

**South Korea - 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 the T-score for femoral neck BMD, the number of clinical risk factors (CRF) and age. Each table provides a mean estimate and a range, based on the epidemiology of South Korea. The range is not a confidence interval, but because the weight of different risk factors varies, is a true range.

Note that the BMI is set at 24 kg/m<sup>2</sup>.

**Age = 50 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |              |               |               |               |               |               |               |               |
|----------------|----------------------------|------------|------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5         | -2.0          | -1.5          | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 19                         | 12         | 8.3        | 6.1          | 4.8           | 3.9           | 3.3           | 3.0           | 2.9           | 2.7           | 2.6           |
| 1              | 28 (25-35)                 | 18 (16-23) | 13 (11-16) | 9.2 (7.2-12) | 7.2 (5.3-9.0) | 5.9 (4.1-7.7) | 5.0 (3.4-6.7) | 4.5 (3.0-6.2) | 4.3 (2.8-5.9) | 4.1 (2.6-5.7) | 3.9 (2.5-5.5) |
| 2              | 40 (32-53)                 | 27 (22-37) | 19 (14-26) | 14 (9.5-20)  | 11 (6.7-16)   | 8.7 (5.1-14)  | 7.4 (4.1-12)  | 6.7 (3.6-11)  | 6.3 (3.3-11)  | 6.0 (3.1-10)  | 5.8 (3.0-10)  |
| 3              | 54 (41-68)                 | 38 (28-49) | 27 (19-38) | 20 (13-30)   | 15 (8.9-26)   | 13 (6.7-22)   | 11 (5.3-19)   | 9.6 (4.6-18)  | 9.1 (4.3-17)  | 8.7 (4.0-17)  | 8.4 (3.8-16)  |
| 4              | 69 (53-81)                 | 52 (37-61) | 38 (26-47) | 28 (19-38)   | 22 (15-32)    | 18 (11-28)    | 15 (8.8-24)   | 14 (7.6-23)   | 13 (6.9-22)   | 12 (6.5-21)   | 12 (6.2-20)   |
| 5              | 82 (74-89)                 | 66 (56-73) | 50 (41-56) | 38 (30-45)   | 30 (24-38)    | 25 (19-32)    | 21 (16-28)    | 19 (14-26)    | 18 (13-25)    | 17 (12-24)    | 16 (11-23)    |
| 6              | 92                         | 80         | 64         | 51           | 41            | 33            | 28            | 26            | 24            | 23            | 22            |

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

**Age = 55 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |             |              |               |               |               |               |               |               |
|----------------|----------------------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5        | -2.0         | -1.5          | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 20                         | 13         | 9.5        | 7.1         | 5.6          | 4.6           | 3.8           | 3.5           | 3.3           | 3.1           | 2.9           |
| 1              | 29 (26-35)                 | 20 (18-24) | 14 (12-17) | 11 (8.4-13) | 8.4 (6.2-10) | 6.8 (4.8-8.9) | 5.7 (3.9-7.7) | 5.2 (3.5-7.2) | 4.9 (3.2-6.8) | 4.6 (3.0-6.4) | 4.4 (2.8-6.1) |
| 2              | 41 (34-53)                 | 29 (24-38) | 21 (16-28) | 16 (11-22)  | 12 (8.0-18)  | 10 (6.0-16)   | 8.4 (4.8-14)  | 7.6 (4.2-13)  | 7.1 (3.8-12)  | 6.7 (3.5-11)  | 6.4 (3.3-11)  |
| 3              | 55 (43-67)                 | 40 (31-51) | 30 (22-41) | 22 (15-34)  | 18 (11-28)   | 14 (7.9-24)   | 12 (6.2-21)   | 11 (5.5-20)   | 10 (4.9-19)   | 9.6 (4.6-18)  | 9.1 (4.3-17)  |
| 4              | 69 (55-79)                 | 53 (40-61) | 40 (29-50) | 31 (22-42)  | 25 (17-35)   | 20 (13-30)    | 17 (10-27)    | 15 (8.9-25)   | 14 (8.0-24)   | 14 (7.4-23)   | 13 (6.9-22)   |
| 5              | 82 (75-87)                 | 67 (59-73) | 53 (45-59) | 42 (34-49)  | 33 (27-41)   | 27 (22-36)    | 23 (18-31)    | 21 (16-29)    | 20 (14-27)    | 19 (13-26)    | 18 (12-25)    |
| 6              | 90                         | 80         | 67         | 54          | 44           | 37            | 31            | 28            | 27            | 25            | 24            |

