Weekly Summary of Vermont COVID-19 Data

Reflecting cases identified between
March 5 – May 7, 2020

Date published: May 11, 2020. This summary will be updated every Friday.

VERMONT
DEPARTMENT OF HEALTH

Common Terms and Data Sources

You will find data presented in a few different ways throughout this document:

- **Count:** the number of people who have tested positive for COVID-19 (overall or in a particular group)
- **Rate:** the number of people who have tested positive for COVID-19 in a particular group, divided by the total number of people in that group. Using rates allows for more direct comparisons between groups.
- **Growth rate:** a measure of the percent change in COVID-19 cases over time; this tells us how quickly or slowly the disease is spreading in Vermont

For geographic information, please see the COVID-19 Data Dashboard or Town Map. For more information on data sources, please see our Data Notes document.

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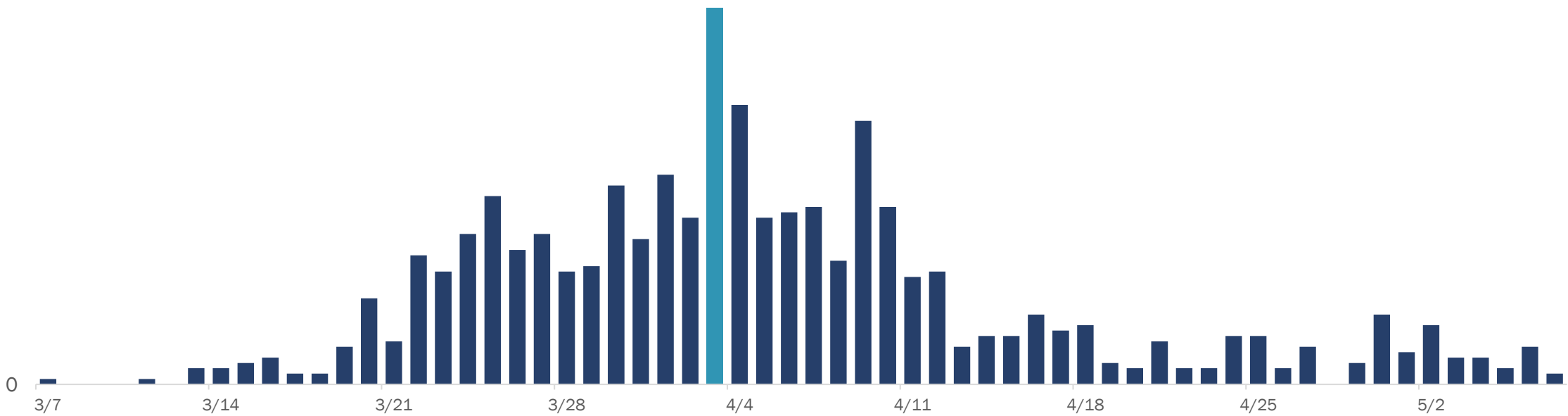
Click on a box below to jump to that section

COVID-19 in Vermont

An overview of our number of cases and laboratory testing to date.

