### Morocco

#### Total population: 34 378 000

**Income group:** Lower middle

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**Mortality**

<table>
<thead>
<tr>
<th>Number of diabetes deaths</th>
<th>males</th>
<th>females</th>
</tr>
</thead>
<tbody>
<tr>
<td>ages 30–69</td>
<td>4 490</td>
<td>5 070</td>
</tr>
<tr>
<td>ages 70+</td>
<td>5 180</td>
<td>9 280</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of deaths attributable to high blood glucose</th>
<th>males</th>
<th>females</th>
</tr>
</thead>
<tbody>
<tr>
<td>ages 30–69</td>
<td>6 810</td>
<td>6 670</td>
</tr>
<tr>
<td>ages 70+</td>
<td>7 380</td>
<td>11 400</td>
</tr>
</tbody>
</table>

**Proportional mortality (% of total deaths, all ages)**

<table>
<thead>
<tr>
<th>Cause</th>
<th>% of population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicable, maternal, perinatal and nutritional conditions</td>
<td>18%</td>
</tr>
<tr>
<td>Other NCDs</td>
<td>14%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>12%</td>
</tr>
<tr>
<td>Respiratory diseases</td>
<td>4%</td>
</tr>
<tr>
<td>Cardiovascular diseases</td>
<td>34%</td>
</tr>
<tr>
<td>Cancers</td>
<td>11%</td>
</tr>
<tr>
<td>Injuries</td>
<td>7%</td>
</tr>
</tbody>
</table>

**Trends in age-standardized prevalence of diabetes**

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**Prevalence of diabetes and related risk factors**

<table>
<thead>
<tr>
<th></th>
<th>males</th>
<th>females</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes</td>
<td>12.6%</td>
<td>12.3%</td>
<td>12.4%</td>
</tr>
<tr>
<td>Overweight</td>
<td>50.5%</td>
<td>59.6%</td>
<td>55.1%</td>
</tr>
<tr>
<td>Obesity</td>
<td>15.6%</td>
<td>27.6%</td>
<td>21.7%</td>
</tr>
<tr>
<td>Physical inactivity</td>
<td>. . .</td>
<td>. . .</td>
<td>. . .</td>
</tr>
</tbody>
</table>

**National response to diabetes**

<table>
<thead>
<tr>
<th>Policies, guidelines and monitoring</th>
<th>Available and fully implemented†</th>
<th>Available and fully implemented</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational policy/strategy/action plan for diabetes</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Operational policy/strategy/action plan to reduce overweight and obesity</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operational policy/strategy/action plan to reduce physical inactivity</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evidence-based national diabetes guidelines/protocols/standards</td>
<td>Available and fully implemented†</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard criteria for referral of patients from primary care to higher level of care</td>
<td>Available and fully implemented</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diabetes registry</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recent national risk factor survey in which blood glucose was measured</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Availability of medicines, basic technologies and procedures in the public health sector**

**Medicines in primary care facilities**

<table>
<thead>
<tr>
<th>Medicines in primary care facilities</th>
<th>●</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulin</td>
<td>●</td>
</tr>
<tr>
<td>Metformin</td>
<td>●</td>
</tr>
<tr>
<td>Sulphonylurea</td>
<td>●</td>
</tr>
</tbody>
</table>

**Procedures**

<table>
<thead>
<tr>
<th>Procedures</th>
<th>●</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retinal photocoagulation</td>
<td>●</td>
</tr>
<tr>
<td>Renal replacement therapy by dialysis</td>
<td>●</td>
</tr>
<tr>
<td>Renal replacement therapy by transplantation</td>
<td>●</td>
</tr>
</tbody>
</table>

**Basic technologies in primary care facilities**

<table>
<thead>
<tr>
<th>Basic technologies in primary care facilities</th>
<th>●</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood glucose measurement</td>
<td>●</td>
</tr>
<tr>
<td>Oral glucose tolerance test</td>
<td>○</td>
</tr>
<tr>
<td>HbA1c test</td>
<td>●</td>
</tr>
<tr>
<td>Dilated fundus examination</td>
<td>○</td>
</tr>
<tr>
<td>Foot vibration perception by tuning fork</td>
<td>○</td>
</tr>
<tr>
<td>Foot vascular status by Doppler</td>
<td>○</td>
</tr>
<tr>
<td>Urine strips for glucose and ketone measurement</td>
<td>●</td>
</tr>
</tbody>
</table>

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*The mortality estimates for this country have a high degree of uncertainty because they are not based on any national NCD mortality data (see Explanatory Notes).*

† = documentation not provided

○ = not generally available • = generally available

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