

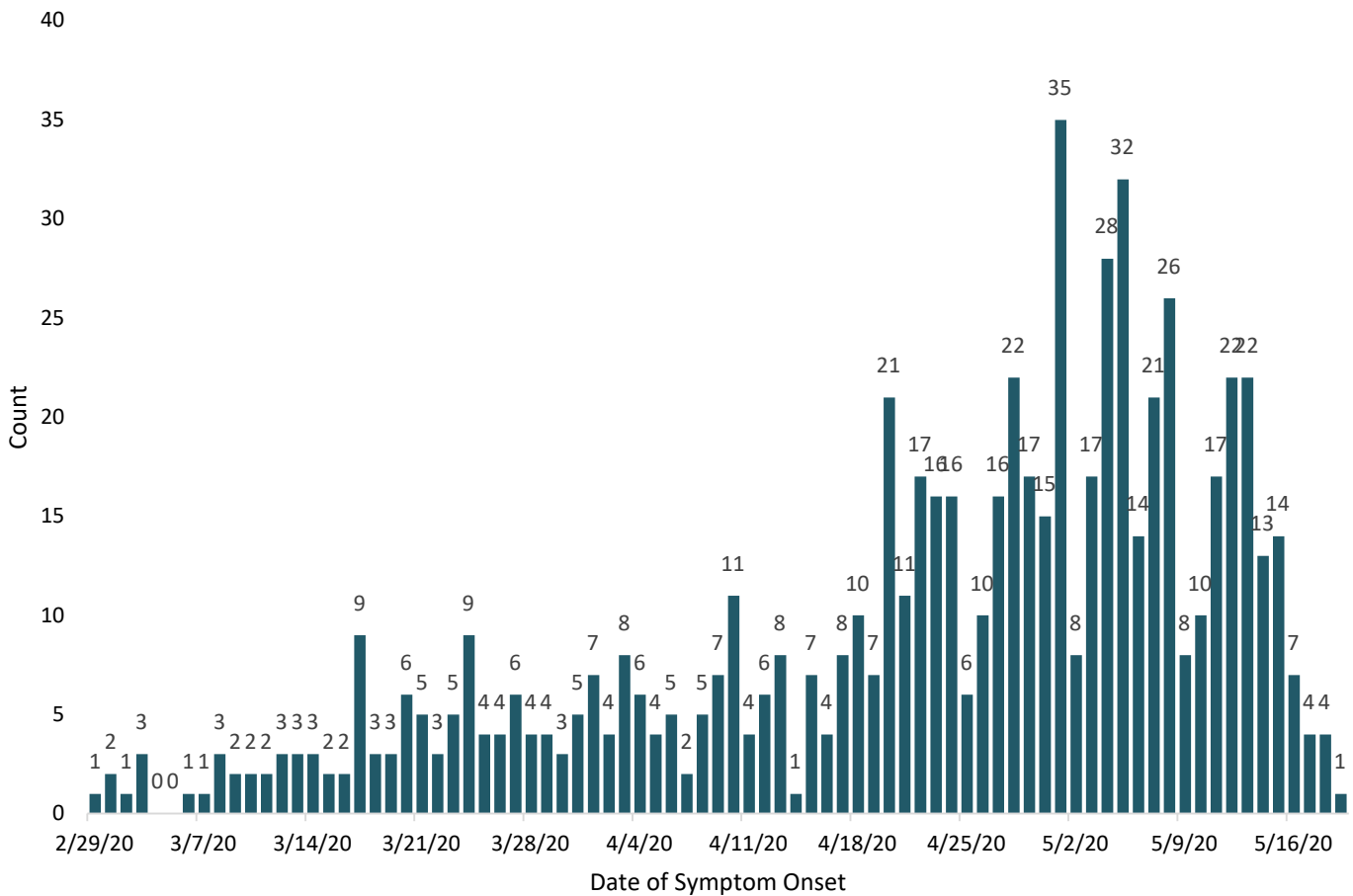
Butler County General Health District COVID-19 Update (05/19/2020)