Total Number of Cases in Vermont: 918

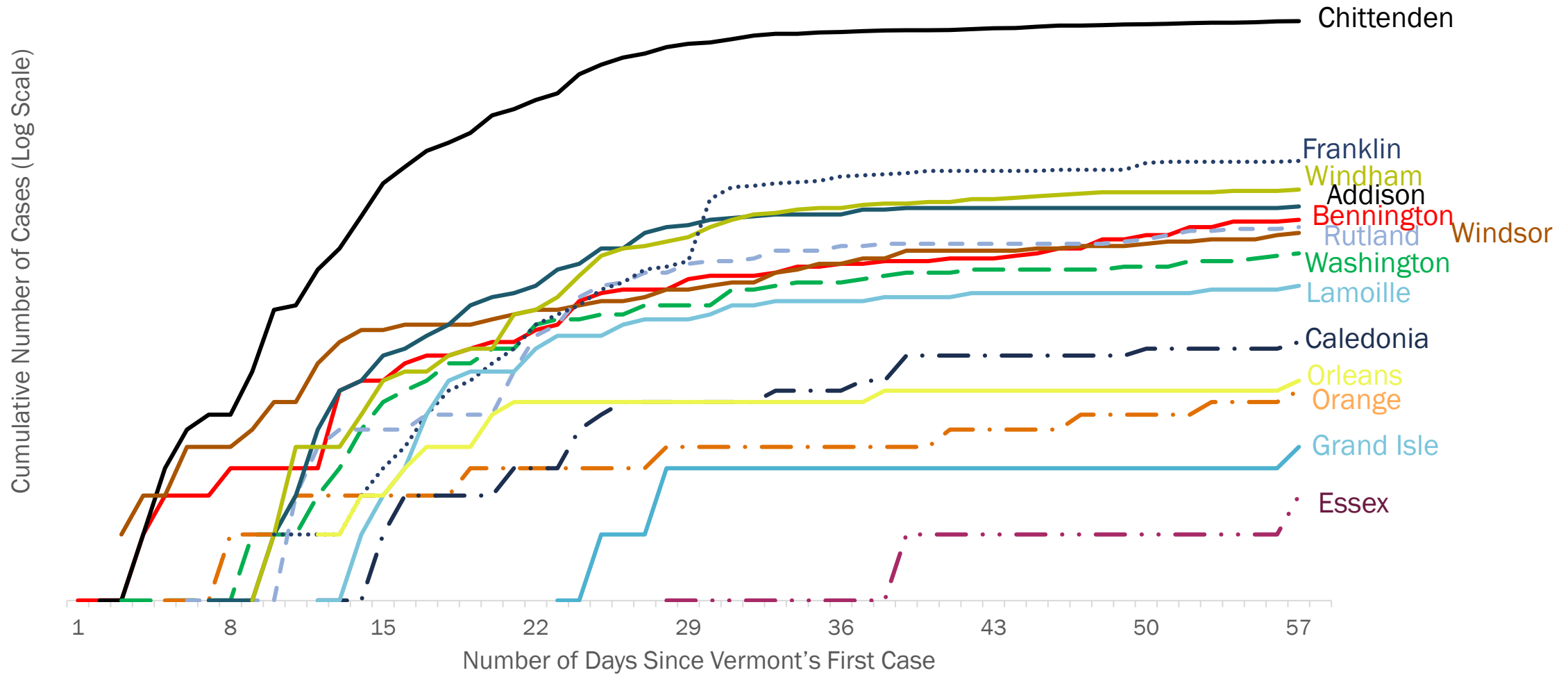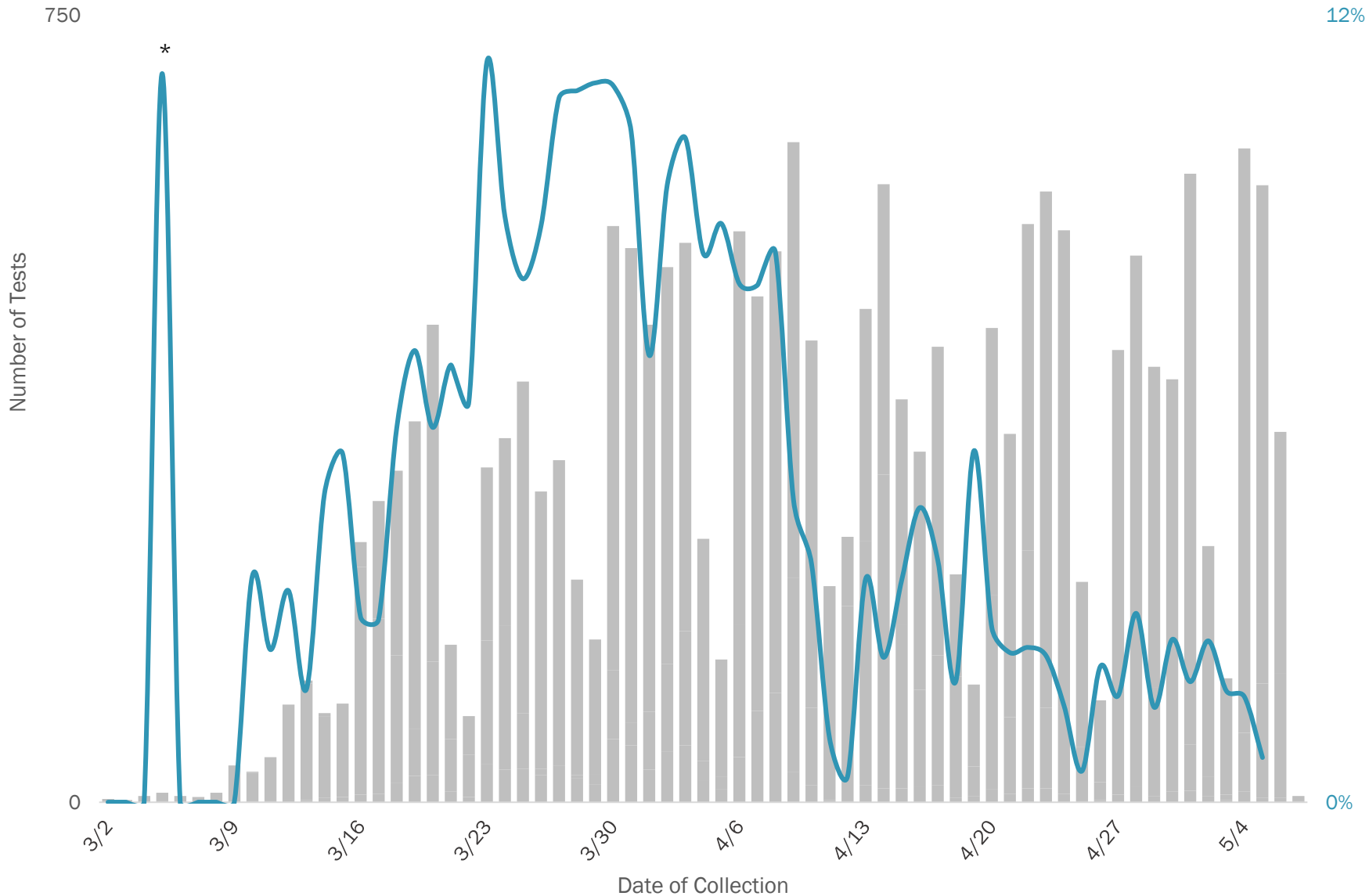The daily number of COVID-19 cases in Vermont peaked on April 3.

COVID-19 in Vermont
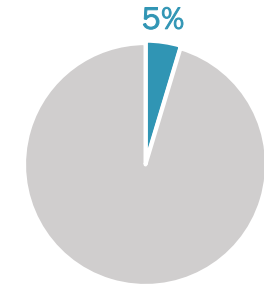
Most counties have reached a plateau in the number of new cases.

Growth over time by county (n=915)

Cumulative Number of Cases (Log Scale)

Chittenden
Franklin
Windham
Addison
Bennington
Windsor
Rutland
Washington
Lamoille
Caledonia
Orleans
Orange
Grand Isle
Essex

Number of Days Since Vermont's First Case

1   8   15   22   29   36   43   50   57

Cumulative cases are presented using a log scale to help compare the large number of cases in Chittenden County (n=431, roughly 50% of all cases) to other counties. Using a log scale also helps visualize percent change. For the number of cases by county, see the Data Dashboard.

COVID-19 in Vermont

Percent of positive COVID-19 tests may indicate how prevalent the disease is in the population.

Number of Tests — 750 / 0

Percent Positive — 12% / 0%

Date of Collection

Dates: 3/2, 3/9, 3/16, 3/23, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4

*

*Not a stable estimate due to small numbers. There were 9 total tests and 1 was positive.

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Percent Positive to Date
5%

Percent Positive This Week
2%
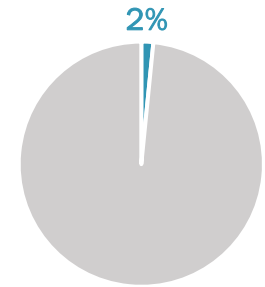
2,934
People Tested this Week

21,162
People Tested to Date

COVID-19 in Vermont

Case Demographics

Who has been impacted by COVID-19 in Vermont?

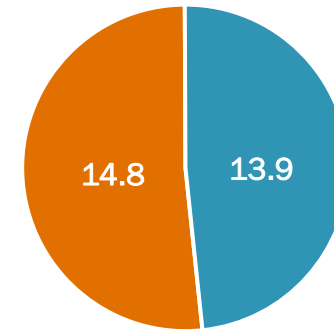# Rates of COVID-19 are disproportionately high among Vermonters 80 years and older.
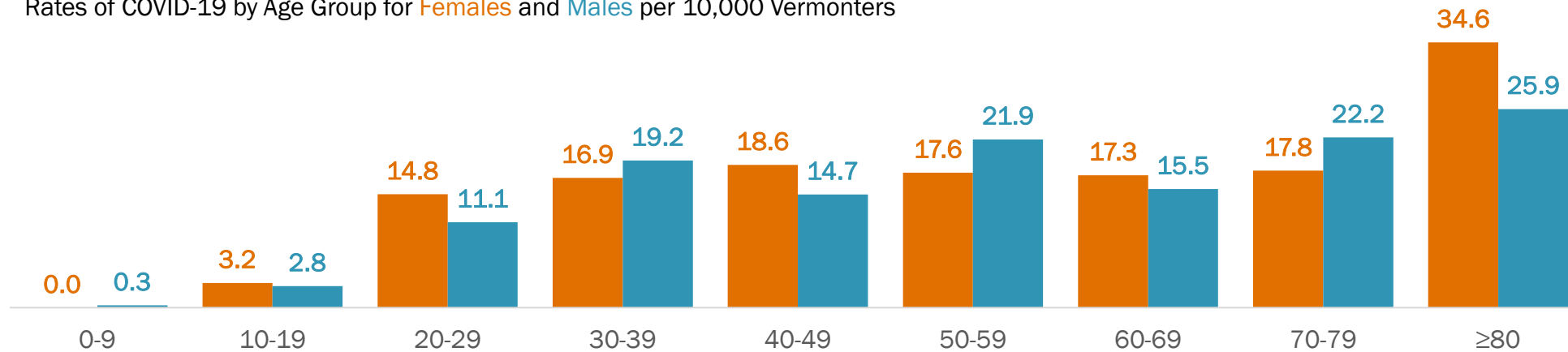
Rate per 10,000 Vermonters

