

Demographics of COVID-19 Cases Reported to Butler County

Butler County Residents, 2020
(as of 0900 EDT 04/29/2020)

Table 1: Total Reported* Cases by ZIP Code		
ZIP Code	Number of Cases	% of Confirmed Cases
45014	60	23.3%
45011	46	17.9%
45044	37	14.4%
45069	32	12.5%
45013	23	8.9%
45042	18	7.0%
45056	14	5.4%
45015	12	4.7%
45050	5	1.9%
45067	4	1.5%
45053	2	0.8%
45003	1	0.4%
45005	1	0.4%
45241	1	0.4%
45246	1	0.4%
Butler County (inclusive)	257	100%

Table 2. Exposure Type					
Community	Healthcare Exposure	First Response	Household contact	Travel associated	Social Event
156	51	2	36	11	1

Table 3. Clusters in Butler County		
Cluster Associated Cases	67	26%
Cluster Association	Number of Clusters	Cases
Household	20	59
Workplace	2	8

Figure 4. Reported* Cases of COVID-19 by Sex
Butler County Residents, 2020

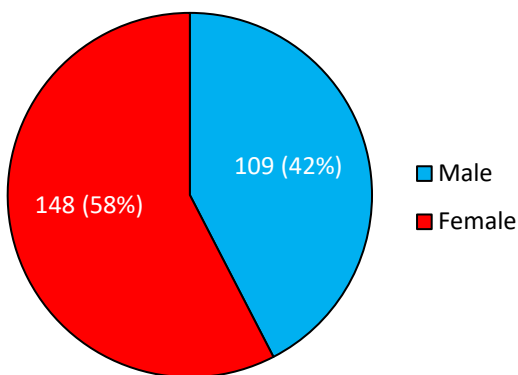
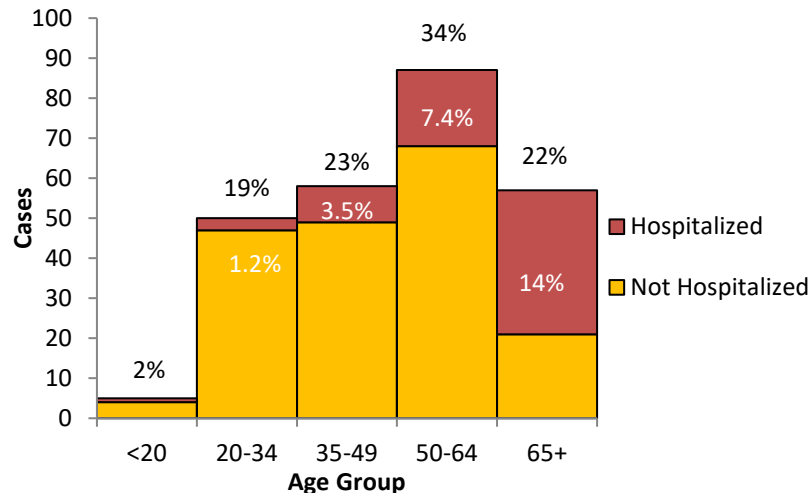
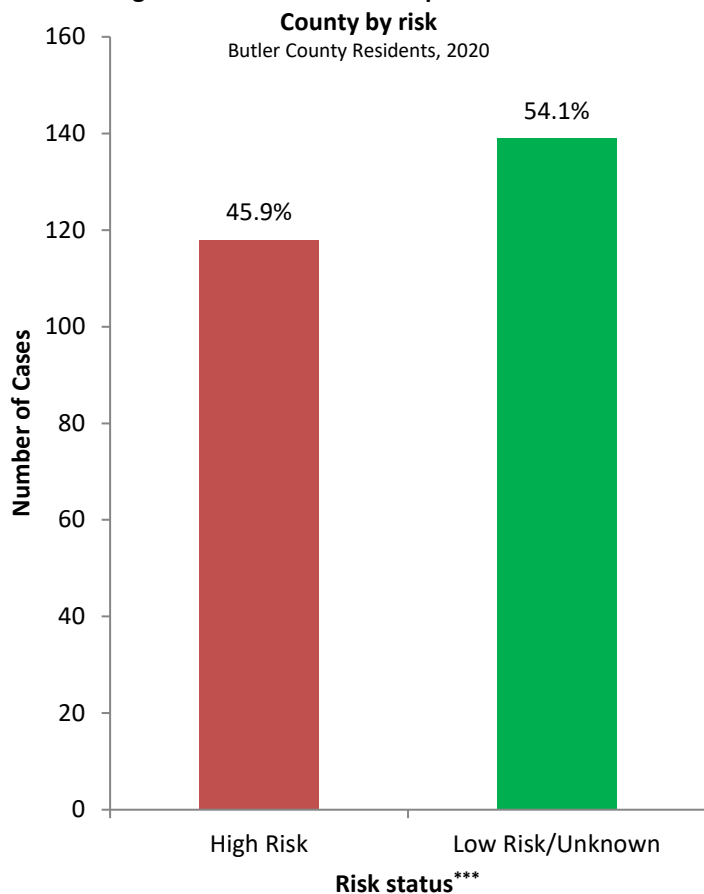


