

**Italy - 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/m<sup>2</sup>), 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 <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 2.4                      | 2.2           | 2.1           | 1.9           | 1.6           | 1.4           | 1.2           |
| 1              | 3.8 (2.6-5.6)            | 3.5 (2.4-4.9) | 3.3 (2.2-4.6) | 2.9 (1.9-4.0) | 2.5 (1.7-3.5) | 2.2 (1.5-3.0) | 1.9 (1.3-2.6) |
| 2              | 6.1 (3.3-10)             | 5.4 (2.9-9.2) | 5.1 (2.7-8.8) | 4.4 (2.3-7.7) | 3.9 (2.0-6.8) | 3.4 (1.8-5.9) | 3.0 (1.5-5.2) |
| 3              | 9.6 (4.8-16)             | 8.4 (4.1-15)  | 7.7 (3.7-14)  | 6.7 (3.2-12)  | 5.9 (2.8-11)  | 5.1 (2.4-9.5) | 4.5 (2.1-8.4) |
| 4              | 15 (8.3-23)              | 13 (6.9-20)   | 12 (6.1-19)   | 10 (5.3-17)   | 8.8 (4.6-15)  | 7.6 (4.0-13)  | 6.7 (3.4-11)  |
| 5              | 22 (14-29)               | 19 (12-25)    | 17 (11-23)    | 15 (10-20)    | 13 (8.7-17)   | 11 (7.6-15)   | 9.8 (6.7-13)  |
| 6              | 33                       | 28            | 24            | 21            | 19            | 16            | 14            |

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

**Age = 55 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 2.8                      | 2.5           | 2.4           | 2.1           | 1.8           | 1.6           | 1.4           |
| 1              | 4.5 (3.1-6.5)            | 4.0 (2.7-5.6) | 3.7 (2.5-5.1) | 3.2 (2.2-4.4) | 2.8 (1.9-3.8) | 2.4 (1.7-3.3) | 2.1 (1.4-2.9) |
| 2              | 7.2 (4.1-11)             | 6.2 (3.5-10)  | 5.7 (3.1-9.6) | 5.0 (2.7-8.4) | 4.3 (2.3-7.4) | 3.7 (2.0-6.4) | 3.3 (1.7-5.6) |
| 3              | 11 (6.1-18)              | 9.6 (5.0-16)  | 8.7 (4.3-15)  | 7.5 (3.7-13)  | 6.5 (3.2-12)  | 5.7 (2.8-10)  | 4.9 (2.4-9.0) |
| 4              | 17 (10-26)               | 15 (8.5-23)   | 13 (7.2-21)   | 11 (6.2-18)   | 9.7 (5.3-16)  | 8.4 (4.6-14)  | 7.3 (3.9-12)  |
| 5              | 26 (17-33)               | 22 (14-28)    | 19 (13-25)    | 16 (11-22)    | 14 (9.9-19)   | 12 (8.6-17)   | 11 (7.4-15)   |
| 6              | 38                       | 31            | 27            | 24            | 21            | 18            | 15            |

**Age = 60 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 3.5                      | 3.1           | 2.9           | 2.5           | 2.1           | 1.9           | 1.6           |
| 1              | 5.7 (4.1-8.0)            | 4.9 (3.4-6.7) | 4.5 (3.1-6.0) | 3.8 (2.6-5.1) | 3.3 (2.3-4.4) | 2.9 (2.0-3.8) | 2.5 (1.7-3.3) |
| 2              | 9.0 (5.4-13)             | 7.6 (4.4-12)  | 6.8 (3.8-11)  | 5.9 (3.3-9.6) | 5.1 (2.8-8.4) | 4.4 (2.4-7.3) | 3.8 (2.1-6.4) |
| 3              | 14 (8.3-21)              | 12 (6.5-19)   | 10 (5.5-17)   | 8.9 (4.7-15)  | 7.6 (4.0-13)  | 6.6 (3.4-12)  | 5.7 (2.9-10)  |
| 4              | 21 (13-30)               | 17 (11-26)    | 15 (9.2-24)   | 13 (7.8-21)   | 11 (6.6-18)   | 9.7 (5.6-16)  | 8.4 (4.7-14)  |
| 5              | 31 (21-38)               | 26 (18-32)    | 22 (16-29)    | 19 (14-25)    | 16 (12-22)    | 14 (10-19)    | 12 (8.6-16)   |
| 6              | 43                       | 36            | 32            | 27            | 24            | 20            | 18            |

