

Italy - 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 Italy. 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/m ²) | | | | | | |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 3.1 | 2.8 | 2.6 | 2.3 | 2.0 | 1.7 | 1.5 |
| 1 | 5.0 (3.5-7.5) | 4.4 (3.0-6.3) | 4.1 (2.8-5.7) | 3.6 (2.4-4.9) | 3.1 (2.1-4.3) | 2.7 (1.8-3.7) | 2.4 (1.6-3.3) |
| 2 | 8.2 (4.5-13) | 7.0 (3.8-12) | 6.3 (3.4-11) | 5.5 (2.9-9.5) | 4.8 (2.5-8.3) | 4.2 (2.2-7.3) | 3.7 (1.9-6.4) |
| 3 | 13 (6.6-22) | 11 (5.3-19) | 9.7 (4.7-17) | 8.4 (4.0-15) | 7.3 (3.5-13) | 6.4 (3.0-12) | 5.6 (2.6-10) |
| 4 | 20 (11-30) | 17 (9.3-26) | 14 (7.9-23) | 13 (6.8-20) | 11 (5.9-18) | 9.6 (5.1-16) | 8.4 (4.4-14) |
| 5 | 31 (19-38) | 25 (16-32) | 21 (14-28) | 19 (13-25) | 16 (11-22) | 14 (9.6-19) | 12 (8.4-17) |
| 6 | 45 | 36 | 31 | 27 | 23 | 21 | 18 |

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

Age = 55 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 4.0 | 3.5 | 3.2 | 2.8 | 2.4 | 2.1 | 1.9 |
| 1 | 6.6 (4.7-9.5) | 5.6 (3.9-7.8) | 5.0 (3.5-6.8) | 4.4 (3.0-5.9) | 3.8 (2.6-5.1) | 3.3 (2.3-4.5) | 2.9 (2.0-3.9) |
| 2 | 11 (6.1-17) | 8.8 (4.9-14) | 7.8 (4.3-13) | 6.8 (3.7-11) | 5.9 (3.2-9.9) | 5.1 (2.8-8.6) | 4.5 (2.4-7.6) |
| 3 | 17 (9.2-27) | 14 (7.1-23) | 12 (6.0-21) | 10 (5.1-18) | 8.9 (4.4-16) | 7.8 (3.8-14) | 6.8 (3.3-12) |
| 4 | 26 (15-37) | 21 (12-31) | 18 (10-28) | 15 (8.7-24) | 13 (7.5-21) | 12 (6.4-19) | 10 (5.5-16) |
| 5 | 38 (25-46) | 30 (21-38) | 26 (18-33) | 22 (16-29) | 20 (14-26) | 17 (12-22) | 15 (10-20) |
| 6 | 54 | 43 | 37 | 32 | 28 | 25 | 21 |

Age = 60 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 5.7 | 4.8 | 4.3 | 3.7 | 3.2 | 2.8 | 2.4 |
| 1 | 9.3 (6.8-13) | 7.6 (5.4-10) | 6.7 (4.7-8.8) | 5.8 (4.0-7.6) | 5.0 (3.5-6.6) | 4.3 (3.0-5.7) | 3.8 (2.6-5.0) |
| 2 | 15 (9.1-22) | 12 (7.0-18) | 10 (5.8-16) | 8.8 (5.0-14) | 7.7 (4.3-12) | 6.6 (3.7-11) | 5.8 (3.2-9.5) |
| 3 | 23 (14-34) | 18 (10-29) | 15 (8.3-26) | 13 (7.1-23) | 12 (6.1-20) | 10 (5.2-17) | 8.7 (4.5-15) |
| 4 | 34 (21-47) | 27 (17-39) | 23 (14-34) | 20 (12-30) | 17 (10-27) | 15 (8.8-23) | 13 (7.5-20) |
| 5 | 49 (36-57) | 39 (28-48) | 33 (24-41) | 29 (21-36) | 25 (18-32) | 22 (16-28) | 19 (14-25) |
| 6 | 66 | 54 | 46 | 40 | 35 | 31 | 27 |

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

Age = 65 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|-------------|--------------|---------------|---------------|---------------|---------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 8.2 | 6.6 | 5.7 | 4.9 | 4.2 | 3.7 | 3.2 |
| 1 | 13 (10-17) | 10 (7.7-13) | 8.8 (6.4-11) | 7.6 (5.4-9.8) | 6.5 (4.7-8.4) | 5.6 (4.0-7.2) | 4.9 (3.4-6.3) |
| 2 | 20 (14-29) | 16 (10-23) | 13 (8.1-20) | 12 (6.9-18) | 10 (5.8-15) | 8.6 (5.0-13) | 7.4 (4.3-12) |
| 3 | 31 (21-42) | 24 (15-36) | 20 (12-32) | 17 (9.9-28) | 15 (8.4-24) | 13 (7.1-21) | 11 (6.1-19) |
| 4 | 44 (30-57) | 35 (24-48) | 29 (20-42) | 25 (17-37) | 22 (14-33) | 19 (12-29) | 16 (10-25) |
| 5 | 60 (48-68) | 49 (38-58) | 41 (32-50) | 36 (28-44) | 31 (24-39) | 27 (21-34) | 24 (18-30) |
| 6 | 75 | 65 | 55 | 49 | 43 | 38 | 33 |

