Online Supplemental Material: Additional File 2

Effect estimates with 95%-confidence intervals based on interquartile range increases in air pollutants for the interaction analyses with times spent in traffic (using a car, bus, tram or taxi):

**DC**

![Graph of DC effect estimates]

**RMSSD**

![Graph of RMSSD effect estimates]
Significant (p<0.05) as well as borderline significant (p<0.10) interactions are marked with a blue circle.

For the 254 24-hour ECGs the following numbers of observations were observed for times spent in traffic:

<table>
<thead>
<tr>
<th>Times spent in traffic</th>
<th>During 24-hour ECG (conc.)</th>
<th>24 hours before ECG (0-23h)</th>
<th>48 hours before ECG (23-47h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than one hour</td>
<td>68</td>
<td>120</td>
<td>131</td>
</tr>
<tr>
<td>More than one hour</td>
<td>169</td>
<td>119</td>
<td>109</td>
</tr>
<tr>
<td>Information missing</td>
<td>17</td>
<td>15</td>
<td>14</td>
</tr>
</tbody>
</table>

In traffic: at least one hour in traffic
Not in traffic: less than one hour in traffic
IQR: interquartile range
UFP: number concentration of particles between 0.01 and 0.1μm diameter
PM$_{2.5}$: mass concentration of particles <2.5 μm diameter
EC and OC: elemental and organic carbon
DC: deceleration capacity
RMSSD: square root of the mean square of successive differences of normal-to-normal (NN) intervals
pNN50: percentage of adjacent NN intervals which differ more than 50ms
conc.: concurrent to the ECG-measurements
0-23h: 0-23 hours before the ECG-measurements
23-47h: 23-47 hours before the ECG-measurements