

### Singapore (Chinese) - 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 Singapore (Chinese). 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              | 1.2                      | 1.1           | 1.1           | 0.9           | 0.8           | 0.7           | 0.6           |
| 1              | 2.0 (1.3-3.0)            | 1.8 (1.2-2.6) | 1.7 (1.1-2.4) | 1.5 (1.0-2.0) | 1.3 (0.9-1.8) | 1.1 (0.7-1.5) | 1.0 (0.7-1.3) |
| 2              | 3.2 (1.7-5.3)            | 2.8 (1.5-4.8) | 2.6 (1.4-4.6) | 2.3 (1.2-4.0) | 2.0 (1.0-3.5) | 1.7 (0.9-3.0) | 1.5 (0.8-2.7) |
| 3              | 5.1 (2.5-8.7)            | 4.4 (2.1-7.9) | 4.0 (1.9-7.4) | 3.5 (1.6-6.4) | 3.0 (1.4-5.6) | 2.6 (1.2-4.9) | 2.3 (1.1-4.3) |
| 4              | 8.0 (4.4-13)             | 6.8 (3.6-11)  | 6.1 (3.2-10)  | 5.3 (2.7-8.7) | 4.5 (2.3-7.6) | 3.9 (2.0-6.6) | 3.4 (1.7-5.8) |
| 5              | 12 (7.3-16)              | 10 (6.4-14)   | 9.1 (6.0-12)  | 7.8 (5.2-11)  | 6.8 (4.5-9.2) | 5.8 (3.9-8.0) | 5.1 (3.4-7.0) |
| 6              | 19                       | 15            | 13            | 12            | 9.9           | 8.6           | 7.4           |

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

**Age = 55 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 1.9                      | 1.7           | 1.6           | 1.4           | 1.2           | 1.1           | 0.9           |
| 1              | 3.1 (2.2-4.6)            | 2.8 (1.9-3.9) | 2.6 (1.7-3.5) | 2.2 (1.5-3.0) | 1.9 (1.3-2.6) | 1.7 (1.1-2.3) | 1.4 (1.0-2.0) |
| 2              | 5.0 (2.8-7.9)            | 4.3 (2.4-7.1) | 4.0 (2.1-6.7) | 3.4 (1.8-5.8) | 3.0 (1.6-5.1) | 2.6 (1.4-4.4) | 2.2 (1.2-3.8) |
| 3              | 7.9 (4.3-13)             | 6.7 (3.5-12)  | 6.0 (3.0-11)  | 5.2 (2.6-9.3) | 4.5 (2.2-8.1) | 3.9 (1.9-7.0) | 3.4 (1.6-6.1) |
| 4              | 12 (7.1-19)              | 10 (6.0-16)   | 9.1 (5.1-15)  | 7.8 (4.3-13)  | 6.7 (3.7-11)  | 5.8 (3.1-9.6) | 5.0 (2.7-8.3) |
| 5              | 19 (12-24)               | 16 (10-20)    | 14 (9.1-18)   | 12 (7.8-16)   | 10 (6.7-13)   | 8.6 (5.8-12)  | 7.4 (5.0-10)  |
| 6              | 28                       | 23            | 20            | 17            | 15            | 12            | 11            |

**Age = 60 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 3.1                      | 2.8           | 2.5           | 2.2           | 1.9           | 1.6           | 1.4           |
| 1              | 5.0 (3.6-7.2)            | 4.3 (3.1-6.0) | 4.0 (2.7-5.3) | 3.4 (2.3-4.6) | 2.9 (2.0-3.9) | 2.5 (1.7-3.4) | 2.2 (1.5-2.9) |
| 2              | 8.0 (4.8-12)             | 6.8 (4.0-11)  | 6.1 (3.4-9.8) | 5.2 (2.9-8.5) | 4.5 (2.5-7.4) | 3.8 (2.1-6.4) | 3.3 (1.8-5.6) |
| 3              | 12 (7.5-19)              | 10 (5.9-17)   | 9.2 (4.9-16)  | 7.9 (4.2-13)  | 6.7 (3.5-12)  | 5.8 (3.0-10)  | 5.0 (2.5-8.7) |
| 4              | 19 (12-27)               | 16 (9.8-23)   | 14 (8.3-21)   | 12 (6.9-18)   | 10 (5.8-16)   | 8.6 (4.9-14)  | 7.4 (4.1-12)  |
| 5              | 27 (18-34)               | 23 (16-29)    | 20 (14-26)    | 17 (12-22)    | 15 (10-19)    | 13 (8.8-17)   | 11 (7.5-14)   |
| 6              | 38                       | 33            | 29            | 25            | 21            | 18            | 15            |

