**Canada - The probabilities of a hip fracture in men**

The following tables give the 10-year probability (%) of a hip 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 Canada. 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/m²**.**

**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 | 12 | 6.4 | 3.4 | 1.8 | 0.9 | 0.5 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 |
| 1 | 18 (12-24) | 10 (6.7-13) | 5.4 (3.6-7.1) | 2.9 (1.9-3.8) | 1.5 (1.0-2.0) | 0.8 (0.5-1.1) | 0.4 (0.3-0.6) | 0.2 (0.1-0.3) | 0.1 (0.1-0.2) | 0.1 (0.0-0.1) | 0.0 (0.0-0.0) |
| 2 | 27 (17-39) | 16 (9.4-23) | 8.5 (5.0-13) | 4.6 (2.7-6.9) | 2.4 (1.4-3.7) | 1.3 (0.7-1.9) | 0.7 (0.4-1.0) | 0.3 (0.2-0.5) | 0.2 (0.1-0.3) | 0.1 (0.1-0.2) | 0.1 (0.0-0.1) |
| 3 | 39 (25-56) | 23 (14-35) | 13 (7.6-21) | 7.1 (4.0-11) | 3.8 (2.1-6.2) | 2.0 (1.1-3.3) | 1.1 (0.6-1.7) | 0.6 (0.3-0.9) | 0.3 (0.2-0.5) | 0.2 (0.1-0.3) | 0.1 (0.1-0.1) |
| 4 | 53 (38-70) | 34 (23-48) | 20 (13-30) | 11 (6.8-17) | 5.9 (3.6-9.3) | 3.1 (1.9-5.0) | 1.7 (1.0-2.6) | 0.9 (0.5-1.4) | 0.5 (0.3-0.7) | 0.3 (0.2-0.4) | 0.1 (0.1-0.2) |
| 5 | 68 (58-80) | 47 (37-60) | 29 (22-39) | 16 (12-23) | 9.0 (6.6-13) | 4.8 (3.5-7.0) | 2.6 (1.9-3.7) | 1.3 (1.0-2.0) | 0.7 (0.5-1.1) | 0.4 (0.3-0.6) | 0.2 (0.2-0.3) |
| 6 | 81 | 62 | 41 | 24 | 14 | 7.4 | 3.9 | 2.1 | 1.1 | 0.6 | 0.3 |

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**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 | 13 | 7.1 | 3.9 | 2.2 | 1.2 | 0.6 | 0.4 | 0.2 | 0.1 | 0.1 | 0.0 |
| 1 | 19 (13-23) | 11 (7.5-14) | 6.2 (4.1-7.6) | 3.4 (2.3-4.2) | 1.9 (1.2-2.3) | 1.0 (0.7-1.3) | 0.6 (0.4-0.7) | 0.3 (0.2-0.4) | 0.2 (0.1-0.2) | 0.1 (0.1-0.1) | 0.1 (0.0-0.1) |
| 2 | 28 (18-38) | 17 (10-23) | 9.5 (5.8-14) | 5.3 (3.2-7.6) | 2.9 (1.8-4.2) | 1.6 (1.0-2.3) | 0.9 (0.5-1.3) | 0.5 (0.3-0.7) | 0.3 (0.2-0.4) | 0.2 (0.1-0.2) | 0.1 (0.1-0.1) |
| 3 | 39 (26-54) | 24 (15-35) | 14 (8.8-22) | 8.1 (4.9-12) | 4.5 (2.7-7.0) | 2.5 (1.5-3.9) | 1.4 (0.8-2.1) | 0.7 (0.4-1.2) | 0.4 (0.2-0.7) | 0.2 (0.1-0.4) | 0.1 (0.1-0.2) |
| 4 | 53 (40-68) | 35 (25-48) | 21 (14-31) | 12 (8.1-18) | 6.9 (4.5-10) | 3.8 (2.5-5.9) | 2.1 (1.4-3.2) | 1.1 (0.7-1.8) | 0.6 (0.4-1.0) | 0.4 (0.2-0.6) | 0.2 (0.1-0.3) |
| 5 | 67 (59-78) | 47 (40-60) | 30 (24-40) | 18 (14-25) | 10 (8.1-15) | 5.8 (4.5-8.2) | 3.2 (2.5-4.6) | 1.8 (1.4-2.5) | 1.0 (0.8-1.4) | 0.6 (0.4-0.8) | 0.3 (0.2-0.5) |
| 6 | 79 | 61 | 42 | 26 | 15 | 8.6 | 4.8 | 2.7 | 1.5 | 0.8 | 0.5 |

