The Czech Republic - 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 Czech Republic. The range is not a confidence interval, but because the weight of different risk factors varies, is a true range.

### Age = 50 years

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>BMI (kg/m²) 15</th>
<th>BMI (kg/m²) 20</th>
<th>BMI (kg/m²) 25</th>
<th>BMI (kg/m²) 30</th>
<th>BMI (kg/m²) 35</th>
<th>BMI (kg/m²) 40</th>
<th>BMI (kg/m²) 45</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.3</td>
<td>2.2</td>
<td>2.1</td>
<td>1.9</td>
<td>1.6</td>
<td>1.4</td>
<td>1.2</td>
</tr>
<tr>
<td>1</td>
<td>3.7 (2.5-5.6)</td>
<td>3.4 (2.3-5.0)</td>
<td>3.3 (2.2-4.6)</td>
<td>2.9 (1.9-4.0)</td>
<td>2.5 (1.7-3.5)</td>
<td>2.2 (1.5-3.0)</td>
<td>1.9 (1.3-2.6)</td>
</tr>
<tr>
<td>2</td>
<td>5.8 (3.2-9.8)</td>
<td>5.4 (2.9-9.2)</td>
<td>5.1 (2.7-8.9)</td>
<td>4.4 (2.3-7.8)</td>
<td>3.9 (2.0-6.8)</td>
<td>3.4 (1.8-5.9)</td>
<td>2.9 (1.5-5.2)</td>
</tr>
<tr>
<td>3</td>
<td>9.1 (4.6-15)</td>
<td>8.2 (4.1-14)</td>
<td>7.7 (3.7-14)</td>
<td>6.7 (3.2-12)</td>
<td>5.8 (2.8-11)</td>
<td>5.1 (2.4-9.3)</td>
<td>4.4 (2.1-8.1)</td>
</tr>
<tr>
<td>4</td>
<td>14 (7.6-22)</td>
<td>12 (6.6-20)</td>
<td>12 (6.1-19)</td>
<td>10 (5.2-16)</td>
<td>8.7 (4.5-14)</td>
<td>7.5 (3.8-13)</td>
<td>6.5 (3.3-11)</td>
</tr>
<tr>
<td>5</td>
<td>21 (13-27)</td>
<td>18 (12-24)</td>
<td>17 (11-23)</td>
<td>15 (9.7-20)</td>
<td>13 (8.5-17)</td>
<td>11 (7.4-15)</td>
<td>9.5 (6.4-13)</td>
</tr>
<tr>
<td>6</td>
<td>30</td>
<td>27</td>
<td>24</td>
<td>21</td>
<td>18</td>
<td>16</td>
<td>14</td>
</tr>
</tbody>
</table>
Ten year probability of osteoporotic fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from the Czech Republic.

Age = 55 years

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.7</td>
<td>2.5</td>
<td>2.4</td>
<td>2.1</td>
<td>1.8</td>
<td>1.6</td>
<td>1.4</td>
</tr>
<tr>
<td>1</td>
<td>4.3 (2.9-6.4)</td>
<td>4.0 (2.7-5.6)</td>
<td>3.8 (2.6-5.2)</td>
<td>3.3 (2.2-4.5)</td>
<td>2.8 (1.9-3.9)</td>
<td>2.5 (1.6-3.3)</td>
<td>2.1 (1.4-2.9)</td>
</tr>
<tr>
<td>2</td>
<td>6.8 (3.9-11)</td>
<td>6.2 (3.4-10)</td>
<td>5.8 (3.1-9.8)</td>
<td>5.0 (2.7-8.5)</td>
<td>4.3 (2.3-7.4)</td>
<td>3.7 (2.0-6.5)</td>
<td>3.2 (1.7-5.6)</td>
</tr>
<tr>
<td>3</td>
<td>11 (5.8-17)</td>
<td>9.4 (4.9-16)</td>
<td>8.7 (4.4-15)</td>
<td>7.5 (3.8-13)</td>
<td>6.5 (3.2-12)</td>
<td>5.6 (2.8-10)</td>
<td>4.8 (2.4-8.7)</td>
</tr>
<tr>
<td>4</td>
<td>16 (9.5-24)</td>
<td>14 (8.1-22)</td>
<td>13 (7.2-21)</td>
<td>11 (6.1-18)</td>
<td>9.6 (5.2-16)</td>
<td>8.3 (4.4-14)</td>
<td>7.1 (3.8-12)</td>
</tr>
<tr>
<td>5</td>
<td>23 (15-30)</td>
<td>21 (14-27)</td>
<td>19 (13-25)</td>
<td>16 (11-22)</td>
<td>14 (9.5-19)</td>
<td>12 (8.2-16)</td>
<td>10 (7.0-14)</td>
</tr>
<tr>
<td>6</td>
<td>33</td>
<td>30</td>
<td>27</td>
<td>23</td>
<td>20</td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

