

**Kuwait - The probabilities of a major osteoporotic fracture in women**

The following tables give the 10-year probability (%) of a major osteoporotic fracture (hip, clinical spine, forearm or proximal humerus 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/m<sup>2</sup>.

**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	14	8.9	6.1	4.4	3.5	2.8	2.4	2.2	2.1	2.0	1.9
1	21 (19-27)	14 (12-17)	9.3 (7.8-12)	6.8 (5.3-8.5)	5.2 (3.8-6.5)	4.3 (3.0-5.6)	3.6 (2.4-4.9)	3.3 (2.2-4.5)	3.1 (2.0-4.3)	3.0 (1.9-4.1)	2.8 (1.8-4.0)
2	31 (24-43)	20 (16-29)	14 (11-20)	10 (7.0-15)	7.8 (4.9-12)	6.4 (3.7-10)	5.4 (3.0-9.0)	4.8 (2.6-8.3)	4.6 (2.4-7.9)	4.4 (2.3-7.6)	4.2 (2.1-7.4)
3	44 (32-58)	30 (22-39)	21 (14-29)	15 (9.4-23)	11 (6.5-19)	9.3 (4.9-16)	7.8 (3.9-14)	7.1 (3.4-13)	6.7 (3.1-13)	6.4 (2.9-12)	6.1 (2.8-12)
4	59 (43-71)	41 (29-51)	29 (20-37)	21 (14-29)	16 (11-24)	13 (8.2-21)	11 (6.4-18)	10 (5.5-17)	9.5 (5.0-16)	9.1 (4.7-15)	8.7 (4.5-15)
5	73 (63-82)	55 (45-62)	40 (32-45)	30 (23-36)	23 (18-29)	19 (14-25)	16 (12-21)	14 (10-20)	13 (9.3-19)	13 (8.7-18)	12 (8.3-17)
6	86	70	53	40	32	26	22	19	18	17	17

Ten year probability of osteoporotic 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	16	10	7.3	5.4	4.2	3.4	2.9	2.6	2.4	2.3	2.2
1	23 (21-28)	16 (14-19)	11 (9.4-13)	8.2 (6.5-9.9)	6.3 (4.7-7.8)	5.1 (3.6-6.6)	4.3 (2.9-5.7)	3.9 (2.6-5.3)	3.6 (2.4-5.0)	3.4 (2.2-4.8)	3.2 (2.1-4.5)
2	34 (27-44)	23 (19-31)	16 (13-22)	12 (8.6-17)	9.3 (6.1-14)	7.5 (4.6-12)	6.3 (3.6-10)	5.7 (3.1-9.5)	5.3 (2.8-9.0)	5.0 (2.6-8.5)	4.7 (2.5-8.1)
3	46 (36-58)	33 (25-42)	24 (17-33)	17 (11-26)	14 (8.1-22)	11 (6.0-19)	9.1 (4.7-16)	8.3 (4.1-15)	7.7 (3.7-14)	7.2 (3.4-14)	6.8 (3.2-13)
4	61 (46-71)	45 (32-53)	33 (23-41)	25 (17-33)	19 (13-28)	15 (10-24)	13 (7.8-20)	12 (6.7-19)	11 (6.0-18)	10 (5.5-17)	9.7 (5.2-16)
5	75 (66-82)	59 (50-64)	44 (37-50)	34 (27-40)	27 (21-33)	21 (17-28)	18 (14-24)	16 (12-22)	15 (11-21)	14 (9.9-20)	13 (9.2-19)
6	86	72	58	45	36	29	24	22	21	19	18

**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	17	12	8.4	6.2	4.8	3.8	3.2	2.9	2.7	2.5	2.3
1	25 (23-29)	17 (16-20)	12 (11-14)	9.2 (7.4-11)	7.1 (5.4-8.7)	5.7 (4.1-7.3)	4.8 (3.3-6.4)	4.3 (2.9-5.9)	3.9 (2.6-5.5)	3.6 (2.4-5.1)	3.4 (2.2-4.8)
2	35 (30-45)	25 (21-32)	18 (14-24)	13 (9.8-18)	10 (7.0-15)	8.3 (5.2-13)	7.0 (4.1-11)	6.3 (3.6-10)	5.7 (3.1-9.5)	5.3 (2.9-8.9)	5.0 (2.6-8.3)
3	48 (38-57)	35 (27-44)	26 (19-35)	19 (13-28)	15 (9.3-23)	12 (6.9-20)	10 (5.4-17)	9.0 (4.6-16)	8.2 (4.1-15)	7.6 (3.7-14)	7.1 (3.4-13)
4	61 (49-70)	47 (36-54)	35 (26-43)	27 (19-35)	21 (15-29)	17 (11-25)	14 (8.9-22)	13 (7.6-20)	12 (6.6-19)	11 (6.0-18)	10 (5.5-17)
5	74 (68-80)	60 (53-65)	47 (40-52)	36 (30-42)	28 (24-35)	23 (19-29)	19 (15-26)	17 (13-24)	16 (11-22)	15 (10-21)	14 (9.4-19)
6	85	73	59	47	38	31	26	23	21	20	19