Age	Rate
0-9	0.2
10-19	3.0
20-29	13.5
30-39	18.6
40-49	17.1
50-59	20.0
60-69	16.5
70-79	19.9
≥80	31.9
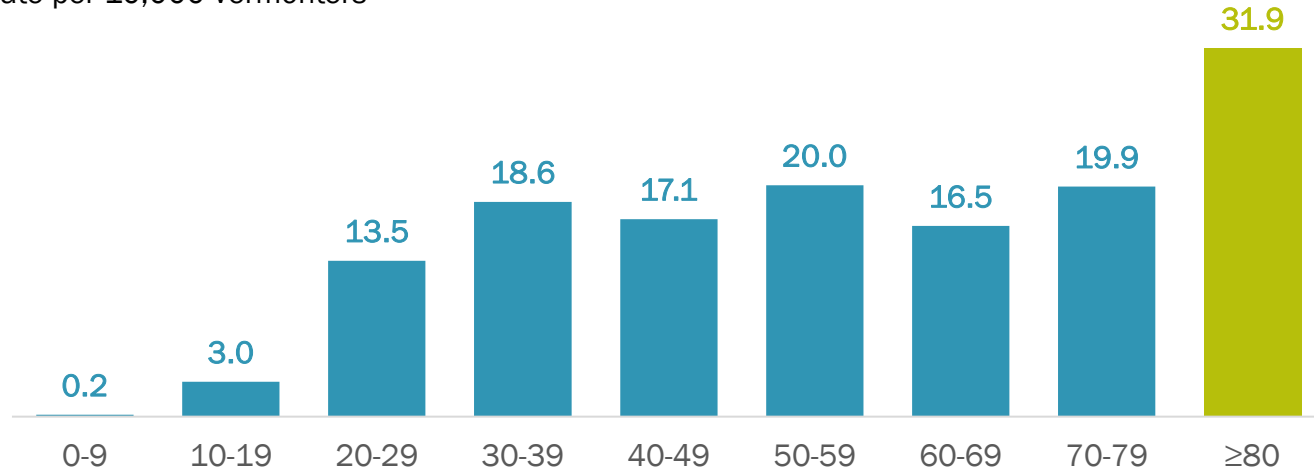
Females and males have similar rates of COVID-19.

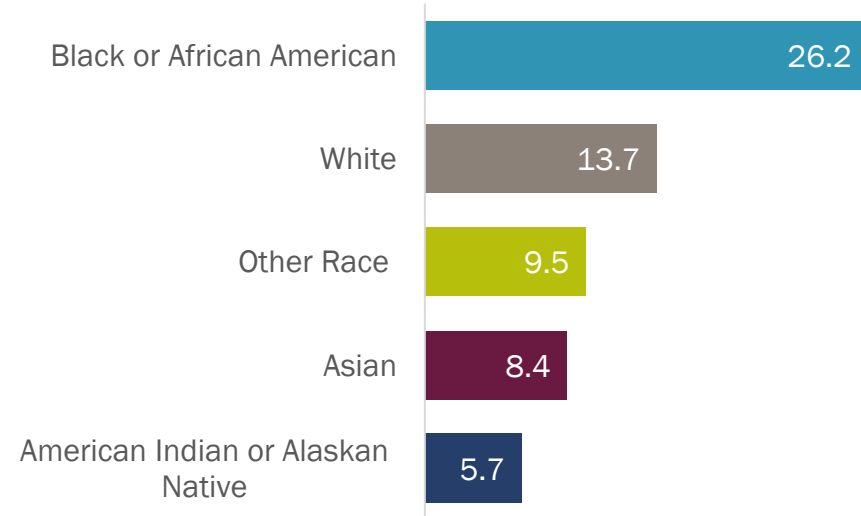Rate per 10,000 Vermonters

- 14.8 (Females)
- 13.9 (Males)

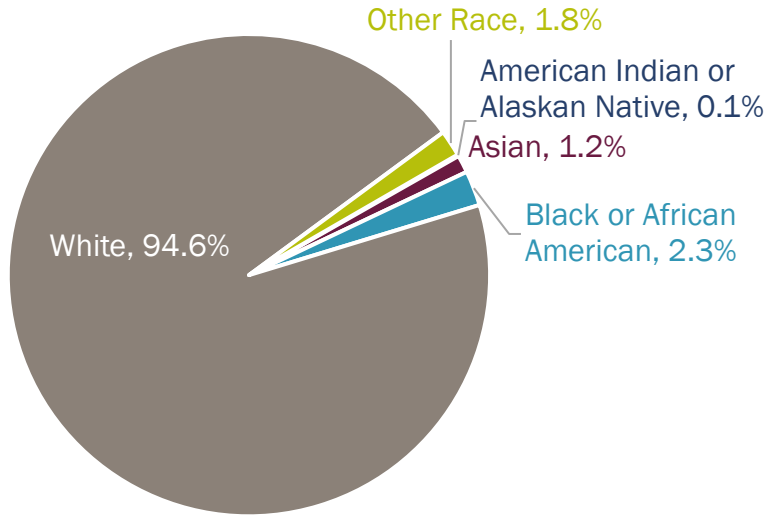# There are differences in age and sex of Vermonters with COVID-19.

