Mask-Wearing Beliefs in the State of Oklahoma and Surrounding Region

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Introduction
Since COVID-19 first appeared in Wuhan China December 31, 2019¹, discussion surrounding how to best combat and treat the disease has varied. New information regarding asymptomatic (people who have the disease but never exhibit symptoms) and pre-symptomatic (people who have the disease but have not yet shown symptoms) spread of the virus has changed many recommendations². The CDC now recommends "everyone wear cloth face coverings when leaving their homes, regardless of whether they have fever or symptoms of COVID-19."³ Some states and many individual cities and counties have implemented mandatory mask rules in an attempt to slow the spread of COVID-19, while keeping businesses open in hopes of minimizing economic impact. Governor Stitt of Oklahoma said he does not support mandatory masks in Oklahoma; however, individual cities including Stillwater and Norman have approved mask mandates⁴. In Texas, governor Greg Abbot has previously stated he would not support mandatory masks. As COVID-19 cases surged in Texas, Gov. Abbot issued a mandatory mask mandate for those counties with more than 20 coronavirus cases.⁵

The decisions regarding COVID-19 made within a state are likely to be influenced by the surrounding states, and increases in cases of COVID-19 are likely to cross state lines because there are many communities on state borders. Therefore, this analysis focuses on the beliefs and impact felt in Oklahoma (Oklahoma region) in comparison to the rest of the country. Beliefs regarding the impact of COVID-19 on daily life, as well as beliefs and current use of masks or other facial coverings to prevent viral spread is the focus of this analysis. This information is important for businesses, government agencies and individuals when making decisions surrounding COVID-19. Although it was found that 79% of respondents from the Oklahoma region believed masks have some potential role in U.S. society related to the spread of viral disease, many respondents' beliefs regarding masks were not positive. A higher percentage of respondents from the Oklahoma region believed that wearing a mask does not prevent the spread of COVID-19 and has negative health consequences for the mask wearer when compared to the rest of the country.

Methods
Data were collected June 12, 2020 to June 20, 2020, as residents returned to some public places in much of the U.S. Kantar, a company which hosts a large opt-in panel database,⁶ was used to obtain survey respondents, who were required to be 18 years of age or older to participate. The research process was approved by Oklahoma State University IRB (number: 20-283). COVID-19 does not recognize state borders; therefore, it was important to analyze not only Oklahoma, but the surrounding states because the beliefs and policies enacted by those residents are likely to have an impact. This method resulted in two groups of states Oklahoma region- Texas, New Mexico, Colorado, Kansas, Missouri and Arkansas; and all other states (Figure 1).

Figure 1. Oklahoma region (in orange). The surrounding states are New Mexico, Colorado, Kansas, Missouri, Arkansas and Texas.
The results of demographic questions were compared between the Oklahoma region and rest of the country using the test of proportions. Respondents also were asked on a scale of 1 (not impacted) to 5 (impacted) the level of impact from COVID-19 they experienced for five different daily activities. The activities included the ability to purchase food and supplies and to work, travel and engage in daily activities. The mean responses were compared between the Oklahoma and the rest of the country using a t-test. Respondents were presented with the question: “Do you agree that masks (meaning any face covering that covers your nose and mouth) have any role in U.S. society related to the spread of viral disease, especially COVID-19, in the June to December 2020 time frame?” and could select the answer “No-they have absolutely no role whatsoever in U.S. society,” or “Yes-they have some potential role in U.S. society.” Respondents also were asked a series of questions related to beliefs surrounding masks ranging from “wearing a mask helps prevent the spread of COVID-19” to “wearing a mask has negative health consequences for the mask wearer.” Respondents who believed masks had a role in U.S. society were asked a follow up set of questions regarding their behavior at specific locations. If respondents indicated the location was open in their community, and that it was a location they attended, respondents were asked their mask-wearing status. The percentage of respondents who indicated they wore a mask voluntarily, they were required to wear a mask or they did not wear a mask was tabulated and statistically compared. Respondents also were asked their level of agreement on a scale of 1 (strongly disagree) to 5 (strongly agree) their level of agreement that someone in their household, or that they frequently spend time with, is at a higher risk of complications of COVID-19 and the level of agreement the respondent was at a higher risk. According to the CDC, older adults and people with certain underlying medical conditions are at increased risk of severe illness from COVID-19. Underlying medical conditions that increase risk of severe illness from COVID-19 include: chronic kidney disease, COPD, immunocompromised states, obesity, serious heart condition, sickle cell disease and type 2 diabetes. The mean response for the two questions for each state grouping is reported, and a t-test was used to statistically compare the Oklahoma the rest of the country.