Ten year probability of osteoporotic 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	18	13	9.0	6.7	5.1	4.1	3.5	3.1	2.8	2.5	2.3
1	26 (24-29)	18 (16-21)	13 (11-15)	9.8 (8.0-11)	7.6 (5.8-9.3)	6.0 (4.4-7.6)	5.1 (3.6-6.8)	4.5 (3.1-6.2)	4.1 (2.7-5.7)	3.7 (2.5-5.2)	3.4 (2.2-4.8)
2	35 (30-43)	26 (22-32)	19 (15-24)	14 (11-19)	11 (7.6-15)	8.6 (5.6-13)	7.4 (4.5-11)	6.6 (3.8-10)	5.9 (3.3-9.5)	5.4 (3.0-8.8)	4.9 (2.7-8.1)
3	47 (39-54)	35 (29-44)	26 (20-35)	20 (14-29)	15 (10-24)	12 (7.5-20)	11 (6.0-18)	9.3 (5.0-16)	8.4 (4.3-15)	7.6 (3.8-14)	7.0 (3.4-13)
4	60 (49-66)	46 (37-53)	36 (27-44)	27 (21-36)	21 (16-30)	17 (12-25)	15 (9.8-22)	13 (8.1-20)	12 (7.0-19)	11 (6.1-17)	9.7 (5.5-16)
5	71 (67-76)	59 (53-63)	46 (41-52)	36 (32-43)	29 (25-35)	23 (19-30)	20 (16-26)	18 (13-24)	16 (12-22)	15 (10-20)	13 (9.2-19)
6	81	70	58	47	38	31	27	24	21	19	18

**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	18	13	9.7	7.3	5.6	4.5	3.8	3.3	3.0	2.6	2.4
1	27 (24-32)	19 (17-23)	14 (12-17)	11 (8.5-12)	8.0 (6.3-9.4)	6.3 (4.8-7.4)	5.4 (4.0-6.3)	4.6 (3.4-5.4)	4.1 (2.9-4.8)	3.6 (2.6-4.3)	3.3 (2.3-3.9)
2	38 (31-47)	28 (22-35)	20 (16-26)	15 (11-20)	11 (8.2-15)	9.0 (6.2-12)	7.5 (5.0-10)	6.4 (4.2-8.7)	5.6 (3.6-7.6)	5.0 (3.1-6.8)	4.5 (2.7-6.2)
3	51 (41-61)	39 (30-49)	29 (21-38)	22 (15-30)	16 (11-23)	13 (8.3-18)	10 (6.6-16)	8.9 (5.5-14)	7.7 (4.7-12)	6.8 (4.0-11)	6.0 (3.5-9.6)
4	64 (55-72)	52 (42-60)	40 (31-48)	30 (23-38)	23 (17-29)	18 (13-24)	14 (11-20)	12 (8.7-17)	10 (7.4-15)	9.1 (6.4-14)	8.1 (5.6-12)
5	76 (70-80)	65 (58-70)	53 (45-58)	41 (35-46)	31 (26-37)	24 (20-29)	20 (16-25)	17 (14-21)	14 (12-18)	12 (10-16)	11 (8.9-15)
6	84	77	66	54	42	33	27	22	19	16	14

Ten year probability of osteoporotic 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	19	14	11	8.2	6.3	5.2	4.5	3.8	3.4	3.0	2.6
1	29 (23-45)	22 (17-34)	16 (13-25)	12 (9.3-18)	9.3 (6.9-13)	7.5 (5.6-9.8)	6.2 (4.6-7.7)	5.3 (3.9-6.1)	4.5 (3.3-5.3)	3.9 (2.8-4.7)	3.5 (2.5-4.2)
2	42 (30-60)	32 (23-48)	24 (17-37)	18 (12-28)	14 (9.1-20)	11 (7.2-16)	8.8 (5.8-12)	7.3 (4.8-9.8)	6.2 (4.1-8.1)	5.3 (3.5-7.2)	4.6 (3.0-6.4)
3	56 (40-70)	45 (30-60)	35 (22-48)	27 (16-37)	20 (12-28)	16 (9.5-22)	13 (7.7-18)	10 (6.3-14)	8.4 (5.3-12)	7.1 (4.5-10)	6.1 (3.9-8.5)
4	69 (51-78)	59 (40-70)	48 (31-59)	38 (23-47)	29 (18-37)	23 (14-29)	18 (12-23)	14 (9.7-19)	12 (8.2-16)	9.6 (7.0-13)	8.1 (6.1-11)
5	78 (63-83)	71 (53-77)	62 (43-68)	52 (34-57)	41 (26-46)	32 (21-37)	25 (18-30)	20 (15-24)	16 (12-20)	13 (11-16)	11 (9.4-14)
6	85	81	74	65	54	44	36	28	22	18	15

