

Turkey - 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 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/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	23	15	10	7.5	5.8	4.7	4.0	3.6	3.4	3.3	3.2
1	34 (30-42)	23 (20-28)	15 (13-19)	11 (9.0-14)	8.7 (6.5-11)	7.1 (5.0-9.2)	6.0 (4.1-8.0)	5.4 (3.6-7.4)	5.2 (3.4-7.1)	4.9 (3.2-6.8)	4.7 (3.0-6.6)
2	48 (38-63)	33 (27-45)	23 (18-31)	17 (12-23)	13 (8.3-19)	11 (6.3-17)	8.9 (5.0-15)	8.0 (4.3-14)	7.6 (4.0-13)	7.2 (3.8-12)	6.9 (3.6-12)
3	63 (49-78)	46 (35-58)	33 (24-45)	24 (16-36)	19 (11-30)	15 (8.2-26)	13 (6.5-23)	12 (5.6-21)	11 (5.2-20)	10 (4.8-20)	10 (4.6-19)
4	78 (62-88)	60 (44-71)	45 (31-55)	34 (23-45)	26 (18-38)	21 (14-33)	18 (11-29)	16 (9.2-27)	15 (8.4-25)	15 (7.8-25)	14 (7.5-24)
5	89 (82-94)	75 (65-82)	59 (49-64)	46 (36-53)	36 (28-44)	30 (23-38)	25 (19-33)	23 (17-31)	21 (15-29)	20 (14-28)	20 (14-27)
6	95	87	73	59	48	40	34	30	29	27	26

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	20	14	9.6	7.1	5.6	4.5	3.8	3.5	3.2	3.0	2.9
1	29 (27-35)	20 (18-24)	14 (12-17)	11 (8.5-13)	8.3 (6.2-10)	6.8 (4.8-8.8)	5.6 (3.9-7.6)	5.2 (3.5-7.1)	4.8 (3.2-6.7)	4.5 (3.0-6.3)	4.3 (2.8-6.0)
2	42 (35-54)	29 (24-39)	21 (16-28)	16 (11-22)	12 (8.0-18)	9.9 (6.0-15)	8.3 (4.8-13)	7.6 (4.2-13)	7.0 (3.8-12)	6.6 (3.5-11)	6.3 (3.3-11)
3	56 (44-68)	41 (32-51)	30 (22-41)	22 (15-34)	18 (11-28)	14 (7.9-24)	12 (6.2-21)	11 (5.4-20)	10 (4.9-19)	9.5 (4.5-18)	9.0 (4.2-17)
4	71 (56-81)	54 (40-63)	41 (29-51)	31 (22-42)	25 (17-35)	20 (13-30)	17 (10-26)	15 (8.9-25)	14 (8.0-23)	13 (7.3-22)	13 (6.9-21)
5	83 (76-89)	69 (60-75)	54 (46-60)	42 (35-49)	34 (27-41)	28 (22-35)	23 (18-31)	21 (16-29)	20 (14-27)	19 (13-26)	18 (12-25)
6	92	82	68	55	45	37	31	29	27	25	24

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	13	9.1	6.9	5.4	4.4	3.7	3.4	3.1	2.9	2.7
1	26 (24-30)	19 (17-21)	14 (11-16)	10 (8.1-12)	8.0 (6.0-10)	6.5 (4.6-8.5)	5.5 (3.8-7.4)	5.0 (3.4-6.9)	4.6 (3.1-6.4)	4.3 (2.8-6.0)	4.0 (2.6-5.6)
2	37 (31-47)	27 (22-34)	20 (15-25)	15 (11-20)	12 (7.7-17)	9.4 (5.8-14)	8.1 (4.7-13)	7.3 (4.1-12)	6.7 (3.7-11)	6.2 (3.3-10)	5.8 (3.1-9.7)
3	50 (40-59)	37 (29-47)	28 (20-38)	21 (14-32)	17 (10-27)	13 (7.7-23)	12 (6.2-20)	10 (5.3-19)	9.6 (4.7-17)	8.9 (4.3-16)	8.3 (4.0-15)
4	64 (51-72)	49 (37-57)	38 (28-47)	29 (21-39)	23 (17-33)	19 (13-28)	16 (10-25)	15 (8.7-23)	13 (7.7-22)	12 (7.0-21)	12 (6.4-19)
5	77 (71-82)	63 (56-67)	50 (43-56)	39 (33-47)	32 (26-39)	26 (21-33)	22 (17-29)	20 (15-27)	18 (13-25)	17 (12-24)	16 (11-22)
6	87	76	63	51	42	34	30	27	25	23	22

