Supplemental Material

Ambient Temperature and Stillbirth: A Multicenter Retrospective Cohort Study

Sandie Ha, Danping Liu, Yeyi Zhu, Sung Soo Kim, Seth Sherman, Katherine L. Grantz, and Pauline Mendola

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</table>
Table S1: Distribution of Temperature During Different Pregnancy Windows in the Consortium on Safe Labor, 2002-2008.

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<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<tr>
<td><strong>Chronic exposure</strong>&lt;sup&gt;a&lt;/sup&gt;</td>
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<tr>
<td>Preconception</td>
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<td></td>
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<td></td>
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<tr>
<td>Cold</td>
<td>122</td>
<td>12.3</td>
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<td>820</td>
<td>82.7</td>
<td>177,814</td>
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<td>Cold</td>
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<td>22,094</td>
<td>9.9</td>
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<td><strong>Acute exposure</strong>&lt;sup&gt;b&lt;/sup&gt;</td>
<td>Mean&lt;sup&gt;c&lt;/sup&gt;</td>
<td>(min,max)</td>
<td>Mean&lt;sup&gt;d&lt;/sup&gt;</td>
<td>(min,max)</td>
</tr>
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<td>Warm season (May-Sept)</td>
<td>21.2</td>
<td>5.3, 29.9</td>
<td>20.8</td>
<td>2.8, 30.3&lt;sup&gt;ce&lt;/sup&gt;</td>
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<td>Cold season (Oct-Apr)</td>
<td>9.0</td>
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<td>8.9</td>
<td>-12.9, 29.5&lt;sup&gt;ce&lt;/sup&gt;</td>
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</tbody>
</table>

<sup>a</sup>The distribution is presented as frequency (percent). Cold, mild and hot were defined as <10<sup>th</sup>, 10-90<sup>th</sup>, and >90<sup>th</sup> percentile of the distribution of temperature by site.

<sup>b</sup>The distribution is presented as mean (min, max) expressed in °C. Estimates are based on 987 first stillbirths.

<sup>c</sup>Data based on case period, which was the week preceding stillbirth delivery.

<sup>d</sup>Data based on control periods, which are two weeks before and after stillbirth delivery.
Table S2. Distribution of Absolute Temperature by Site and Pregnancy Windows in the Consortium on Safe Labor, 2002-2008.

<table>
<thead>
<tr>
<th>Site</th>
<th>Pregnancy windows</th>
<th>Average daily temperature distribution (˚C)</th>
<th>Min</th>
<th>P10</th>
<th>P50</th>
<th>P90</th>
<th>Max</th>
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<tr>
<td>1-Baystate Medical Center, Massachusetts</td>
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<td>-6.7</td>
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<td>10.2</td>
<td>19.3</td>
<td>20.5</td>
<td></td>
</tr>
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<td>Trimester 1</td>
<td>-6.3</td>
<td>-3.1</td>
<td>8.9</td>
<td>19.1</td>
<td>20.3</td>
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</tr>
<tr>
<td></td>
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<td>-3.0</td>
<td>7.8</td>
<td>18.8</td>
<td>21.2</td>
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<tr>
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<td>4.6</td>
<td>8.1</td>
<td>12.3</td>
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<td>13.5</td>
<td>18.2</td>
<td>22.1</td>
<td>24.2</td>
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<td>Trimester 1</td>
<td>Trimester 2</td>
<td>Whole pregnancy</td>
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<td>27.9</td>
<td>28.7</td>
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<td>21.7</td>
<td>27.8</td>
<td>28.6</td>
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<td>Trimester 2</td>
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<td>14.8</td>
<td>21.9</td>
<td>27.7</td>
<td>28.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whole pregnancy</td>
<td>15.3</td>
<td>19.2</td>
<td>21.3</td>
<td>24.1</td>
<td>27.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations: C, Celsius; P, percentile

*Preconception: 91 days prior to estimated last menstrual period (eLMP), first trimester: eLMP-13 weeks, whole pregnancy: eLMP-date of delivery.*
Table S3. Chronic Associations Between Extreme Ambient Temperatures and Stillbirth by Type of Stillbirth in the Consortium on Safe Labor, 2002-2008 (cohort analysis).

<table>
<thead>
<tr>
<th>Pregnancy windows</th>
<th>Intrapartum (n=96)</th>
<th>Antepartum (n=896)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR(^a) 95% CI</td>
<td>OR(^a) 95% CI</td>
</tr>
<tr>
<td>Hot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preconception</td>
<td>0.63 0.28, 1.43</td>
<td>1.01 0.79, 1.29</td>
</tr>
<tr>
<td>Trimester 1</td>
<td>0.77 0.32, 1.84</td>
<td>0.81 0.62, 1.06</td>
</tr>
<tr>
<td>Trimester 2(^b)</td>
<td>-</td>
<td>1.04 0.80, 1.35</td>
</tr>
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<td>Whole Pregnancy</td>
<td>4.75 2.38, 9.46</td>
<td>3.80 3.16, 4.57</td>
</tr>
<tr>
<td>Cold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preconception</td>
<td>1.16 0.58, 2.34</td>
<td>1.16 0.93, 1.45</td>
</tr>
<tr>
<td>Trimester 1</td>
<td>1.41 0.71, 2.80</td>
<td>0.85 0.66, 1.08</td>
</tr>
<tr>
<td>Trimester 2(^b)</td>
<td>-</td>
<td>0.86 0.64, 1.17</td>
</tr>
<tr>
<td>Whole Pregnancy</td>
<td>5.78 3.53, 9.46</td>
<td>4.83 3.97, 5.86</td>
</tr>
</tbody>
</table>

Abbreviations: OR, odds ratio; CI, confidence interval
\(^a\) Adjusted for clustering resulting from multiple singleton deliveries within the same mother and potential confounders including site, infant sex, maternal age, race, marital status, parity, prepregnancy BMI, hypertensive disorders of pregnancy, insurance status, humidity, particulate matter with diameter <2.5 microns, ozone, and season of conception.
\(^b\) Analyses were based on pregnancies that completed the 2\(^{nd}\) trimester (631 antepartum stillbirths). Intrapartum stillbirth analyses did not converge due to low number of cases (n=33).
Table S4. Sensitivity Analysis Results of Chronic Associations Between Extreme Ambient Temperatures and Stillbirth Among Singleton Births in the Consortium on Safe Labor, 2002-2008 (Matched Case-control Analysis).