Confirmed and Probable COVID-19 Cases Reported to Butler County*

Butler County Residents, 2020

| | |
|--|-------------------|
| Total # of Cases*: | 689* |
| Total Number of Deaths (05/12): | 16 |
| First Case Reported: | 3/11/2020 |
| Last Case Reported (so far): | 5/19/2020 |
| Confirmed Cases: | 677 |
| Probable Cases: | 12 |
| Age Range: | <1-101 |
| Median Age: | 45 |
| Mean Age: | 45.97 |
| Incidence Rate: | 180.2 per 100,000 |

Figure 1: Cases Reported to Butler County by Symptom Onset Date*



All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 05/19/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and confirmed and probable 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 OR meet ODH probable case criteria AND reported to Public 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 05/19/2020 at 1700 EDT.

Figure 2. Cumulative Cases Reported to Butler County by Date Reported*

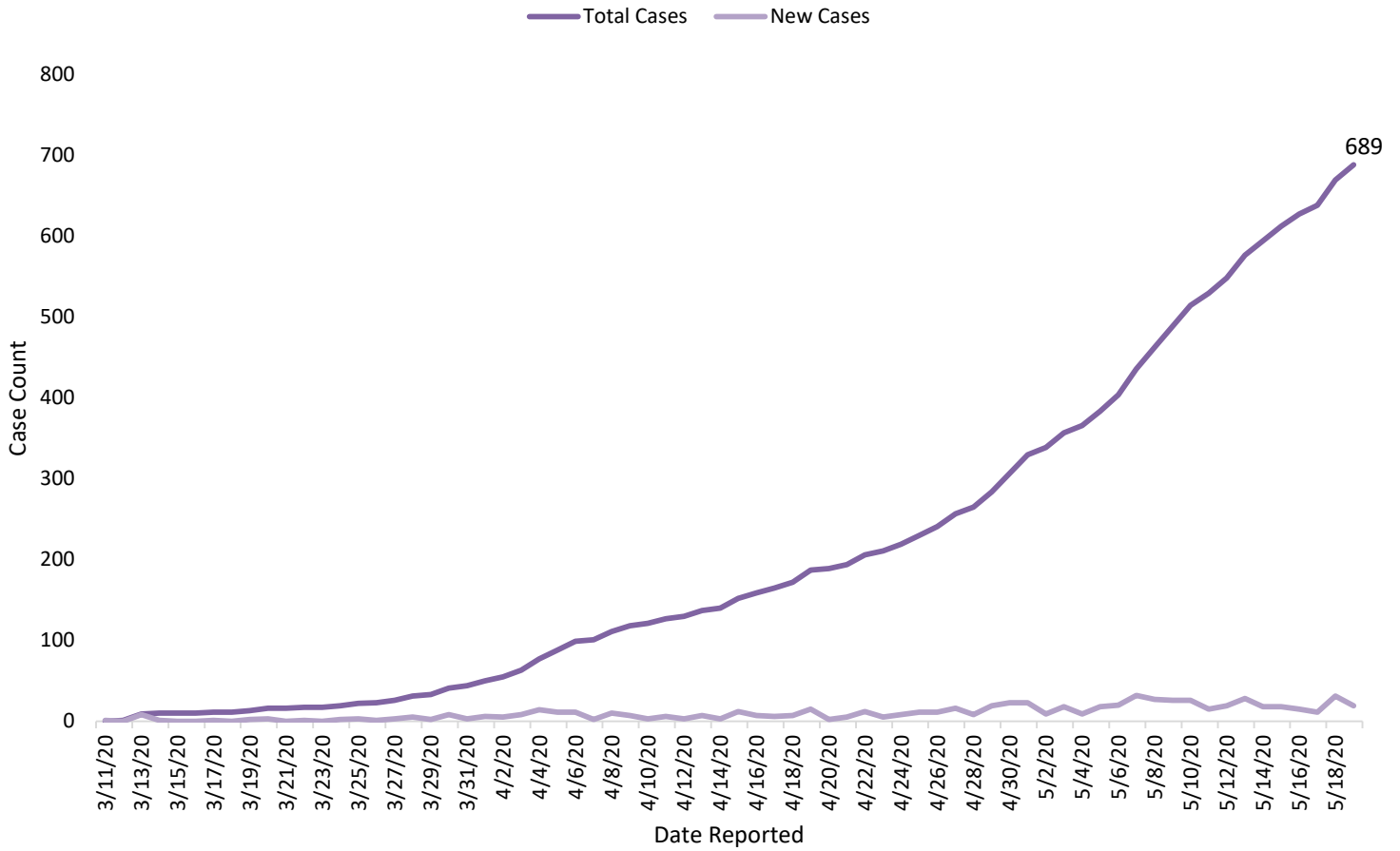
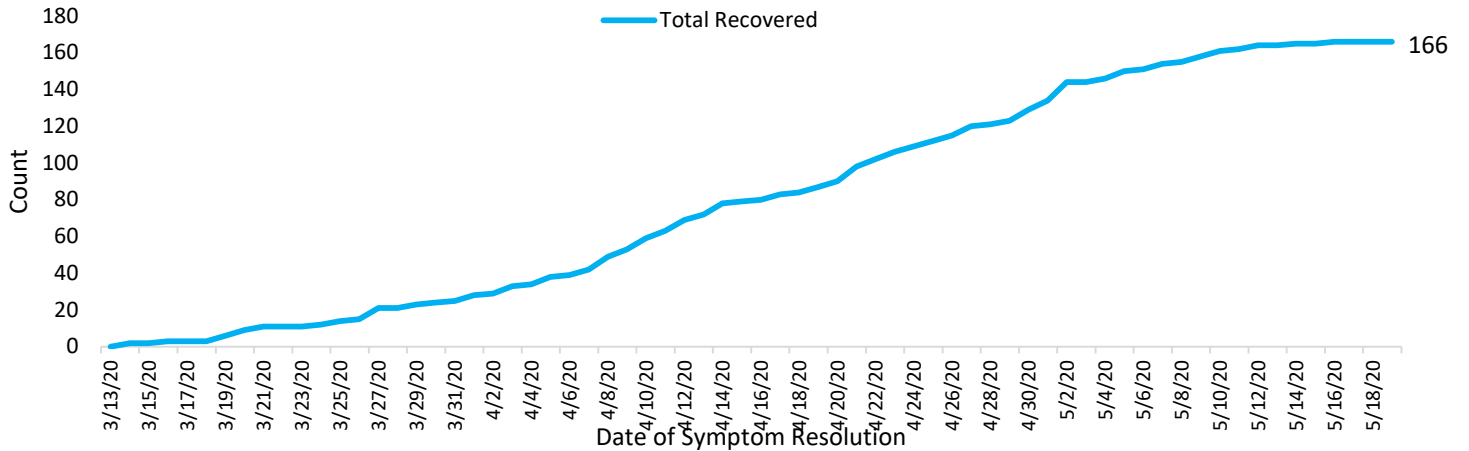


Figure 3. Known Recovered Cases in Butler county**



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 that have developed COVID-19 and recovered.**

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Demographics of COVID-19 Cases Reported to Butler County

