Turkey - 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 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	17	9.3	4.8	2.5	1.3	0.7	0.3	0.2	0.1	0.1	0.0
1	27 (18-33)	15 (9.7-19)	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)
2	39 (25-53)	22 (14-32)	12 (7.1-18)	6.4 (3.7-9.6)	3.3 (1.9-5.0)	1.7 (1.0-2.6)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)	0.1 (0.0-0.1)
3	54 (35-73)	33 (20-49)	19 (11-29)	10 (5.6-16)	5.2 (2.9-8.6)	2.7 (1.5-4.5)	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)
4	69 (53-86)	46 (32-64)	28 (18-41)	15 (9.5-24)	8.1 (5.0-13)	4.2 (2.6-6.7)	2.2 (1.3-3.5)	1.1 (0.7-1.8)	0.6 (0.4-1.0)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
5	84 (75-93)	62 (51-76)	40 (31-53)	23 (17-32)	12 (9.1-18)	6.5 (4.8-9.5)	3.4 (2.5-4.9)	1.8 (1.3-2.6)	0.9 (0.7-1.4)	0.5 (0.4-0.7)	0.3 (0.2-0.4)
6	93	78	54	33	19	9.9	5.2	2.7	1.5	0.8	0.4

Ten year probability of hip 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	14	7.8	4.2	2.3	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	21 (15-26)	12 (8.2-15)	6.7 (4.5-8.2)	3.6 (2.4-4.5)	2.0 (1.3-2.4)	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	31 (20-43)	18 (11-26)	10 (6.3-15)	5.7 (3.4-8.3)	3.1 (1.8-4.5)	1.7 (1.0-2.4)	0.9 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	44 (29-62)	27 (17-40)	16 (9.4-24)	8.8 (5.2-14)	4.8 (2.8-7.7)	2.6 (1.5-4.2)	1.4 (0.8-2.3)	0.8 (0.5-1.3)	0.4 (0.3-0.7)	0.2 (0.1-0.4)	0.1 (0.1-0.2)
4	59 (45-76)	39 (27-54)	23 (16-35)	13 (8.8-20)	7.4 (4.8-12)	4.1 (2.6-6.4)	2.2 (1.4-3.5)	1.2 (0.8-1.9)	0.7 (0.4-1.1)	0.4 (0.2-0.6)	0.2 (0.1-0.3)
5	74 (67-86)	53 (45-67)	34 (28-45)	20 (16-28)	11 (8.9-16)	6.2 (4.9-8.9)	3.4 (2.6-4.9)	1.9 (1.5-2.7)	1.1 (0.8-1.5)	0.6 (0.5-0.9)	0.3 (0.3-0.5)
6	87	69	47	29	17	9.4	5.1	2.9	1.6	0.9	0.5

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	6.6	3.7	2.1	1.2	0.7	0.4	0.2	0.1	0.1	0.0
1	17 (12-21)	10 (6.9-12)	5.8 (3.9-6.9)	3.3 (2.2-3.9)	1.8 (1.2-2.2)	1.0 (0.7-1.2)	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)	15 (9.7-21)	8.9 (5.5-12)	5.0 (3.1-7.0)	2.8 (1.8-3.9)	1.6 (1.0-2.2)	0.9 (0.6-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)	0.1 (0.1-0.1)
3	37 (24-51)	23 (14-33)	13 (8.3-20)	7.7 (4.7-12)	4.4 (2.7-6.7)	2.5 (1.5-3.8)	1.4 (0.8-2.2)	0.8 (0.5-1.3)	0.5 (0.3-0.7)	0.3 (0.2-0.4)	0.2 (0.1-0.2)
4	50 (38-65)	32 (24-45)	20 (14-29)	12 (8.0-17)	6.6 (4.6-10)	3.7 (2.6-5.7)	2.1 (1.5-3.3)	1.2 (0.8-1.9)	0.7 (0.5-1.1)	0.4 (0.3-0.6)	0.2 (0.2-0.4)
5	64 (58-77)	45 (39-57)	28 (24-38)	17 (14-24)	9.9 (8.1-14)	5.7 (4.6-8.0)	3.2 (2.6-4.6)	1.9 (1.5-2.7)	1.1 (0.9-1.6)	0.6 (0.5-0.9)	0.4 (0.3-0.5)
6	79	59	40	25	15	8.4	4.9	2.8	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 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	11	6.4	3.7	2.2	1.3	0.7	0.4	0.3	0.2	0.1	0.1
1	16 (11-19)	9.6 (6.7-11)	5.7 (3.9-6.8)	3.3 (2.3-4.0)	1.9 (1.3-2.3)	1.1 (0.8-1.4)	0.7 (0.5-0.8)	0.4 (0.3-0.5)	0.2 (0.2-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	23 (16-29)	14 (9.4-18)	8.5 (5.5-11)	5.0 (3.2-6.7)	3.0 (1.9-3.9)	1.7 (1.1-2.3)	1.0 (0.7-1.4)	0.6 (0.4-0.8)	0.4 (0.2-0.5)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
3	32 (23-44)	21 (14-29)	13 (8.3-18)	7.5 (4.9-11)	4.5 (2.9-6.5)	2.6 (1.7-3.8)	1.6 (1.0-2.3)	0.9 (0.6-1.4)	0.6 (0.4-0.8)	0.3 (0.2-0.5)	0.2 (0.1-0.3)
4	44 (35-57)	29 (22-40)	18 (14-26)	11 (8.1-16)	6.6 (4.8-9.7)	3.9 (2.8-5.8)	2.4 (1.7-3.5)	1.4 (1.0-2.1)	0.9 (0.6-1.3)	0.5 (0.4-0.8)	0.3 (0.2-0.5)
5	57 (51-69)	40 (34-51)	26 (22-35)	16 (13-22)	9.8 (8.0-14)	5.8 (4.7-8.1)	3.5 (2.9-5.0)	2.1 (1.7-3.0)	1.3 (1.0-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)
6	71	53	36	23	14	8.5	5.2	3.2	1.9	1.2	0.7