<table>
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<tr>
<th>Pregnancy windows</th>
<th>OR&lt;sup&gt;a&lt;/sup&gt;</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
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<td><strong>Hot</strong></td>
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<td></td>
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<tr>
<td>Preconception</td>
<td>0.86</td>
<td>0.66, 1.14</td>
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<td>0.59, 1.04</td>
</tr>
<tr>
<td>Trimester 2</td>
<td>1.24</td>
<td>0.97, 1.59</td>
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<tr>
<td>Whole Pregnancy&lt;sup&gt;b&lt;/sup&gt;</td>
<td>4.29</td>
<td>3.22, 5.72</td>
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<tr>
<td><strong>Cold</strong></td>
<td></td>
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<tr>
<td>Preconception</td>
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<td>0.88, 1.47</td>
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<td>0.97</td>
<td>0.75, 1.25</td>
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<td>0.78, 1.32</td>
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<td>2.96</td>
<td>2.21, 3.96</td>
</tr>
</tbody>
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<sup>a</sup>ORs were obtained using conditional logistic regression adjusted for all covariates except study site and air pollutants.

<sup>b</sup>At a given gestational age, whole pregnancy exposure was truncated among controls to match that of the case.
Table S5. Acute Association Between Ambient Temperature During the Week Prior and Stillbirth Among Cases by Type of Stillbirth in the Consortium on Safe Labor, 2002-2008 (Case-crossover analysis).

<table>
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<tr>
<th>Season of delivery</th>
<th>n</th>
<th>OR&lt;sup&gt;a&lt;/sup&gt; Estimate</th>
<th>95% CI</th>
<th>AR&lt;sup&gt;b&lt;/sup&gt; Estimate</th>
<th>95% CI</th>
<th>AR&lt;sup&gt;c&lt;/sup&gt; Estimate</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intrapartum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold (Oct-Apr)</td>
<td>50</td>
<td>1.02</td>
<td>0.96,1.08</td>
<td>1.1</td>
<td>-2.8,5.1</td>
<td>0.8</td>
<td>-2.0,3.7</td>
</tr>
<tr>
<td>Warm (May-Sept)</td>
<td>45</td>
<td>1.05</td>
<td>0.95,1.17</td>
<td>3.2</td>
<td>-3.2,10.4</td>
<td>2.3</td>
<td>-2.3,7.5</td>
</tr>
<tr>
<td>Antepartum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold (Oct-Apr)</td>
<td>490</td>
<td>1.00</td>
<td>0.98,1.02</td>
<td>0.1</td>
<td>-1.2,1.4</td>
<td>0.1</td>
<td>-0.9,1.0</td>
</tr>
<tr>
<td>Warm (May-Sept)</td>
<td>402</td>
<td>1.06</td>
<td>1.03,1.10</td>
<td>3.8</td>
<td>1.8,5.9</td>
<td>2.7</td>
<td>1.3,4.3</td>
</tr>
</tbody>
</table>

Abbreviations: OR, odds ratio; CI, confidence interval; AR, attributable risk

<sup>a</sup>The ORs for case-crossover models are obtained from conditional logistic regression with robust standard errors where only cases were selected and they act as their own controls. Estimates are for one degree Celsius increase in ambient temperature adjusted for relative humidity and time invariant confounders.

<sup>b</sup>Calculated using US background rate as \( I_0 \); risk is expressed as per 10,000 births

<sup>c</sup>Calculated using study specific background rate during specific season as \( I_0 \); risk is expressed as per 10,000 births
Table S6. Population Attributable Fraction (PAF) Associated With Chronic Exposure to Extreme Ambient Temperature by Type of Stillbirth in the Consortium on Safe Labor, 2002-2008.

<table>
<thead>
<tr>
<th>Whole pregnancy temperature</th>
<th>PAFa</th>
<th>95% CI</th>
<th>Total cases</th>
<th>Excess casesb</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antepartum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold</td>
<td>0.19</td>
<td>0.18, 0.20</td>
<td>219</td>
<td>42.4</td>
<td>40.0, 44.4</td>
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<tr>
<td>Hot</td>
<td>0.18</td>
<td>0.16, 0.19</td>
<td>215</td>
<td>38.0</td>
<td>35.3, 40.3</td>
</tr>
<tr>
<td>Cold</td>
<td>0.24</td>
<td>0.21, 0.26</td>
<td>28</td>
<td>6.8</td>
<td>5.9, 7.3</td>
</tr>
<tr>
<td>Intrapartum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hot</td>
<td>0.19</td>
<td>0.14, 0.21</td>
<td>23</td>
<td>4.4</td>
<td>3.2, 4.9</td>
</tr>
</tbody>
</table>

Abbreviations: PAF, population attributable fraction; CI, confidence interval

aPAF was calculated using the formula: \( \text{PAF} = \frac{p_d(\text{OR}-1)}{\text{OR}} \), expressed as a proportion.

bExpressed as per 100,000 births