Butler County Residents, 2020
(as of 1700 EDT 05/19/2020)

| Table 1: Total Reported* Cases by ZIP Code | | | |
|--|-----------------|------------------|----------------------|
| ZIP Code | Number of Cases | Rate per 100,000 | % of Confirmed Cases |
| 45014 | 180 | 409.9 | 26.1% |
| 45011 | 161 | 231.1 | 23.4% |
| 45044 | 83 | 157.1 | 12.0% |
| 45069 | 79 | 161.0 | 11.5% |
| 45013 | 45 | 85.5 | 6.5% |
| 45042 | 31 | 117.2 | 4.5% |
| 45015 | 39 | 324.0 | 5.7% |
| 45056 | 17 | 62.9 | 2.5% |
| 45050 | 13 | 152.1 | 1.9% |
| 45067 | 12 | 86.3 | 1.7% |
| 45246 | 9 | - | 1.3% |
| 45241 | 11 | - | 1.6% |
| 45053 | 3 | 87.8 | 0.4% |
| 45003 | 1 | - | 0.1% |
| 45005 | 1 | - | 0.1% |
| Butler County (inclusive) | 685 | | 99.4% |

Zip-codes not calculated have most of their population outside of Butler County. Rate given for comparison by population and will be higher than the actual amount. Two cases haveno recorded address.

| Table 2. Exposure Type | | | | | | |
|------------------------|---------------------|----------------|-------------------|-------------------|--------------------|-----------|
| Community | Healthcare Exposure | First Response | Household contact | Travel associated | Congregate setting | Workplace |
| 370 | 99 | 6 | 125 | 11 | 44 | 40 |

| Table 3. Clusters in Butler County | | |
|------------------------------------|-------|----------------------|
| Cluster Associated Cases | Cases | % of Clustered Cases |
| Cluster Association | | |
| Household/Family | 144 | 53.3% |
| Healthcare | 26 | 21.5% |
| Workplace | 24 | 17.8% |
| Congregate setting | 42 | 5.9% |
| First Response | 2 | 1.5% |

There may seem to be discrepancies between the exposure type and the clusters in Butler County. There are a number of reasons for this. The first is that an exposure is not the same as a cluster. There may be individuals who have had direct contact with their family members, but do not have their own cluster. There also might be individuals who have a different exposure type. For example, a healthcare worker may have a healthcare exposure, and if their family gets sick they would be considered a healthcare exposure but also part of a household/family cluster. Another example would be first responders. Only 2 first responders who live in Butler County are part of a cluster, but there are 4 other first responders who have come down with the illness that did not spread to their coworkers. Some may be from clusters that are related to other jurisdictions.

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Figure 4. Confirmed Cases of Covid-19 by Sex*
Butler County Residents, 2020