Rates of COVID-19 by Age Group for Females and Males per 10,000 Vermonters

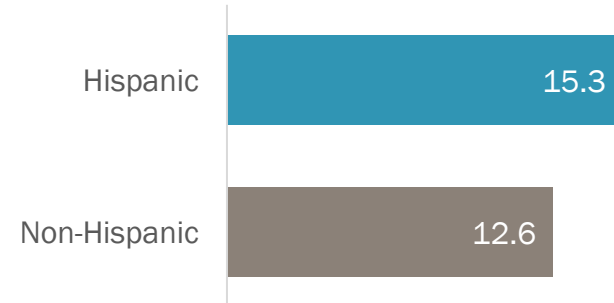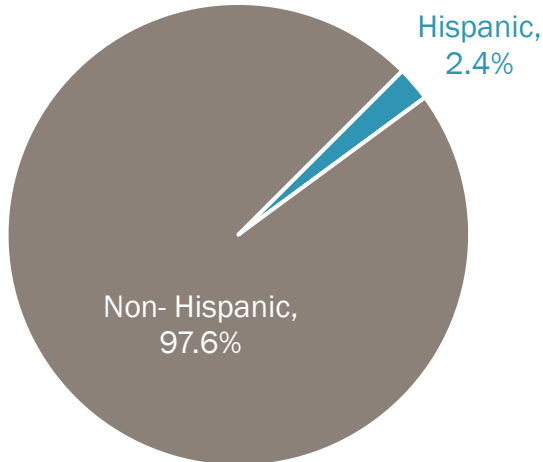| Age	Females	Males
0-9	0.0	0.3
10-19	3.2	2.8
20-29	14.8	11.1
30-39	16.9	19.2
40-49	18.6	14.7
50-59	17.6	21.9
60-69	17.3	15.5
70-79	17.8	22.2
≥80	34.6	25.9

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Case Demographics

White Vermonters represent the majority of COVID-19 cases. African American Vermonters have the highest rate.

Rate per 10,000 Vermonters

Pie chart:
- White, 94.6%
- Other Race, 1.8%
- American Indian or Alaskan Native, 0.1%
- Asian, 1.2%
- Black or African American, 2.3%

Bar chart:
- Black or African American: 26.2
- White: 13.7
- Other Race: 9.5
- Asian: 8.4
- American Indian or Alaskan Native: 5.7

Non-Hispanic Vermonters represent the majority of COVID-19 cases. Hispanic Vermonters have the higher rate.

Rate per 10,000 Vermonters

Pie chart:
- Hispanic, 2.4%
- Non-Hispanic, 97.6%

Bar chart:
- Hispanic: 15.3
- Non-Hispanic: 12.6

Note: Race is unknown in 7% of cases and ethnicity is unknown in 15% of cases.
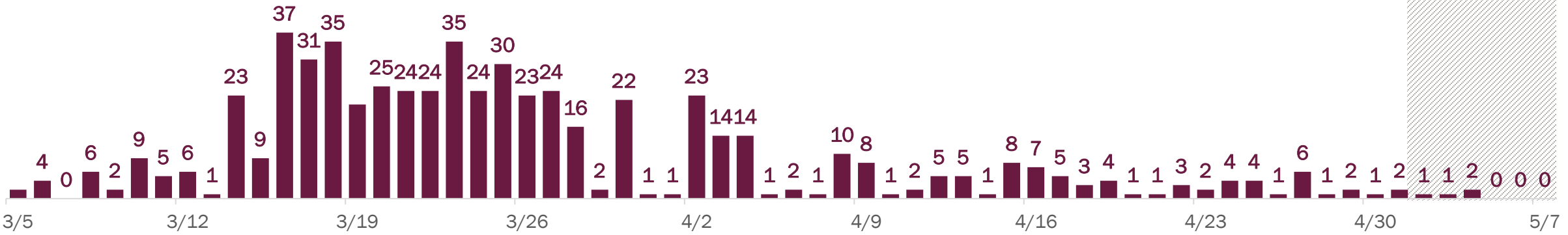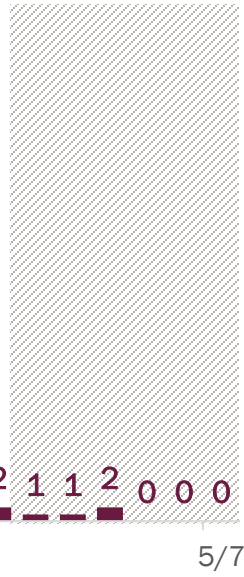
Case Demographics

Clinical Course

What symptoms have Vermonters experienced? How many have been hospitalized? How many have died?

The day symptoms start is important to know when people with COVID-19 become infectious.

Illnesses occurring in this window may not be reported yet; median reporting lag = 6 days

Bar chart showing counts by date of symptom onset:

37, 31, 35, 35, 30, 25, 24, 24, 24, 23, 24, 23, 23, 22, 16, 14, 14, 10, 9, 9, 8, 8, 7, 6, 6, 6, 5, 5, 5, 5, 5, 4, 4, 4, 4, 3, 3, 3, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0

X-axis dates: 3/5, 3/12, 3/19, 3/26, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7

Note: Date of symptom onset is not always known.

15 days
Average illness duration

Sign or Symptom	Percent of Symptomatic Cases
Cough	75%
Fatigue	70%
Fever	55%
Headache	55%
Muscle Pain	53%

Clinical Course

Most Vermonters with COVID-19 are not hospitalized.

