

Greece - 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 Greece. 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	15	9.5	6.4	4.7	3.6	3.0	2.5	2.3	2.1	2.1	2.0
1	23 (20-28)	15 (13-18)	9.9 (8.4-12)	7.1 (5.6-9.0)	5.5 (4.1-6.9)	4.5 (3.1-5.8)	3.8 (2.6-5.1)	3.4 (2.3-4.7)	3.2 (2.1-4.5)	3.1 (2.0-4.3)	3.0 (1.9-4.1)
2	33 (26-46)	22 (17-31)	15 (11-21)	11 (7.5-15)	8.2 (5.2-13)	6.7 (3.9-11)	5.6 (3.1-9.3)	5.1 (2.7-8.6)	4.8 (2.5-8.2)	4.6 (2.4-7.9)	4.4 (2.2-7.6)
3	47 (34-61)	32 (23-41)	22 (15-31)	16 (10-24)	12 (7.0-20)	9.7 (5.2-17)	8.2 (4.1-15)	7.4 (3.5-14)	6.9 (3.2-13)	6.6 (3.0-13)	6.3 (2.9-12)
4	62 (45-75)	44 (30-54)	31 (21-39)	23 (15-31)	17 (11-25)	14 (8.6-22)	12 (6.8-19)	11 (5.8-17)	9.9 (5.3-17)	9.4 (4.9-16)	9.0 (4.7-15)
5	77 (67-85)	58 (48-66)	43 (34-47)	32 (24-37)	24 (19-30)	20 (15-26)	16 (13-22)	15 (11-20)	14 (9.8-19)	13 (9.1-19)	13 (8.6-18)
6	89	73	56	43	33	27	23	20	19	18	17

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

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	17	12	8.2	6.1	4.7	3.8	3.2	2.9	2.7	2.6	2.4
1	26 (23-31)	17 (16-21)	12 (10-15)	9.1 (7.3-11)	7.1 (5.3-8.8)	5.7 (4.1-7.4)	4.8 (3.3-6.4)	4.4 (2.9-6.0)	4.1 (2.7-5.7)	3.8 (2.5-5.4)	3.6 (2.4-5.1)
2	37 (30-48)	26 (21-34)	18 (14-24)	13 (9.6-19)	10 (6.8-16)	8.5 (5.1-13)	7.1 (4.0-11)	6.4 (3.5-11)	6.0 (3.2-10)	5.6 (3.0-9.5)	5.3 (2.8-9.1)
3	50 (39-63)	36 (28-46)	26 (19-36)	19 (13-29)	15 (9.1-24)	12 (6.8-21)	10 (5.3-18)	9.3 (4.6-17)	8.6 (4.2-16)	8.1 (3.8-15)	7.7 (3.6-14)
4	65 (50-76)	49 (36-57)	36 (26-45)	27 (19-37)	21 (15-31)	17 (11-26)	14 (8.8-23)	13 (7.6-21)	12 (6.8-20)	11 (6.2-19)	11 (5.8-18)
5	79 (71-86)	63 (54-69)	49 (41-54)	37 (31-44)	29 (24-36)	24 (19-31)	20 (16-27)	18 (13-25)	17 (12-23)	16 (11-22)	15 (10-21)
6	90	77	62	49	40	32	27	25	23	22	20

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	21	15	11	8.0	6.2	5.0	4.3	3.9	3.6	3.3	3.1
1	30 (28-35)	22 (19-25)	16 (13-18)	12 (9.4-14)	9.2 (7.0-11)	7.4 (5.4-9.6)	6.3 (4.4-8.5)	5.7 (3.9-7.8)	5.3 (3.5-7.3)	4.9 (3.2-6.8)	4.5 (3.0-6.4)
2	42 (36-53)	31 (26-39)	23 (18-29)	17 (12-23)	13 (9.0-19)	11 (6.7-16)	9.2 (5.4-14)	8.3 (4.7-13)	7.6 (4.2-13)	7.1 (3.8-12)	6.6 (3.5-11)
3	56 (46-66)	42 (34-53)	32 (24-43)	24 (16-36)	19 (12-30)	15 (8.9-26)	13 (7.1-23)	12 (6.1-21)	11 (5.4-20)	10 (4.9-18)	9.4 (4.5-17)
4	70 (57-78)	55 (43-63)	43 (32-53)	33 (24-44)	26 (19-37)	21 (15-32)	18 (12-28)	17 (10-26)	15 (8.8-25)	14 (8.0-23)	13 (7.3-22)
5	82 (77-87)	69 (62-73)	56 (49-62)	44 (38-52)	36 (30-44)	29 (24-37)	25 (20-33)	23 (17-31)	21 (15-28)	19 (14-27)	18 (13-25)
6	91	81	69	57	47	39	33	30	28	26	24

