**The US (Caucasian) - 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 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 the US (Caucasian). 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 | 3.0 | 2.9 | 2.9 | 2.6 | 2.3 | 2.0 | 1.7 |
| 1 | 4.7 (3.2-6.8) | 4.6 (3.1-6.4) | 4.5 (3.0-6.2) | 4.0 (2.6-5.4) | 3.5 (2.3-4.7) | 3.0 (2.0-4.1) | 2.7 (1.8-3.6) |
| 2 | 7.3 (3.9-12) | 7.0 (3.7-12) | 6.9 (3.6-12) | 6.0 (3.2-11) | 5.3 (2.8-9.3) | 4.6 (2.4-8.2) | 4.0 (2.1-7.2) |
| 3 | 11 (5.5-19) | 11 (5.1-19) | 10 (4.9-19) | 9.0 (4.3-16) | 7.9 (3.7-14) | 6.9 (3.3-13) | 6.0 (2.8-11) |
| 4 | 17 (9.0-26) | 15 (8.2-25) | 15 (7.9-24) | 13 (6.8-22) | 11 (5.9-19) | 10 (5.2-17) | 8.8 (4.5-15) |
| 5 | 24 (16-32) | 22 (15-30) | 21 (15-29) | 19 (13-25) | 17 (11-22) | 14 (10-20) | 13 (8.8-17) |
| 6 | 34 | 31 | 30 | 26 | 23 | 20 | 18 |

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

**Age = 55 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 4.2 | 4.2 | 4.2 | 3.6 | 3.2 | 2.8 | 2.4 |
| 1 | 6.5 (4.4-9.2) | 6.4 (4.3-8.7) | 6.3 (4.3-8.5) | 5.5 (3.7-7.4) | 4.9 (3.3-6.5) | 4.2 (2.8-5.7) | 3.7 (2.5-4.9) |
| 2 | 10 (5.5-16) | 9.6 (5.3-16) | 9.5 (5.1-16) | 8.3 (4.5-14) | 7.3 (3.9-13) | 6.4 (3.4-11) | 5.6 (3.0-9.7) |
| 3 | 15 (7.9-25) | 14 (7.3-24) | 14 (7.0-24) | 12 (6.1-22) | 11 (5.3-19) | 9.4 (4.6-17) | 8.2 (4.0-15) |
| 4 | 22 (12-33) | 21 (12-32) | 20 (11-32) | 18 (9.6-28) | 15 (8.3-25) | 14 (7.2-22) | 12 (6.2-20) |
| 5 | 30 (21-39) | 29 (20-38) | 28 (20-37) | 25 (18-33) | 22 (16-29) | 19 (14-26) | 17 (12-23) |
| 6 | 42 | 39 | 38 | 34 | 30 | 27 | 23 |

**Age = 60 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 5.2 | 5.1 | 5.0 | 4.4 | 3.8 | 3.3 | 2.9 |
| 1 | 8.0 (5.5-11) | 7.8 (5.3-10) | 7.6 (5.2-10) | 6.7 (4.5-8.7) | 5.8 (3.9-7.6) | 5.1 (3.4-6.6) | 4.4 (3.0-5.8) |
| 2 | 12 (7.1-19) | 12 (6.6-19) | 11 (6.3-19) | 9.9 (5.5-17) | 8.6 (4.7-15) | 7.5 (4.1-13) | 6.6 (3.6-11) |
| 3 | 18 (10-28) | 17 (9.3-28) | 17 (8.7-28) | 14 (7.5-25) | 13 (6.5-22) | 11 (5.6-19) | 9.6 (4.8-17) |
| 4 | 25 (16-37) | 24 (15-36) | 23 (14-36) | 21 (12-32) | 18 (10-28) | 16 (8.7-25) | 14 (7.5-22) |
| 5 | 35 (25-44) | 33 (24-43) | 32 (24-42) | 29 (21-37) | 25 (18-33) | 22 (16-30) | 19 (14-26) |
| 6 | 46 | 45 | 43 | 39 | 34 | 30 | 27 |

**FRAX®**  WHO Fracture Risk Assessment Tool

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

**Age = 65 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 6.0 | 5.7 | 5.6 | 4.8 | 4.2 | 3.6 | 3.1 |
| 1 | 9.1 (6.4-12) | 8.6 (6.0-11) | 8.4 (5.8-11) | 7.3 (5.0-9.4) | 6.3 (4.3-8.1) | 5.4 (3.7-7.1) | 4.7 (3.2-6.2) |
| 2 | 13 (8.4-20) | 13 (7.6-20) | 12 (7.2-20) | 11 (6.1-17) | 9.3 (5.2-15) | 8.0 (4.5-13) | 6.9 (3.9-12) |
| 3 | 19 (13-28) | 18 (11-29) | 18 (10-29) | 15 (8.6-26) | 13 (7.3-22) | 12 (6.2-20) | 10 (5.3-17) |
| 4 | 27 (19-38) | 26 (17-38) | 25 (16-37) | 22 (13-33) | 19 (11-29) | 16 (9.6-26) | 14 (8.1-23) |
| 5 | 37 (28-46) | 35 (27-45) | 34 (26-44) | 30 (23-39) | 26 (20-35) | 23 (17-30) | 20 (15-27) |
| 6 | 47 | 46 | 45 | 40 | 35 | 31 | 27 |