**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	21	16	12	9.6	7.7	6.5	5.5	4.7	4.1	3.5	3.1
1	30 (24-45)	23 (18-36)	18 (14-27)	14 (11-21)	11 (8.2-16)	9.1 (6.7-12)	7.6 (5.6-9.8)	6.4 (4.7-7.9)	5.5 (4.0-6.4)	4.7 (3.4-5.4)	4.1 (2.9-4.7)
2	41 (30-57)	33 (24-48)	26 (18-39)	20 (14-30)	16 (11-24)	13 (8.7-19)	11 (7.1-15)	8.9 (5.9-12)	7.4 (4.9-9.9)	6.3 (4.2-8.2)	5.4 (3.6-7.2)
3	53 (39-67)	44 (31-58)	36 (24-49)	29 (18-39)	23 (14-31)	18 (11-25)	15 (9.4-21)	12 (7.8-17)	10 (6.5-14)	8.5 (5.5-12)	7.2 (4.7-10)
4	64 (48-74)	56 (39-67)	48 (31-58)	39 (25-48)	31 (19-39)	26 (16-32)	21 (13-27)	17 (11-22)	14 (9.5-18)	11 (8.1-15)	9.6 (7.0-13)
5	73 (58-79)	67 (50-73)	59 (41-66)	51 (34-57)	42 (28-48)	35 (23-41)	29 (19-34)	23 (16-28)	19 (14-23)	16 (12-19)	13 (10-16)
6	80	76	70	62	54	46	39	32	26	21	17

Ten year probability of osteoporotic 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	22	18	14	11	9.4	8.0	6.8	5.8	5.0	4.3	3.7
1	31 (24-46)	25 (19-38)	20 (15-30)	16 (12-24)	13 (9.7-19)	11 (8.1-16)	9.5 (6.8-13)	8.0 (5.7-10)	6.8 (4.8-8.5)	5.8 (4.1-7.0)	4.9 (3.5-5.7)
2	41 (31-55)	34 (25-48)	28 (20-40)	23 (16-33)	19 (13-27)	16 (11-23)	13 (8.7-19)	11 (7.3-15)	9.3 (6.1-13)	7.8 (5.1-10)	6.6 (4.3-8.7)
3	51 (38-64)	45 (32-57)	38 (26-50)	31 (20-42)	26 (17-35)	22 (14-30)	18 (12-25)	15 (9.6-21)	13 (8.0-18)	11 (6.8-15)	8.9 (5.7-12)
4	61 (47-71)	55 (40-65)	48 (33-58)	41 (27-50)	35 (23-44)	30 (19-37)	25 (16-32)	21 (14-27)	17 (12-23)	15 (9.8-19)	12 (8.3-16)
5	70 (55-76)	64 (48-71)	58 (41-65)	51 (35-58)	45 (30-52)	39 (26-46)	33 (22-40)	28 (19-34)	24 (16-29)	20 (14-24)	16 (12-20)
6	77	73	68	62	56	50	43	37	32	27	22

**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	19	15	13	11	9.2	7.9	6.7	5.7	4.9	4.2
1	31 (23-45)	26 (19-38)	21 (16-32)	18 (13-27)	15 (11-23)	13 (9.2-19)	11 (7.8-16)	9.4 (6.6-13)	8.0 (5.6-11)	6.8 (4.7-9.1)	5.7 (4.0-7.5)
2	40 (30-54)	34 (25-47)	29 (20-41)	25 (17-35)	21 (14-30)	18 (12-26)	15 (10-22)	13 (8.6-19)	11 (7.2-16)	9.4 (6.1-13)	7.9 (5.2-11)
3	49 (37-61)	44 (31-55)	38 (26-49)	33 (22-43)	29 (19-38)	25 (16-33)	21 (13-29)	18 (11-25)	15 (9.6-21)	13 (8.1-18)	11 (6.8-15)
4	59 (44-68)	53 (39-63)	47 (33-57)	42 (28-52)	37 (25-46)	33 (21-41)	29 (18-36)	25 (16-32)	21 (13-27)	18 (11-23)	15 (9.6-20)
5	67 (52-73)	62 (46-69)	57 (41-64)	52 (35-59)	47 (31-54)	42 (28-49)	37 (24-44)	33 (21-39)	29 (18-34)	24 (16-30)	21 (14-26)
6	74	71	66	62	57	52	47	42	37	33	28