**Age = 60 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |             |              |               |               |               |               |               |               |
|----------------|----------------------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5        | -2.0         | -1.5          | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 21                         | 15         | 11         | 8.1         | 6.3          | 5.1           | 4.3           | 3.9           | 3.6           | 3.4           | 3.1           |
| 1              | 31 (28-35)                 | 22 (20-25) | 16 (13-18) | 12 (9.5-14) | 9.4 (7.1-12) | 7.5 (5.4-9.8) | 6.4 (4.5-8.6) | 5.8 (3.9-8.0) | 5.3 (3.5-7.4) | 5.0 (3.2-7.0) | 4.6 (3.0-6.5) |
| 2              | 42 (36-53)                 | 31 (26-39) | 23 (18-29) | 17 (13-24)  | 14 (9.1-20)  | 11 (6.8-17)   | 9.3 (5.5-15)  | 8.4 (4.8-14)  | 7.7 (4.2-13)  | 7.2 (3.9-12)  | 6.7 (3.6-11)  |
| 3              | 56 (46-65)                 | 42 (34-53) | 32 (24-43) | 24 (17-36)  | 19 (12-30)   | 16 (9.0-26)   | 13 (7.2-23)   | 12 (6.2-21)   | 11 (5.5-20)   | 10 (5.0-19)   | 9.5 (4.6-18)  |
| 4              | 69 (57-77)                 | 55 (43-63) | 43 (32-53) | 33 (24-44)  | 26 (19-37)   | 22 (15-32)    | 18 (12-28)    | 17 (10-26)    | 15 (8.8-25)   | 14 (8.0-23)   | 13 (7.3-22)   |
| 5              | 81 (75-85)                 | 68 (61-72) | 55 (48-61) | 44 (37-52)  | 36 (30-44)   | 29 (24-37)    | 25 (20-33)    | 23 (17-31)    | 21 (15-29)    | 19 (14-27)    | 18 (13-25)    |
| 6              | 88                         | 79         | 68         | 56          | 46           | 38            | 33            | 30            | 28            | 26            | 24            |

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

**Age = 65 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |            |             |              |               |               |               |               |               |
|----------------|----------------------------|------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5       | -2.0        | -1.5         | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 23                         | 16         | 12         | 9.0        | 7.0         | 5.5          | 4.8           | 4.3           | 3.9           | 3.5           | 3.2           |
| 1              | 32 (30-36)                 | 23 (21-26) | 17 (15-19) | 13 (11-15) | 10 (7.8-13) | 8.1 (5.9-10) | 7.0 (4.9-9.3) | 6.2 (4.3-8.5) | 5.6 (3.8-7.8) | 5.1 (3.4-7.2) | 4.7 (3.1-6.7) |
| 2              | 43 (37-52)                 | 32 (28-40) | 24 (20-30) | 19 (14-25) | 15 (10-20)  | 12 (7.5-17)  | 10 (6.2-15)   | 8.9 (5.2-14)  | 8.1 (4.6-13)  | 7.4 (4.1-12)  | 6.8 (3.7-11)  |
| 3              | 56 (47-64)                 | 43 (36-53) | 33 (26-44) | 26 (18-37) | 20 (13-31)  | 16 (9.9-26)  | 14 (8.1-24)   | 13 (6.8-22)   | 11 (5.9-20)   | 10 (5.3-19)   | 9.6 (4.7-17)  |
| 4              | 68 (58-73)                 | 55 (45-63) | 44 (34-53) | 35 (26-45) | 28 (21-38)  | 22 (16-32)   | 19 (13-29)    | 17 (11-27)    | 16 (9.4-25)   | 14 (8.4-23)   | 13 (7.5-22)   |
| 5              | 78 (74-81)                 | 67 (62-72) | 55 (50-62) | 45 (40-53) | 37 (31-45)  | 30 (25-38)   | 26 (21-34)    | 23 (18-31)    | 21 (16-29)    | 19 (14-27)    | 18 (12-25)    |
| 6              | 85                         | 77         | 67         | 56         | 47          | 39           | 34            | 31            | 28            | 26            | 24            |