### Results and Discussion

Demographics of the Oklahoma region were very similar to the rest of the country with a few exceptions. A higher percentage of respondents from the Oklahoma region were between the ages of 18 to 24 and a lower percentage were greater than 65 years old when compared to the rest of the country.

Respondents were asked on a scale from 1 (not impacted) to 5 (impacted) the level of impact COVID-19 had on five different activities (Table 2). Respondents also had the opportunity to select “this does not apply to me.” The mean response for those that the activity applied to was calculated. While daily life was impacted considerably by COVID-19, it impacted their ability to acquire food and paper products the least. Most of the interruptions concerned their ability to work, attend school

<table>
<thead>
<tr>
<th>Demographic Variable</th>
<th>Oklahoma + surrounding states Respondents n=151</th>
<th>Rest of U.S. Respondents n=1,047</th>
<th>U.S. Census</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>47</td>
<td>47</td>
<td>49</td>
</tr>
<tr>
<td>Female</td>
<td>53</td>
<td>52</td>
<td>51</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-24</td>
<td>16(^1)</td>
<td>9(^1)</td>
<td>13</td>
</tr>
<tr>
<td>25-34</td>
<td>20</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>35-44</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>45-54</td>
<td>18</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td>55-65</td>
<td>14</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>65+</td>
<td>14(^1)</td>
<td>21(^1)</td>
<td>19</td>
</tr>
<tr>
<td>Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$0-$24,999</td>
<td>25</td>
<td>24</td>
<td>22</td>
</tr>
<tr>
<td>$25,000-$49,999</td>
<td>24</td>
<td>25</td>
<td>23</td>
</tr>
<tr>
<td>$50,000-$74,999</td>
<td>18</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td>$75,000-$99,999</td>
<td>13</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>$100,000 and higher</td>
<td>19</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did not graduate from high school</td>
<td>4</td>
<td>2</td>
<td>13</td>
</tr>
<tr>
<td>Graduated from high school, did not attend college</td>
<td>32</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Attended college, no degree earned</td>
<td>27</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>Attended college, associates or bachelor’s degree earned</td>
<td>25</td>
<td>32</td>
<td>27</td>
</tr>
<tr>
<td>Attended college, graduate or professional degree earned</td>
<td>11</td>
<td>14</td>
<td>12</td>
</tr>
</tbody>
</table>

\(^1\) Indicates the percentage of respondents from that category from Oklahoma and surrounding states is statistically different than the rest of the country at the <0.05 level.
and travel. Although grocers in Oklahoma admitted there were empty shelves and a particular item may not have been available, there was plenty of food on the shelves in general (Hoberock, 2020). The Oklahoma region indicated they experienced a lower level of impact related to the ability to find paper products when compared to the rest of the country. The Oklahoma region experienced higher levels of impact in their ability to execute travel plans and activities related to the respondent’s work/school. On March 24th, 2020, Oklahoma Governor Kevin Stitt ordered all non-essential businesses to close for 21 days starting March 25th, 2020. The closing was extended until April 22, 2020 when phased reopening was allowed. Many of the states surrounding Oklahoma had similar shelter-in-place type orders, which likely had a high level of impact on the respondents.

Seventy-nine percent of respondents from the Oklahoma region indicated that “yes-masks have some potential role in U.S. society related to the spread of viral disease, especially COVID-19” (Table 3). This was not different from the rest of the country. A lower percentage of respondents in the Oklahoma region indicated wearing a mask helps prevent the spread of COVID-19, helps prevent me (the respondent) from getting COVID-19 and helps prevent me from spreading COVID-19 when compared to the rest of the country. According to the CDC, cloth face coverings work as a barrier to prevent respiratory droplets from traveling into the air and onto other people during normal activities such as talking, coughing or sneezing (CDCb, 2020). Respiratory droplets play a role in spreading COVID-19; therefore face coverings are recommended.14 Wearing a mask is more beneficial in terms of preventing the spread of the disease, as opposed to protecting the wearer from the disease as the eyes are still exposed.15,16 However, if everyone is wearing a mask, the number of droplets that can reach an individual decreases, minimizing exposure.16 This is especially important when considering asymptomatic (people who have the disease but never exhibit symptoms) and pre-symptomatic (people who have the disease but have not shown symptoms yet) spread. A lower percent of respondents from the Oklahoma region believed wearing a mask will help prevent future lock-downs in their community related to COVID-19 when compared to the rest of the country. It is unclear if respondents believed the overall number of cases would not decrease from mask usage, and therefore a future lock-down would be inevitable or if they believed masks just are not enough. Evaluating the potential economic benefit of masks, a study by economists at Goldman Sachs states that $1 trillion in the U.S. GDP can