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

**Age = 65 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 4.5                      | 3.8           | 3.4           | 2.9           | 2.5           | 2.2           | 1.9           |
| 1              | 7.0 (5.2-9.5)            | 6.0 (4.3-7.9) | 5.3 (3.8-6.9) | 4.5 (3.2-5.9) | 3.9 (2.7-5.1) | 3.3 (2.3-4.3) | 2.8 (2.0-3.7) |
| 2              | 11 (7.1-15)              | 9.2 (5.7-13)  | 8.1 (4.8-13)  | 6.9 (4.0-11)  | 5.9 (3.4-9.4) | 5.0 (2.9-8.1) | 4.3 (2.4-7.0) |
| 3              | 16 (11-23)               | 14 (8.6-21)   | 12 (7.0-19)   | 10 (5.9-17)   | 8.8 (4.9-15)  | 7.5 (4.1-13)  | 6.4 (3.5-11)  |
| 4              | 24 (16-33)               | 20 (14-29)    | 18 (12-27)    | 15 (9.7-23)   | 13 (8.1-20)   | 11 (6.7-17)   | 9.4 (5.6-15)  |
| 5              | 34 (25-42)               | 29 (22-36)    | 25 (19-32)    | 22 (16-28)    | 19 (14-24)    | 16 (12-21)    | 14 (9.9-18)   |
| 6              | 46                       | 40            | 36            | 31            | 26            | 22            | 19            |

**Age = 70 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 5.7                      | 4.9           | 4.4           | 3.7           | 3.1           | 2.6           | 2.2           |
| 1              | 8.9 (6.5-11)             | 7.5 (5.5-9.5) | 6.6 (4.8-8.4) | 5.5 (4.0-7.1) | 4.6 (3.3-6.0) | 3.9 (2.8-5.1) | 3.3 (2.3-4.3) |
| 2              | 14 (9.0-20)              | 12 (7.4-16)   | 9.8 (6.3-14)  | 8.2 (5.2-12)  | 6.8 (4.3-9.8) | 5.7 (3.6-8.2) | 4.8 (3.0-6.9) |
| 3              | 21 (13-29)               | 17 (12-25)    | 15 (9.4-22)   | 12 (7.8-18)   | 10 (6.4-15)   | 8.5 (5.3-13)  | 7.0 (4.4-11)  |
| 4              | 30 (21-41)               | 26 (18-36)    | 22 (15-31)    | 18 (12-26)    | 15 (10-22)    | 12 (8.3-18)   | 10 (6.8-15)   |
| 5              | 41 (35-50)               | 37 (31-45)    | 31 (26-39)    | 26 (21-33)    | 22 (18-28)    | 18 (14-24)    | 15 (12-20)    |
| 6              | 53                       | 49            | 44            | 37            | 32            | 26            | 22            |

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

**Age = 75 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |             |              |               |               |               |               |
|----------------|--------------------------|-------------|--------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20          | 25           | 30            | 35            | 40            | 45            |
| 0              | 7.7                      | 6.8         | 6.0          | 5.0           | 4.2           | 3.5           | 2.9           |
| 1              | 12 (8.5-19)              | 11 (7.5-15) | 9.2 (6.6-12) | 7.6 (5.4-9.7) | 6.3 (4.5-7.8) | 5.2 (3.7-6.3) | 4.3 (3.0-5.3) |
| 2              | 19 (12-30)               | 17 (10-26)  | 14 (8.8-21)  | 12 (7.2-17)   | 9.5 (5.9-14)  | 7.8 (4.8-11)  | 6.4 (3.9-9.1) |
| 3              | 29 (17-43)               | 25 (15-38)  | 22 (13-31)   | 18 (11-26)    | 15 (8.9-21)   | 12 (7.2-17)   | 9.6 (5.8-14)  |
| 4              | 40 (25-53)               | 37 (23-49)  | 32 (20-44)   | 27 (17-37)    | 22 (13-31)    | 18 (11-26)    | 15 (8.8-21)   |
| 5              | 52 (37-61)               | 49 (35-59)  | 45 (33-54)   | 38 (27-47)    | 32 (23-40)    | 26 (19-34)    | 22 (15-28)    |
| 6              | 63                       | 61          | 58           | 51            | 44            | 37            | 31            |