Unknown = 121
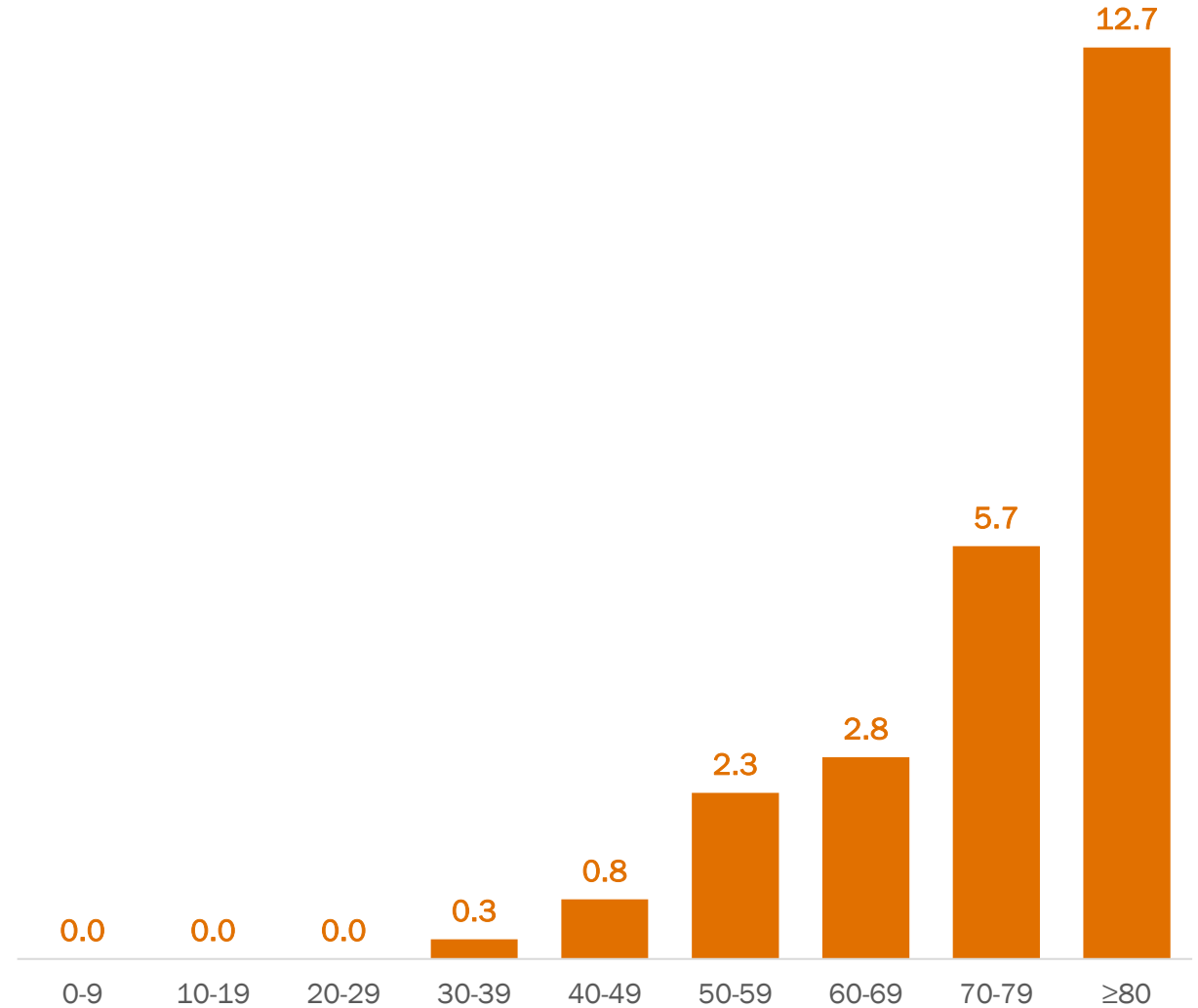
Hospitalized = 119

Not hospitalized = 678

17%
Of those hospitalized who were on a ventilator

37%
Of those hospitalized who were in the ICU

8 days
Average hospital stay
(range: 0-18 days)

Vermonters 80 years and older are more likely to be hospitalized for COVID-19.
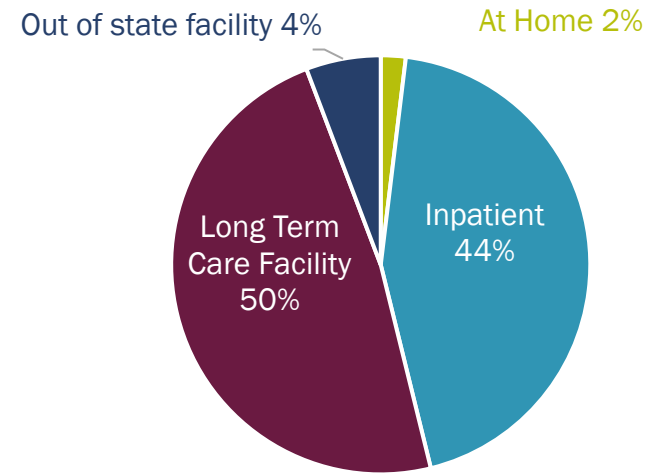
Rate per 10,000 Vermonters

Age group	Rate
0-9	0.0
10-19	0.0
20-29	0.0
30-39	0.3
40-49	0.8
50-59	2.3
60-69	2.8
70-79	5.7
≥80	12.7

Clinical Course

Vermonters 80 years and older have higher rates of COVID-19 death than other age groups.

Rate per 10,000 Vermonters

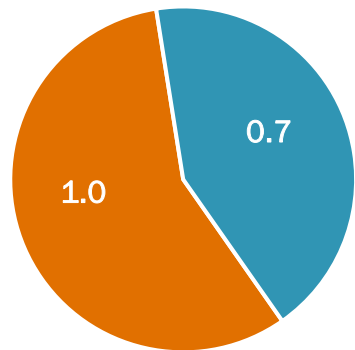| 0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	≥80
0.0	0.0	0.0	0.1	0.1	0.2	0.9	3.4	8.0
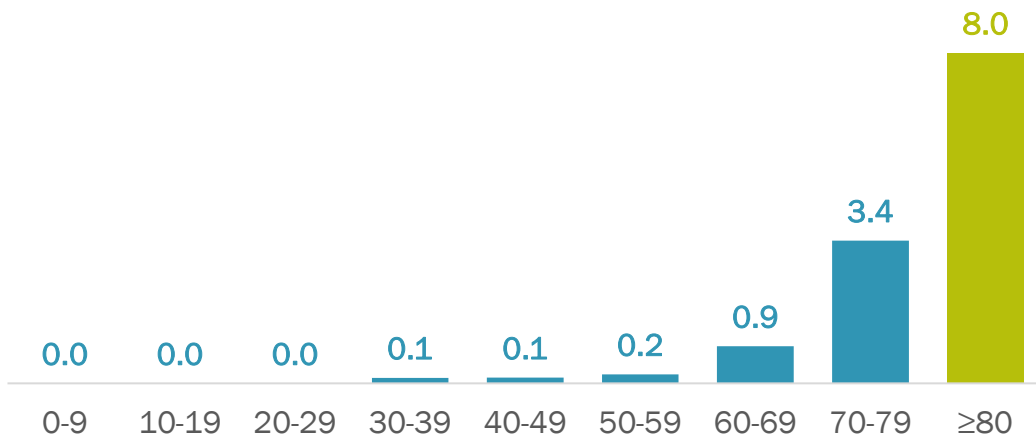
Most COVID-19 deaths occurred in an inpatient hospital setting **or a** long-term care facility.

Out of state facility 4%
At Home 2%

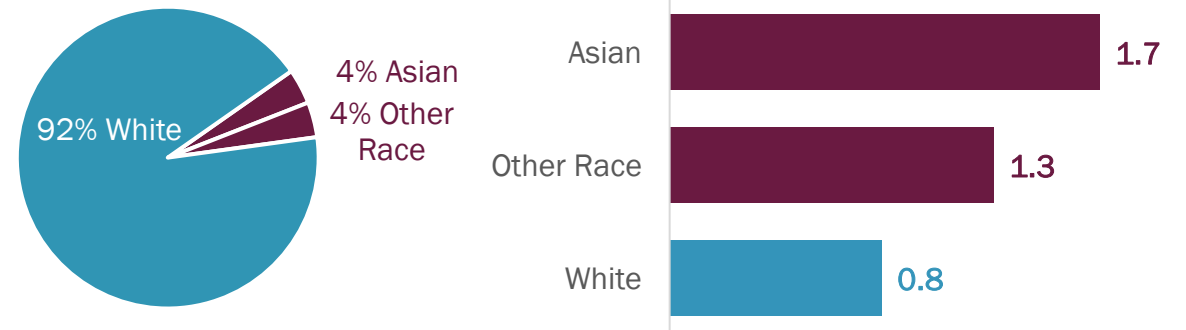Long Term Care Facility 50%
Inpatient 44%

Males have higher rates of COVID-19 death than **females**.