<table>
<thead>
<tr>
<th>Activity</th>
<th>1 (Not impacted)</th>
<th>2</th>
<th>3</th>
<th>4 (Impacted)</th>
<th>5</th>
<th>Does not apply to me</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respondents daily activities outside of work/school</td>
<td>OK 17 10 18</td>
<td></td>
<td></td>
<td>OK 19 22</td>
<td></td>
<td>OK 30 32 6 8</td>
<td>3.38</td>
</tr>
<tr>
<td></td>
<td>Other 12 8</td>
<td></td>
<td></td>
<td>Other 22</td>
<td></td>
<td>Other N=142 N=964</td>
<td></td>
</tr>
<tr>
<td>Ability to buy paper products (e.g., toilet paper, paper towels)</td>
<td>21 13 14 9</td>
<td></td>
<td></td>
<td>23 25 24 30 3</td>
<td></td>
<td>3.16ac 3.50a2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other 15 20 23 22</td>
<td></td>
<td></td>
<td>Other 30 3</td>
<td></td>
<td>Other N=142 N=1026</td>
<td></td>
</tr>
<tr>
<td>Ability to find meat, milk and perishable grocery items</td>
<td>21 20 17 16 23 22</td>
<td></td>
<td></td>
<td>19 23 17 17 3 3</td>
<td></td>
<td>2.93c 3.02b</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other 17 10 14 9</td>
<td></td>
<td></td>
<td>Other 33 30 17 28</td>
<td></td>
<td>Other N=147 N=1020</td>
<td></td>
</tr>
<tr>
<td>Ability to execute travel plans</td>
<td>16 10 3 4</td>
<td></td>
<td></td>
<td>13 14 42 40 16 23</td>
<td></td>
<td>3.72bd 3.91c</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other 11 10 13 9</td>
<td></td>
<td></td>
<td>Other 33 30 17 28</td>
<td></td>
<td>Other N=127 N=808</td>
<td></td>
</tr>
<tr>
<td>Activities related to respondent’s work/school</td>
<td>13 15 12 5</td>
<td></td>
<td></td>
<td>14 13 33 30 17 28</td>
<td></td>
<td>3.52ad 3.54a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other 9 11 10 14</td>
<td></td>
<td></td>
<td>Other 30 28</td>
<td></td>
<td>Other N=125 N=755</td>
<td></td>
</tr>
</tbody>
</table>

1 Matching letters indicate the mean is statistically different down the column. For example for Oklahoma region the mean response for respondents daily activities outside of work/school is not statistically different from ability to buy paper products, but ability to find meat, milk and perishable grocery items is different at the <0.05 level.

2 Indicates the mean is statistically different between Oklahoma region and the rest of the country for that activity at the <0.05 level.
Table 3. Percentage of respondents who agree with mask-related statements.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Oklahoma region</th>
<th>Rest of U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES - masks have some potential role in U.S. society related to the spread of viral disease, especially COVID-19</td>
<td>79(^1)</td>
<td>84(^1)</td>
</tr>
<tr>
<td>Wearing a mask helps prevent the spread of COVID-19</td>
<td>62(^{1,2})</td>
<td>71(^{1,2})</td>
</tr>
<tr>
<td>Wearing a mask helps prevent me from getting COVID-19</td>
<td>45(^2)</td>
<td>54(^{1,2})</td>
</tr>
<tr>
<td>Wearing a mask helps prevent me from spreading COVID-19</td>
<td>55(^2)</td>
<td>65(^{1,2})</td>
</tr>
<tr>
<td>Wearing a mask will help prevent future lock-downs in my community related to COVID-19</td>
<td>36(^{1,2})</td>
<td>49(^2)</td>
</tr>
<tr>
<td>There is social pressure in my community to wear a mask</td>
<td>31(^1)</td>
<td>31(^1)</td>
</tr>
<tr>
<td>Wearing a mask does not prevent the spread of COVID-19</td>
<td>19(^{1,2})</td>
<td>13(^{1,2})</td>
</tr>
<tr>
<td>Wearing a mask has negative health consequences for the mask wearer</td>
<td>15(^{1,2})</td>
<td>12(^{1,2})</td>
</tr>
</tbody>
</table>