**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 | 13 | 7.5 | 4.4 | 2.6 | 1.5 | 0.9 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 |
| 1 | 19 (13-22) | 11 (7.9-13) | 6.7 (4.6-7.9) | 4.0 (2.7-4.6) | 2.3 (1.6-2.7) | 1.3 (0.9-1.6) | 0.8 (0.5-0.9) | 0.5 (0.3-0.5) | 0.3 (0.2-0.3) | 0.2 (0.1-0.2) | 0.1 (0.1-0.1) |
| 2 | 27 (18-35) | 17 (11-22) | 10 (6.5-14) | 6.0 (3.8-8.2) | 3.5 (2.2-4.9) | 2.1 (1.3-2.8) | 1.2 (0.8-1.7) | 0.7 (0.4-1.0) | 0.4 (0.3-0.6) | 0.2 (0.2-0.3) | 0.1 (0.1-0.2) |
| 3 | 37 (26-49) | 24 (16-33) | 15 (9.8-21) | 9.0 (5.8-13) | 5.3 (3.4-7.8) | 3.1 (2.0-4.6) | 1.8 (1.1-2.7) | 1.1 (0.7-1.6) | 0.6 (0.4-1.0) | 0.4 (0.2-0.6) | 0.2 (0.1-0.3) |
| 4 | 49 (39-62) | 33 (25-45) | 22 (16-30) | 13 (9.4-19) | 8.0 (5.6-12) | 4.7 (3.3-7.0) | 2.8 (1.9-4.1) | 1.6 (1.1-2.4) | 1.0 (0.7-1.5) | 0.6 (0.4-0.9) | 0.3 (0.2-0.5) |
| 5 | 61 (56-72) | 45 (39-56) | 30 (26-39) | 19 (16-26) | 12 (9.7-16) | 7.0 (5.8-9.8) | 4.1 (3.4-5.8) | 2.4 (2.0-3.4) | 1.5 (1.2-2.1) | 0.9 (0.7-1.2) | 0.5 (0.4-0.8) |
| 6 | 73 | 57 | 41 | 27 | 17 | 10 | 6.1 | 3.6 | 2.2 | 1.3 | 0.8 |

# FRAX® WHO Fracture Risk Assessment Tool

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**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 | 12 | 7.9 | 4.9 | 3.1 | 1.9 | 1.2 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 |
| 1 | 18 (13-20) | 12 (8.2-13) | 7.3 (5.2-8.5) | 4.6 (3.2-5.3) | 2.8 (2.0-3.3) | 1.7 (1.2-2.1) | 1.1 (0.8-1.3) | 0.7 (0.5-0.8) | 0.4 (0.3-0.5) | 0.3 (0.2-0.3) | 0.2 (0.1-0.2) |
| 2 | 25 (18-31) | 17 (11-21) | 11 (7.2-14) | 6.8 (4.5-8.8) | 4.2 (2.8-5.5) | 2.6 (1.7-3.4) | 1.6 (1.1-2.1) | 1.0 (0.7-1.3) | 0.6 (0.4-0.8) | 0.4 (0.3-0.5) | 0.3 (0.2-0.3) |
| 3 | 34 (26-43) | 23 (17-30) | 15 (11-21) | 9.9 (6.8-13) | 6.2 (4.2-8.6) | 3.9 (2.6-5.4) | 2.4 (1.6-3.4) | 1.5 (1.0-2.1) | 1.0 (0.6-1.4) | 0.6 (0.4-0.9) | 0.4 (0.3-0.6) |
| 4 | 45 (37-55) | 32 (25-41) | 22 (17-29) | 14 (11-20) | 9.1 (6.8-13) | 5.7 (4.2-8.1) | 3.6 (2.6-5.1) | 2.2 (1.6-3.2) | 1.4 (1.1-2.1) | 0.9 (0.7-1.3) | 0.6 (0.4-0.8) |
| 5 | 56 (52-65) | 42 (38-52) | 30 (26-38) | 20 (17-26) | 13 (11-17) | 8.3 (7.0-11) | 5.2 (4.4-7.2) | 3.3 (2.8-4.5) | 2.1 (1.8-2.9) | 1.3 (1.1-1.9) | 0.9 (0.7-1.2) |
| 6 | 66 | 53 | 39 | 27 | 18 | 12 | 7.5 | 4.8 | 3.1 | 2.0 | 1.3 |

