

**Turkey - The probabilities of a major osteoporotic fracture in men**

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 Turkey. 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	28	18	12	8.1	6.0	4.7	3.8	3.3	2.9	2.8	2.7
1	41 (34-50)	27 (24-33)	18 (16-22)	12 (10-16)	9.1 (7.1-11)	7.1 (5.2-8.8)	5.8 (4.0-7.5)	4.9 (3.3-6.6)	4.4 (2.9-6.0)	4.2 (2.7-5.7)	4.0 (2.5-5.5)
2	55 (44-70)	38 (31-51)	26 (21-36)	18 (14-25)	13 (9.4-19)	10 (6.7-16)	8.5 (5.1-14)	7.2 (4.0-12)	6.5 (3.5-11)	6.1 (3.2-11)	5.8 (3.0-10)
3	70 (55-83)	52 (39-65)	37 (27-47)	26 (19-37)	20 (13-30)	15 (8.9-25)	12 (6.7-21)	10 (5.3-19)	9.3 (4.5-17)	8.8 (4.2-17)	8.4 (3.9-16)
4	82 (70-90)	67 (51-78)	50 (36-59)	37 (25-46)	28 (19-37)	21 (14-31)	18 (11-27)	15 (8.6-24)	13 (7.3-22)	12 (6.7-21)	12 (6.3-20)
5	90 (86-93)	80 (71-86)	64 (53-71)	49 (39-55)	38 (29-44)	30 (23-37)	24 (19-32)	21 (16-28)	18 (14-25)	17 (12-24)	16 (11-23)
6	94	89	77	63	50	40	33	28	25	23	22

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

**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	24	15	10	7.3	5.4	4.2	3.4	2.9	2.6	2.4	2.3
1	34 (29-40)	23 (21-27)	16 (14-19)	11 (9.2-13)	8.1 (6.4-9.9)	6.3 (4.7-7.8)	5.1 (3.6-6.6)	4.3 (2.9-5.7)	3.8 (2.5-5.2)	3.6 (2.3-5.0)	3.4 (2.2-4.7)
2	47 (38-59)	33 (27-43)	23 (19-30)	16 (12-22)	12 (8.5-17)	9.3 (6.1-14)	7.5 (4.5-12)	6.2 (3.6-10)	5.6 (3.1-9.4)	5.2 (2.8-8.8)	4.9 (2.6-8.4)
3	61 (48-73)	45 (34-55)	32 (24-41)	23 (17-32)	17 (11-26)	13 (8.1-22)	11 (6.0-18)	9.0 (4.7-16)	8.1 (4.0-15)	7.5 (3.6-14)	7.1 (3.3-13)
4	74 (61-83)	58 (45-68)	44 (32-51)	32 (23-40)	24 (17-33)	19 (13-27)	15 (9.9-23)	13 (7.7-20)	11 (6.5-19)	11 (5.8-18)	9.9 (5.3-17)
5	84 (79-89)	72 (63-78)	56 (48-62)	43 (35-48)	33 (27-39)	26 (21-32)	21 (17-27)	18 (14-24)	16 (12-22)	15 (10-21)	14 (9.6-19)
6	91	83	70	56	44	35	28	24	21	20	19

**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	12	8.7	6.4	4.8	3.8	3.1	2.6	2.3	2.1	2.0
1	26 (23-30)	18 (17-21)	13 (11-15)	9.4 (7.8-11)	7.1 (5.6-8.4)	5.6 (4.2-7.0)	4.5 (3.2-5.9)	3.8 (2.6-5.1)	3.4 (2.3-4.7)	3.2 (2.1-4.4)	2.9 (1.9-4.1)
2	36 (30-45)	26 (21-33)	19 (15-24)	14 (11-18)	10 (7.4-14)	8.2 (5.4-12)	6.6 (4.1-10)	5.5 (3.2-8.8)	5.0 (2.8-8.1)	4.6 (2.5-7.6)	4.3 (2.3-7.2)
3	48 (38-57)	36 (28-43)	26 (20-34)	19 (14-27)	15 (10-22)	12 (7.2-19)	9.4 (5.4-16)	7.8 (4.3-14)	7.1 (3.7-13)	6.5 (3.2-12)	6.1 (2.9-11)
4	60 (49-69)	47 (36-54)	35 (26-42)	27 (20-34)	21 (15-28)	16 (12-24)	13 (8.8-20)	11 (6.8-17)	9.9 (5.8-16)	9.1 (5.2-15)	8.5 (4.7-14)
5	72 (66-77)	59 (52-64)	46 (40-51)	36 (30-41)	28 (23-34)	22 (18-28)	18 (15-24)	15 (12-20)	14 (10-19)	13 (8.9-18)	12 (8.1-17)
6	81	70	58	46	37	30	24	20	18	17	16

