

Armenia - 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 Armenia. 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	11	6.9	4.7	3.5	2.7	2.2	1.9	1.7	1.6	1.5	
1	25 (21-32)	16 (14-21)	10 (9.2-13)	7.2 (5.9-9.2)	5.2 (4.0-6.7)	4.1 (2.9-5.1)	3.3 (2.3-4.3)	2.8 (1.9-3.8)	2.5 (1.6-3.5)	2.4 (1.5-3.3)	2.3 (1.4-3.2)	
2	36 (28-48)	24 (18-33)	16 (12-22)	11 (8.0-15)	7.8 (5.4-11)	6.0 (3.8-9.3)	4.9 (2.9-8.0)	4.1 (2.3-7.0)	3.7 (2.0-6.4)	3.5 (1.8-6.1)	3.3 (1.7-5.9)	
3	48 (36-60)	33 (24-43)	22 (16-29)	16 (11-22)	11 (7.2-18)	8.7 (5.1-15)	7.1 (3.8-12)	6.0 (3.0-11)	5.3 (2.5-10)	5.0 (2.3-9.6)	4.8 (2.2-9.3)	
4	61 (47-71)	45 (32-54)	31 (22-38)	22 (15-28)	16 (11-22)	12 (8.2-19)	10 (6.1-16)	8.4 (4.8-14)	7.5 (4.0-13)	7.1 (3.7-12)	6.8 (3.5-12)	
5	72 (63-79)	57 (47-65)	42 (33-48)	30 (23-35)	22 (17-27)	17 (13-22)	14 (10-19)	12 (8.8-16)	10 (7.6-15)	9.9 (6.9-14)	9.4 (6.4-14)	
6	81	69	54	40	30	24	19	16	14	13	13	

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

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	11	7.3	5.1	3.8	2.9	2.4	2.0	1.8	1.7	1.6
1	24 (21-30)	16 (15-20)	11 (9.4-13)	7.6 (6.2-9.4)	5.6 (4.3-6.9)	4.3 (3.1-5.4)	3.5 (2.4-4.6)	2.9 (2.0-4.0)	2.7 (1.7-3.7)	2.5 (1.6-3.5)	2.3 (1.5-3.3)
2	34 (27-43)	23 (18-30)	16 (12-21)	11 (8.4-15)	8.2 (5.7-12)	6.3 (4.1-9.7)	5.1 (3.1-8.2)	4.3 (2.4-7.1)	3.9 (2.1-6.6)	3.6 (1.9-6.2)	3.4 (1.8-6.0)
3	45 (35-55)	32 (24-40)	22 (17-29)	16 (11-22)	12 (7.7-18)	9.1 (5.5-15)	7.3 (4.1-13)	6.1 (3.2-11)	5.5 (2.7-10)	5.1 (2.5-9.6)	4.9 (2.3-9.2)
4	56 (45-65)	42 (32-50)	30 (22-36)	22 (15-28)	16 (11-23)	13 (8.6-19)	10 (6.4-16)	8.5 (5.0-14)	7.7 (4.2-13)	7.2 (3.8-12)	6.8 (3.5-12)
5	67 (59-72)	53 (45-59)	40 (32-45)	30 (23-35)	22 (17-28)	17 (13-23)	14 (11-19)	12 (9.0-16)	11 (7.6-15)	9.8 (6.9-14)	9.3 (6.3-14)
6	75	64	51	39	30	23	19	16	14	13	13

