Vermont Medical Society

2020-2021
THIRD THURSDAY WEBINAR SERIES
12:00 pm to 1:00 pm
THIRD THURSDAY WEBINAR SERIES

Date: January 21, 2021
Title: Emerging Information on COVID-19

134 MAIN STREET, MONTPELIER, VERMONT, 05602
TEL.: 802-223-7898
WWW.VTMD.ORG
CME DISCLAIMER

In support of improving patient care, this activity has been planned and implemented by the Robert Larner College of Medicine at the University of Vermont and the Vermont Medical Society. The University of Vermont is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

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VMS Third Thursday Webinar Series: Emerging Information on COVID-19

Speakers: Patsy Kelso, PhD
Planning Committee Members: Jessa Barnard, ESQ, Catherine Schneider, MD, Stephanie Winters & Elizabeth Alessi

Purpose Statement/Goal of This Activity: Join one of Vermont’s public health experts for an exploration of emerging issues related to COVID-19 epidemiology and vaccine.

Learning Objectives:
1. Understand the epidemiology of COVID-19 in Vermont.
2. Identify ways in which Vermont's response is data-driven.
3. Describe Vermont's progress with COVID-19 vaccines administered to date.
4. Understand next steps for vaccine distribution.

Disclosures:
Is there anything to Disclose? Yes ☐ No ☒

Did this activity receive any commercial support? Yes ☐ No ☒

(The CMIE staff do not have any possible conflicts)

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Vermont Medical Society
Third Thursday Webinar

Emerging Information on COVID-19

Patsy Kelso, PhD
State Epidemiologist
Vermont Department of Health

January 21, 2021
Objectives

1. Understand the epidemiology of COVID-19 in Vermont.

2. Identify ways in which Vermont’s response is data-driven.

3. Describe Vermont’s progress with COVID-19 vaccines administered to date.

4. Understand next steps for vaccine distribution.
Testing for COVID-19 in Vermont

Percent of positive COVID-19 tests

The increase in percent positive is a combination of increased number of people testing positive, as well as a change in how UVM is reporting results due to their network issues.

*Not a stable estimate due to small numbers. There were 8 total tests and 1 was positive.

13,702 People Tested this Week
35,973 Tests this Week
282,517 People Tested to Date
779,141 Tests to Date
Contact Tracing for Confirmed and Close Contacts

Contact tracers speak with both cases and their close contacts each week.

- **195** Number of full-time equivalent contact tracing staff trained
- **995** Cases interviewed last week (January 3 – January 9)
- **1,342** Contacts named last week (January 3 – January 9)
- **2.8** Average number of contacts per case* (Since April 1)
Contact Tracing in the Last Two Weeks

In the last two weeks (from December 27 to January 9):

- 84% Of cases were interviewed within 24 hours
- 80% Of cases provided their close contacts
- 68% Of contacts were tested within 14 days of exposure
- 13% Of contacts became a case

COVID-19 in Vermont
COVID-19 Cases in Vermont

Number of New COVID-19 Confirmed and Probable Cases

*The 12/2 case count includes 36 delayed results from UVMCC. The 12/3 case count includes approximately 6 delayed results.
Age and Sex of People with COVID-19

Rates of COVID-19 are highest among Vermonters 20-29 and 80 years and older. Rate per 10,000 Vermonters

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Female Rate</th>
<th>Male Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>86.9</td>
<td>89.2</td>
</tr>
<tr>
<td>10-19</td>
<td>145.9</td>
<td>144.5</td>
</tr>
<tr>
<td>20-29</td>
<td>235.8</td>
<td>200.0</td>
</tr>
<tr>
<td>30-39</td>
<td>175.7</td>
<td>162.4</td>
</tr>
<tr>
<td>40-49</td>
<td>172.2</td>
<td>156.0</td>
</tr>
<tr>
<td>50-59</td>
<td>150.3</td>
<td>152.8</td>
</tr>
<tr>
<td>60-69</td>
<td>124.9</td>
<td>125.7</td>
</tr>
<tr>
<td>70-79</td>
<td>116.9</td>
<td>119.9</td>
</tr>
<tr>
<td>80+</td>
<td>188.3</td>
<td>159.9</td>
</tr>
</tbody>
</table>