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	13	8.3	5.1	3.2	1.9	1.2	0.7	0.5	0.3	0.2	0.1
1	21 (18-26)	14 (12-17)	8.5 (7.2-11)	5.2 (4.4-6.6)	3.2 (2.7-4.1)	2.0 (1.7-2.5)	1.2 (1.1-1.6)	0.8 (0.7-1.0)	0.5 (0.4-0.6)	0.3 (0.3-0.4)	0.2 (0.2-0.3)
2	32 (26-41)	21 (17-28)	14 (11-18)	8.6 (6.7-12)	5.3 (4.1-7.2)	3.3 (2.6-4.5)	2.1 (1.6-2.9)	1.3 (1.0-1.8)	0.8 (0.6-1.1)	0.5 (0.4-0.7)	0.3 (0.3-0.5)
3	46 (37-54)	32 (25-40)	21 (16-27)	14 (10-18)	8.7 (6.3-11)	5.4 (3.9-7.2)	3.5 (2.5-4.7)	2.2 (1.6-3.0)	1.4 (1.0-1.9)	0.9 (0.6-1.2)	0.6 (0.4-0.8)
4	61 (52-67)	46 (37-53)	32 (25-38)	22 (16-26)	14 (10-17)	8.8 (6.4-11)	5.7 (4.1-7.1)	3.6 (2.6-4.6)	2.3 (1.6-2.9)	1.5 (1.0-1.8)	0.9 (0.7-1.2)
5	74 (67-77)	61 (53-65)	46 (39-51)	33 (26-36)	22 (17-25)	14 (11-16)	9.2 (7.2-11)	5.9 (4.6-6.9)	3.8 (2.9-4.4)	2.4 (1.9-2.8)	1.5 (1.2-1.8)
6	83	74	61	46	33	22	15	9.6	6.2	3.9	2.5

Ten year probability of hip 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	18	12	7.6	4.9	3.1	2.1	1.4	0.9	0.6	0.4	0.3
1	30 (24-53)	21 (16-40)	14 (11-28)	9.4 (6.9-19)	6.1 (4.4-13)	4.1 (2.9-8.7)	2.7 (1.9-5.8)	1.8 (1.3-3.9)	1.2 (0.8-2.6)	0.8 (0.6-1.7)	0.5 (0.4-1.1)
2	45 (32-67)	34 (22-55)	24 (15-42)	17 (9.6-31)	11 (6.3-21)	7.6 (4.2-15)	5.1 (2.8-10)	3.4 (1.8-6.8)	2.3 (1.2-4.5)	1.5 (0.8-3.0)	1.0 (0.5-2.0)
3	60 (43-76)	49 (31-67)	38 (21-55)	27 (14-42)	19 (9.4-30)	13 (6.3-22)	9.1 (4.2-15)	6.2 (2.8-10)	4.1 (1.8-7.1)	2.8 (1.2-4.8)	1.8 (0.8-3.2)
4	72 (55-82)	64 (43-75)	53 (31-65)	41 (21-53)	30 (14-41)	22 (9.8-30)	15 (6.6-22)	11 (4.5-15)	7.2 (3.0-11)	4.9 (2.0-7.2)	3.3 (1.3-4.8)
5	81 (67-85)	75 (56-81)	67 (44-73)	57 (32-63)	45 (23-51)	34 (16-39)	25 (11-29)	18 (7.5-21)	12 (5.1-15)	8.4 (3.4-10)	5.6 (2.3-6.8)
6	86	83	78	71	61	49	38	28	20	14	9.5