Rate per 10,000 Vermonters

1.0   0.7

White Vermonters represent a majority of COVID-19 deaths. However the rate is higher among **racial minorities**.

Rate per 10,000 Vermonters

92% White
4% Asian
4% Other Race

Asian	1.7
Other Race	1.3
White	0.8

Note: No deaths have identified as Hispanic or Latino.

Clinical Course

Outbreaks

How is COVID-19 impacting group settings?

What is an outbreak?

1. For congregate care facilities (long term care facility or skilled nursing facility):

    - A single resident with a positive COVID-19 laboratory test and one or more additional
      residents with respiratory illness
            OR
    - Two or more residents with at least two of the following symptoms: fever (temp ≥ 100°F),
      cough, difficulty breathing/shortness of breath

2. For other settings (residential communities, businesses):

    - Two or more epidemiologically-linked confirmed COVID-19 cases where there's an
      opportunity to stop transmission

26% of COVID-19 cases are associated with an outbreak

154 cases among residents
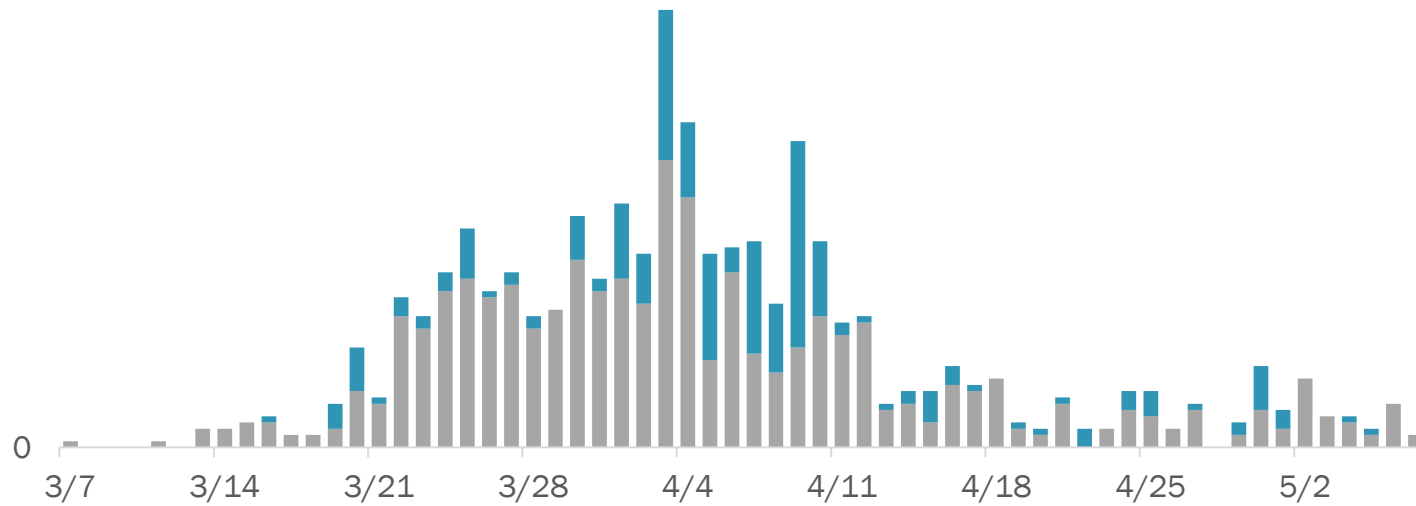
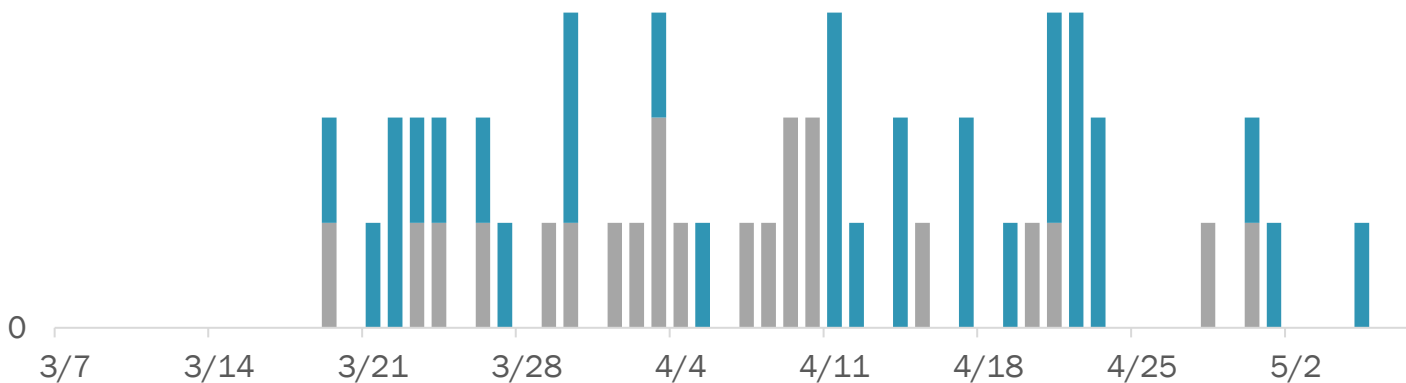**79** cases among staff

Outbreaks
5 Active
2 Resolved
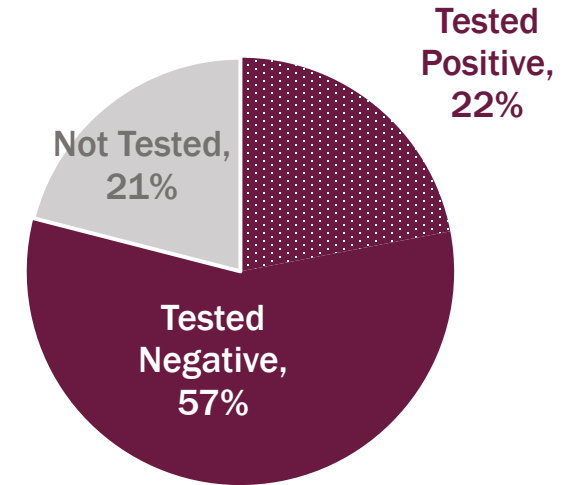
Vermont COVID-19 Cases Associated with an Outbreak Over Time

