FRAX ®   WHO Fracture Risk Assessment Tool

Armenia - 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 body mass index (BMI kg/m2), 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.

Age = 50 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	2.8	2.5	2.3	2.0	1.8	1.6	1.4
1	4.6 (3.2-7.0)	4.0 (2.7-5.8)	3.7 (2.5-5.2)	3.2 (2.2-4.5)	2.8 (1.9-3.9)	2.4 (1.6-3.4)	2.1 (1.4-2.9)
2	7.5 (4.1-12)	6.4 (3.4-11)	5.8 (3.1-9.8)	5.0 (2.6-8.6)	4.3 (2.3-7.5)	3.8 (2.0-6.6)	3.3 (1.7-5.7)
3	12 (6.1-20)	9.9 (4.9-17)	8.8 (4.3-16)	7.6 (3.7-14)	6.6 (3.2-12)	5.8 (2.7-11)	5.0 (2.4-9.3)
4	19 (10-28)	15 (8.5-24)	13 (7.2-21)	12 (6.2-19)	10 (5.3-16)	8.7 (4.6-14)	7.5 (4.0-13)
5	29 (18-36)	23 (15-29)	20 (13-26)	17 (11-23)	15 (9.9-20)	13 (8.6-17)	11 (7.5-15)
6	42	34	28	25	22	19	16

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

Age = 55 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	3.8	3.3	3.0	2.6	2.3	2.0	1.7
1	6.1 (4.4-9.0)	5.2 (3.6-7.3)	4.7 (3.2-6.4)	4.1 (2.8-5.6)	3.5 (2.4-4.8)	3.1 (2.1-4.2)	2.7 (1.8-3.6)
2	9.9 (5.7-16)	8.2 (4.6-13)	7.3 (4.0-12)	6.3 (3.4-11)	5.5 (3.0-9.2)	4.7 (2.6-8.0)	4.1 (2.2-7.0)
3	16 (8.7-25)	13 (6.7-21)	11 (5.6-19)	9.6 (4.8-17)	8.3 (4.1-15)	7.2 (3.6-13)	6.3 (3.1-11)
4	24 (14-35)	19 (12-29)	17 (9.6-26)	14 (8.2-23)	12 (7.0-20)	11 (6.0-17)	9.3 (5.1-15)
5	36 (24-44)	29 (19-36)	24 (17-31)	21 (15-27)	18 (13-24)	16 (11-21)	14 (9.5-18)
6	51	41	35	30	26	23	20

Age = 60 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	4.9	4.2	3.8	3.2	2.8	2.4	2.1
1	7.9 (5.7-11)	6.6 (4.7-9.0)	5.8 (4.1-7.8)	5.0 (3.5-6.7)	4.4 (3.0-5.8)	3.8 (2.6-5.0)	3.3 (2.2-4.3)
2	12 (7.7-19)	10 (6.1-16)	9.0 (5.1-14)	7.7 (4.4-12)	6.7 (3.7-11)	5.8 (3.2-9.5)	5.0 (2.8-8.3)
3	19 (12-29)	16 (9.0-25)	14 (7.3-23)	12 (6.2-20)	10 (5.3-17)	8.7 (4.5-15)	7.5 (3.9-13)
4	29 (18-40)	23 (15-34)	20 (12-30)	17 (11-27)	15 (8.9-23)	13 (7.6-20)	11 (6.4-18)
5	42 (30-50)	34 (24-42)	29 (21-37)	25 (18-32)	22 (16-28)	19 (13-25)	16 (12-21)
6	57	48	41	35	31	27	23

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

Age = 65 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	6.0	5.1	4.5	3.9	3.3	2.9	2.5
1	9.5 (7.0-13)	7.9 (5.7-10)	7.0 (5.0-9.1)	6.0 (4.2-7.8)	5.1 (3.6-6.6)	4.4 (3.1-5.7)	3.8 (2.6-4.9)
2	15 (9.6-21)	12 (7.6-18)	11 (6.3-16)	9.1 (5.3-14)	7.8 (4.5-12)	6.6 (3.8-11)	5.7 (3.3-9.2)
3	22 (15-31)	18 (11-27)	16 (9.2-25)	13 (7.7-22)	12 (6.5-19)	9.9 (5.5-16)	8.5 (4.6-14)
4	32 (22-42)	27 (18-37)	23 (15-34)	20 (13-29)	17 (11-26)	14 (9.0-22)	12 (7.6-19)
5	44 (33-52)	37 (28-46)	32 (25-41)	28 (21-36)	24 (18-31)	21 (15-27)	18 (13-24)
6	57	50	44	39	34	29	25

