Supplementary table 1: characteristics of the cohorts included

<table>
<thead>
<tr>
<th>Study name / acronym</th>
<th>Country</th>
<th>City / region</th>
<th>Sample type</th>
<th>Collection period (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELSTRESS</td>
<td>Belgium</td>
<td>Different cities</td>
<td>Work-based</td>
<td>1994-1998</td>
</tr>
<tr>
<td>CoLaus</td>
<td>Switzerland</td>
<td>Lausanne</td>
<td>Population-based</td>
<td>2003-2006</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 1</td>
<td>Denmark</td>
<td>Copenhagen</td>
<td>Population-based</td>
<td>1976-1978</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 2</td>
<td>Denmark</td>
<td>Copenhagen</td>
<td>Population-based</td>
<td>1982-1984</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 3</td>
<td>Denmark</td>
<td>Copenhagen</td>
<td>Population-based</td>
<td>1992-1994</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 4</td>
<td>Denmark</td>
<td>Copenhagen</td>
<td>Population-based</td>
<td>2002-2004</td>
</tr>
<tr>
<td>Dubbo Study</td>
<td>Australia</td>
<td>Dubbo, NSW</td>
<td>Population-based</td>
<td>1988-1989</td>
</tr>
<tr>
<td>GAPP</td>
<td>Liechtenstein</td>
<td></td>
<td>Population-based</td>
<td>2010-2012</td>
</tr>
<tr>
<td>HAPIEE Project Czech Republic</td>
<td>Czech Republic</td>
<td>7 cities</td>
<td>Population-based</td>
<td>2002-2005</td>
</tr>
<tr>
<td>HAPIEE Project Lithuania</td>
<td>Lithuania</td>
<td>Kaunas</td>
<td>Population-based</td>
<td>2002-2005</td>
</tr>
<tr>
<td>HAPIEE Project Russia</td>
<td>Russia</td>
<td>Novosibirsk</td>
<td>Population-based</td>
<td>2003-2005</td>
</tr>
<tr>
<td>Health2006 RCPH, Denmark</td>
<td>Denmark</td>
<td>Capital Region</td>
<td>Population-based</td>
<td>2006-2008</td>
</tr>
<tr>
<td>Hordaland Health Study (HUSK)</td>
<td>Norway</td>
<td>Hordaland</td>
<td>Population-based</td>
<td>1997-1999</td>
</tr>
<tr>
<td>MCCS</td>
<td>Australia</td>
<td>Melbourne</td>
<td>Population-based</td>
<td>1990-1994</td>
</tr>
<tr>
<td>MOLI-SANI</td>
<td>Italy</td>
<td>Molise</td>
<td>Population-based</td>
<td>2005-2010</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico</td>
<td>51 centres distributed throughout</td>
<td></td>
<td>Population-based</td>
<td>1998-2002</td>
</tr>
<tr>
<td>Cardiovascolare (OEC)</td>
<td>Italy</td>
<td>the Italian territory</td>
<td>Population-based</td>
<td>1998-2002</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiovascolare/Health Examination</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Survey (OEC/HES)</td>
<td>Italy</td>
<td>One centre in each Italian Region</td>
<td>Population-based</td>
<td>2008-2012</td>
</tr>
<tr>
<td>Workforce Diabetes Survey</td>
<td>New Zealand</td>
<td>Auckland &amp; Tokoroa</td>
<td>Work-based</td>
<td>1988-1990</td>
</tr>
<tr>
<td>Study name / acronym</td>
<td>Overall sample size</td>
<td>Sample size used</td>
<td>Age range</td>
<td>Age (mean ± SD)</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------</td>
<td>------------------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>BELSTRESS</td>
<td>21,419</td>
<td>21,128</td>
<td>35-59</td>
<td>45.5 ± 5.9</td>
</tr>
<tr>
<td>Bus Santé</td>
<td>9,314</td>
<td>9,230</td>
<td>34-75</td>
<td>51.5 ± 10.8</td>
</tr>
<tr>
<td>CoLaus</td>
<td>6,733</td>
<td>6,181</td>
<td>35-75</td>
<td>53.1 ± 10.8</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 1</td>
<td>14,223</td>
<td>14,171</td>
<td>20-93</td>
<td>52.6 ± 12.0</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 2</td>
<td>12,698</td>
<td>12,620</td>
<td>20-98</td>
<td>56.0 ± 12.4</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 3</td>
<td>10,135</td>
<td>9,663</td>
<td>21-93</td>
<td>57.6 ± 15.2</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 4</td>
<td>6,237</td>
<td>6,001</td>
<td>20-94</td>
<td>58.8 ± 16.5</td>
</tr>
<tr>
<td>Dubbo Study</td>
<td>2,805</td>
<td>2,762</td>
<td>59-98</td>
<td>69.2 ± 7.0</td>
</tr>
<tr>
<td>EpiPorto</td>
<td>2,485</td>
<td>2,381</td>
<td>18-92</td>
<td>53.4 ± 15.2</td>
</tr>
<tr>
<td>GAPP</td>
<td>1,626</td>
<td>1,604</td>
<td>25-41</td>
<td>36.4 ± 4.9</td>
</tr>
<tr>
<td>HAPIEE Project Czech Republic</td>
<td>8,857</td>