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	14	9.7	6.8	5.0	3.8	2.9	2.4	2.0	1.8	1.7	1.6
1	20 (18-24)	14 (12-17)	9.9 (8.3-12)	7.2 (5.8-8.7)	5.5 (4.2-6.6)	4.3 (3.1-5.4)	3.5 (2.4-4.6)	2.9 (1.9-3.9)	2.6 (1.7-3.7)	2.4 (1.5-3.4)	2.3 (1.4-3.3)
2	27 (22-34)	20 (16-25)	14 (11-18)	10 (7.8-14)	7.8 (5.6-11)	6.2 (4.0-9.3)	5.0 (3.1-7.9)	4.2 (2.4-6.8)	3.8 (2.1-6.4)	3.5 (1.9-6.0)	3.3 (1.7-5.7)
3	36 (28-44)	27 (21-33)	19 (15-25)	14 (11-20)	11 (7.5-16)	8.6 (5.4-14)	7.0 (4.1-12)	5.9 (3.2-10)	5.3 (2.7-9.5)	4.9 (2.4-9.0)	4.6 (2.2-8.5)
4	46 (37-53)	35 (27-41)	26 (20-32)	20 (14-26)	15 (11-21)	12 (8.3-18)	9.7 (6.2-15)	8.1 (4.8-13)	7.3 (4.1-12)	6.8 (3.7-11)	6.3 (3.3-11)
5	55 (48-60)	44 (37-49)	34 (28-39)	26 (21-31)	20 (16-26)	16 (13-21)	13 (10-18)	11 (8.4-15)	9.9 (7.2-14)	9.1 (6.4-13)	8.6 (5.8-13)
6	64	53	43	33	26	21	17	14	13	12	11

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

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	8.3	6.1	4.5	3.5	2.8	2.3	1.9	1.7	1.6	1.4
1	16 (14-18)	12 (9.9-13)	8.6 (7.0-10)	6.5 (5.1-7.6)	5.0 (3.7-6.0)	4.0 (2.8-5.0)	3.2 (2.2-4.2)	2.7 (1.8-3.7)	2.5 (1.6-3.4)	2.2 (1.4-3.2)	2.1 (1.3-3.0)
2	22 (17-26)	16 (13-19)	12 (9.5-15)	9.0 (6.9-12)	7.0 (5.0-9.9)	5.6 (3.7-8.3)	4.5 (2.9-7.1)	3.8 (2.3-6.2)	3.5 (2.0-5.7)	3.2 (1.7-5.3)	2.9 (1.6-5.0)
3	28 (22-34)	21 (17-26)	16 (13-21)	12 (9.4-17)	9.6 (6.8-14)	7.7 (5.0-12)	6.3 (3.8-10)	5.3 (3.0-8.9)	4.8 (2.6-8.3)	4.4 (2.3-7.8)	4.0 (2.0-7.3)
4	36 (30-42)	28 (22-33)	21 (17-27)	17 (13-22)	13 (9.9-18)	10 (7.4-15)	8.5 (5.6-13)	7.2 (4.5-11)	6.5 (3.8-11)	5.9 (3.3-9.9)	5.5 (3.0-9.3)
5	44 (38-48)	35 (30-40)	27 (23-33)	22 (18-27)	17 (14-22)	14 (11-18)	11 (9.0-16)	9.5 (7.4-14)	8.6 (6.3-13)	7.9 (5.5-12)	7.3 (5.0-11)
6	51	42	34	27	22	18	15	12	11	10	9.5

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	8.8	6.6	5.0	3.9	3.1	2.5	2.0	1.7	1.5	1.4	1.3
1	13 (10-16)	9.5 (7.5-12)	7.2 (5.5-9.1)	5.5 (4.1-7.0)	4.3 (3.1-5.4)	3.4 (2.4-4.2)	2.8 (1.9-3.4)	2.3 (1.6-2.9)	2.1 (1.4-2.5)	1.9 (1.2-2.3)	1.7 (1.1-2.1)
2	18 (14-23)	13 (10-18)	10 (7.5-14)	7.8 (5.6-11)	6.0 (4.2-8.5)	4.7 (3.2-6.7)	3.8 (2.5-5.4)	3.2 (2.0-4.6)	2.8 (1.7-4.1)	2.5 (1.5-3.6)	2.2 (1.3-3.3)
3	25 (19-31)	19 (14-24)	14 (10-19)	11 (7.7-15)	8.4 (5.8-12)	6.6 (4.4-9.5)	5.2 (3.4-7.7)	4.3 (2.7-6.5)	3.7 (2.3-5.7)	3.3 (2.0-5.2)	3.0 (1.8-4.7)
4	33 (25-39)	26 (19-32)	20 (14-25)	15 (11-20)	12 (8.1-16)	9.0 (6.1-12)	7.1 (4.7-10)	5.8 (3.8-8.5)	5.0 (3.2-7.5)	4.4 (2.8-6.7)	3.9 (2.5-6.1)
5	42 (34-47)	34 (27-39)	26 (21-32)	21 (16-25)	16 (12-20)	12 (9.5-16)	9.6 (7.4-13)	7.9 (6.1-11)	6.7 (5.2-9.3)	5.8 (4.5-8.2)	5.1 (4.0-7.3)
6	51	43	35	27	21	17	13	11	8.8	7.5	6.6