Age = 70 years

Number of CRFs	BMI (kg/m²)						
	15	**20**	**25**	**30**	**35**	**40**	**45**
0	6.8	5.9	5.3	4.5	3.8	3.2	2.8
1	11 (7.7-13)	8.9 (6.6-11)	7.9 (5.8-10)	6.6 (4.8-8.5)	5.6 (4.1-7.3)	4.7 (3.4-6.2)	4.0 (2.9-5.3)
2	16 (11-23)	14 (8.8-19)	12 (7.5-16)	9.8 (6.2-14)	8.2 (5.2-12)	6.9 (4.3-9.9)	5.9 (3.6-8.4)
3	24 (16-33)	20 (13-29)	17 (11-25)	14 (9.1-21)	12 (7.6-18)	10 (6.3-15)	8.5 (5.3-13)
4	35 (25-46)	30 (21-41)	25 (18-35)	21 (15-30)	18 (12-26)	15 (10-22)	12 (8.3-18)
5	47 (41-56)	42 (35-51)	36 (30-44)	30 (25-38)	26 (21-32)	21 (17-28)	18 (14-23)
6	60	55	49	42	36	31	26

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

Age = 75 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	7.4	6.6	6.1	5.1	4.3	3.6	3.1
1	12 (8.1-18)	10 (7.3-14)	9.2 (6.6-11)	7.6 (5.5-9.2)	6.3 (4.5-7.8)	5.3 (3.8-6.6)	4.4 (3.1-5.5)
2	18 (11-28)	16 (9.9-24)	14 (8.7-19)	11 (7.1-16)	9.4 (5.9-13)	7.7 (4.8-11)	6.4 (4.0-8.9)
3	27 (16-41)	24 (14-35)	21 (13-30)	17 (11-25)	14 (8.7-20)	11 (7.2-17)	9.4 (5.9-14)
4	38 (24-51)	35 (22-47)	30 (20-42)	25 (16-35)	21 (13-30)	17 (11-25)	14 (8.7-20)
5	51 (37-60)	47 (34-57)	43 (32-52)	36 (27-45)	30 (22-38)	25 (18-32)	21 (15-27)
6	63	60	56	49	42	36	30

Age = 80 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	7.9	7.3	6.8	5.7	4.7	3.9	3.2
1	12 (8.6-19)	11 (7.9-17)	10 (7.3-14)	8.4 (6.0-11)	6.9 (4.9-8.8)	5.6 (4.0-7.1)	4.6 (3.3-5.7)
2	19 (12-29)	17 (11-25)	15 (9.8-21)	12 (7.9-17)	10 (6.4-14)	8.3 (5.2-11)	6.8 (4.3-9.3)
3	27 (16-40)	25 (15-36)	22 (14-31)	18 (11-26)	15 (9.2-21)	12 (7.5-17)	9.9 (6.0-14)
4	38 (24-49)	35 (22-46)	32 (21-42)	26 (17-36)	22 (14-30)	18 (11-25)	14 (9.1-20)
5	49 (34-58)	46 (32-55)	43 (31-52)	36 (26-45)	30 (21-38)	25 (18-32)	21 (14-27)
6	60	57	55	48	41	35	29

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

Age = 85 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	7.9	7.4	7.1	5.8	4.8	3.9	3.2
1	13 (8.6-20)	11 (7.9-17)	11 (7.5-15)	8.7 (6.0-12)	7.0 (4.9-9.4)	5.7 (3.9-7.5)	4.6 (3.2-6.0)
2	19 (12-30)	17 (11-26)	16 (10-23)	13 (8.1-18)	10 (6.5-15)	8.4 (5.2-12)	6.8 (4.2-9.6)
3	28 (17-40)	25 (15-37)	23 (14-33)	19 (11-27)	15 (9.0-22)	12 (7.2-18)	9.9 (5.7-15)
4	38 (24-50)	35 (22-46)	32 (21-43)	27 (17-36)	22 (14-30)	18 (11-25)	14 (8.8-20)
5	49 (34-58)	46 (32-55)	43 (30-52)	37 (25-45)	31 (21-39)	25 (17-33)	21 (14-27)
6	60	58	55	48	41	35	29

Age = 90 years

Number of CRFs	BMI (kg/m²)						
	15	20	25	30	35	40	45
0	7.0	6.5	6.4	5.2	4.3	3.5	2.9
1	11 (7.6-18)	10 (7.0-15)	9.5 (6.6-13)	7.7 (5.3-10)	6.3 (4.3-8.3)	5.1 (3.5-6.6)	4.1 (2.8-5.3)
2	17 (11-27)	15 (9.6-23)	14 (8.9-20)	11 (7.1-16)	9.2 (5.7-13)	7.4 (4.6-11)	6.0 (3.7-8.5)
3	25 (15-37)	23 (13-33)	21 (13-29)	17 (10-24)	14 (8.0-20)	11 (6.4-16)	8.8 (5.1-13)
4	35 (22-47)	32 (20-43)	29 (19-39)	24 (15-33)	20 (12-27)	16 (9.8-22)	13 (7.9-18)
5	46 (32-55)	43 (30-52)	40 (28-49)	34 (23-42)	28 (19-35)	23 (15-29)	19 (12-24)
6	56	54	52	45	38	32	26