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	18	13	9.7	7.4	5.8	4.7	4.1	3.7	3.3	3.1	2.8
1	26 (24-29)	19 (17-21)	14 (12-16)	11 (8.5-13)	8.5 (6.4-11)	6.9 (5.0-9.0)	6.0 (4.2-8.1)	5.4 (3.7-7.4)	4.9 (3.3-6.9)	4.5 (3.0-6.3)	4.1 (2.7-5.9)
2	36 (31-44)	27 (22-33)	20 (16-26)	16 (11-21)	12 (8.2-18)	9.9 (6.2-15)	8.7 (5.2-14)	7.8 (4.5-12)	7.1 (3.9-11)	6.5 (3.5-11)	6.0 (3.2-9.8)
3	48 (39-57)	36 (29-47)	28 (21-39)	22 (15-32)	17 (11-27)	14 (8.2-23)	12 (6.8-21)	11 (5.8-19)	10 (5.1-18)	9.2 (4.6-17)	8.5 (4.1-15)
4	60 (49-67)	48 (38-57)	38 (29-48)	30 (22-40)	24 (18-34)	19 (13-29)	17 (11-26)	15 (9.4-24)	14 (8.2-22)	13 (7.3-21)	12 (6.6-19)
5	73 (67-76)	60 (55-66)	49 (43-56)	39 (34-47)	32 (27-40)	26 (22-34)	23 (18-31)	21 (15-28)	19 (14-26)	17 (12-24)	16 (11-23)
6	83	72	61	50	42	35	31	28	25	23	22

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	22	16	12	9.2	7.1	5.8	5.0	4.4	3.9	3.5	3.2
1	31 (28-37)	23 (20-28)	17 (14-21)	13 (11-16)	10 (7.9-12)	8.1 (6.2-9.5)	7.0 (5.2-8.1)	6.1 (4.4-7.1)	5.4 (3.8-6.4)	4.8 (3.4-5.7)	4.3 (3.0-5.2)
2	43 (36-53)	33 (26-41)	25 (19-32)	19 (14-24)	14 (10-19)	11 (7.8-15)	9.7 (6.4-13)	8.4 (5.4-11)	7.4 (4.7-10)	6.6 (4.1-9.0)	5.9 (3.6-8.2)
3	57 (46-67)	45 (34-56)	34 (25-45)	26 (18-36)	20 (14-28)	16 (10-23)	13 (8.5-20)	11 (7.1-18)	10 (6.1-16)	8.9 (5.3-14)	8.0 (4.7-13)
4	70 (60-77)	58 (48-66)	46 (36-55)	36 (27-44)	28 (21-36)	22 (16-29)	18 (13-25)	16 (11-22)	13 (9.6-20)	12 (8.4-18)	11 (7.4-16)
5	80 (74-83)	70 (63-75)	59 (51-65)	47 (41-53)	37 (31-43)	30 (25-36)	25 (21-31)	21 (18-27)	18 (15-23)	16 (13-21)	14 (12-19)
6	86	80	71	60	49	40	33	28	24	21	18

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	27	20	15	11	8.8	7.2	6.1	5.2	4.5	4.0	3.5
1	39 (32-58)	30 (24-46)	23 (18-35)	17 (13-26)	13 (9.9-19)	10 (7.9-14)	8.6 (6.4-11)	7.3 (5.3-8.6)	6.2 (4.5-7.1)	5.3 (3.9-6.3)	4.7 (3.4-5.6)
2	53 (41-71)	43 (31-60)	33 (24-49)	25 (18-38)	19 (13-29)	15 (10-22)	12 (8.2-17)	10 (6.7-14)	8.5 (5.6-11)	7.2 (4.8-9.7)	6.2 (4.1-8.6)
3	66 (52-78)	56 (41-71)	46 (31-60)	36 (23-49)	28 (17-39)	22 (14-31)	18 (11-25)	14 (8.9-20)	12 (7.4-16)	9.8 (6.2-14)	8.3 (5.4-12)
4	76 (63-83)	69 (52-78)	60 (41-70)	49 (32-60)	39 (25-49)	31 (20-39)	25 (16-32)	20 (13-26)	16 (11-21)	13 (9.6-18)	11 (8.3-15)
5	83 (72-86)	78 (64-83)	72 (54-77)	63 (45-69)	52 (35-59)	43 (29-49)	35 (24-40)	28 (20-33)	22 (17-27)	18 (15-22)	15 (13-19)
6	87	84	80	74	66	56	47	38	31	25	20