**Age = 70 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |            |             |              |               |               |               |               |               |
|----------------|----------------------------|------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5       | -2.0        | -1.5         | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 24                         | 17         | 13         | 9.8        | 7.5         | 6.1          | 5.2           | 4.5           | 4.0           | 3.6           | 3.3           |
| 1              | 34 (30-40)                 | 25 (22-30) | 19 (16-22) | 14 (11-17) | 11 (8.4-13) | 8.6 (6.5-10) | 7.3 (5.4-8.5) | 6.3 (4.6-7.4) | 5.6 (4.0-6.6) | 5.0 (3.5-5.9) | 4.5 (3.1-5.3) |
| 2              | 46 (39-56)                 | 35 (28-44) | 26 (21-34) | 20 (15-26) | 15 (11-20)  | 12 (8.4-16)  | 10 (6.8-13)   | 8.7 (5.7-12)  | 7.6 (4.8-10)  | 6.7 (4.2-9.2) | 6.1 (3.7-8.3) |
| 3              | 60 (50-70)                 | 47 (37-58) | 37 (27-47) | 28 (20-38) | 21 (15-30)  | 17 (11-24)   | 14 (8.9-21)   | 12 (7.4-18)   | 10 (6.3-16)   | 9.1 (5.5-14)  | 8.1 (4.8-13)  |
| 4              | 72 (64-78)                 | 61 (51-69) | 49 (39-57) | 38 (29-46) | 29 (22-37)  | 23 (17-31)   | 19 (14-26)    | 16 (12-23)    | 14 (9.8-20)   | 12 (8.5-18)   | 11 (7.5-16)   |
| 5              | 81 (76-84)                 | 72 (66-77) | 62 (54-67) | 50 (43-56) | 39 (33-45)  | 31 (26-37)   | 26 (21-32)    | 22 (18-27)    | 19 (16-24)    | 16 (14-21)    | 14 (12-19)    |
| 6              | 86                         | 81         | 73         | 63         | 51          | 41           | 34            | 29            | 25            | 21            | 19            |

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

**Age = 75 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |            |             |              |               |               |               |               |               |
|----------------|----------------------------|------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5       | -2.0        | -1.5         | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 23                         | 18         | 13         | 10         | 7.9         | 6.6          | 5.6           | 4.9           | 4.3           | 3.8           | 3.4           |
| 1              | 34 (28-52)                 | 26 (21-40) | 20 (15-30) | 15 (11-22) | 12 (8.6-16) | 9.4 (6.9-12) | 7.8 (5.7-9.7) | 6.6 (4.8-7.8) | 5.7 (4.1-6.7) | 5.0 (3.6-5.9) | 4.4 (3.1-5.3) |
| 2              | 47 (36-65)                 | 38 (27-54) | 29 (20-43) | 22 (15-33) | 17 (11-25)  | 13 (8.9-19)  | 11 (7.3-15)   | 9.1 (6.0-12)  | 7.7 (5.1-10)  | 6.6 (4.4-9.0) | 5.8 (3.8-8.1) |
| 3              | 61 (45-74)                 | 51 (35-65) | 41 (27-54) | 32 (20-44) | 24 (15-34)  | 19 (12-27)   | 15 (9.6-22)   | 13 (7.9-18)   | 11 (6.7-15)   | 8.9 (5.7-12)  | 7.6 (4.9-11)  |
| 4              | 72 (57-81)                 | 64 (46-74) | 54 (36-65) | 44 (28-54) | 34 (21-43)  | 27 (17-35)   | 22 (14-28)    | 18 (12-23)    | 14 (10-19)    | 12 (8.6-16)   | 10 (7.5-14)   |
| 5              | 81 (67-85)                 | 75 (58-80) | 67 (48-73) | 57 (39-64) | 47 (31-53)  | 38 (25-43)   | 30 (21-36)    | 24 (18-29)    | 20 (15-24)    | 16 (13-20)    | 13 (12-17)    |
| 6              | 86                         | 83         | 77         | 70         | 60          | 50           | 41            | 33            | 27            | 22            | 18            |