Vermont COVID-19 Deaths Associated with an Outbreak Over Time

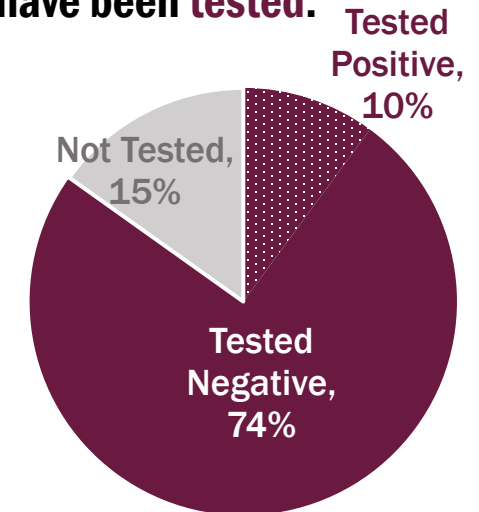**In facilities with an outbreak, 79% of residents have been tested.**

Tested Positive, 22%

Not Tested, 21%

Tested Negative, 57%

In facilities with an outbreak, 85% of staff have been tested.

Tested Positive, 10%

Not Tested, 15%

Tested Negative, 74%

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Outbreaks

While only 26% of all COVID-19 cases are associated with outbreaks, more than half of COVID-19-related deaths occur in outbreak settings.

Health Settings, 18%

Non-Health Settings, 8%

Non-Outbreak, 75%

Non-Outbreak, 43%

Health Settings, 53%

Non-Health Settings, 4%
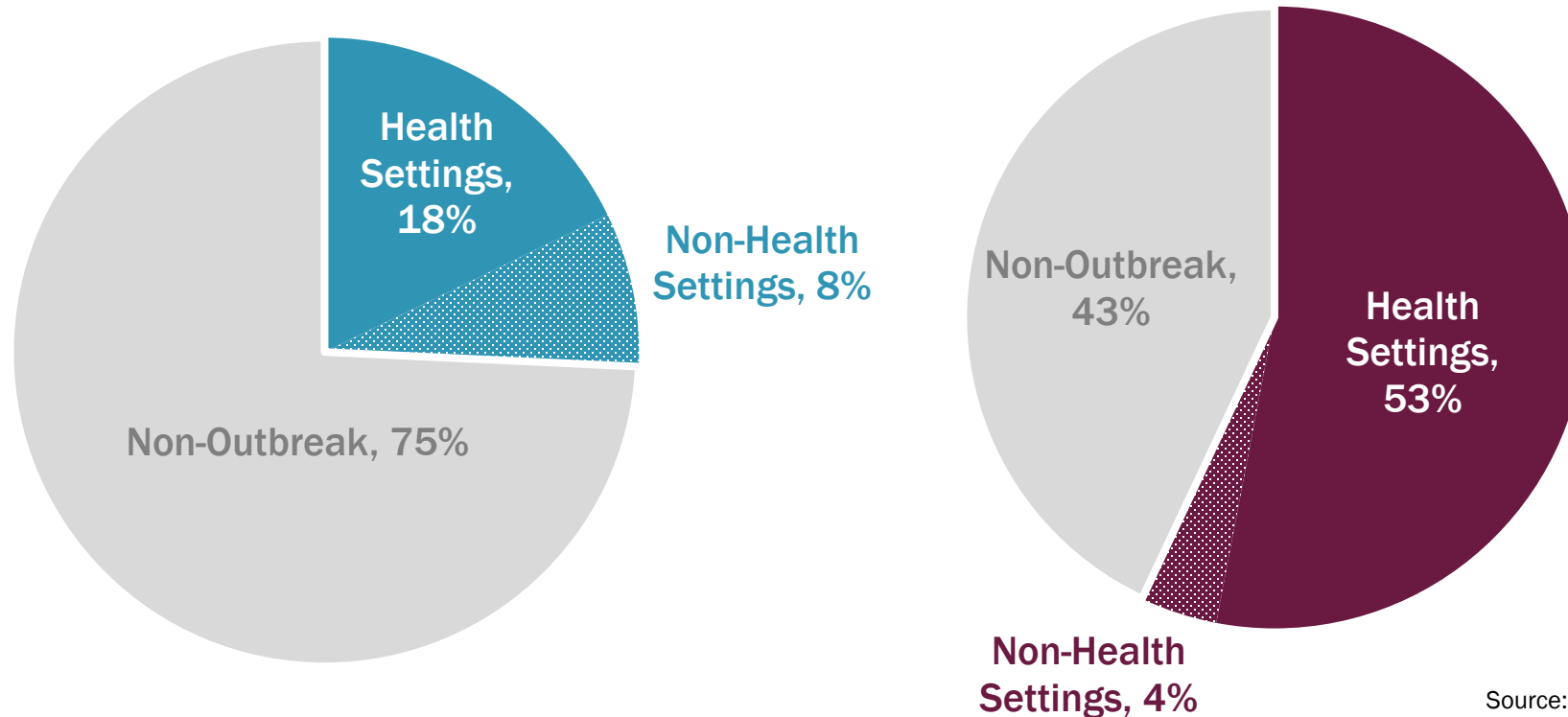
Source: Vermont Department of Health
Reflects confirmed data as of 5/7/2020.

Note: Examples of a health setting include long-term care or assisted living facilities, therapeutic treatment centers, and behavioral health institutions. Examples of a non-health setting include correctional facilities, senior housing communities, businesses, and homeless shelters. Vermont has not experienced an outbreak in all health and non-health settings.

Outbreaks

Syndromic Surveillance

What we can learn from emergency room and urgent care centers?

The percent of emergent care visits for COVID-19-like illness is decreasing.