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

**Age = 65 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |               |               |               |               |               |               |
|----------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20            | 25            | 30            | 35            | 40            | 45            |
| 0              | 4.9                      | 4.2           | 3.8           | 3.2           | 2.7           | 2.3           | 2.0           |
| 1              | 7.6 (5.6-10)             | 6.5 (4.7-8.7) | 5.8 (4.1-7.6) | 4.9 (3.5-6.4) | 4.2 (2.9-5.5) | 3.6 (2.5-4.7) | 3.1 (2.1-4.0) |
| 2              | 12 (7.7-16)              | 10 (6.2-15)   | 8.8 (5.3-14)  | 7.5 (4.4-12)  | 6.3 (3.7-10)  | 5.4 (3.1-8.7) | 4.6 (2.6-7.5) |
| 3              | 18 (12-25)               | 15 (9.5-22)   | 13 (7.7-21)   | 11 (6.5-18)   | 9.5 (5.4-15)  | 8.1 (4.5-13)  | 6.9 (3.8-11)  |
| 4              | 25 (18-34)               | 22 (15-31)    | 19 (13-28)    | 16 (11-24)    | 14 (8.8-21)   | 12 (7.3-18)   | 10 (6.1-16)   |
| 5              | 35 (26-43)               | 31 (23-39)    | 27 (20-35)    | 23 (17-30)    | 20 (15-26)    | 17 (12-22)    | 14 (10-19)    |
| 6              | 46                       | 42            | 38            | 33            | 28            | 24            | 20            |

**Age = 70 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |              |              |               |               |               |               |
|----------------|--------------------------|--------------|--------------|---------------|---------------|---------------|---------------|
|                | 15                       | 20           | 25           | 30            | 35            | 40            | 45            |
| 0              | 7.0                      | 6.1          | 5.5          | 4.7           | 3.9           | 3.3           | 2.8           |
| 1              | 11 (7.9-14)              | 9.3 (6.8-12) | 8.2 (6.0-10) | 6.9 (5.0-8.9) | 5.8 (4.2-7.5) | 4.9 (3.5-6.4) | 4.1 (3.0-5.4) |
| 2              | 17 (11-24)               | 14 (9.1-20)  | 12 (7.8-17)  | 10 (6.5-14)   | 8.5 (5.4-12)  | 7.2 (4.5-10)  | 6.0 (3.8-8.7) |
| 3              | 25 (16-34)               | 21 (14-30)   | 18 (12-26)   | 15 (9.6-22)   | 13 (7.9-19)   | 10 (6.6-16)   | 8.8 (5.5-13)  |
| 4              | 35 (25-46)               | 30 (21-41)   | 26 (18-37)   | 22 (15-31)    | 18 (12-26)    | 15 (10-22)    | 13 (8.4-19)   |
| 5              | 47 (40-56)               | 42 (36-51)   | 37 (31-45)   | 31 (26-39)    | 26 (21-33)    | 22 (17-28)    | 18 (14-24)    |
| 6              | 58                       | 55           | 50           | 43            | 37            | 31            | 26            |

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

**Age = 75 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |             |             |              |               |               |               |
|----------------|--------------------------|-------------|-------------|--------------|---------------|---------------|---------------|
|                | 15                       | 20          | 25          | 30           | 35            | 40            | 45            |
| 0              | 9.0                      | 8.0         | 7.3         | 6.1          | 5.1           | 4.3           | 3.6           |
| 1              | 14 (9.9-21)              | 12 (8.8-17) | 11 (7.9-14) | 9.1 (6.5-11) | 7.5 (5.4-9.1) | 6.3 (4.5-7.7) | 5.2 (3.7-6.5) |
| 2              | 22 (14-34)               | 19 (12-28)  | 16 (10-23)  | 14 (8.6-19)  | 11 (7.0-16)   | 9.3 (5.8-13)  | 7.6 (4.8-11)  |
| 3              | 32 (19-47)               | 29 (17-41)  | 25 (16-35)  | 20 (13-29)   | 17 (10-24)    | 14 (8.6-20)   | 11 (7.1-16)   |
| 4              | 44 (29-57)               | 40 (26-53)  | 35 (23-48)  | 30 (19-41)   | 25 (16-35)    | 20 (13-29)    | 17 (10-24)    |
| 5              | 56 (42-65)               | 53 (40-63)  | 49 (37-58)  | 42 (31-51)   | 35 (26-44)    | 30 (22-38)    | 25 (18-32)    |
| 6              | 68                       | 65          | 62          | 55           | 48            | 41            | 35            |