Figure 5. Reported* Confirmed Cases by Age Group
Butler County Residents, 2020



All figures show reported cases of COVID-19 in Butler County as of 0900 EDT 04/29/2020. 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 04/29/2020 at 0900 EDT.

Figure 6. COVID-19 Cases Reported to Butler County by risk



(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

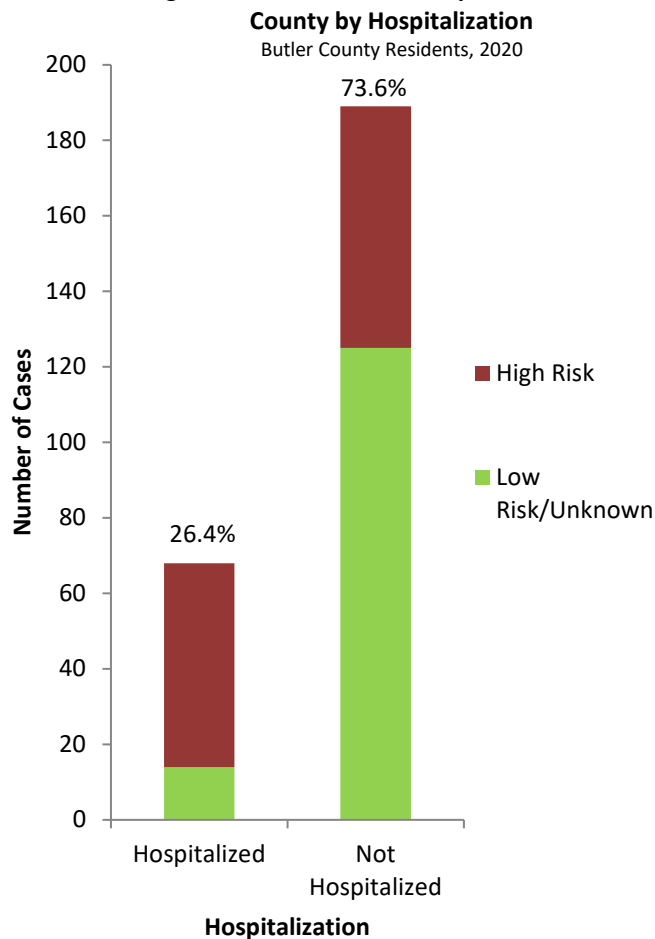
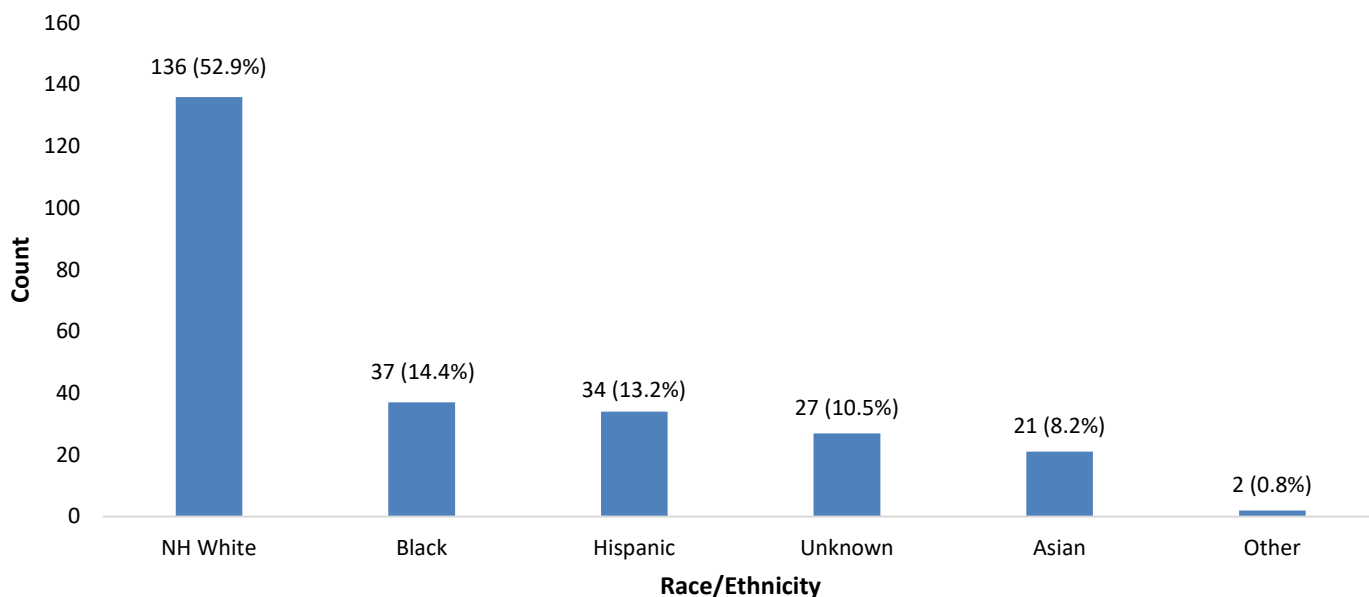


