37 (25-56)	30 (20-48)	24 (15-40)	19 (12-33)	15 (8.8-27)	12 (6.7-21)	8.9 (5.0-17)	6.7 (3.7-13)	5.1 (2.7-9.7)	3.8 (2.0-7.3)
3	55 (39-70)	48 (32-64)	41 (26-57)	34 (20-49)	28 (16-42)	23 (12-36)	18 (9.3-29)	15 (7.1-23)	11 (5.3-18)	8.6 (4.0-14)	6.5 (3.0-11)
4	65 (47-75)	59 (40-70)	52 (33-64)	45 (27-57)	39 (21-51)	33 (17-44)	27 (13-37)	22 (10-31)	18 (7.9-25)	14 (6.0-19)	11 (4.5-15)
5	73 (57-78)	69 (50-74)	63 (42-69)	57 (35-63)	51 (29-57)	44 (24-51)	38 (19-44)	32 (15-37)	26 (12-31)	21 (9.0-25)	16 (6.8-20)
6	79	76	72	67	62	56	50	43	37	30	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	23	18	14	11	9.2	7.4	5.9	4.7	3.7	2.9	2.3
1	33 (27-54)	28 (22-48)	23 (18-42)	19 (14-36)	16 (12-31)	13 (9.6-26)	10 (7.6-22)	8.4 (6.1-18)	6.7 (4.8-15)	5.4 (3.8-12)	4.2 (3.0-9.3)
2	44 (32-63)	38 (27-57)	33 (22-51)	28 (18-46)	24 (15-40)	20 (12-35)	17 (9.9-30)	14 (8.0-25)	11 (6.4-21)	9.1 (5.1-17)	7.3 (4.1-14)
3	55 (39-69)	49 (34-65)	44 (28-59)	38 (23-54)	34 (20-48)	29 (16-43)	25 (14-38)	21 (11-33)	18 (8.9-28)	15 (7.1-23)	12 (5.7-19)
4	64 (47-74)	60 (41-70)	54 (35-66)	49 (30-61)	44 (26-56)	40 (22-51)	35 (18-46)	30 (15-41)	26 (12-35)	22 (10-30)	18 (8.2-26)
5	72 (57-77)	69 (51-74)	64 (45-70)	60 (39-66)	55 (34-62)	51 (29-57)	46 (25-52)	41 (21-47)	36 (18-42)	31 (15-36)	27 (12-31)
6	76	75	73	69	66	61	57	52	47	42	37