Age = 70 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|------------|-------------|-------------|--------------|---------------|---------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 12 | 9.8 | 8.2 | 7.0 | 6.0 | 5.1 | 4.4 |
| 1 | 20 (15-24) | 15 (12-18) | 12 (9.3-15) | 10 (7.9-13) | 8.9 (6.7-11) | 7.6 (5.7-9.7) | 6.5 (4.8-8.4) |
| 2 | 30 (21-39) | 23 (15-30) | 18 (12-25) | 16 (10-22) | 13 (8.5-18) | 11 (7.2-16) | 9.6 (6.1-14) |
| 3 | 44 (32-58) | 34 (23-48) | 27 (18-39) | 23 (15-34) | 20 (12-29) | 17 (10-25) | 14 (8.8-22) |
| 4 | 61 (49-74) | 49 (38-63) | 39 (29-53) | 34 (25-46) | 29 (21-40) | 25 (18-35) | 21 (15-30) |
| 5 | 76 (70-82) | 66 (59-74) | 54 (47-64) | 48 (41-56) | 41 (35-50) | 35 (29-43) | 30 (25-37) |
| 6 | 85 | 80 | 71 | 64 | 57 | 50 | 43 |

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

Age = 75 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|------------|------------|------------|------------|-------------|--------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 19 | 15 | 12 | 10 | 8.9 | 7.6 | 6.5 |
| 1 | 30 (23-42) | 23 (18-31) | 19 (14-23) | 16 (12-19) | 13 (10-16) | 11 (8.4-13) | 9.5 (7.1-12) |
| 2 | 45 (31-60) | 36 (24-48) | 28 (18-37) | 24 (15-31) | 20 (13-26) | 17 (11-22) | 14 (9.1-19) |
| 3 | 60 (44-75) | 51 (35-67) | 41 (27-56) | 35 (23-49) | 30 (19-42) | 25 (16-36) | 21 (13-30) |
| 4 | 74 (60-83) | 67 (52-80) | 57 (42-72) | 50 (36-65) | 43 (31-57) | 37 (26-50) | 31 (22-43) |
| 5 | 82 (74-87) | 80 (69-86) | 73 (62-81) | 67 (54-75) | 59 (48-69) | 52 (41-61) | 45 (35-54) |
| 6 | 87 | 87 | 85 | 81 | 75 | 68 | 61 |

Age = 80 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|------------|------------|------------|------------|------------|-------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 26 | 21 | 18 | 15 | 13 | 11 | 9.1 |
| 1 | 38 (30-53) | 32 (24-43) | 26 (20-33) | 22 (17-28) | 19 (14-23) | 16 (12-19) | 13 (9.9-16) |
| 2 | 52 (39-67) | 45 (32-59) | 38 (26-50) | 32 (22-43) | 27 (18-36) | 23 (15-31) | 19 (13-25) |
| 3 | 64 (50-77) | 59 (45-72) | 52 (38-66) | 45 (32-58) | 39 (27-51) | 33 (22-44) | 28 (19-37) |
| 4 | 74 (62-82) | 71 (59-80) | 66 (53-77) | 59 (46-72) | 53 (40-65) | 46 (34-58) | 39 (29-51) |
| 5 | 81 (72-85) | 80 (71-85) | 78 (67-84) | 73 (61-80) | 66 (54-75) | 60 (48-68) | 53 (41-62) |
| 6 | 85 | 85 | 85 | 82 | 78 | 72 | 66 |

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

Age = 85 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|------------|------------|------------|------------|------------|------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 28 | 24 | 21 | 18 | 15 | 13 | 11 |
| 1 | 40 (31-55) | 35 (27-48) | 31 (23-39) | 26 (20-33) | 22 (16-28) | 18 (14-23) | 15 (11-19) |
| 2 | 53 (41-69) | 48 (35-63) | 43 (30-55) | 37 (25-48) | 31 (21-41) | 26 (18-34) | 22 (15-29) |
| 3 | 65 (51-77) | 61 (47-74) | 56 (43-69) | 50 (36-62) | 43 (31-55) | 37 (26-48) | 31 (21-41) |
| 4 | 74 (62-82) | 72 (60-81) | 69 (56-79) | 63 (49-74) | 56 (43-68) | 49 (36-62) | 43 (31-55) |
| 5 | 79 (72-83) | 80 (71-84) | 78 (69-84) | 74 (63-80) | 68 (56-76) | 62 (50-71) | 55 (44-64) |
| 6 | 81 | 84 | 84 | 82 | 78 | 73 | 68 |

Age = 90 years

| Number of CRFs | BMI (kg/m ²) | | | | | | |
|----------------|--------------------------|------------|------------|------------|------------|------------|-------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 24 | 22 | 20 | 17 | 14 | 12 | 9.6 |
| 1 | 35 (26-49) | 31 (23-43) | 28 (21-37) | 24 (18-31) | 20 (15-26) | 17 (12-21) | 14 (9.9-17) |
| 2 | 47 (35-63) | 43 (31-58) | 39 (28-51) | 33 (23-44) | 28 (19-37) | 24 (16-31) | 20 (13-26) |
| 3 | 59 (44-72) | 55 (41-69) | 52 (38-65) | 45 (32-58) | 39 (26-51) | 33 (22-44) | 28 (18-37) |
| 4 | 68 (55-77) | 66 (53-76) | 64 (50-74) | 57 (44-68) | 51 (37-62) | 44 (31-56) | 38 (26-49) |
| 5 | 74 (66-78) | 75 (65-80) | 74 (63-80) | 68 (57-76) | 62 (50-71) | 56 (44-65) | 49 (38-58) |
| 6 | 75 | 79 | 80 | 77 | 73 | 67 | 61 |