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

**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	15	11	7.9	6.0	4.7	3.7	3.0	2.5	2.3	2.1	1.9
1	21 (19-24)	15 (14-17)	11 (9.7-13)	8.7 (7.0-9.9)	6.7 (5.2-8.1)	5.4 (4.0-6.8)	4.4 (3.1-5.7)	3.7 (2.5-5.0)	3.3 (2.2-4.6)	3.0 (2.0-4.3)	2.8 (1.8-4.0)
2	29 (24-35)	22 (18-26)	16 (13-20)	12 (9.4-16)	9.6 (6.9-13)	7.7 (5.2-11)	6.3 (4.0-9.5)	5.3 (3.2-8.3)	4.8 (2.7-7.7)	4.3 (2.4-7.1)	4.0 (2.2-6.7)
3	38 (31-45)	29 (23-36)	22 (18-29)	17 (13-24)	13 (9.3-20)	11 (6.9-17)	8.8 (5.3-14)	7.4 (4.2-13)	6.7 (3.6-12)	6.1 (3.2-11)	5.6 (2.8-10)
4	48 (40-55)	38 (30-44)	30 (23-36)	23 (18-30)	18 (14-25)	15 (11-21)	12 (8.2-18)	10 (6.5-16)	9.2 (5.6-15)	8.4 (4.9-14)	7.7 (4.3-13)
5	58 (53-63)	48 (43-53)	38 (33-44)	31 (26-37)	24 (21-30)	20 (16-26)	16 (13-22)	14 (11-19)	12 (9.3-17)	11 (8.1-16)	10 (7.3-15)
6	67	58	48	39	32	26	21	18	16	15	14

**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	15	11	8.4	6.5	5.1	4.0	3.3	2.8	2.5	2.2	2.0
1	21 (17-26)	16 (13-20)	12 (9.6-15)	9.2 (7.2-11)	7.2 (5.5-8.8)	5.7 (4.2-6.9)	4.6 (3.3-5.5)	3.9 (2.8-4.6)	3.4 (2.4-4.0)	3.0 (2.1-3.6)	2.7 (1.9-3.3)
2	29 (23-36)	22 (17-28)	17 (13-22)	13 (9.7-17)	10 (7.4-14)	8.0 (5.6-11)	6.4 (4.3-8.8)	5.3 (3.5-7.4)	4.6 (3.0-6.5)	4.1 (2.6-5.8)	3.7 (2.3-5.2)
3	38 (30-47)	30 (23-38)	24 (18-31)	18 (13-25)	14 (9.9-20)	11 (7.5-16)	8.8 (5.8-13)	7.3 (4.7-11)	6.3 (3.9-9.7)	5.6 (3.4-8.6)	5.0 (3.0-7.8)
4	48 (39-56)	40 (31-47)	32 (24-39)	25 (19-32)	20 (14-25)	15 (11-21)	12 (8.5-17)	10 (6.9-14)	8.6 (5.8-12)	7.5 (5.0-11)	6.6 (4.4-10)
5	58 (50-63)	49 (42-56)	41 (34-47)	33 (27-39)	26 (21-32)	21 (17-26)	17 (13-21)	14 (11-18)	12 (9.2-15)	10 (8.0-14)	8.8 (7.1-12)
6	66	59	51	43	35	28	22	18	15	13	11