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	20	14	9.5	6.5	4.5	3.1	2.2	1.5	1.0	0.7	0.5
1	32 (25-56)	24 (18-45)	17 (12-34)	12 (8.5-25)	8.4 (5.8-18)	6.0 (4.1-13)	4.2 (2.9-9.1)	3.0 (2.0-6.4)	2.1 (1.4-4.5)	1.4 (1.0-3.1)	1.0 (0.7-2.2)
2	46 (33-67)	36 (24-58)	28 (17-47)	20 (12-36)	15 (8.1-27)	11 (5.7-20)	7.6 (4.0-15)	5.4 (2.8-11)	3.8 (2.0-7.6)	2.7 (1.4-5.3)	1.9 (0.9-3.7)
3	59 (42-75)	50 (33-68)	41 (24-59)	32 (17-48)	24 (12-37)	18 (8.6-29)	13 (6.1-21)	9.4 (4.2-16)	6.7 (3.0-11)	4.7 (2.1-8.1)	3.3 (1.4-5.7)
4	70 (53-80)	63 (43-75)	55 (33-67)	45 (25-58)	36 (18-47)	28 (13-38)	21 (9.2-30)	15 (6.6-22)	11 (4.6-16)	8.0 (3.2-12)	5.7 (2.3-8.6)
5	79 (63-83)	74 (55-79)	67 (45-73)	59 (35-65)	50 (26-56)	41 (20-47)	32 (15-38)	24 (11-30)	18 (7.6-22)	13 (5.4-16)	9.5 (3.8-12)
6	84	81	77	71	63	55	45	36	28	21	15

Ten year probability of hip 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	19	14	10	7.6	5.6	4.2	3.1	2.3	1.7	1.2	0.9
1	31 (24-53)	24 (18-44)	18 (14-36)	14 (9.8-28)	10 (7.3-22)	7.8 (5.4-17)	5.8 (4.0-13)	4.3 (3.0-9.4)	3.2 (2.2-7.0)	2.3 (1.6-5.1)	1.7 (1.2-3.8)
2	43 (31-64)	36 (24-56)	28 (18-47)	22 (14-38)	17 (10-31)	13 (7.6-25)	10 (5.6-19)	7.7 (4.2-15)	5.7 (3.1-11)	4.3 (2.2-8.4)	3.2 (1.6-6.2)
3	55 (39-71)	48 (32-65)	41 (25-57)	33 (19-49)	27 (14-41)	21 (11-34)	17 (8.2-27)	13 (6.1-21)	9.8 (4.6-16)	7.4 (3.4-12)	5.5 (2.5-9.3)
4	66 (49-76)	60 (41-71)	53 (33-65)	45 (26-58)	39 (21-50)	32 (16-43)	26 (12-35)	20 (9.2-28)	16 (6.9-22)	12 (5.1-17)	9.2 (3.8-13)
5	75 (58-80)	70 (51-76)	65 (43-71)	58 (35-64)	51 (29-57)	44 (23-50)	37 (18-43)	30 (14-36)	24 (11-29)	19 (8.0-23)	15 (6.0-18)
6	81	78	74	69	63	57	50	43	35	29	23

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	16	12	9.2	7.1	5.5	4.3	3.3	2.6	2.0	1.5	1.2
1	26 (20-47)	21 (16-40)	16 (12-32)	13 (9.2-26)	10 (7.2-21)	8.0 (5.6-17)	6.3 (4.4-14)	4.9 (3.4-11)	3.8 (2.6-8.4)	3.0 (2.0-6.5)	2.3 (1.6-5.1)
2	38 (26-58)	32 (21-51)	26 (16-43)	21 (13-36)	17 (10-30)	14 (7.9-25)	11 (6.2-20)	8.7 (4.8-16)	6.9 (3.7-13)	5.4 (2.9-10)	4.2 (2.2-8.2)
3	50 (34-67)	44 (27-61)	37 (22-54)	31 (17-47)	26 (14-41)	22 (11-34)	18 (8.8-29)	14 (6.9-24)	12 (5.4-19)	9.1 (4.2-15)	7.2 (3.3-12)
4	62 (43-73)	56 (37-68)	50 (30-63)	44 (25-56)	38 (20-50)	33 (16-43)	27 (13-37)	23 (10-31)	18 (8.1-25)	15 (6.4-21)	12 (5.0-17)
5	71 (54-77)	67 (47-73)	62 (40-68)	57 (34-63)	51 (28-57)	45 (23-51)	39 (19-45)	33 (15-39)	28 (12-33)	23 (9.9-28)	19 (7.8-23)
6	77	75	72	68	63	58	52	46	40	34	28