

Kuwait - 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 Kuwait. 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	10	5.3	2.7	1.4	0.7	0.4	0.2	0.1	0.1	0.0	0.0
1	16 (11-20)	8.5 (5.6-11)	4.4 (2.9-5.8)	2.3 (1.5-3.0)	1.2 (0.8-1.5)	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)	0.0 (0.0-0.0)
2	24 (15-35)	13 (7.8-20)	7.0 (4.1-11)	3.6 (2.1-5.5)	1.9 (1.1-2.9)	1.0 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)	0.0 (0.0-0.1)
3	35 (22-52)	20 (12-32)	11 (6.2-18)	5.7 (3.2-9.4)	3.0 (1.6-4.9)	1.5 (0.8-2.5)	0.8 (0.4-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
4	49 (35-67)	30 (19-44)	17 (10-26)	8.9 (5.5-14)	4.6 (2.8-7.4)	2.4 (1.4-3.8)	1.2 (0.7-2.0)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
5	65 (55-79)	42 (33-56)	25 (19-34)	14 (10-19)	7.1 (5.2-10)	3.7 (2.7-5.4)	1.9 (1.4-2.8)	1.0 (0.7-1.5)	0.5 (0.4-0.8)	0.3 (0.2-0.4)	0.1 (0.1-0.2)
6	80	58	36	20	11	5.7	2.9	1.5	0.8	0.4	0.2

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

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	11	6.1	3.3	1.8	1.0	0.5	0.3	0.2	0.1	0.1	0.0
1	17 (12-21)	9.5 (6.4-12)	5.2 (3.5-6.4)	2.8 (1.9-3.5)	1.5 (1.0-1.9)	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)
2	25 (16-35)	15 (8.9-21)	8.1 (4.9-12)	4.4 (2.7-6.4)	2.4 (1.4-3.5)	1.3 (0.8-1.9)	0.7 (0.4-1.0)	0.4 (0.2-0.6)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	36 (23-52)	22 (13-33)	12 (7.4-19)	6.9 (4.0-11)	3.7 (2.2-6.0)	2.0 (1.2-3.2)	1.1 (0.6-1.8)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
4	50 (37-66)	31 (22-45)	19 (12-28)	10 (6.9-16)	5.8 (3.7-9.0)	3.1 (2.0-4.9)	1.7 (1.1-2.7)	0.9 (0.6-1.5)	0.5 (0.3-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	65 (57-78)	44 (37-57)	27 (22-37)	16 (12-22)	8.8 (6.9-12)	4.8 (3.7-6.9)	2.6 (2.0-3.8)	1.5 (1.1-2.1)	0.8 (0.6-1.2)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	79	59	38	23	13	7.3	4.0	2.2	1.2	0.7	0.4

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	12	6.8	3.8	2.2	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	18 (12-21)	10 (7.1-12)	5.9 (4.0-7.0)	3.3 (2.3-4.0)	1.9 (1.3-2.2)	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)
2	26 (17-34)	16 (10-21)	9.0 (5.7-12)	5.2 (3.2-7.1)	2.9 (1.8-4.0)	1.6 (1.0-2.3)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.1)
3	37 (25-50)	23 (15-33)	14 (8.5-20)	7.8 (4.9-12)	4.5 (2.7-6.8)	2.5 (1.5-3.8)	1.4 (0.9-2.2)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.3)
4	50 (38-65)	33 (24-45)	20 (14-29)	12 (8.2-17)	6.7 (4.6-10)	3.8 (2.6-5.8)	2.2 (1.5-3.3)	1.3 (0.9-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.7)	0.2 (0.2-0.4)
5	64 (58-76)	45 (39-57)	29 (24-38)	17 (14-24)	10 (8.3-14)	5.7 (4.7-8.1)	3.3 (2.7-4.7)	1.9 (1.6-2.8)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	77	59	40	25	15	8.5	4.9	2.9	1.7	1.0	0.6