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

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	7.0	5.4	4.3	3.4	2.7	2.2	1.8	1.6	1.4	1.2	1.1
1	11 (7.6-19)	8.5 (5.8-15)	6.6 (4.5-11)	5.1 (3.5-8.6)	4.0 (2.7-6.6)	3.2 (2.1-5.0)	2.6 (1.7-3.8)	2.2 (1.4-3.1)	1.9 (1.2-2.5)	1.7 (1.1-2.1)	1.5 (1.0-1.8)
2	16 (10-26)	13 (7.9-21)	10 (6.1-16)	7.7 (4.7-12)	6.0 (3.7-9.4)	4.7 (2.9-7.3)	3.7 (2.3-5.6)	3.1 (1.9-4.6)	2.6 (1.6-3.8)	2.3 (1.4-3.2)	2.0 (1.2-2.7)
3	24 (14-34)	19 (11-27)	15 (8.2-22)	11 (6.4-17)	8.9 (5.0-13)	6.9 (3.9-10)	5.4 (3.0-7.9)	4.4 (2.5-6.4)	3.7 (2.1-5.3)	3.1 (1.8-4.5)	2.6 (1.6-3.8)
4	33 (19-42)	26 (15-35)	21 (11-28)	17 (8.8-22)	13 (6.8-18)	10 (5.3-14)	7.8 (4.2-11)	6.3 (3.4-8.6)	5.1 (2.9-7.1)	4.3 (2.5-6.0)	3.6 (2.2-5.1)
5	43 (25-50)	36 (20-42)	29 (16-35)	23 (12-29)	18 (9.8-23)	14 (7.7-18)	11 (6.2-14)	8.9 (5.2-12)	7.2 (4.4-9.5)	5.9 (3.8-7.8)	4.9 (3.3-6.6)
6	54	46	39	32	26	20	16	13	10	8.2	6.7

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	5.8	4.6	3.7	3.0	2.5	2.0	1.7	1.5	1.3	1.1	1.0
1	9.0 (6.2-16)	7.2 (4.9-13)	5.7 (3.9-10)	4.6 (3.1-8.0)	3.7 (2.5-6.3)	3.0 (2.0-4.9)	2.4 (1.6-3.9)	2.1 (1.4-3.2)	1.8 (1.2-2.6)	1.6 (1.0-2.2)	1.4 (0.9-1.8)
2	13 (8.4-22)	11 (6.6-18)	8.6 (5.3-14)	6.9 (4.2-11)	5.5 (3.3-8.8)	4.4 (2.7-6.9)	3.5 (2.2-5.4)	3.0 (1.8-4.4)	2.5 (1.5-3.7)	2.2 (1.3-3.1)	1.9 (1.1-2.6)
3	19 (11-29)	16 (8.9-23)	13 (7.1-19)	10 (5.7-15)	8.1 (4.5-12)	6.4 (3.6-9.5)	5.2 (2.9-7.5)	4.3 (2.5-6.2)	3.6 (2.1-5.1)	3.0 (1.8-4.3)	2.6 (1.5-3.7)
4	27 (15-36)	22 (12-30)	18 (9.6-25)	15 (7.7-20)	12 (6.2-16)	9.3 (5.0-13)	7.5 (4.0-10)	6.2 (3.3-8.4)	5.1 (2.8-6.9)	4.3 (2.4-5.8)	3.6 (2.1-4.9)
5	36 (20-42)	30 (16-36)	25 (13-30)	21 (10-25)	17 (8.4-21)	13 (6.8-17)	11 (5.5-13)	8.8 (4.7-11)	7.2 (4.0-9.3)	6.0 (3.4-7.8)	5.0 (3.0-6.5)
6	46	40	34	28	23	19	15	12	10	8.4	6.9

