Butler County General Health District
COVID-19 Update (4/02/2020)

Total Confirmed* COVID-19 Cases
Butler County Residents, 2020

- Total # of Confirmed Cases: 49*
- Total Number of Deaths: 1
- First Case Reported: 3/13/2020
- Last Case Reported (so far): 4/02/2020
- Age Range: 1-86
- Median Age: 55
- Average Age: 54.7
- High Risk: 13
- Healthcare/first responders: 4 (8.9%)
- Hospitalizations: 19 (36.7%)
- Incidence Rate: 13 per 100,000

Figure 1. Butler County Laboratory Confirmed Cases by Symptom Onset Date
Butler County Residents, 2020

All Figures show all confirmed COVID-19 cases in Butler County as of 1200 EDT 04/02/2020. Due to delays in reporting, the numbers of confirmed cases on Figure 1 are subject to change between reports and confirmed case counts are likely to increase. This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed AND verified by the Ohio Department of Health.

*Data is provisional – only confirmed COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 04/02/2020 at 1200 EDT.
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**Table 1: Total Confirmed-Cases by Municipality or Township**

<table>
<thead>
<tr>
<th>City/Township</th>
<th>Number of Cases</th>
<th>% of Confirmed Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberty Township</td>
<td>13</td>
<td>26.5%</td>
</tr>
<tr>
<td>West Chester</td>
<td>13</td>
<td>26.5%</td>
</tr>
<tr>
<td>Hamilton*</td>
<td>6</td>
<td>12.2%</td>
</tr>
<tr>
<td>Oxford</td>
<td>5</td>
<td>10.2%</td>
</tr>
<tr>
<td>Fairfield City</td>
<td>4</td>
<td>8.2%</td>
</tr>
<tr>
<td>Middletown</td>
<td>4</td>
<td>8.2%</td>
</tr>
<tr>
<td>College Corner</td>
<td>1</td>
<td>2.0%</td>
</tr>
<tr>
<td>Fairfield Township</td>
<td>1</td>
<td>2.0%</td>
</tr>
<tr>
<td>Monroe</td>
<td>1</td>
<td>2.0%</td>
</tr>
<tr>
<td>Okeana</td>
<td>1</td>
<td>2.0%</td>
</tr>
<tr>
<td>Butler County (inclusive)</td>
<td>49</td>
<td>100%</td>
</tr>
</tbody>
</table>

*Hamilton mailing address

**Table 2. Confirmed Tests by Laboratory Type**

<table>
<thead>
<tr>
<th>Private Laboratory</th>
<th>Ohio Department of Health Laboratory</th>
<th>Hospital Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>11</td>
<td>6</td>
</tr>
</tbody>
</table>

**Table 3. Cases Recovered in Butler County**

<table>
<thead>
<tr>
<th>Cases Recovered</th>
<th>Range (length until recovery in days)</th>
<th>Median (length until recovery in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>11-24</td>
<td>16</td>
</tr>
</tbody>
</table>

**Table 4. Laboratory Statistics of Collection**

<table>
<thead>
<tr>
<th>Positive Lab Tests</th>
<th>Range (length until results in days)</th>
<th>Median (length until results in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>0-12</td>
<td>4</td>
</tr>
</tbody>
</table>

**Figure 2. Confirmed Cases by Sex**

Butler County Residents, 2020

- Male: 25 (51%)
- Female: 24 (49%)

**Figure 3. Total Confirmed Cases by Age Group**

Butler County Residents, 2020

- <20: 2 (2.0%)
- 20-34: 12 (12.2%)
- 35-49: 20 (20.4%)
- 50-64: 32 (32.7%)
- 65+: 32 (32.7%)

- Not Hospitalized: 95%
- Hospitalized: 5%

- Male: 46 (51%)
- Female: 44 (49%)

- Cases: 289
- Age Group: 20-34
Table 5. Confirmed cases by exposure type

<table>
<thead>
<tr>
<th>Community</th>
<th>Contact with known case</th>
<th>Travel Associated</th>
<th>Under Investigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>12</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

**Recovery is based on the recommendations by the Centers for Disease Control and Prevention (CDC) which recommend the lifting of home isolation after a minimum of 7 days after the onset of symptoms and 72 hours with the resolution of fever without medication and the marked improvement of all symptoms. This should not be assumed to be the total amount of individuals in the county of have developed COVID-19 and recovered, only those who have been laboratory confirmed.

State of Ohio*:

Confirmed Cases: 2,902  
Age Range: <1-99 years  
Median Age: 53  
Sex M:F Ratio: 51:49  
Hospitalizations: 802  
Deaths: 81

*High risk status does not necessarily make one more susceptible to transmission, but does increase the likelihood of a more severe illness.

**All Figures** show all confirmed COVID-19 cases in Butler County as of 1200 EDT 04/02/2020. **Due to delays in reporting**, the numbers of confirmed cases on Figure 1 are subject to change between reports and confirmed case counts are likely to increase. This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed AND verified by the Ohio Department of Health.

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A note about the statistics of COVID-19:

At this point we are seeing evidence of widespread community spread of the virus throughout Butler County. Like all statistics, the surveillance epidemiology of COVID-19 must be taken in context and the understanding of potential confounders. The cities/townships that are listed are those where the cases reside, and not necessarily where they work, socialize, worship, shop, etc. Not every community will have an equal risk, and not every person in the community will have an equal risk as the cases that are in that community. Some communities have more travel-associated cases or clusters of close peer-groups that make their statistics appear skewed or lopsided. Other communities have more true community spread though their absolute number may be lower. Some communities are tighter knit promoting transmission within the community, and some have large portions of commuters that could potentially be importing the virus. Testing policies by health networks to this point have not been homogenous. Some communities have greater access to hospitals that have less strict testing standards. So it is important to use this tool for the community’s situational awareness and not a layperson’s risk assessment.

Other aspects of this report that may seem alarming without context is the proportion of cases that are high risk and hospitalized. While the policies of our federal, state, and local leaders, as well as the goals of our healthcare leaders continue to be to build a testing infrastructure capable of widespread and routine testing for COVID-19, the reality has thus far been that there are limited tests available. Public, private, and academic sectors continue to work admirably to improve testing capabilities, and have largely been successful, but due to limited testing thus far in the epidemic, it has been the most important to test those who would be at highest risk for suffering from complications related to an infection with the virus. This means that those who are highest risk will be prioritized for testing. For these individuals it is absolutely critical their providers know their diagnosis so it can guide their treatment decisions. This also means that we would expect to see a higher proportion of these individuals to come back positive.

If you would like more information about how to protect your family please go to the following websites:
The Butler County General Health District:  
http://health.bcohio.us/our_services/novel_coronavirus.php
The Ohio Department of Health (ODH):  
https://coronavirus.ohio.gov/wps/portal/gov/covid-19/home
The Centers for Disease Control and Prevention (CDC):  

Right now, the best defense that our community has against this virus is to remain calm, and listen to the public health authorities that have been working tirelessly to protect us. We learn more about this disease every day, and every day that you make the hard sacrifices that we know you’re making is another day that we come closer to ending the pandemic.

We’re all in this together.

-Jordan Luttrell-Freeman, MPH
Epidemiologist
Butler County General Health District

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