\(^1\) Indicates the percentage of respondents is statistically different between those who selected they agreed with the statement and those who did not at the <0.05 level. Those who did not select they agreed with the statement and those who did sum to 100% within a category (i.e. Indiana and surrounding states) and were not included for brevity with the exception of the role of masks in society.

\(^2\) Indicates the percentage of respondents between the two levels within a category, for example men vs women, or high total vs low total are statistically different at the <0.05 level.

A higher percentage of respondents from the Oklahoma region believed wearing a mask does not prevent the spread of COVID-19 and has negative health consequences for the mask wearer when compared to the rest of the country.

Respondents who indicated masks had at least some role in society were provided with a list of locations and asked to indicate if that type of business is not open in their community; if they visited that location and whether they wore a mask voluntarily or were required; or if they did not wear a mask. For this analysis, only those who did go to that location, and who had that location open in their community were included. For in-person religious services, big-box grocery stores/supermarket, the gym, restaurants and retail stores (other than a grocery, clothing or home improvement store), a higher percentage of respondents in the Oklahoma region indicated they did not wear a mask when compared to the rest of the country. Even among those who believe masks have a role, between 21% and 34% of respondents were still not wearing a mask. If mask-wearing compliance to prevent the spread of COVID-19 is the goal of a business or state, interventions beyond explaining the role masks can play may be necessary.

On a scale from 1 (strongly disagree) to 5 (strongly agree) respondents were asked to indicate their level of agreement they or someone in their household, or someone they frequently spend time with is at a higher risk of complications of COVID-19. The mean score for the Oklahoma region was statistically lower (2.64) when compared to the rest of the country (2.95) in reference to someone in the household or someone they frequently spend time with being in the higher risk group (Figure 2). Similarly, when asked about their risk of complication of COVID-19 the mean score for the Oklahoma region was lower (2.65) when compared to the rest of the country (2.88) (Figure 3). This indicates that people in the Oklahoma region believe they, and those around them, are not at a higher risk of complications of COVID-19. According to the Oklahoma state Department of Health, the percent of the adult population with diabetes is higher than the rest of the U.S.\(^18\) In 2018, Oklahoma was ranked 10th in the nation be saved by preventing the need for lockdowns.\(^17\)
for obesity, with many surrounding states also having high rates of obesity.\textsuperscript{19} Higher rates of diabetes and obesity means more Oklahomans are at a higher risk of complication of COVID-19, and this is just considering commonly reported/monitored underlying conditions.

**Conclusion**

Although people in the Oklahoma region have felt the impact of COVID-19 in their daily lives, they have been less impacted than other states when it comes to the ability to purchase paper products. Additionally those in the Oklahoma region experienced a lower impact on the ability to find meat, milk and perishable grocery items compared to other activities. Although 79\% of respondents in the Oklahoma region believe wearing a mask has some potential role in U.S. society related to the spread of viral disease, especially COVID-19, many are still not wearing a mask to some locations. Between 21\% and 34\% of respondents who attend the locations and believe masks have a role in society are still not wearing a mask to in-person religious service, big-box grocery stores, gyms, restaurants and other retail stores. Lower percentages of respondents in the Oklahoma region believed masks prevent the spread of COVID-19 in general and help prevent the wearer from spreading COVID-19. Increasing the availability of reliable information and explanations regarding the role of droplets in spreading COVID-19 as well as the prevalence of asymptomatic and pre-symptomatic people may help increase compliance. However, the percentage of people who believe masks have a role but still do not wear a mask indicates multiple strategies may be required to achieve widespread mask usage to prevent the spread of COVID-19.

For analysis between different regions and additional COVID-19 mask analysis please visit: https://agribusiness.purdue.edu/consumer_corner/

**References**


The Oklahoma Cooperative Extension Service

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