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

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	4.7	3.8	3.2	2.6	2.1	1.8	1.5	1.3	1.2	1.0	0.9
1	7.3 (5.0-13)	6.0 (4.1-11)	4.9 (3.3-8.9)	4.0 (2.7-7.2)	3.3 (2.2-5.8)	2.7 (1.8-4.7)	2.3 (1.5-3.9)	2.0 (1.3-3.2)	1.7 (1.1-2.7)	1.5 (1.0-2.3)	1.3 (0.8-1.9)
2	11 (6.8-19)	9.2 (5.6-15)	7.5 (4.5-13)	6.1 (3.7-10)	5.0 (3.0-8.3)	4.1 (2.4-6.7)	3.4 (2.0-5.5)	2.9 (1.7-4.6)	2.5 (1.5-3.8)	2.1 (1.3-3.2)	1.8 (1.1-2.7)
3	16 (9.1-24)	14 (7.5-20)	11 (6.1-17)	9.2 (5.0-14)	7.5 (4.1-11)	6.1 (3.3-9.2)	5.0 (2.8-7.6)	4.3 (2.4-6.4)	3.6 (2.0-5.3)	3.1 (1.7-4.5)	2.6 (1.5-3.8)
4	23 (12-31)	20 (10-26)	16 (8.3-22)	13 (6.8-18)	11 (5.6-15)	9.0 (4.6-12)	7.4 (3.8-10)	6.3 (3.3-8.7)	5.3 (2.8-7.3)	4.5 (2.4-6.1)	3.8 (2.0-5.2)
5	32 (17-37)	27 (14-32)	23 (11-28)	19 (9.4-23)	16 (7.7-19)	13 (6.3-16)	11 (5.3-13)	9.1 (4.5-11)	7.7 (3.9-9.7)	6.5 (3.3-8.2)	5.4 (2.9-7.0)
6	41	36	31	27	22	19	16	13	11	9.3	7.8

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	3.7	3.1	2.6	2.2	1.9	1.6	1.4	1.2	1.1	1.0	0.8
1	5.7 (3.8-10)	4.8 (3.2-8.4)	4.0 (2.7-7.0)	3.4 (2.3-5.8)	2.8 (1.9-4.8)	2.4 (1.6-4.0)	2.0 (1.4-3.4)	1.8 (1.2-3.0)	1.6 (1.0-2.5)	1.4 (0.9-2.2)	1.2 (0.8-1.9)
2	8.5 (5.2-14)	7.2 (4.4-12)	6.0 (3.7-9.9)	5.1 (3.1-8.2)	4.2 (2.6-6.9)	3.6 (2.1-5.7)	3.1 (1.9-4.9)	2.7 (1.6-4.2)	2.3 (1.4-3.6)	2.0 (1.2-3.1)	1.8 (1.1-2.7)
3	13 (7.1-19)	11 (6.0-16)	9.0 (5.0-14)	7.6 (4.2-11)	6.4 (3.5-9.6)	5.3 (3.0-8.0)	4.6 (2.6-6.9)	4.0 (2.2-5.9)	3.5 (1.9-5.1)	3.0 (1.7-4.4)	2.6 (1.5-3.8)
4	18 (9.6-25)	16 (8.1-21)	13 (6.9-18)	11 (5.8-15)	9.4 (4.9-13)	7.9 (4.1-11)	6.8 (3.6-9.4)	5.9 (3.1-8.1)	5.1 (2.7-7.0)	4.4 (2.3-6.1)	3.8 (2.0-5.2)
5	25 (13-30)	22 (11-26)	19 (9.4-23)	16 (7.9-20)	14 (6.7-17)	12 (5.6-14)	10 (4.9-12)	8.7 (4.3-11)	7.5 (3.7-9.4)	6.5 (3.3-8.1)	5.6 (2.9-7.1)
6	34	30	26	23	20	17	14	13	11	9.5	8.2