Figure 8. Cases Reported to Butler County by Race/Ethnicity



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Clinical Statistics For Reported Butler County Cases

Butler County Residents, 2020
(as of 0900 EDT 04/29/2020)

Table 4. Laboratory Statistics				
	Overall	Private Laboratories	Hospital Laboratories	Public Laboratories
Confirmatory Tests	253	167	66	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	68	100%	26.5%
Cases with information	58	85.2%	22.6%
Currently Hospitalized	18	26.4%	7.0%
Admitted to Intensive Care Unit (ICU)	15	22.1%	5.8%
Required intubation	13	19%	5.1%
Range of Length of Stay (in days)	<1-35	-	-
Median Length of Stay (in days)	7	-	-

Table 6. Symptoms Reported		
	N	Percentage
Cases with Information	222	100%
Cough	173	77.9%
Shortness of Breath	115	51.8%
Fever	113	50.9%
Myalgia	109	49%
Chills	78	35.1%
Headache	86	38.7%
Runny Nose	65	25.3%
Sore Throat	49	19.1%
Nausea	45	20.3%
Diarrhea	36	16.2%
Abdominal Pain	19	8.6%

Table 7. Recovery** Statistics		
	N	Percentage
Cases Recovered	111	43.1%
Cases with Information	101	39.3%
Range from Illness onset to recovery (in days)	7-33	-
Median time from illness onset to recovery (in days)	14	-

**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.

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State of Ohio*:

Confirmed and Probable Cases: 16,769

Age Range: <1-106

Median Age: 51

Sex F:M Ratio: 43:57

Hospitalizations: 3,340

Deaths: 799

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 with 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. 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 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 compared to the general public.

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.bcoho.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):

<https://www.cdc.gov/coronavirus/2019-ncov/index.html>

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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