<td>7,170</td>
<td>44-72</td>
<td>58.2 ± 7.1</td>
</tr>
<tr>
<td>HAPIEE Project Lithuania</td>
<td>7,161</td>
<td>7,067</td>
<td>45-75</td>
<td>61 ± 7.6</td>
</tr>
<tr>
<td>HAPIEE Project Russia</td>
<td>9,630</td>
<td>9,359</td>
<td>45-69</td>
<td>58.2 ± 7.1</td>
</tr>
<tr>
<td>Health2006 RCPH, Denmark</td>
<td>3,471</td>
<td>3,469</td>
<td>18-71</td>
<td>49.4 ± 13.0</td>
</tr>
<tr>
<td>Hordaland Health Study (HUSK)</td>
<td>25,532</td>
<td>25,532</td>
<td>40-49; 71-74</td>
<td>47.7 ± 9.3</td>
</tr>
<tr>
<td>MCCS</td>
<td>41,514</td>
<td>41,484</td>
<td>27-76</td>
<td>55.3 ± 8.7</td>
</tr>
<tr>
<td>MOLI-SANI</td>
<td>24,325</td>
<td>24,046</td>
<td>35-99</td>
<td>55.6 ± 11.9</td>
</tr>
<tr>
<td>MONA LISA</td>
<td>1,626</td>
<td>1,626</td>
<td>35-75</td>
<td>55.1 ± 11.0</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico Cardiovascolare (OEC)</td>
<td>9,714</td>
<td>9,676</td>
<td>35-74</td>
<td>54.4 ± 11.3</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico Cardiovascolare/Health Examination Survey (OEC/HES)</td>
<td>9,103</td>
<td>8,694</td>
<td>35-79</td>
<td>56.8 ± 12.4</td>
</tr>
<tr>
<td>PRIME Belfast</td>
<td>2,745</td>
<td>2,744</td>
<td>50-59</td>
<td>54.3 ± 2.9</td>
</tr>
<tr>
<td>REGICOR-Hermes</td>
<td>5,801</td>
<td>5,700</td>
<td>35-75</td>
<td>54.6 ± 11.2</td>
</tr>
<tr>
<td>Workforce Diabetes Survey</td>
<td>5,677</td>
<td>5,671</td>
<td>40-65</td>
<td>48.8 ± 6.2</td>
</tr>
<tr>
<td>Study name / acronym</td>
<td>% smokers (men)</td>
<td>% smokers (women)</td>
<td>Fasting</td>
<td>References</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------</td>
<td>------------------</td>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>BELSTRESS</td>
<td>29.0</td>
<td>24.1</td>
<td>No</td>
<td>[1]</td>
</tr>
<tr>
<td>Bus Santé</td>
<td>27.2</td>
<td>23.8</td>
<td>Yes</td>
<td>[2, 3]</td>
</tr>
<tr>
<td>CoLaus a</td>
<td>29.3</td>
<td>25.0</td>
<td>Yes</td>
<td>[4]</td>
</tr>
<tr>
<td>Copenhagen City Heart Study 1</td>
<td>69.9</td>
<td>58.0</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Copenhagen City Heart Study 2</td>
<td>64.0</td>
<td>53.4</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Copenhagen City Heart Study 3</td>
<td>52.7</td>
<td>45.9</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Copenhagen City Heart Study 4</td>
<td>34.8</td>
<td>31.2</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Dubbo Study</td>
<td>20.5</td>
<td>11.4</td>
<td>Yes</td>
<td>[5, 6]</td>
</tr>
<tr>
<td>EpiPorto</td>
<td>34.8</td>
<td>17.7</td>
<td>Yes (overnight)</td>
<td>[7, 8]</td>
</tr>
<tr>
<td>GAPP</td>
<td>23.2</td>
<td>18.6</td>
<td>Yes</td>
<td>[9]</td>
</tr>
<tr>
<td>HAPIEE Project Czech Republic</td>
<td>29.3</td>
<td>25.0</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>HAPIEE Project Lithuania</td>
<td>28.5</td>
<td>7.7</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>HAPIEE Project Russia</td>
<td>48.7</td>
<td>9.4</td>
<td>Yes</td>
<td>[10]</td>
</tr>
<tr>
<td>Health2006 RCPH, Denmark</td>
<td>21.0</td>
<td>23.3</td>
<td>Yes</td>
<td>[11, 12]</td>
</tr>
<tr>
<td>Hordaland Health Study (HUSK) b</td>
<td>33.6</td>
<td>33.4</td>
<td>No</td>
<td>[13]</td>
</tr>
<tr>
<td>MCCS</td>
<td>14.5</td>
<td>9.1</td>
<td>68% of participants</td>
<td>[14, 15]</td>
</tr>
<tr>
<td>MOLI-SANI c</td>
<td>42.0</td>
<td>13.9</td>
<td>Yes (overnight)</td>
<td>[16-18]</td>
</tr>
<tr>
<td>MONA LISA</td>
<td>15.4</td>
<td>14.1</td>
<td>Yes (at least 10 hours)</td>
<td>[19-21]</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico Cardiovaseolare (OEC) d</td>
<td>31.2</td>
<td>21.8</td>
<td>Yes (at least 8 hours)</td>
<td>[22, 23]</td>
</tr>
<tr>
<td>Osservatorio Epidemiologico Cardiovaseolare/Health Examination Survey (OEC/HES) d</td>
<td>21.4</td>
<td>18.5</td>
<td>Yes (at least 8 hours)</td>
<td></td>
</tr>
<tr>
<td>PRIME Belfast</td>
<td>31.6</td>
<td>§</td>
<td>Yes (overnight)</td>
<td>[25]</td>
</tr>
<tr>
<td>REGICOR-Hermes e</td>
<td>31.0</td>
<td>17.1</td>
<td>Yes (10-14h)</td>
<td>[26]</td>
</tr>
<tr>
<td>Workforce Diabetes Survey</td>
<td>26.4</td>
<td>22.7</td>
<td>Yes (at least 10 hours)</td>
<td>[27-29]</td>
</tr>
</tbody>
</table>

REFERENCES