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

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	24	18	13	9.9	7.7	6.2	5.4	4.8	4.3	4.0	3.6
1	34 (32-39)	25 (23-28)	19 (16-21)	14 (12-17)	11 (8.6-14)	9.0 (6.6-12)	7.8 (5.5-10)	7.0 (4.8-9.6)	6.3 (4.3-8.8)	5.8 (3.8-8.1)	5.3 (3.5-7.5)
2	46 (41-56)	35 (30-43)	27 (21-33)	20 (15-27)	16 (11-23)	13 (8.3-19)	11 (6.9-17)	10 (5.9-16)	9.1 (5.1-15)	8.3 (4.6-13)	7.7 (4.2-13)
3	60 (51-69)	47 (39-58)	36 (28-48)	28 (20-41)	23 (15-34)	18 (11-29)	16 (9.0-26)	14 (7.6-24)	13 (6.7-23)	12 (5.9-21)	11 (5.4-19)
4	72 (62-78)	60 (48-68)	48 (37-58)	38 (29-50)	31 (23-42)	25 (18-36)	22 (15-33)	20 (12-30)	18 (11-28)	16 (9.5-26)	15 (8.6-24)
5	83 (79-86)	72 (67-77)	60 (54-67)	49 (44-57)	40 (35-49)	33 (28-42)	29 (23-38)	26 (20-35)	24 (18-32)	22 (16-30)	20 (14-28)
6	90	83	72	62	52	43	38	35	32	29	27

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	28	21	16	12	9.3	7.6	6.5	5.7	5.1	4.6	4.1
1	39 (35-46)	30 (26-35)	22 (19-26)	17 (14-20)	13 (10-15)	11 (8.1-12)	9.1 (6.8-11)	7.9 (5.8-9.3)	7.0 (5.0-8.3)	6.3 (4.5-7.5)	5.7 (4.0-6.8)
2	53 (45-63)	41 (33-51)	31 (25-40)	24 (18-31)	18 (13-24)	15 (10-19)	13 (8.4-17)	11 (7.1-15)	9.6 (6.1-13)	8.6 (5.4-12)	7.7 (4.8-11)
3	67 (56-77)	54 (43-66)	43 (32-55)	33 (24-44)	26 (18-36)	20 (14-30)	17 (11-26)	15 (9.3-22)	13 (7.9-20)	12 (6.9-18)	10 (6.1-16)
4	79 (71-84)	68 (58-76)	56 (45-65)	44 (35-54)	35 (27-44)	28 (21-37)	23 (17-32)	20 (15-28)	17 (13-25)	15 (11-23)	14 (9.7-21)
5	87 (82-89)	79 (73-83)	69 (62-74)	57 (50-64)	46 (40-53)	37 (32-44)	31 (27-38)	27 (23-34)	23 (20-30)	20 (17-27)	18 (15-24)
6	90	87	80	71	59	49	41	35	30	27	24

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

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	31	24	18	14	11	9.1	7.8	6.7	5.9	5.2	4.6
1	45 (38-64)	35 (29-51)	27 (21-39)	21 (16-29)	16 (12-22)	13 (9.8-17)	11 (8.1-13)	9.2 (6.8-11)	7.9 (5.8-9.2)	6.9 (5.0-8.1)	6.0 (4.4-7.2)
2	59 (47-76)	48 (36-66)	38 (28-55)	30 (21-43)	23 (16-33)	18 (13-26)	15 (10-21)	13 (8.5-17)	11 (7.1-14)	9.2 (6.1-13)	8.0 (5.3-11)
3	72 (58-83)	62 (46-76)	52 (36-66)	42 (27-55)	33 (21-44)	26 (16-36)	21 (13-29)	17 (11-24)	15 (9.3-20)	12 (8.0-17)	11 (6.9-15)
4	81 (69-87)	74 (58-83)	66 (47-76)	55 (38-66)	45 (29-55)	36 (24-45)	30 (20-37)	24 (17-31)	20 (14-26)	16 (12-22)	14 (11-19)
5	86 (78-89)	83 (70-87)	77 (61-82)	69 (51-75)	58 (42-65)	49 (35-55)	40 (29-46)	33 (25-38)	27 (21-32)	22 (18-27)	18 (16-23)
6	89	87	84	79	72	63	53	44	36	30	25