Age = 60 years

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3.3</td>
<td>3.1</td>
<td>2.9</td>
<td>2.5</td>
<td>2.2</td>
<td>1.9</td>
<td>1.6</td>
</tr>
<tr>
<td>1</td>
<td>5.2 (3.6-7.5)</td>
<td>4.8 (3.3-6.6)</td>
<td>4.5 (3.1-6.1)</td>
<td>3.9 (2.7-5.3)</td>
<td>3.4 (2.3-4.5)</td>
<td>2.9 (1.9-3.9)</td>
<td>2.5 (1.7-3.3)</td>
</tr>
<tr>
<td>2</td>
<td>8.1 (4.9-12)</td>
<td>7.3 (4.3-12)</td>
<td>6.9 (3.9-11)</td>
<td>5.9 (3.3-9.8)</td>
<td>5.1 (2.8-8.5)</td>
<td>4.4 (2.4-7.4)</td>
<td>3.7 (2.0-6.4)</td>
</tr>
<tr>
<td>3</td>
<td>12 (7.5-19)</td>
<td>11 (6.3-18)</td>
<td>10 (5.5-17)</td>
<td>8.8 (4.7-15)</td>
<td>7.5 (4.0-13)</td>
<td>6.5 (3.4-11)</td>
<td>5.5 (2.9-9.7)</td>
</tr>
<tr>
<td>4</td>
<td>18 (12-26)</td>
<td>16 (10-24)</td>
<td>15 (8.9-23)</td>
<td>13 (7.5-20)</td>
<td>11 (6.3-18)</td>
<td>9.5 (5.3-15)</td>
<td>8.1 (4.4-13)</td>
</tr>
<tr>
<td>5</td>
<td>26 (17-33)</td>
<td>23 (16-30)</td>
<td>22 (15-28)</td>
<td>19 (13-25)</td>
<td>16 (11-21)</td>
<td>14 (9.5-18)</td>
<td>12 (8.1-16)</td>
</tr>
<tr>
<td>6</td>
<td>36</td>
<td>33</td>
<td>30</td>
<td>26</td>
<td>22</td>
<td>19</td>
<td>16</td>
</tr>
</tbody>
</table>
Ten year probability of osteoporotic fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from the Czech Republic.

Age = 65 years

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>BMI (kg/m²)</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>4.1</td>
<td>3.8</td>
<td>3.6</td>
<td>3.1</td>
<td>2.6</td>
<td>2.2</td>
<td>1.9</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>6.4 (4.5-8.8)</td>
<td>5.8 (4.1-7.8)</td>
<td>5.5 (3.8-7.2)</td>
<td>4.7 (3.2-6.2)</td>
<td>4.0 (2.7-5.2)</td>
<td>3.4 (2.3-4.5)</td>
<td>2.9 (2.0-3.8)</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>9.6 (6.2-14)</td>
<td>8.8 (5.4-13)</td>
<td>8.3 (4.9-13)</td>
<td>7.0 (4.1-11)</td>
<td>6.0 (3.4-9.7)</td>
<td>5.1 (2.9-8.4)</td>
<td>4.3 (2.4-7.2)</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>14 (9.3-20)</td>
<td>13 (8.2-20)</td>
<td>12 (7.1-19)</td>
<td>10 (5.9-17)</td>
<td>8.8 (4.9-14)</td>
<td>7.5 (4.1-12)</td>
<td>6.3 (3.5-11)</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>20 (14-28)</td>
<td>19 (13-27)</td>
<td>18 (11-26)</td>
<td>15 (9.3-23)</td>
<td>13 (7.7-20)</td>
<td>11 (6.4-17)</td>
<td>9.1 (5.3-14)</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>38</td>
<td>36</td>
<td>34</td>
<td>29</td>
<td>25</td>
<td>21</td>
<td>18</td>
</tr>
</tbody>
</table>