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.
Race and Ethnicity of People with COVID-19

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

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate per 10,000 Vermonters</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>78.8%</td>
</tr>
<tr>
<td>Black or African American</td>
<td>4.8%</td>
</tr>
<tr>
<td>Asian</td>
<td>5.3%</td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0.1%</td>
</tr>
<tr>
<td>Other Race</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate per 10,000 Vermonters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic</td>
<td>146.2</td>
</tr>
<tr>
<td>Non-Hispanic</td>
<td>127.8</td>
</tr>
<tr>
<td>Hispanic</td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic</td>
<td></td>
</tr>
</tbody>
</table>
Approximately 40% of people* with COVID-19 have a pre-existing condition.

*of the 7,750 people for whom the Health Department has pre-existing condition data.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Chronic Condition**</td>
<td>860</td>
<td>11%</td>
</tr>
<tr>
<td>Chronic Lung Disease (includes asthma and COPD)</td>
<td>775</td>
<td>10%</td>
</tr>
<tr>
<td>Current/Former Smoker</td>
<td>757</td>
<td>10%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>421</td>
<td>5%</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>372</td>
<td>5%</td>
</tr>
<tr>
<td>Neurologic Condition/Intellectual Disability</td>
<td>170</td>
<td>2%</td>
</tr>
<tr>
<td>Immunocompromised Condition</td>
<td>106</td>
<td>1%</td>
</tr>
<tr>
<td>Chronic Kidney Disease</td>
<td>73</td>
<td>1%</td>
</tr>
<tr>
<td>Pregnant</td>
<td>51</td>
<td>1%</td>
</tr>
<tr>
<td>Chronic Liver Disease</td>
<td>25</td>
<td>0.3%</td>
</tr>
</tbody>
</table>

**Not mutually exclusive, includes things like arthritis, thyroid conditions, multiple free text entries.

29% of people with a pre-existing condition have two or more conditions.

The Health Department has information about pre-existing conditions in 81% (7,750) of 9,573 total COVID-19 cases.
Additional Information About COVID-19 Patients with Pre-Existing Conditions

Prevalence of select conditions in **COVID-19 adult patients** and **Vermont adults**.

- **Cardiovascular Disease**
  - COVID-19: 6%
  - Vermont: 8%

- **Diabetes Mellitus**
  - COVID-19: 6%
  - Vermont: 9%

- **Chronic Lung Disease**
  - COVID-19: 11%
  - Vermont: 16%

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

Age in Years

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>COVID-19 Cases</th>
<th>Vermont Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>49</td>
<td>149</td>
</tr>
<tr>
<td>10-19</td>
<td>343</td>
<td>167</td>
</tr>
<tr>
<td>20-29</td>
<td>790</td>
<td>407</td>
</tr>
<tr>
<td>30-39</td>
<td>385</td>
<td>156</td>
</tr>
<tr>
<td>40-49</td>
<td>354</td>
<td>298</td>
</tr>
<tr>
<td>50-59</td>
<td>638</td>
<td>639</td>
</tr>
<tr>
<td>60-69</td>
<td>511</td>
<td>537</td>
</tr>
<tr>
<td>70-79</td>
<td>420</td>
<td>639</td>
</tr>
<tr>
<td>80+</td>
<td>36</td>
<td>167</td>
</tr>
</tbody>
</table>
Symptoms Among COVID-19 Cases

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

Note: Date of symptom onset is not always known.

**Sign or Symptom** | **Percent of Symptomatic Cases**
--- | ---
Cough | 57%
Fatigue | 56%
Headache | 52%
Runny Nose | 49%
Muscle Pain | 45%
Loss of Smell/Taste | 38%
Felt Feverish | 36%
Sore Throat | 36%

9 days
Average illness duration

70%
Cases with symptoms
Most Vermonters with COVID-19 are not hospitalized.