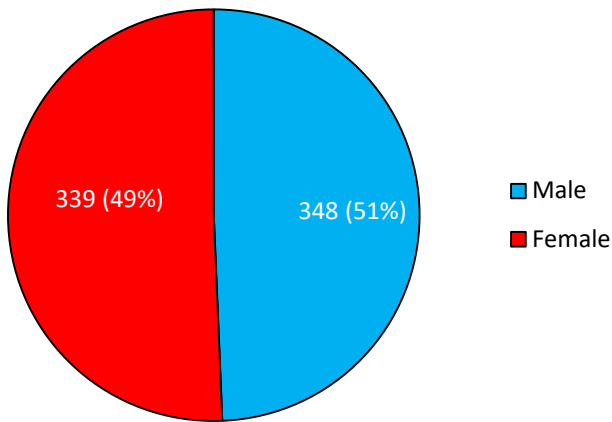


Figure 5. Reported Confirmed Cases by Age Group*
Butler County Residents, 2020

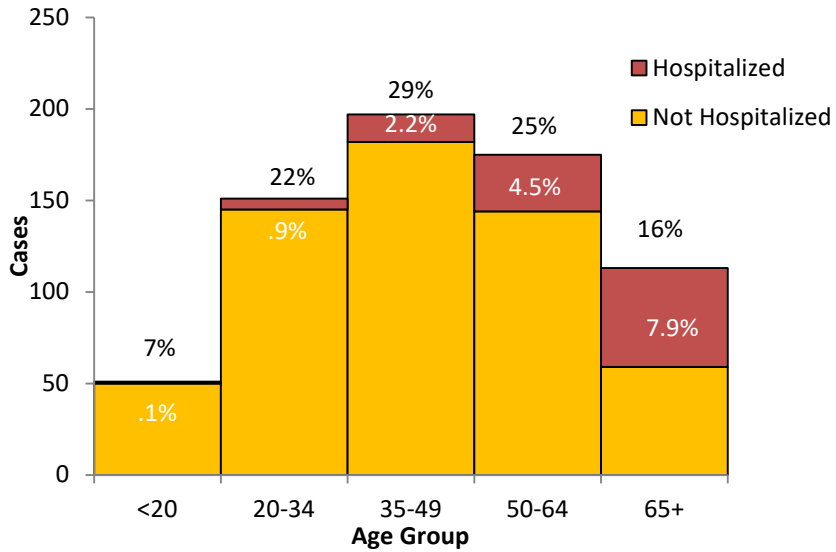
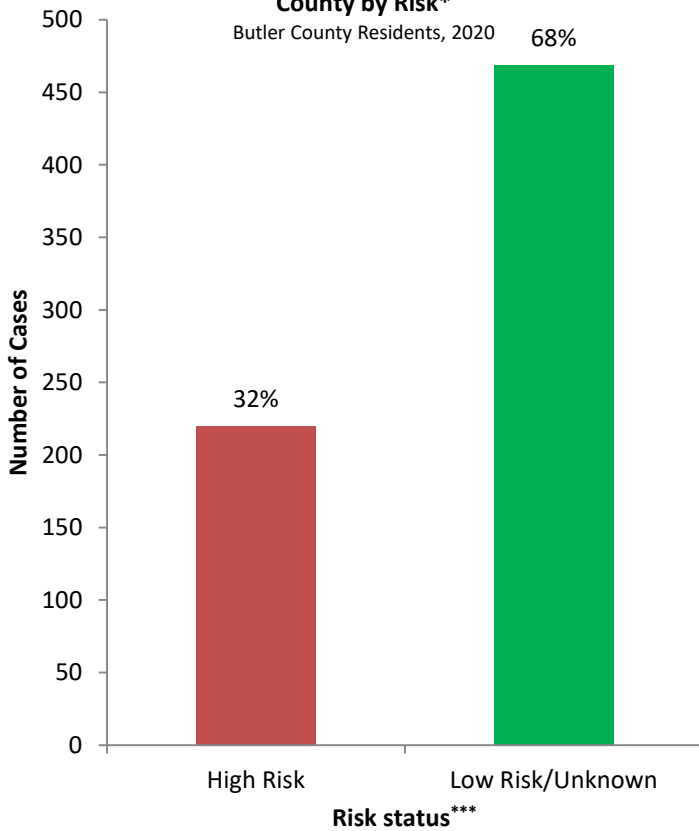