**Age = 70 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 7.2 | 6.7 | 6.3 | 5.4 | 4.6 | 4.0 | 3.4 |
| 1 | 11 (7.8-14) | 9.8 (7.2-13) | 9.2 (6.7-12) | 7.8 (5.7-10) | 6.7 (4.8-8.7) | 5.7 (4.1-7.5) | 4.9 (3.5-6.4) |
| 2 | 16 (10-23) | 14 (9.3-21) | 13 (8.5-19) | 11 (7.1-16) | 9.6 (6.0-14) | 8.2 (5.1-12) | 6.9 (4.3-10) |
| 3 | 23 (15-33) | 21 (14-30) | 19 (12-28) | 16 (10-24) | 14 (8.6-21) | 12 (7.2-18) | 9.9 (6.1-15) |
| 4 | 32 (22-43) | 30 (21-41) | 27 (19-38) | 23 (16-33) | 19 (13-28) | 16 (11-24) | 14 (9.2-21) |
| 5 | 43 (37-52) | 40 (34-50) | 37 (30-46) | 32 (26-40) | 27 (22-35) | 23 (18-30) | 20 (15-26) |
| 6 | 54 | 52 | 49 | 43 | 37 | 32 | 27 |

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

**Age = 75 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 9.0 | 8.2 | 7.6 | 6.3 | 5.3 | 4.5 | 3.8 |
| 1 | 14 (9.8-21) | 13 (8.9-17) | 11 (8.1-14) | 9.3 (6.8-11) | 7.8 (5.6-9.6) | 6.5 (4.7-8.1) | 5.4 (3.9-6.9) |
| 2 | 22 (13-33) | 19 (12-28) | 17 (11-23) | 14 (8.8-19) | 11 (7.3-16) | 9.5 (6.0-13) | 7.9 (5.0-11) |
| 3 | 31 (18-46) | 28 (17-40) | 25 (16-35) | 20 (13-29) | 17 (11-24) | 14 (8.8-20) | 12 (7.3-17) |
| 4 | 42 (27-55) | 39 (26-52) | 35 (23-48) | 30 (19-41) | 25 (16-35) | 20 (13-29) | 17 (11-24) |
| 5 | 54 (40-63) | 52 (39-61) | 48 (37-58) | 41 (31-51) | 35 (26-44) | 29 (22-37) | 24 (18-31) |
| 6 | 65 | 63 | 61 | 54 | 47 | 41 | 34 |

**Age = 80 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **35** | **40** | **45** |
| 0 | 12 | 11 | 9.8 | 8.1 | 6.8 | 5.6 | 4.7 |
| 1 | 18 (13-27) | 16 (12-23) | 15 (11-19) | 12 (8.7-16) | 9.9 (7.1-13) | 8.2 (5.9-10) | 6.8 (4.8-8.4) |
| 2 | 26 (17-39) | 24 (16-35) | 21 (14-29) | 18 (11-24) | 15 (9.4-20) | 12 (7.7-16) | 9.8 (6.3-13) |
| 3 | 36 (23-50) | 34 (22-47) | 31 (20-41) | 26 (17-35) | 21 (14-29) | 17 (11-24) | 14 (8.9-20) |
| 4 | 47 (32-60) | 45 (31-56) | 42 (29-53) | 35 (24-47) | 30 (20-40) | 25 (16-34) | 20 (13-28) |
| 5 | 58 (44-66) | 56 (42-65) | 54 (41-63) | 47 (35-56) | 40 (30-49) | 34 (25-43) | 29 (21-36) |
| 6 | 68 | 66 | 65 | 58 | 52 | 45 | 39 |

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

**Age = 85 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 14 | 12 | 11 | 9.0 | 7.4 | 6.1 | 5.1 |
| 1 | 21 (15-32) | 19 (13-27) | 16 (12-22) | 13 (9.7-18) | 11 (7.9-15) | 9.1 (6.4-12) | 7.4 (5.3-9.6) |
| 2 | 30 (20-45) | 27 (18-40) | 24 (16-33) | 20 (13-28) | 16 (11-23) | 13 (8.5-19) | 11 (6.9-15) |
| 3 | 41 (27-56) | 38 (25-52) | 34 (23-46) | 29 (19-39) | 24 (15-33) | 20 (12-27) | 16 (9.9-23) |
| 4 | 53 (37-65) | 50 (35-62) | 46 (33-58) | 40 (27-51) | 34 (23-44) | 28 (18-38) | 23 (15-32) |
| 5 | 63 (50-70) | 61 (47-69) | 58 (45-67) | 52 (39-61) | 45 (33-54) | 38 (27-47) | 32 (23-40) |
| 6 | 71 | 70 | 69 | 63 | 57 | 50 | 43 |

**Age = 90 years**

| Number of CRFs | BMI (kg/m²) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 12 | 10 | 9.4 | 7.7 | 6.2 | 5.1 | 4.2 |
| 1 | 19 (13-29) | 16 (11-25) | 14 (10-20) | 12 (8.2-17) | 9.4 (6.6-13) | 7.6 (5.3-11) | 6.2 (4.3-8.4) |
| 2 | 28 (18-42) | 24 (16-37) | 22 (14-31) | 18 (11-25) | 14 (9.0-21) | 12 (7.2-17) | 9.3 (5.8-13) |
| 3 | 39 (25-53) | 35 (22-48) | 31 (20-43) | 26 (16-36) | 21 (13-30) | 17 (10-25) | 14 (8.2-20) |
| 4 | 50 (35-62) | 47 (32-58) | 43 (29-54) | 36 (24-47) | 30 (20-41) | 25 (16-34) | 20 (13-28) |
| 5 | 61 (47-68) | 59 (44-67) | 55 (41-64) | 48 (34-57) | 41 (29-50) | 35 (24-43) | 29 (19-37) |
| 6 | 68 | 68 | 66 | 60 | 54 | 47 | 40 |