**Age = 80 years**

| Number of CRFs | BMD T-score (femoral neck) |            |            |            |             |              |               |               |               |               |               |
|----------------|----------------------------|------------|------------|------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0       | -2.5       | -2.0        | -1.5         | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 20                         | 16         | 12         | 9.5        | 7.6         | 6.4          | 5.5           | 4.7           | 4.1           | 3.6           | 3.1           |
| 1              | 29 (22-44)                 | 23 (17-35) | 18 (13-27) | 14 (10-20) | 11 (7.9-15) | 9.0 (6.5-12) | 7.5 (5.4-9.8) | 6.4 (4.6-7.9) | 5.5 (3.9-6.4) | 4.7 (3.3-5.4) | 4.1 (2.9-4.8) |
| 2              | 39 (29-55)                 | 32 (22-46) | 25 (17-37) | 20 (13-29) | 15 (10-23)  | 13 (8.4-18)  | 10 (6.9-15)   | 8.7 (5.7-12)  | 7.4 (4.8-9.8) | 6.3 (4.1-8.1) | 5.4 (3.5-7.1) |
| 3              | 51 (37-65)                 | 43 (29-56) | 35 (23-47) | 27 (18-38) | 22 (14-30)  | 18 (11-24)   | 15 (9.1-20)   | 12 (7.6-17)   | 10 (6.4-14)   | 8.4 (5.4-12)  | 7.1 (4.6-9.9) |
| 4              | 62 (46-72)                 | 54 (37-65) | 46 (30-56) | 37 (23-46) | 30 (19-38)  | 25 (16-31)   | 20 (13-26)    | 16 (11-21)    | 14 (9.3-18)   | 11 (7.9-15)   | 9.4 (6.8-13)  |
| 5              | 72 (55-77)                 | 65 (47-71) | 57 (39-64) | 49 (32-55) | 40 (26-47)  | 34 (22-39)   | 28 (18-33)    | 23 (16-27)    | 18 (13-23)    | 15 (12-19)    | 13 (10-16)    |
| 6              | 79                         | 74         | 68         | 60         | 52          | 44           | 37            | 30            | 25            | 20            | 17            |