**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 | 12 | 8.4 | 5.6 | 3.7 | 2.4 | 1.6 | 1.0 | 0.7 | 0.5 | 0.3 | 0.2 |
| 1 | 19 (17-24) | 13 (12-17) | 9.0 (7.8-12) | 6.0 (5.2-7.7) | 4.0 (3.4-5.1) | 2.6 (2.2-3.4) | 1.7 (1.5-2.2) | 1.1 (1.0-1.5) | 0.8 (0.7-1.0) | 0.5 (0.4-0.7) | 0.3 (0.3-0.4) |
| 2 | 29 (24-36) | 20 (17-26) | 14 (12-18) | 9.6 (7.8-13) | 6.4 (5.2-8.5) | 4.2 (3.4-5.7) | 2.8 (2.2-3.8) | 1.9 (1.5-2.5) | 1.3 (1.0-1.7) | 0.8 (0.7-1.2) | 0.6 (0.5-0.8) |
| 3 | 41 (34-48) | 30 (25-36) | 22 (17-27) | 15 (12-19) | 10 (7.9-13) | 6.8 (5.2-8.6) | 4.5 (3.4-5.8) | 3.0 (2.3-3.9) | 2.1 (1.5-2.6) | 1.4 (1.0-1.8) | 0.9 (0.7-1.2) |
| 4 | 53 (45-59) | 42 (34-48) | 31 (25-37) | 23 (17-27) | 16 (12-19) | 11 (8.0-13) | 7.2 (5.3-8.6) | 4.9 (3.6-5.9) | 3.3 (2.4-4.1) | 2.3 (1.7-2.8) | 1.5 (1.1-1.9) |
| 5 | 65 (57-68) | 55 (46-58) | 43 (36-47) | 33 (26-36) | 24 (19-26) | 17 (13-19) | 11 (8.7-13) | 7.8 (6.0-8.8) | 5.4 (4.1-6.1) | 3.7 (2.8-4.2) | 2.5 (1.9-2.9) |
| 6 | 73 | 66 | 56 | 45 | 34 | 25 | 17 | 12 | 8.5 | 5.9 | 4.0 |

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**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 | 13 | 9.0 | 6.4 | 4.5 | 3.1 | 2.2 | 1.5 | 1.1 | 0.8 | 0.5 | 0.4 |
| 1 | 22 (17-41) | 16 (12-32) | 12 (8.9-24) | 8.4 (6.3-18) | 6.0 (4.4-13) | 4.2 (3.1-9.0) | 2.9 (2.1-6.3) | 2.1 (1.5-4.6) | 1.5 (1.1-3.3) | 1.1 (0.8-2.3) | 0.8 (0.5-1.7) |
| 2 | 33 (23-52) | 26 (17-43) | 20 (12-34) | 15 (8.8-26) | 11 (6.2-19) | 7.6 (4.3-14) | 5.3 (3.0-10) | 3.9 (2.2-7.4) | 2.8 (1.5-5.4) | 2.0 (1.1-3.9) | 1.4 (0.8-2.8) |
| 3 | 46 (31-62) | 38 (23-54) | 30 (17-45) | 23 (13-36) | 18 (9.0-27) | 13 (6.4-20) | 9.2 (4.5-15) | 6.8 (3.2-11) | 4.9 (2.3-8.1) | 3.6 (1.7-5.9) | 2.6 (1.2-4.2) |
| 4 | 59 (40-70) | 51 (32-62) | 43 (25-54) | 35 (18-45) | 27 (13-36) | 21 (9.5-27) | 15 (6.7-20) | 11 (4.9-15) | 8.3 (3.5-12) | 6.1 (2.5-8.5) | 4.4 (1.8-6.2) |
| 5 | 70 (50-76) | 63 (42-70) | 56 (33-63) | 48 (26-54) | 39 (20-45) | 31 (14-35) | 24 (10-27) | 18 (7.7-21) | 14 (5.6-16) | 10 (4.1-12) | 7.4 (3.0-8.7) |
| 6 | 78 | 74 | 68 | 60 | 52 | 44 | 35 | 28 | 21 | 16 | 12 |

**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 | 12 | 9.1 | 6.8 | 5.1 | 3.7 | 2.8 | 2.0 | 1.5 | 1.2 | 0.9 | 0.7 |
| 1 | 20 (15-39) | 16 (12-31) | 12 (8.8-25) | 9.2 (6.6-19) | 6.9 (4.9-15) | 5.2 (3.6-11) | 3.9 (2.7-8.5) | 2.9 (2.0-6.5) | 2.2 (1.5-4.9) | 1.7 (1.2-3.8) | 1.3 (0.9-2.8) |
| 2 | 30 (20-49) | 25 (16-41) | 20 (12-34) | 15 (9.0-27) | 12 (6.8-22) | 9.0 (5.1-17) | 6.8 (3.8-13) | 5.2 (2.9-10) | 4.0 (2.2-7.7) | 3.0 (1.6-5.9) | 2.3 (1.2-4.5) |
| 3 | 42 (26-58) | 35 (21-51) | 29 (16-44) | 24 (12-36) | 19 (9.4-30) | 15 (7.1-24) | 11 (5.3-19) | 8.8 (4.1-15) | 6.8 (3.1-11) | 5.2 (2.4-8.8) | 4.0 (1.8-6.8) |
| 4 | 53 (34-65) | 47 (28-59) | 40 (22-52) | 34 (18-45) | 28 (14-38) | 22 (10-31) | 18 (7.9-25) | 14 (6.1-20) | 11 (4.7-16) | 8.6 (3.6-12) | 6.6 (2.7-9.4) |
| 5 | 64 (44-70) | 59 (37-65) | 52 (30-59) | 46 (25-52) | 39 (19-44) | 32 (15-37) | 26 (12-31) | 21 (9.1-25) | 17 (7.1-20) | 14 (5.5-16) | 11 (4.2-13) |
| 6 | 73 | 69 | 64 | 57 | 51 | 44 | 37 | 31 | 25 | 21 | 16 |