**Age = 80 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |            |             |             |              |               |               |
|----------------|--------------------------|------------|-------------|-------------|--------------|---------------|---------------|
|                | 15                       | 20         | 25          | 30          | 35           | 40            | 45            |
| 0              | 10                       | 9.2        | 8.3         | 6.8         | 5.6          | 4.6           | 3.8           |
| 1              | 16 (11-26)               | 14 (10-22) | 13 (9.1-18) | 10 (7.4-14) | 8.4 (6.0-11) | 6.8 (4.8-9.2) | 5.6 (3.9-7.3) |
| 2              | 24 (15-37)               | 22 (14-33) | 19 (12-27)  | 16 (9.9-22) | 13 (8.0-18)  | 10 (6.5-14)   | 8.3 (5.2-12)  |
| 3              | 34 (21-48)               | 31 (19-44) | 28 (18-38)  | 23 (14-32)  | 19 (12-27)   | 15 (9.3-22)   | 12 (7.4-18)   |
| 4              | 45 (29-57)               | 42 (28-54) | 39 (26-50)  | 33 (22-43)  | 27 (18-37)   | 22 (14-31)    | 18 (11-25)    |
| 5              | 56 (41-64)               | 53 (39-62) | 51 (37-60)  | 44 (31-53)  | 37 (26-46)   | 31 (21-39)    | 26 (18-33)    |
| 6              | 66                       | 64         | 62          | 56          | 49           | 42            | 36            |

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

**Age = 85 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |            |            |             |             |              |               |
|----------------|--------------------------|------------|------------|-------------|-------------|--------------|---------------|
|                | 15                       | 20         | 25         | 30          | 35          | 40           | 45            |
| 0              | 13                       | 11         | 9.9        | 8.0         | 6.5         | 5.3          | 4.3           |
| 1              | 20 (14-31)               | 17 (12-26) | 15 (11-22) | 12 (8.7-18) | 10 (7.0-14) | 8.1 (5.6-11) | 6.5 (4.5-9.0) |
| 2              | 29 (19-43)               | 26 (17-39) | 23 (15-33) | 19 (12-27)  | 15 (9.5-22) | 12 (7.6-18)  | 9.8 (6.1-14)  |
| 3              | 40 (26-54)               | 36 (23-50) | 33 (21-45) | 27 (17-38)  | 22 (14-32)  | 18 (11-26)   | 15 (8.7-21)   |
| 4              | 51 (35-63)               | 48 (33-60) | 44 (30-56) | 38 (25-49)  | 32 (21-42)  | 26 (17-36)   | 22 (13-30)    |
| 5              | 61 (47-69)               | 59 (45-68) | 56 (42-65) | 50 (36-59)  | 43 (30-52)  | 37 (25-45)   | 31 (20-38)    |
| 6              | 69                       | 69         | 67         | 61          | 55          | 48           | 41            |

**Age = 90 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |            |            |             |              |              |               |
|----------------|--------------------------|------------|------------|-------------|--------------|--------------|---------------|
|                | 15                       | 20         | 25         | 30          | 35           | 40           | 45            |
| 0              | 12                       | 10         | 9.4        | 7.6         | 6.1          | 4.9          | 4.0           |
| 1              | 19 (13-30)               | 16 (12-25) | 14 (10-21) | 12 (8.2-17) | 9.4 (6.5-14) | 7.5 (5.2-11) | 6.1 (4.2-8.6) |
| 2              | 28 (18-42)               | 25 (16-37) | 22 (14-32) | 18 (11-26)  | 14 (9.0-21)  | 11 (7.1-17)  | 9.2 (5.7-14)  |
| 3              | 39 (25-53)               | 35 (22-49) | 31 (20-44) | 26 (16-37)  | 21 (13-31)   | 17 (10-25)   | 14 (8.0-21)   |
| 4              | 50 (34-62)               | 47 (31-59) | 43 (29-55) | 36 (24-48)  | 30 (19-41)   | 25 (16-34)   | 20 (13-28)    |
| 5              | 60 (47-67)               | 58 (44-66) | 55 (40-64) | 48 (34-57)  | 42 (28-51)   | 35 (23-44)   | 29 (19-37)    |
| 6              | 67                       | 68         | 66         | 60          | 54           | 47           | 40            |