Statistical Evidence for 5G-mmWave Exposure as a Significant Factor in Rate of COVID-19 Cases and Deaths

By Angela Tsiang, with data from Dr. Magda Havas

<table>
<thead>
<tr>
<th></th>
<th>Total Cases per 1 million</th>
<th>Total Deaths per 1 million</th>
<th>Total Tests per 1 million</th>
<th>% Cases/Tests</th>
<th>% Deaths/Tests</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean for States with mmWave 5G</td>
<td>2,566</td>
<td>128</td>
<td>14,629</td>
<td>15.64%</td>
<td>0.724%</td>
<td>33</td>
</tr>
<tr>
<td>Mean for States without mmWave 5G</td>
<td>1,288</td>
<td>55</td>
<td>14,324</td>
<td>8.82%</td>
<td>0.364%</td>
<td>18</td>
</tr>
<tr>
<td>with vs. without mmWave 5G</td>
<td>99%</td>
<td>131%</td>
<td>2%</td>
<td>77%</td>
<td>99%</td>
<td></td>
</tr>
<tr>
<td>p-value for mean (1-tailed t test)</td>
<td>0.0199</td>
<td>0.0455</td>
<td>0.8</td>
<td>0.00345</td>
<td>0.0191</td>
<td></td>
</tr>
<tr>
<td>Pearson Correlation to Pop. Density: 50 states</td>
<td>0.723</td>
<td>0.577</td>
<td>0.496</td>
<td>0.701</td>
<td>0.600</td>
<td></td>
</tr>
<tr>
<td>Pearson Corr. to PopDensity*mmWave: mmW states</td>
<td>0.703</td>
<td>0.785</td>
<td>0.545</td>
<td>0.431</td>
<td>0.560</td>
<td></td>
</tr>
<tr>
<td>Pearson Correlation to Air Quality Index</td>
<td>0.269</td>
<td>0.1693</td>
<td>0.245</td>
<td>0.233</td>
<td>0.154</td>
<td></td>
</tr>
</tbody>
</table>
8.82% no mmWave 5G vs. 15.6% with mmWave 5G (p = 0.00345)

Average for mmWave 5G state = 15.6%

Average for non-mmWave 5G state = 8.82%
% Deaths/Tests per State
0.364% no mmWave 5G vs. 0.724% with mmWave 5G
(p = 0.019)

Average for non-mmWave 5G state = 0.364%
Average for mmWave 5G state = 0.724%
1288 no mmWave 5G vs. 2566 with mmWave 5G
\( (p = 0.0199) \)

Average for non-mmWave 5G state = 1288

Average for mmWave 5G state = 2566
Deaths/Million

55 no mmWave 5G vs. 128 with mmWave 5G

(p = 0.0455)

Average for non-mmWave 5G state = 55

Average for mmWave 5G state = 128

New Jersey
New York
Michigan
Massachusetts
Georgia
Colorado
Illinois
Pennsylvania
District Of Columbia
Maryland
Indiana
Louisiana
Virginia
South Dakota
Ohio
Rhode Island
South Carolina
New Hampshire
Arkansas
Tennessee
Arkansas
North Carolina
Washington
Kentucky
Arizona
Texas
Florida
Nevada
Idaho
Nebraska
Missouri
California
Iowa
Rhode Island
Ohio
South Dakota
Virginia
Louisiana
Indiana
Maryland
District Of Columbia
Pennsylvania
Illinois
Colorado
Georgia
Massachusetts
Michigan
New York
New Jersey