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

**Age = 85 years**

| Number of CRFs | BMD T-score (femoral neck) |            |             |             |              |              |               |               |               |               |               |
|----------------|----------------------------|------------|-------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5       | -3.0        | -2.5        | -2.0         | -1.5         | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 15                         | 12         | 9.2         | 7.2         | 6.0          | 5.1          | 4.3           | 3.7           | 3.2           | 2.8           | 2.4           |
| 1              | 21 (16-33)                 | 17 (12-26) | 13 (9.6-21) | 10 (7.4-16) | 8.6 (6.1-13) | 7.2 (5.1-10) | 6.1 (4.2-8.4) | 5.1 (3.6-6.8) | 4.4 (3.0-5.6) | 3.7 (2.6-4.6) | 3.2 (2.2-3.8) |
| 2              | 30 (21-43)                 | 24 (16-35) | 19 (13-28)  | 15 (9.9-23) | 12 (8.1-18)  | 10 (6.6-15)  | 8.5 (5.5-12)  | 7.1 (4.6-10)  | 6.0 (3.8-8.2) | 5.0 (3.2-6.8) | 4.3 (2.7-5.6) |
| 3              | 39 (27-52)                 | 33 (21-44) | 27 (17-37)  | 21 (13-30)  | 18 (11-24)   | 14 (8.8-20)  | 12 (7.3-17)   | 9.9 (6.1-14)  | 8.2 (5.1-11)  | 6.9 (4.3-9.6) | 5.8 (3.6-8.1) |
| 4              | 50 (34-61)                 | 43 (28-53) | 36 (22-45)  | 29 (18-37)  | 24 (15-31)   | 20 (12-26)   | 17 (10-22)    | 14 (8.6-18)   | 11 (7.2-15)   | 9.4 (6.1-13)  | 7.8 (5.2-11)  |
| 5              | 61 (43-67)                 | 54 (36-61) | 47 (30-53)  | 39 (24-46)  | 33 (20-39)   | 28 (17-33)   | 23 (14-28)    | 19 (12-23)    | 16 (10-19)    | 13 (8.8-16)   | 11 (7.6-14)   |
| 6              | 70                         | 64         | 58          | 50          | 43           | 37           | 31            | 26            | 22            | 18            | 15            |

**Age = 90 years**

| Number of CRFs | BMD T-score (femoral neck) |             |              |              |               |               |               |               |               |               |               |
|----------------|----------------------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | -4.0                       | -3.5        | -3.0         | -2.5         | -2.0          | -1.5          | -1.0          | -0.5          | 0             | 0.5           | 1.0           |
| 0              | 9.1                        | 7.3         | 5.8          | 4.7          | 4.0           | 3.4           | 2.9           | 2.5           | 2.1           | 1.8           | 1.6           |
| 1              | 13 (9.5-22)                | 11 (7.5-17) | 8.5 (5.9-14) | 6.9 (4.7-11) | 5.8 (4.0-9.1) | 4.9 (3.3-7.5) | 4.1 (2.8-6.2) | 3.5 (2.4-5.1) | 3.0 (2.0-4.2) | 2.5 (1.7-3.5) | 2.1 (1.4-2.9) |
| 2              | 19 (13-29)                 | 15 (10-23)  | 12 (7.9-19)  | 10 (6.4-15)  | 8.4 (5.3-13)  | 7.1 (4.5-11)  | 5.9 (3.7-8.8) | 5.0 (3.1-7.3) | 4.2 (2.6-6.0) | 3.5 (2.2-5.0) | 3.0 (1.9-4.2) |
| 3              | 27 (17-37)                 | 22 (13-31)  | 18 (11-25)   | 14 (8.6-21)  | 12 (7.2-17)   | 10 (6.0-15)   | 8.5 (5.0-12)  | 7.1 (4.2-10)  | 5.9 (3.5-8.4) | 5.0 (3.0-7.0) | 4.1 (2.5-5.9) |
| 4              | 36 (22-45)                 | 30 (18-39)  | 25 (14-32)   | 21 (12-27)   | 17 (9.9-23)   | 15 (8.3-19)   | 12 (7.0-16)   | 10 (5.9-13)   | 8.4 (4.9-11)  | 7.0 (4.1-9.4) | 5.8 (3.5-7.8) |
| 5              | 46 (29-52)                 | 40 (24-46)  | 34 (19-40)   | 28 (16-34)   | 24 (14-29)    | 20 (11-25)    | 17 (9.7-21)   | 14 (8.2-18)   | 12 (7.0-15)   | 10 (5.9-12)   | 8.3 (5.0-10)  |
| 6              | 56                         | 50          | 44           | 38           | 33            | 28            | 24            | 20            | 17            | 14            | 12            |