Syndromic surveillance from 13 of 14 Vermont hospitals and 2 urgent care centers. Monitoring this data acts as an early indicator of potential spikes of COVID-19 in the community.
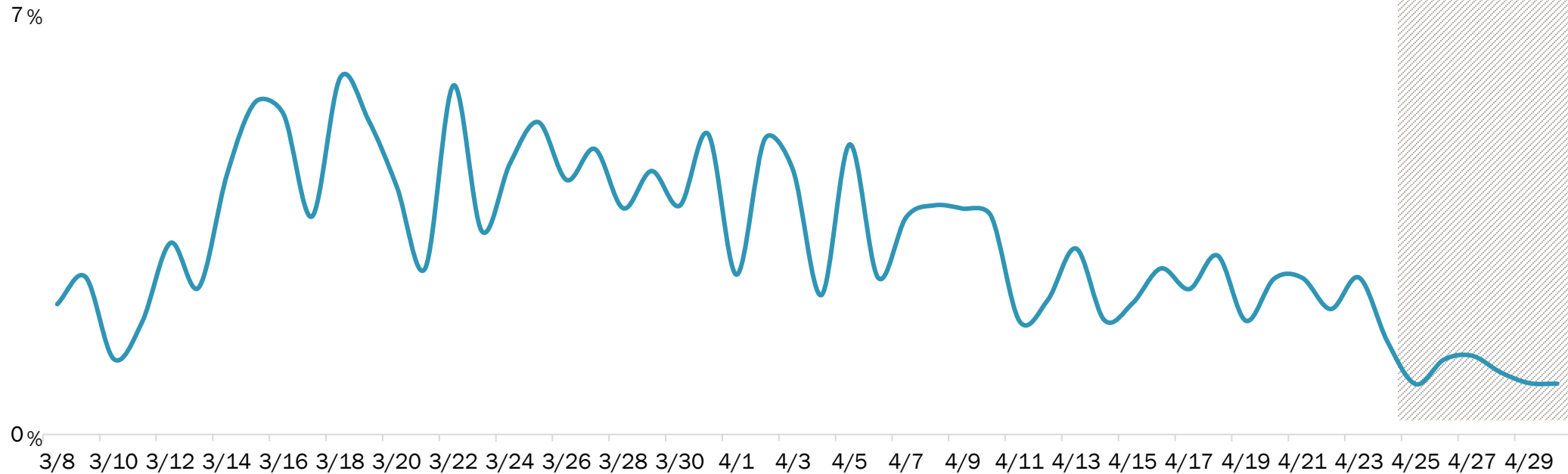
Interpret with caution, there is a chance for over or underestimation given the lag in reporting.

COVID-19-like illness diagnosis is determined using the patient's chief complaint and/or discharge diagnosis.

COVID-19-like illness is the presence of a fever with the addition of shortness of breath, difficulty breathing, or cough.

COVID-19-like illness excludes patients with an influenza discharge diagnosis.

Syndromic Surveillance

Weekly Spotlight: Pre-existing Conditions

The Health Department has information about pre-existing conditions in 77% (706) of 918 total COVID-19 cases. This section focuses on those 706 cases.

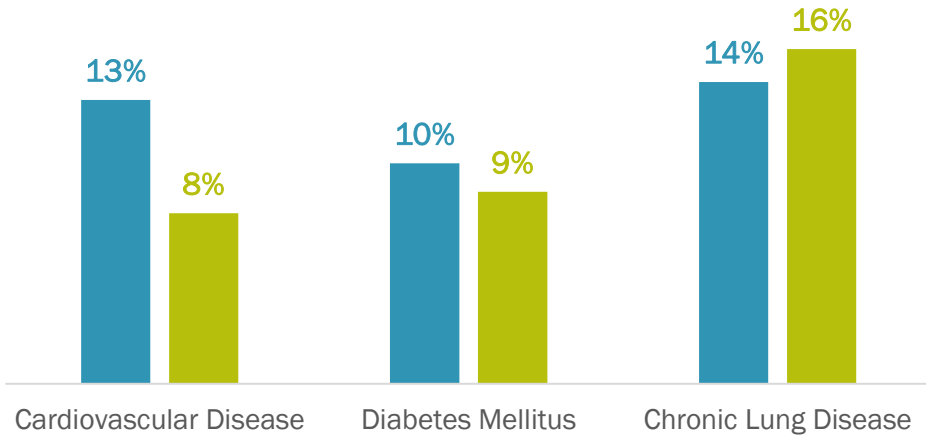# Approximately 62% of people* with COVID-19 have a pre-existing condition.

*of the 706 people that the Health Department has pre-existing condition data.

Condition	Count	Percentage
Heart Disease	94	13%
Chronic Lung Disease (includes asthma and COPD)	73	14%
Chronic Liver Disease	7	1%
Chronic Kidney Disease	17	2%
Current/Former Smoker	185	26%
Diabetes	73	10%
Immunocompromised Condition	38	5%
Neurologic Condition/Intellectual Disability	17	2%
Other Chronic Condition**	224	32%
Pregnant	6	1%

33% of people with a pre-existing condition have two or more conditions.
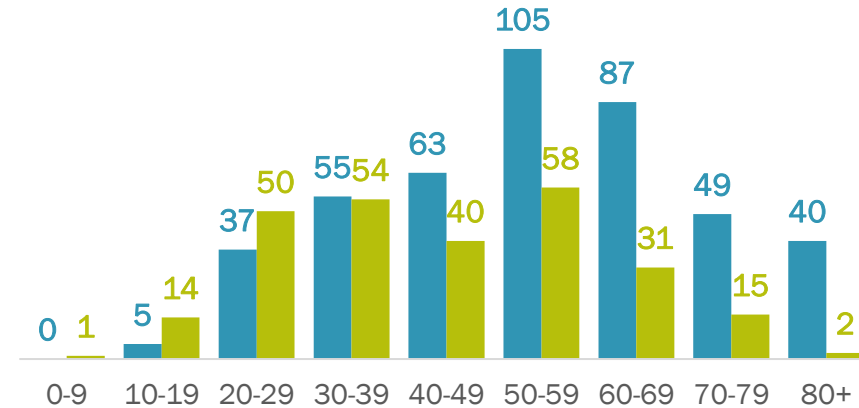
**Not mutually exclusive, includes things like arthritis, thyroid conditions, multiple free text entries.

Weekly Spotlight

Prevalence of certain conditions in COVID-19 patients and Vermont adults.

- Cardiovascular Disease: 13% / 8%
- Diabetes Mellitus: 10% / 9%
- Chronic Lung Disease: 14% / 16%

Data Source: Cardiovascular disease and diabetes, BRFSS 2018 annual report.
Chronic lung disease, 3-4-50 Community profile (2016-2017 BRFSS).

COVID-19 patients with pre-existing conditions tend to be older than those without pre-existing conditions.


Age	with	without
0-9	0	1
10-19	5	14
20-29	37	50
30-39	55	54
40-49	63	40
50-59	105	58
60-69	87	31
70-79	49	15
80+	40	2

Prevalence of pre-existing conditions is approximately equal between female and male COVID-19 patients.

236, 54%
202, 46%

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A higher percentage of COVID-19 patients with pre-existing conditions have been hospitalized than those without pre-existing conditions.

19%
5%

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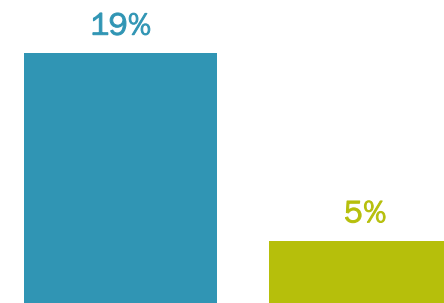
Learn more about COVID-19 in Vermont:

Web: www.healthvermont.gov/COVID-19

Email: AHS.VDHPublicCommunication@vermont.gov