**S3 Table.** Phenotypes for genome-wide association analysis

<table>
<thead>
<tr>
<th>Phenotype</th>
<th>N</th>
<th>nSNPs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Physiological phenotypes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hb Blood hemoglobin concentration (g/dL)</td>
<td>921</td>
<td>3,507,568</td>
</tr>
<tr>
<td>SaO\textsubscript{2} Arterial blood oxygen saturation (%)</td>
<td>921</td>
<td>3,507,568</td>
</tr>
<tr>
<td>Pulse The number of pulses per minute</td>
<td>920</td>
<td>3,508,046</td>
</tr>
<tr>
<td>oxyHb Oxygenated Hb (= Hb × SaO\textsubscript{2} / 100)</td>
<td>921</td>
<td>3,507,568</td>
</tr>
<tr>
<td>deoxyHb Deoxygenated Hb (= Hb - oxyHb)</td>
<td>921</td>
<td>3,507,568</td>
</tr>
<tr>
<td><strong>2. Fertility count phenotypes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of pregnancies</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td># of live births</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td># of children born alive but died &lt; 1 yr</td>
<td>923</td>
<td>3,507,108</td>
</tr>
<tr>
<td># of children surviving at 1 yr but died &lt; 5 yr</td>
<td>849</td>
<td>3,507,585</td>
</tr>
<tr>
<td># of children surviving at 5 yr but died &lt; 15 yr</td>
<td>531</td>
<td>3,506,695</td>
</tr>
<tr>
<td># of children born alive but died &lt; 5 yr</td>
<td>849</td>
<td>3,507,585</td>
</tr>
<tr>
<td># of children born alive but died &lt; 15 yr</td>
<td>532</td>
<td>3,506,123</td>
</tr>
<tr>
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<td>923</td>
<td>3,507,108</td>
</tr>
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<td>3,507,585</td>
</tr>
<tr>
<td># of children surviving at 15 yr</td>
<td>531</td>
<td>3,506,695</td>
</tr>
<tr>
<td># of stillbirths</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td># of miscarriages</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td># of twin births</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td>A woman’s age at her first childbirth</td>
<td>972</td>
<td>3,507,330</td>
</tr>
<tr>
<td>A woman’s age at her last pregnancy</td>
<td>958</td>
<td>3,507,463</td>
</tr>
<tr>
<td><strong>3. Fertility proportion phenotypes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proportion of live births among pregnancies</td>
<td>981</td>
<td>3,507,697</td>
</tr>
<tr>
<td>Proportion of stillbirths among pregnancies</td>
<td>981</td>
<td>3,507,697</td>
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<td>3,507,585</td>
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<tr>
<td>Proportion of children surviving at 5 yr but died &lt; 15 yr</td>
<td>531</td>
<td>3,507,249</td>
</tr>
<tr>
<td><strong>4. Covariates</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hb ~ sub + age + SaO\textsubscript{2} + ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SaO\textsubscript{2} ~ sub + age + alt + Hb + Hb\textsuperscript{2} + ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulse ~ sub + Hb + SaO\textsubscript{2} + ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oxyHb ~ sub + age + age\textsuperscript{2} + ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>deoxyHb ~ sub + age + alt + ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub = subdistrict label (4 groups); alt = altitude of residence; ft = fingertip temperature; ct = use of contraception; CM = continuously married</td>
<td></td>
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</tr>
</tbody>
</table>