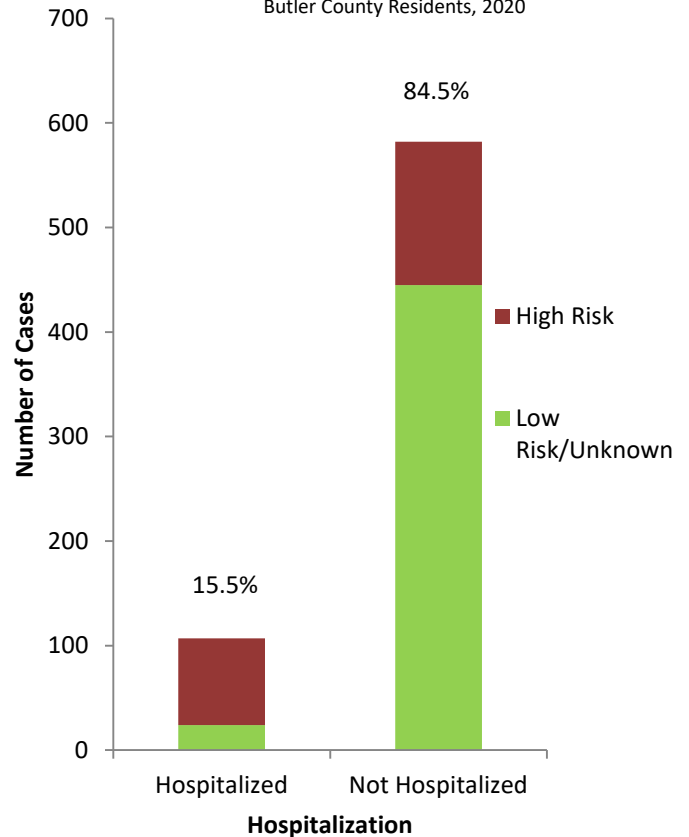
Figure 6. COVID-19 Cases Reported to Butler County by Risk*
Butler County Residents, 2020



(Underlying Health Conditions or Older than 65)

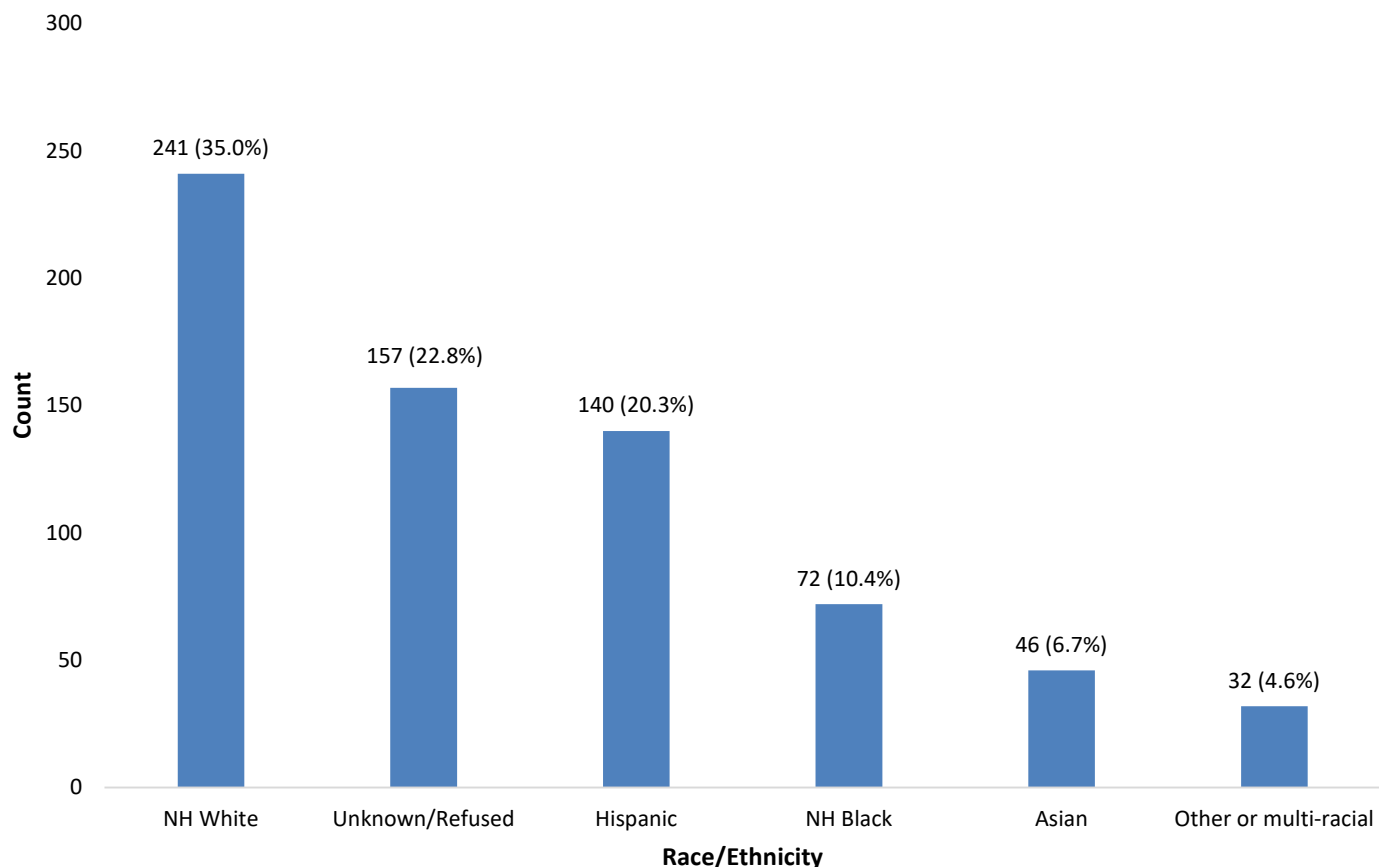
***High risk status does not necessarily make one more susceptible to transmission, but does increase the likelihood of a more severe illness