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	30	24	18	14	11	9.5	8.0	6.8	5.9	5.1	4.4
1	42 (35-61)	34 (27-50)	27 (21-40)	21 (16-31)	17 (12-24)	14 (10-19)	11 (8.3-15)	9.5 (6.9-12)	8.0 (5.8-9.8)	6.8 (4.9-8.0)	5.9 (4.2-6.7)
2	54 (43-70)	46 (35-62)	37 (27-53)	30 (21-43)	24 (16-35)	19 (13-28)	16 (11-23)	13 (8.8-18)	11 (7.3-15)	9.2 (6.1-12)	7.8 (5.2-10)
3	65 (52-77)	57 (43-71)	49 (35-63)	40 (27-54)	33 (21-44)	27 (17-37)	22 (14-30)	18 (12-25)	15 (9.6-21)	13 (8.1-17)	11 (6.8-14)
4	74 (61-81)	68 (52-77)	61 (44-71)	52 (35-63)	44 (28-54)	37 (24-46)	31 (20-38)	25 (16-32)	21 (14-27)	17 (12-22)	14 (10-19)
5	80 (69-84)	76 (62-81)	71 (54-76)	64 (46-70)	56 (38-62)	48 (33-55)	41 (28-47)	34 (23-40)	28 (20-33)	23 (17-28)	19 (15-23)
6	85	82	78	73	67	60	52	45	37	31	26

Ten year probability of osteoporotic fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in women 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	33	27	22	18	15	13	11	9.6	8.3	7.2	6.3
1	43 (35-59)	36 (28-51)	30 (23-43)	25 (18-36)	21 (15-30)	18 (13-25)	15 (11-20)	13 (9.3-17)	11 (7.9-14)	9.6 (6.7-12)	8.2 (5.8-9.6)
2	53 (42-67)	46 (36-61)	40 (29-53)	33 (24-46)	28 (20-39)	24 (17-34)	21 (14-29)	18 (12-24)	15 (9.9-20)	13 (8.4-17)	11 (7.2-14)
3	62 (50-74)	56 (44-68)	50 (37-62)	43 (30-55)	37 (25-48)	32 (22-42)	28 (18-37)	24 (15-31)	20 (13-27)	17 (11-23)	14 (9.4-20)
4	71 (58-78)	65 (52-74)	60 (45-69)	53 (38-63)	47 (33-57)	42 (29-51)	36 (24-45)	31 (21-39)	27 (18-34)	23 (15-29)	19 (13-25)
5	77 (65-81)	73 (59-78)	68 (53-74)	63 (46-69)	57 (41-64)	52 (36-59)	46 (32-53)	40 (28-47)	35 (24-41)	30 (21-36)	25 (19-31)
6	81	79	76	71	67	62	56	50	44	38	33

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	32	27	22	18	16	14	12	10	8.8	7.6	6.6
1	41 (32-55)	35 (27-48)	30 (22-41)	25 (18-35)	22 (16-30)	19 (13-26)	16 (12-22)	14 (9.8-18)	12 (8.4-15)	10 (7.2-13)	8.8 (6.1-11)
2	51 (40-64)	45 (34-58)	39 (28-51)	33 (24-45)	29 (20-40)	25 (17-35)	22 (15-30)	19 (13-26)	16 (11-22)	14 (9.1-19)	12 (7.7-16)
3	60 (48-71)	54 (41-66)	48 (35-60)	43 (30-54)	38 (26-49)	33 (22-43)	29 (19-38)	25 (16-33)	22 (14-29)	19 (12-25)	16 (10-22)
4	68 (56-76)	63 (50-72)	58 (44-67)	53 (38-62)	48 (34-57)	43 (29-52)	38 (26-47)	33 (22-41)	29 (19-36)	25 (17-32)	21 (14-28)
5	74 (63-79)	71 (58-76)	67 (52-73)	62 (46-69)	58 (42-65)	53 (38-60)	48 (33-55)	43 (29-50)	38 (26-44)	33 (23-39)	28 (20-34)
6	78	77	74	71	67	63	58	53	48	42	37