**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 (11-25)               | 14 (10-21) | 13 (9.1-17) | 10 (7.3-14) | 8.4 (6.0-11) | 6.9 (4.9-9.0) | 5.6 (4.0-7.2) |
| 2              | 24 (15-37)               | 21 (14-32) | 19 (12-26)  | 15 (9.9-22) | 13 (8.0-17)  | 10 (6.5-14)   | 8.3 (5.2-12)  |
| 3              | 34 (21-47)               | 31 (19-43) | 27 (18-38)  | 23 (14-32)  | 19 (12-26)   | 15 (9.3-21)   | 12 (7.5-18)   |
| 4              | 45 (30-57)               | 42 (28-53) | 38 (26-50)  | 32 (22-43)  | 27 (17-36)   | 22 (14-30)    | 18 (11-25)    |
| 5              | 56 (41-65)               | 53 (39-62) | 50 (37-59)  | 44 (31-53)  | 37 (26-46)   | 31 (22-39)    | 26 (18-33)    |
| 6              | 66                       | 64         | 62          | 55          | 49           | 42            | 35            |

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

**Age = 85 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |            |             |             |              |              |               |
|----------------|--------------------------|------------|-------------|-------------|--------------|--------------|---------------|
|                | 15                       | 20         | 25          | 30          | 35           | 40           | 45            |
| 0              | 11                       | 9.7        | 8.8         | 7.2         | 5.8          | 4.7          | 3.8           |
| 1              | 17 (12-27)               | 15 (11-24) | 14 (9.6-20) | 11 (7.7-16) | 8.8 (6.1-13) | 7.1 (4.9-10) | 5.7 (3.9-8.0) |
| 2              | 26 (17-39)               | 23 (15-35) | 20 (13-30)  | 17 (11-24)  | 13 (8.4-20)  | 11 (6.7-16)  | 8.6 (5.3-13)  |
| 3              | 36 (23-50)               | 33 (20-46) | 30 (19-41)  | 24 (15-35)  | 20 (12-29)   | 16 (9.4-24)  | 13 (7.5-19)   |
| 4              | 47 (31-60)               | 44 (29-56) | 41 (27-52)  | 34 (22-45)  | 29 (18-39)   | 23 (15-32)   | 19 (12-27)    |
| 5              | 58 (44-66)               | 56 (41-64) | 53 (38-61)  | 46 (32-55)  | 39 (27-48)   | 33 (22-41)   | 27 (18-35)    |
| 6              | 67                       | 66         | 64          | 58          | 51           | 44           | 37            |

**Age = 90 years**

| Number of CRFs | BMI (kg/m <sup>2</sup> ) |            |             |             |              |               |               |
|----------------|--------------------------|------------|-------------|-------------|--------------|---------------|---------------|
|                | 15                       | 20         | 25          | 30          | 35           | 40            | 45            |
| 0              | 10                       | 9.4        | 8.8         | 7.1         | 5.8          | 4.7           | 3.8           |
| 1              | 17 (12-27)               | 15 (10-23) | 13 (9.4-20) | 11 (7.5-16) | 8.7 (5.9-12) | 7.0 (4.7-9.9) | 5.6 (3.8-7.8) |
| 2              | 25 (17-39)               | 22 (14-34) | 20 (13-29)  | 16 (10-24)  | 13 (8.1-19)  | 10 (6.4-16)   | 8.4 (5.1-12)  |
| 3              | 36 (23-50)               | 32 (20-45) | 29 (18-41)  | 24 (14-34)  | 19 (11-28)   | 16 (9.0-23)   | 12 (7.1-19)   |
| 4              | 47 (32-59)               | 44 (28-55) | 40 (26-51)  | 34 (21-44)  | 28 (17-38)   | 23 (14-31)    | 18 (11-26)    |
| 5              | 58 (44-65)               | 55 (40-64) | 52 (37-61)  | 45 (31-54)  | 38 (26-47)   | 32 (21-40)    | 26 (17-34)    |
| 6              | 65                       | 65         | 63          | 57          | 50           | 44            | 37            |