8% Of those hospitalized were on a ventilator

8% Of those hospitalized were on a ventilator

7 days Average hospital stay (range: 0-43 days)

27% Of those hospitalized were in the ICU

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

- Not hospitalized = 8136
- Hospitalized = 318
- Unknown = 1119
Deaths Among COVID-19 Cases

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

Rate per 10,000 Vermonters

Most COVID-19 deaths occurred in a long-term care facility or an inpatient hospital setting.
Age, Sex and Additional Information on Health Care Workers with COVID-19

Number of New Health Care Worker and All Cases by Day

Health care worker cases peaked on December 2.

80% of health care workers with COVID-19 are female.

36% of health care workers with COVID-19 are associated with an outbreak.

The age distribution of health care workers and non-health care workers with COVID-19 is similar.

The Health Department has information about healthcare worker status in 88% (8,388) of 9,573 total COVID-19 cases.

80% of health care workers with COVID-19 are female.

1 in 10 Vermonters with COVID-19 are health care workers.

* Value suppressed due to small numbers.
Race, Symptoms and Hospitalizations Among Health Care Workers with COVID-19

White Vermonters represent the majority of health care workers with COVID-19.

- White: 82%
- Black or African American: 5%
- American Indian or Alaskan Native: *
- Asian: 3%
- Other Race: 1%

* Value suppressed due to small numbers.

Most health care workers with COVID-19 are not hospitalized.

There are no reported deaths among health care workers.

Most health care workers with COVID-19 have symptoms.

<table>
<thead>
<tr>
<th>Sign or Symptom among Health Care Workers with COVID-19</th>
<th>Percent of Symptomatic Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cough</td>
<td>62%</td>
</tr>
<tr>
<td>Fatigue</td>
<td>61%</td>
</tr>
<tr>
<td>Headache</td>
<td>58%</td>
</tr>
<tr>
<td>Runny Nose</td>
<td>52%</td>
</tr>
<tr>
<td>Muscle Pain</td>
<td>51%</td>
</tr>
<tr>
<td>Loss of Smell or Taste</td>
<td>44%</td>
</tr>
<tr>
<td>Chills</td>
<td>35%</td>
</tr>
<tr>
<td>Fever</td>
<td>26%</td>
</tr>
</tbody>
</table>

Unknown = ...
Not...
Hospitalize...
Cases of Children with COVID-19

New and Cumulative Cases of Vermont Children (Age 19 and Younger) with COVID-19

Children represent 17% of Vermont’s cases.

24% of children with COVID-19 are 18 or 19 years old.

An outbreak was identified around this time.

Our highest daily number of all cases to date.

1648
Demographics of Children with COVID-19

Older children have a higher rate of COVID-19 compared to younger children.
Rate per 10,000 Vermonters 0-19 years old

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Rate per 10,000 Vermonters</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 9 years</td>
<td>88.3</td>
</tr>
<tr>
<td>10 to 19 years</td>
<td>146.0</td>
</tr>
</tbody>
</table>

Female and male children have similar rates of COVID-19.
Rate per 10,000 Vermonters 0 to 19 years old

<table>
<thead>
<tr>
<th>Gender</th>
<th>Rate per 10,000 Vermonters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>119.8</td>
</tr>
<tr>
<td>Male</td>
<td>119.8</td>
</tr>
</tbody>
</table>

Among children with COVID-19, Black, Indigenous and people of color represent 24% of cases.