Age = 70 years

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>BMI (kg/m²)</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>5.3</td>
<td>4.9</td>
<td>4.7</td>
<td>3.9</td>
<td>3.3</td>
<td>2.8</td>
<td>2.4</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>8.1 (5.8-10)</td>
<td>7.4 (5.3-9.5)</td>
<td>6.9 (5.0-8.9)</td>
<td>5.8 (4.1-7.5)</td>
<td>4.8 (3.4-6.3)</td>
<td>4.0 (2.9-5.3)</td>
<td>3.4 (2.4-4.5)</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>12 (8.0-18)</td>
<td>11 (7.2-16)</td>
<td>10 (6.5-15)</td>
<td>8.4 (5.3-12)</td>
<td>7.0 (4.4-10)</td>
<td>5.9 (3.7-8.6)</td>
<td>4.9 (3.0-7.3)</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>18 (11-27)</td>
<td>16 (10-24)</td>
<td>15 (9.6-22)</td>
<td>12 (7.9-18)</td>
<td>10 (6.5-15)</td>
<td>8.5 (5.4-13)</td>
<td>7.1 (4.4-11)</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>26 (17-35)</td>
<td>24 (16-33)</td>
<td>22 (15-31)</td>
<td>18 (12-26)</td>
<td>15 (9.7-22)</td>
<td>12 (7.9-18)</td>
<td>10 (6.5-15)</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>36 (30-44)</td>
<td>33 (27-42)</td>
<td>30 (25-38)</td>
<td>25 (20-33)</td>
<td>21 (17-28)</td>
<td>18 (14-23)</td>
<td>15 (11-19)</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>46</td>
<td>44</td>
<td>41</td>
<td>35</td>
<td>30</td>
<td>25</td>
<td>21</td>
</tr>
</tbody>
</table>
Ten year probability of osteoporotic fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from the Czech Republic.

**Age = 75 years**

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15 (kg/m²)</th>
<th>20 (kg/m²)</th>
<th>25 (kg/m²)</th>
<th>30 (kg/m²)</th>
<th>35 (kg/m²)</th>
<th>40 (kg/m²)</th>
<th>45 (kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>7.2</td>
<td>6.8</td>
<td>6.4</td>
<td>5.3</td>
<td>4.4</td>
<td>3.7</td>
<td>3.1</td>
</tr>
<tr>
<td>1</td>
<td>11 (7.7-18)</td>
<td>11 (7.2-15)</td>
<td>9.6</td>
<td>7.9 (5.6-10)</td>
<td>6.5 (4.6-8.1)</td>
<td>5.3 (3.7-6.6)</td>
<td>4.4 (3.1-5.5)</td>
</tr>
<tr>
<td>2</td>
<td>18 (10-28)</td>
<td>16 (9.9-25)</td>
<td>14 (9.0-21)</td>
<td>12 (7.3-17)</td>
<td>9.7 (6.0-14)</td>
<td>7.9 (4.9-12)</td>
<td>6.5 (4.0-9.4)</td>
</tr>
<tr>
<td>3</td>
<td>26 (14-40)</td>
<td>24 (14-36)</td>
<td>21 (13-31)</td>
<td>18 (11-26)</td>
<td>14 (8.5-21)</td>
<td>12 (6.9-17)</td>
<td>9.5 (5.6-14)</td>
</tr>
<tr>
<td>4</td>
<td>36 (22-49)</td>
<td>34 (21-46)</td>
<td>31 (19-42)</td>
<td>26 (16-36)</td>
<td>21 (13-30)</td>
<td>17 (10-25)</td>
<td>14 (8.4-21)</td>
</tr>
<tr>
<td>6</td>
<td>59</td>
<td>57</td>
<td>54</td>
<td>48</td>
<td>41</td>
<td>35</td>
<td>29</td>
</tr>
</tbody>
</table>

**Age = 80 years**

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15 (kg/m²)</th>
<th>20 (kg/m²)</th>
<th>25 (kg/m²)</th>
<th>30 (kg/m²)</th>
<th>35 (kg/m²)</th>
<th>40 (kg/m²)</th>
<th>45 (kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>9.3</td>
<td>8.8</td>
<td>8.4</td>
<td>6.8</td>
<td>5.6</td>
<td>4.6</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>15 (9.9-23)</td>
<td>14 (9.4-20)</td>
<td>13 (8.9-18)</td>
<td>10 (7.2-14)</td>
<td>8.3 (5.8-11)</td>
<td>6.7 (4.7-9.1)</td>
<td>5.5 (3.8-7.2)</td>
</tr>
<tr>
<td>2</td>
<td>22 (13-34)</td>
<td>20 (13-31)</td>
<td>19 (12-27)</td>
<td>15 (9.6-22)</td>
<td>12 (7.7-18)</td>
<td>9.9 (6.2-14)</td>
<td>8.0 (5.0-11)</td>
</tr>
<tr>
<td>3</td>
<td>30 (18-44)</td>
<td>29 (17-41)</td>
<td>27 (17-37)</td>
<td>22 (13-31)</td>
<td>18 (11-26)</td>
<td>15 (8.5-21)</td>
<td>12 (6.8-17)</td>
</tr>
<tr>
<td>4</td>
<td>41 (26-53)</td>
<td>39 (25-51)</td>
<td>36 (24-47)</td>
<td>31 (20-41)</td>
<td>25 (16-34)</td>
<td>21 (13-29)</td>
<td>17 (10-24)</td>
</tr>
<tr>
<td>5</td>
<td>52 (37-60)</td>
<td>49 (35-58)</td>
<td>47 (34-56)</td>
<td>41 (29-50)</td>
<td>35 (24-43)</td>
<td>29 (20-37)</td>
<td>24 (16-31)</td>
</tr>
<tr>
<td>6</td>
<td>62</td>
<td>60</td>
<td>58</td>
<td>52</td>
<td>45</td>
<td>39</td>
<td>33</td>
</tr>
</tbody>
</table>
Ten year probability of osteoporotic fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from the Czech Republic.