Figure 7. COVID-19 Cases Reported to Butler County by Hospitalization
Butler County Residents, 2020



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Figure 8. Cases Reported to Butler County by Race/Ethnicity



Clinical Statistics for Reported Butler County Cases

Butler County Residents, 2020
(as of 1700 EDT 05/19/2020)

| Table 4. Laboratory Statistics | | | | |
|--------------------------------|---------|----------------------|-----------------------|---------------------|
| | Overall | Private Laboratories | Hospital Laboratories | Public Laboratories |
| Confirmatory Tests | 677 | 448 | 205 | 21 |
| Range (in days) | <1-27 | <1-27 | <1-5 | 1-4 |
| Median (in days) | 2 | 2 | 1 | 1 |

| Table 5. Hospitalization Statistics | | | |
|---------------------------------------|-------|----------------------------------|-------------------------|
| | N | Percentage of Hospitalized Cases | Percentage of all cases |
| Total Hospitalized | 107 | 100% | 15.5% |
| Cases with information | 104 | 97.2% | 15.1% |
| Currently Hospitalized | 41 | 38.3% | 6.0% |
| Admitted to Intensive Care Unit (ICU) | 17 | 15.9% | 2.5% |
| Required intubation | 14 | 13.1% | 2.0% |
| Range of Length of Stay (in days) | <1-35 | - | - |
| Median Length of Stay (in days) | 7 | - | - |

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| Table 6. Symptoms Reported | | |
|----------------------------|-----|------------|
| | N | Percentage |
| Cases with Information | 389 | 100% |
| Cough | 274 | 70.4% |
| Fever | 269 | 69.2% |
| Myalgia | 183 | 47.0% |
| Shortness of Breath | 171 | 44.0% |
| Headache | 152 | 39.1% |
| Chills | 124 | 31.9% |
| Runny Nose | 99 | 25.4% |
| Sore Throat | 94 | 24.2% |
| Nausea | 66 | 17.0% |
| Diarrhea | 57 | 15.4% |
| Abdominal Pain | 38 | 9.8% |
| Asymptomatic | 36 | 9.3% |

| Table 7. Recovery** Statistics | | |
|--|------|------------|
| | N | Percentage |
| Cases Recovered | 215 | 31.2% |
| Cases with Information | 166 | 24.1% |
| Range from illness onset to recovery (in days) | 7-51 | - |
| Median time from illness onset to recovery (in days) | 12 | - |

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State of Ohio*:

Confirmed and Probable Cases: 28,952

Age Range: <1-108

Median Age: 50

Sex F:M Ratio: 46:53

Hospitalizations: 5,117

Deaths: 1,720

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