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

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	12	7.1	4.2	2.5	1.4	0.8	0.5	0.3	0.2	0.1	0.1
1	18 (13-21)	11 (7.5-13)	6.3 (4.4-7.5)	3.7 (2.6-4.5)	2.2 (1.5-2.6)	1.3 (0.9-1.5)	0.8 (0.5-0.9)	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	25 (17-32)	16 (10-20)	9.5 (6.2-12)	5.6 (3.6-7.4)	3.3 (2.1-4.3)	1.9 (1.2-2.5)	1.2 (0.7-1.5)	0.7 (0.5-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
3	35 (25-46)	23 (15-31)	14 (9.3-20)	8.4 (5.5-12)	5.0 (3.2-7.2)	2.9 (1.9-4.2)	1.8 (1.1-2.6)	1.1 (0.7-1.6)	0.6 (0.4-0.9)	0.4 (0.3-0.6)	0.2 (0.2-0.3)
4	47 (38-60)	32 (24-43)	20 (15-28)	12 (9.1-18)	7.4 (5.4-11)	4.4 (3.1-6.4)	2.6 (1.9-3.9)	1.6 (1.1-2.4)	1.0 (0.7-1.4)	0.6 (0.4-0.9)	0.4 (0.3-0.5)
5	60 (54-71)	43 (37-54)	28 (24-37)	18 (15-24)	11 (8.9-15)	6.4 (5.3-9.0)	3.9 (3.2-5.5)	2.4 (1.9-3.4)	1.4 (1.2-2.0)	0.9 (0.7-1.2)	0.5 (0.4-0.7)
6	73	56	39	25	16	9.4	5.8	3.5	2.1	1.3	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	12	7.3	4.5	2.7	1.7	1.0	0.7	0.4	0.3	0.2	0.1
1	19 (16-23)	12 (10-15)	7.4 (6.3-9.4)	4.6 (3.9-5.8)	2.8 (2.4-3.6)	1.7 (1.5-2.2)	1.1 (0.9-1.4)	0.7 (0.6-0.9)	0.4 (0.4-0.6)	0.3 (0.2-0.3)	0.2 (0.1-0.2)
2	29 (24-37)	19 (15-25)	12 (9.5-16)	7.5 (5.9-10)	4.6 (3.6-6.3)	2.9 (2.2-3.9)	1.8 (1.4-2.5)	1.1 (0.9-1.6)	0.7 (0.6-1.0)	0.5 (0.4-0.6)	0.3 (0.2-0.4)
3	42 (34-50)	29 (22-36)	19 (14-24)	12 (8.9-16)	7.6 (5.5-10)	4.8 (3.4-6.3)	3.0 (2.2-4.1)	1.9 (1.4-2.6)	1.2 (0.9-1.6)	0.8 (0.5-1.0)	0.5 (0.3-0.7)
4	57 (47-63)	42 (33-49)	29 (22-35)	19 (14-23)	12 (8.9-15)	7.7 (5.6-9.6)	5.0 (3.6-6.2)	3.2 (2.3-4.0)	2.0 (1.4-2.5)	1.3 (0.9-1.6)	0.8 (0.6-1.0)
5	71 (64-75)	57 (49-62)	42 (35-47)	29 (23-33)	19 (15-22)	12 (9.7-14)	8.1 (6.3-9.3)	5.2 (4.0-6.0)	3.3 (2.6-3.8)	2.1 (1.6-2.4)	1.3 (1.0-1.5)
6	81	71	57	42	29	20	13	8.4	5.4	3.4	2.2

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

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	12	7.5	4.9	3.1	2.0	1.3	0.9	0.6	0.4	0.2	0.2
1	21 (16-40)	14 (10-28)	9.4 (6.8-19)	6.1 (4.4-13)	3.9 (2.8-8.4)	2.6 (1.9-5.6)	1.7 (1.2-3.7)	1.1 (0.8-2.5)	0.8 (0.5-1.6)	0.5 (0.4-1.1)	0.3 (0.2-0.7)
2	34 (22-55)	24 (15-42)	17 (9.6-30)	11 (6.2-21)	7.3 (4.0-14)	4.9 (2.6-9.6)	3.3 (1.7-6.5)	2.2 (1.2-4.3)	1.4 (0.8-2.9)	0.9 (0.5-1.9)	0.6 (0.3-1.3)
3	49 (31-67)	38 (21-55)	27 (14-42)	19 (9.3-30)	13 (6.0-21)	8.7 (4.0-15)	5.9 (2.7-10)	4.0 (1.8-6.8)	2.6 (1.2-4.6)	1.7 (0.8-3.0)	1.2 (0.5-2.0)
4	64 (42-75)	53 (31-65)	41 (21-53)	30 (14-41)	21 (9.5-30)	15 (6.4-21)	10 (4.3-15)	6.9 (2.8-10)	4.7 (1.9-6.8)	3.1 (1.2-4.6)	2.1 (0.8-3.1)
5	76 (56-81)	68 (44-74)	57 (32-63)	45 (23-51)	33 (15-39)	24 (11-28)	17 (7.2-20)	12 (4.9-14)	8.0 (3.3-9.6)	5.4 (2.2-6.5)	3.6 (1.4-4.4)
6	84	79	72	61	48	37	27	19	13	9.1	6.1