**Age = 85 years**

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15 (kg/m²)</th>
<th>20 (kg/m²)</th>
<th>25 (kg/m²)</th>
<th>30 (kg/m²)</th>
<th>35 (kg/m²)</th>
<th>40 (kg/m²)</th>
<th>45 (kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>11</td>
<td>10</td>
<td>9.7</td>
<td>7.8</td>
<td>6.3</td>
<td>5.1</td>
<td>4.2</td>
</tr>
<tr>
<td>1</td>
<td>18 (12-28)</td>
<td>16 (11-25)</td>
<td>15 (10-21)</td>
<td>12 (8.3-17)</td>
<td>9.5 (6.6-14)</td>
<td>7.7 (5.3-11)</td>
<td>6.2 (4.2-8.6)</td>
</tr>
<tr>
<td>2</td>
<td>26 (17-40)</td>
<td>24 (15-36)</td>
<td>22 (14-32)</td>
<td>18 (11-26)</td>
<td>14 (9.0-21)</td>
<td>12 (7.1-17)</td>
<td>9.2 (5.7-14)</td>
</tr>
<tr>
<td>3</td>
<td>36 (23-51)</td>
<td>34 (21-47)</td>
<td>31 (19-43)</td>
<td>26 (16-37)</td>
<td>21 (12-31)</td>
<td>17 (9.9-25)</td>
<td>14 (7.8-20)</td>
</tr>
<tr>
<td>4</td>
<td>47 (32-60)</td>
<td>45 (30-57)</td>
<td>42 (28-53)</td>
<td>35 (23-46)</td>
<td>30 (19-40)</td>
<td>24 (15-33)</td>
<td>20 (12-28)</td>
</tr>
<tr>
<td>5</td>
<td>58 (44-65)</td>
<td>56 (41-64)</td>
<td>53 (39-62)</td>
<td>47 (33-56)</td>
<td>40 (27-49)</td>
<td>34 (23-42)</td>
<td>28 (18-36)</td>
</tr>
<tr>
<td>6</td>
<td>66</td>
<td>65</td>
<td>64</td>
<td>58</td>
<td>51</td>
<td>45</td>
<td>38</td>
</tr>
</tbody>
</table>

**Age = 90 years**

<table>
<thead>
<tr>
<th>Number of CRFs</th>
<th>15 (kg/m²)</th>
<th>20 (kg/m²)</th>
<th>25 (kg/m²)</th>
<th>30 (kg/m²)</th>
<th>35 (kg/m²)</th>
<th>40 (kg/m²)</th>
<th>45 (kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>11</td>
<td>9.8</td>
<td>9.2</td>
<td>7.4</td>
<td>5.9</td>
<td>4.8</td>
<td>3.9</td>
</tr>
<tr>
<td>1</td>
<td>17 (12-27)</td>
<td>15 (11-24)</td>
<td>14 (9.8-21)</td>
<td>11 (7.8-17)</td>
<td>9.0 (6.2-13)</td>
<td>7.2 (4.9-10)</td>
<td>5.8 (3.9-8.2)</td>
</tr>
<tr>
<td>2</td>
<td>26 (17-39)</td>
<td>23 (15-35)</td>
<td>21 (13-31)</td>
<td>17 (11-25)</td>
<td>14 (8.5-20)</td>
<td>11 (6.7-16)</td>
<td>8.7 (5.3-13)</td>
</tr>
<tr>
<td>3</td>
<td>36 (23-50)</td>
<td>33 (20-46)</td>
<td>30 (18-42)</td>
<td>25 (15-35)</td>
<td>20 (12-29)</td>
<td>16 (9.3-24)</td>
<td>13 (7.4-20)</td>
</tr>
<tr>
<td>4</td>
<td>47 (31-59)</td>
<td>44 (29-56)</td>
<td>41 (27-52)</td>
<td>34 (22-45)</td>
<td>29 (18-38)</td>
<td>23 (14-32)</td>
<td>19 (12-27)</td>
</tr>
<tr>
<td>5</td>
<td>57 (43-64)</td>
<td>55 (40-63)</td>
<td>52 (38-61)</td>
<td>46 (32-55)</td>
<td>39 (26-48)</td>
<td>33 (22-41)</td>
<td>27 (17-35)</td>
</tr>
<tr>
<td>6</td>
<td>63</td>
<td>64</td>
<td>63</td>
<td>57</td>
<td>51</td>
<td>44</td>
<td>37</td>
</tr>
</tbody>
</table>