Ten year probability of hip fractures (%) according to BMD, the number of clinical risk factors (CRF) and age in men from Canada.

**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 | 10 | 8.2 | 6.4 | 5.0 | 3.9 | 3.1 | 2.4 | 1.9 | 1.5 | 1.2 | 1.0 |
| 1 | 17 (13-34) | 14 (11-29) | 11 (8.4-24) | 9.1 (6.6-19) | 7.2 (5.1-15) | 5.7 (4.0-12) | 4.5 (3.2-9.9) | 3.6 (2.5-8.0) | 2.9 (2.0-6.4) | 2.3 (1.6-5.2) | 1.8 (1.3-4.1) |
| 2 | 27 (17-44) | 22 (14-38) | 18 (11-32) | 15 (8.7-27) | 12 (6.9-22) | 9.6 (5.4-18) | 7.8 (4.3-14) | 6.3 (3.5-12) | 5.1 (2.8-9.6) | 4.1 (2.2-7.8) | 3.3 (1.8-6.3) |
| 3 | 37 (22-53) | 32 (18-47) | 27 (15-41) | 23 (12-35) | 19 (9.5-30) | 15 (7.5-25) | 13 (6.0-20) | 10 (4.9-17) | 8.5 (3.9-14) | 6.9 (3.2-12) | 5.6 (2.5-9.4) |
| 4 | 49 (29-61) | 43 (25-55) | 38 (20-49) | 33 (17-43) | 28 (13-37) | 23 (11-32) | 19 (8.7-27) | 16 (7.1-23) | 13 (5.8-19) | 11 (4.7-16) | 9.0 (3.8-13) |
| 5 | 60 (39-66) | 55 (33-61) | 49 (28-56) | 44 (23-50) | 38 (19-44) | 33 (16-38) | 28 (13-33) | 24 (10-28) | 20 (8.6-24) | 17 (7.0-20) | 14 (5.7-17) |
| 6 | 69 | 65 | 61 | 56 | 50 | 44 | 39 | 34 | 29 | 25 | 21 |

**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 | 7.6 | 6.2 | 5.1 | 4.2 | 3.4 | 2.8 | 2.3 | 1.9 | 1.6 | 1.3 | 1.1 |
| 1 | 13 (9.8-27) | 11 (8.1-23) | 9.2 (6.6-19) | 7.6 (5.4-16) | 6.2 (4.4-14) | 5.1 (3.6-11) | 4.3 (3.0-9.5) | 3.6 (2.5-8.0) | 3.0 (2.1-6.7) | 2.5 (1.8-5.7) | 2.1 (1.5-4.8) |
| 2 | 21 (13-36) | 18 (11-31) | 15 (8.8-27) | 13 (7.3-23) | 11 (6.0-19) | 8.8 (4.9-16) | 7.4 (4.1-14) | 6.3 (3.5-12) | 5.3 (2.9-10) | 4.5 (2.4-8.5) | 3.8 (2.0-7.2) |
| 3 | 31 (17-45) | 27 (14-40) | 23 (12-35) | 20 (10-31) | 17 (8.3-27) | 14 (6.8-23) | 12 (5.7-20) | 10 (4.8-17) | 8.8 (4.1-15) | 7.5 (3.4-12) | 6.3 (2.9-11) |
| 4 | 42 (23-53) | 37 (20-49) | 33 (17-44) | 29 (14-39) | 25 (12-34) | 21 (9.9-30) | 19 (8.3-26) | 16 (7.1-23) | 14 (6.0-20) | 12 (5.1-17) | 10 (4.3-15) |
| 5 | 53 (32-59) | 49 (27-55) | 44 (24-50) | 40 (20-46) | 35 (17-41) | 31 (14-36) | 27 (12-32) | 24 (10-28) | 21 (8.9-25) | 18 (7.6-22) | 16 (6.4-19) |
| 6 | 63 | 60 | 56 | 52 | 47 | 42 | 38 | 34 | 30 | 27 | 23 |