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

**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	12	9.2	7.2	5.7	4.5	3.6	3.1	2.7	2.4	2.1
1	23 (17-38)	18 (13-31)	14 (10-24)	11 (7.9-19)	8.7 (6.1-14)	6.8 (4.8-11)	5.4 (3.8-8.2)	4.5 (3.1-6.5)	3.8 (2.6-5.2)	3.3 (2.3-4.3)	2.9 (2.0-3.5)
2	32 (22-48)	26 (18-40)	21 (14-32)	17 (11-25)	13 (8.3-20)	10 (6.4-15)	8.0 (5.0-12)	6.5 (4.1-9.6)	5.4 (3.4-7.7)	4.6 (2.9-6.4)	4.0 (2.5-5.4)
3	43 (29-56)	36 (23-49)	30 (18-41)	24 (14-33)	19 (11-27)	15 (8.7-21)	12 (6.8-17)	9.5 (5.5-14)	7.8 (4.6-11)	6.5 (3.9-9.4)	5.5 (3.3-7.9)
4	53 (37-64)	46 (30-57)	39 (24-49)	33 (20-42)	27 (15-35)	21 (12-28)	17 (9.5-22)	14 (7.8-18)	11 (6.5-15)	9.1 (5.5-12)	7.6 (4.7-10)
5	63 (45-69)	57 (38-64)	50 (32-57)	43 (26-50)	36 (21-43)	30 (17-35)	24 (14-29)	19 (11-24)	16 (9.6-20)	13 (8.3-16)	11 (7.1-14)
6	72	66	60	53	46	39	32	27	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	15	12	9.8	7.9	6.4	5.2	4.3	3.7	3.2	2.8	2.5
1	22 (16-37)	18 (13-31)	15 (11-25)	12 (8.4-20)	9.6 (6.7-16)	7.7 (5.4-13)	6.3 (4.3-10)	5.3 (3.6-8.4)	4.6 (3.1-6.9)	3.9 (2.7-5.7)	3.4 (2.3-4.7)
2	31 (21-46)	26 (17-40)	21 (14-33)	17 (11-27)	14 (9.0-22)	11 (7.2-18)	9.3 (5.8-14)	7.8 (4.9-12)	6.6 (4.1-9.8)	5.6 (3.5-8.1)	4.8 (3.0-6.8)
3	41 (27-54)	35 (22-48)	30 (18-41)	25 (15-35)	20 (12-29)	16 (9.8-24)	13 (7.9-19)	11 (6.6-16)	9.4 (5.5-13)	7.9 (4.7-11)	6.7 (4.0-9.4)
4	51 (34-62)	45 (28-56)	39 (24-49)	33 (20-43)	28 (16-36)	23 (13-31)	19 (11-25)	16 (9.0-21)	13 (7.6-18)	11 (6.4-15)	9.3 (5.5-12)
5	61 (42-67)	55 (36-62)	49 (31-56)	43 (26-50)	37 (21-43)	31 (17-37)	26 (14-32)	22 (12-27)	19 (10-23)	16 (8.9-19)	13 (7.7-16)
6	70	65	60	54	47	41	35	30	25	21	18

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

**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	14	12	10	8.6	7.2	6.0	5.1	4.5	4.0	3.6	3.2
1	21 (15-34)	18 (13-29)	15 (10-25)	13 (8.6-21)	10 (7.2-17)	8.8 (5.9-14)	7.5 (5.0-12)	6.5 (4.3-10)	5.7 (3.8-8.8)	5.0 (3.3-7.5)	4.4 (2.9-6.4)
2	29 (19-43)	25 (16-38)	21 (14-32)	18 (11-28)	15 (9.4-23)	13 (7.8-20)	11 (6.6-17)	9.3 (5.7-14)	8.1 (5.0-12)	7.0 (4.3-10)	6.1 (3.8-8.9)
3	38 (25-51)	33 (21-45)	29 (18-40)	25 (15-35)	21 (12-30)	18 (10-25)	15 (8.8-22)	13 (7.6-19)	11 (6.6-16)	9.8 (5.8-14)	8.5 (5.0-12)
4	47 (31-58)	42 (27-53)	38 (23-47)	33 (20-42)	28 (17-37)	24 (14-32)	21 (12-28)	18 (10-24)	16 (8.9-21)	14 (7.7-18)	12 (6.7-16)
5	57 (39-63)	52 (34-59)	47 (29-54)	42 (25-49)	37 (22-44)	32 (18-39)	28 (16-34)	25 (14-30)	22 (12-27)	19 (11-23)	16 (9.3-21)
6	66	62	57	52	47	42	37	33	29	25	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	14	12	10	8.9	7.6	6.4	5.7	5.1	4.5	4.0	3.6
1	20 (14-32)	17 (12-28)	15 (11-24)	13 (8.9-21)	11 (7.6-18)	9.3 (6.4-15)	8.2 (5.6-13)	7.3 (4.9-11)	6.5 (4.3-10)	5.7 (3.8-8.8)	5.1 (3.4-7.7)
2	27 (19-40)	24 (16-36)	21 (14-32)	18 (12-28)	16 (10-24)	13 (8.6-20)	12 (7.5-18)	10 (6.6-16)	9.2 (5.8-14)	8.2 (5.1-12)	7.2 (4.5-11)
3	36 (24-48)	32 (21-44)	29 (18-39)	25 (16-35)	22 (13-31)	19 (11-27)	17 (10-24)	15 (8.9-21)	13 (7.8-19)	12 (6.9-16)	10 (6.1-14)
4	46 (30-56)	42 (27-51)	37 (23-47)	33 (20-43)	30 (18-38)	26 (15-34)	23 (13-30)	21 (12-27)	18 (11-24)	16 (9.3-22)	14 (8.2-19)
5	55 (38-61)	51 (34-58)	47 (30-54)	43 (26-50)	39 (23-45)	35 (20-41)	31 (18-37)	28 (16-34)	25 (14-30)	22 (13-27)	20 (11-25)
6	63	60	57	53	49	44	41	37	34	30	27