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	32	25	19	15	12	10	8.5	7.3	6.2	5.4	4.7
1	44 (36-62)	35 (28-51)	28 (22-41)	22 (17-32)	17 (13-25)	14 (11-19)	12 (8.8-15)	10 (7.4-12)	8.5 (6.2-10)	7.2 (5.3-8.3)	6.2 (4.5-7.2)
2	56 (45-72)	47 (36-64)	39 (28-55)	31 (22-45)	25 (17-36)	20 (14-29)	17 (11-24)	14 (9.3-19)	12 (7.8-16)	9.8 (6.5-13)	8.3 (5.6-11)
3	67 (54-79)	60 (45-73)	51 (36-65)	42 (28-55)	34 (22-46)	28 (18-38)	23 (15-31)	19 (12-26)	16 (10-22)	13 (8.6-18)	11 (7.3-15)
4	76 (64-83)	70 (55-79)	63 (46-73)	54 (37-65)	46 (30-55)	38 (25-47)	32 (21-39)	26 (17-33)	22 (15-28)	18 (12-23)	15 (11-20)
5	82 (72-86)	78 (65-83)	73 (57-79)	66 (49-72)	58 (41-64)	50 (35-57)	42 (29-49)	35 (25-41)	29 (21-35)	24 (18-29)	20 (16-24)
6	86	84	81	76	69	62	55	47	39	32	27

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

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	27	21	17	13	11	9.2	7.7	6.6	5.6	4.8	4.1
1	37 (30-54)	30 (23-45)	24 (18-36)	19 (14-28)	16 (12-23)	13 (9.6-19)	11 (8.0-15)	9.2 (6.7-12)	7.7 (5.6-9.8)	6.5 (4.7-8.0)	5.6 (4.0-6.6)
2	49 (37-65)	41 (30-57)	34 (24-48)	27 (19-40)	22 (15-33)	19 (13-27)	15 (10-22)	13 (8.6-18)	11 (7.1-15)	9.0 (5.9-12)	7.6 (5.0-10)
3	60 (46-73)	53 (38-66)	45 (31-58)	37 (25-50)	31 (20-42)	26 (17-35)	22 (14-29)	18 (11-25)	15 (9.4-21)	12 (7.8-17)	10 (6.6-14)
4	70 (55-78)	64 (47-73)	57 (39-67)	49 (32-59)	42 (27-51)	36 (23-44)	30 (19-37)	25 (16-31)	21 (13-26)	17 (11-22)	14 (9.6-19)
5	77 (64-82)	73 (58-78)	67 (50-73)	60 (42-67)	54 (36-60)	47 (31-53)	40 (27-46)	34 (23-40)	28 (19-34)	24 (16-28)	19 (14-24)
6	82	80	76	71	65	59	52	45	38	32	27

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	18	14	11	9.1	7.7	6.5	5.5	4.7	4.0	3.4	2.9
1	25 (19-37)	20 (15-31)	16 (12-25)	13 (9.6-20)	11 (8.0-17)	9.3 (6.7-14)	7.8 (5.6-11)	6.6 (4.7-9.3)	5.6 (3.9-7.6)	4.7 (3.3-6.3)	4.0 (2.8-5.1)
2	34 (24-48)	28 (20-41)	23 (16-34)	19 (13-28)	16 (11-24)	13 (8.8-20)	11 (7.4-17)	9.4 (6.1-14)	7.9 (5.1-11)	6.6 (4.3-9.5)	5.5 (3.6-7.8)
3	45 (31-58)	38 (26-51)	32 (21-43)	27 (17-37)	23 (14-31)	19 (12-27)	16 (9.8-22)	13 (8.2-19)	11 (6.8-16)	9.3 (5.7-13)	7.8 (4.8-11)
4	56 (39-66)	49 (33-59)	42 (27-52)	36 (22-45)	31 (19-40)	27 (16-34)	23 (14-29)	19 (11-24)	16 (9.7-21)	13 (8.1-17)	11 (6.9-14)
5	66 (49-72)	60 (42-67)	54 (36-60)	47 (30-54)	42 (26-48)	36 (22-42)	31 (19-37)	26 (16-31)	22 (14-27)	19 (12-23)	16 (9.9-19)
6	74	70	65	59	53	48	42	36	31	26	22