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	12	8.0	5.4	3.7	2.5	1.7	1.2	0.8	0.6	0.4	0.3
1	20 (15-39)	15 (10-29)	10 (7.1-21)	7.0 (4.8-15)	4.8 (3.3-10)	3.4 (2.3-7.3)	2.4 (1.6-5.1)	1.6 (1.1-3.6)	1.1 (0.8-2.5)	0.8 (0.5-1.7)	0.5 (0.4-1.2)
2	32 (20-52)	24 (14-42)	17 (9.9-32)	12 (6.7-23)	8.6 (4.6-17)	6.2 (3.2-12)	4.3 (2.2-8.6)	3.0 (1.6-6.1)	2.1 (1.1-4.3)	1.5 (0.7-3.0)	1.0 (0.5-2.1)
3	45 (28-63)	36 (20-53)	28 (15-43)	20 (10-32)	15 (6.9-24)	11 (4.9-18)	7.6 (3.4-13)	5.4 (2.4-9.1)	3.8 (1.6-6.5)	2.6 (1.1-4.6)	1.8 (0.8-3.2)
4	59 (38-71)	50 (29-63)	40 (21-52)	31 (15-42)	23 (10-32)	17 (7.4-25)	13 (5.3-18)	9.1 (3.7-13)	6.5 (2.6-9.7)	4.6 (1.8-6.9)	3.2 (1.3-4.9)
5	70 (50-76)	63 (40-69)	54 (30-61)	44 (22-51)	35 (16-41)	27 (12-32)	20 (8.6-25)	15 (6.1-18)	11 (4.3-13)	7.6 (3.0-9.6)	5.4 (2.1-6.8)
6	79	74	67	58	49	39	31	23	17	12	8.9

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

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	12	8.7	6.2	4.5	3.3	2.4	1.8	1.3	0.9	0.7	0.5
1	20 (15-39)	15 (11-31)	11 (8.1-24)	8.3 (5.8-18)	6.2 (4.3-13)	4.6 (3.2-10)	3.4 (2.3-7.4)	2.5 (1.7-5.5)	1.8 (1.2-4.1)	1.4 (0.9-3.0)	1.0 (0.7-2.2)
2	31 (21-50)	25 (15-41)	19 (11-33)	14 (8.1-26)	11 (6.0-20)	8.2 (4.5-16)	6.1 (3.3-12)	4.6 (2.4-8.9)	3.4 (1.8-6.6)	2.5 (1.3-4.9)	1.8 (0.9-3.6)
3	43 (27-60)	36 (21-52)	29 (16-44)	22 (12-35)	18 (8.7-28)	14 (6.5-22)	10 (4.9-17)	7.8 (3.6-13)	5.8 (2.7-9.9)	4.3 (2.0-7.4)	3.2 (1.4-5.5)
4	55 (36-67)	48 (29-60)	41 (22-53)	33 (17-44)	27 (13-36)	21 (9.7-29)	17 (7.3-23)	13 (5.4-18)	9.7 (4.0-14)	7.3 (3.0-11)	5.5 (2.2-8.0)
5	67 (46-72)	60 (38-66)	53 (31-59)	45 (24-51)	38 (19-44)	32 (15-37)	25 (11-30)	20 (8.5-24)	16 (6.4-19)	12 (4.8-15)	8.9 (3.5-11)
6	76	71	65	58	51	44	37	30	24	18	14

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	12	9.2	7.0	5.4	4.2	3.3	2.6	2.0	1.6	1.2	0.9
1	20 (15-38)	16 (12-32)	12 (9.1-26)	9.8 (7.0-20)	7.8 (5.5-17)	6.2 (4.3-13)	4.9 (3.4-11)	3.8 (2.6-8.3)	3.0 (2.0-6.5)	2.3 (1.6-5.1)	1.8 (1.2-4.0)
2	30 (20-48)	25 (16-41)	20 (12-35)	16 (9.5-29)	13 (7.6-24)	11 (6.0-19)	8.4 (4.8-16)	6.7 (3.7-13)	5.3 (2.9-10)	4.1 (2.2-8.0)	3.2 (1.7-6.3)
3	41 (26-57)	35 (21-51)	30 (16-44)	25 (13-38)	21 (11-32)	17 (8.4-27)	14 (6.7-22)	11 (5.3-18)	8.9 (4.1-15)	7.1 (3.2-12)	5.6 (2.5-9.4)
4	53 (33-64)	47 (28-59)	41 (22-52)	35 (18-46)	30 (15-40)	25 (12-35)	21 (9.8-29)	17 (7.9-24)	14 (6.2-20)	11 (4.9-16)	9.1 (3.8-13)
5	63 (43-69)	58 (36-64)	52 (31-59)	46 (25-53)	41 (21-47)	36 (17-41)	31 (14-36)	26 (12-30)	22 (9.3-26)	18 (7.4-21)	14 (5.9-17)
6	73	68	64	58	53	48	42	37	31	26	22