Among children with COVID-19, Black or African Americans have the highest rate.
Rate per 10,000 Vermonters 0 to 19 years

<table>
<thead>
<tr>
<th>Race</th>
<th>Rate per 10,000 Vermonters</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>93.2</td>
</tr>
<tr>
<td>Asian</td>
<td>458.4</td>
</tr>
<tr>
<td>Black or African</td>
<td>610.4</td>
</tr>
<tr>
<td>Other Race</td>
<td>72.9</td>
</tr>
</tbody>
</table>
Symptoms and How Children Contract COVID-19

<table>
<thead>
<tr>
<th>Sign or Symptom</th>
<th>Percent of Children with Symptom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runny nose</td>
<td>51%</td>
</tr>
<tr>
<td>Headache</td>
<td>46%</td>
</tr>
<tr>
<td>Cough</td>
<td>41%</td>
</tr>
<tr>
<td>Fatigue</td>
<td>38%</td>
</tr>
<tr>
<td>Sore Throat</td>
<td>36%</td>
</tr>
<tr>
<td>Loss of smell or taste</td>
<td>27%</td>
</tr>
<tr>
<td>Muscle pain</td>
<td>25%</td>
</tr>
<tr>
<td>Fever</td>
<td>21%</td>
</tr>
</tbody>
</table>

The percent of COVID-19 cases with no symptoms is higher among children. Less than half (31%) of cases among children had no symptoms reported.

Among Vermont’s children with COVID-19, there are currently no reported cases of multi-system inflammatory syndrome or deaths, and there are fewer than six hospitalizations.

5 days
Average illness duration among children

71% of children with COVID-19 had known contact with somebody else who had COVID-19.

16% of children with COVID-19 were part of an outbreak.
20% of people testing positive for COVID-19 are associated with an outbreak

Outbreaks
46 Active
95 Resolved

Congregate Care & Living
- 566 cases among residents
- 331 cases among facility staff

Workplaces
- 263 cases among employees

Schools and Child Care
- 165 cases among children and staff

Community
- 606 cases

Source: Vermont Department of Health
Reflects confirmed data as of 1/13/2021
Vermont COVID-19 Deaths Associated with an **Outbreak** Over Time

Source: Vermont Department of Health
Reflects confirmed data as of 1/13/2021
While only 20% of all **people testing positive** for COVID-19 are associated with an outbreak, **72% of COVID-19-related deaths** have occurred in outbreak settings.

Values in these charts are rounded to the nearest whole number and therefore may not always add to 100% due to

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.

Source: Vermont Department of Health
Reflects confirmed data as of 1/13/2021
Since March, an average of 16% of people with COVID-19 are associated with an outbreak.
Since mid-November, this percent has been lower than average.
Since March, an average of 53% of people with COVID-19 had contact with another case. Since October, this percent has been higher than average nearly every week.
Since March, an **average of 32%** of people with COVID-19 have an **unknown source of exposure**.
Since December, this percent has been lower than average.
COVID-19 Case Rates by Town

Rate of Vermonters with COVID-19 by Town in the Last Two Weeks
Data from 12/24/2020 to 01/06/2021

Cases per 10,000 people in the last two weeks
- ≤1
- 2 - 5
- 6 - 10
- 11 - 20
- 21 - 40
- 41 - 80
- >80

Rates are used because they allow us to compare recent activity across towns with different populations.
Gating Criteria for all Phases

- **Transmission**: Community transmission is under control (Decrease in the percent of patient visits for influenza-like illness (ILI) or a decrease in ILI activity levels over 14 days, **plus** downward trajectory of documented cases within a 14-day period or downward trajectory of positive tests as a percent of total tests within a 14-day period- flat or increasing volume of tests).

- **Public Health Capacity**: Public health systems can detect, test, track, isolate, and quarantine cases and quickly contain an outbreak.

- **Health System Capacity**: Health system is able to treat all new cases with capacity to absorb increased transmission.
Flattening the Curve

Adapted from CDC / The Economist
Restart Vermont Metrics

- Syndromic Surveillance
- Viral Growth & Reproductive Rates
- Percentage of New Positive Tests
- Hospital & Critical Care Bed Capacity
Percent of ED and Urgent Care Visits for COVID-like Illness

Percent of ED and Urgent Care Visits for COVID-like Illness (CLI)
Syndromic Surveillance for 13 of 14 Vermont Hospitals and 2 Urgent Care Centers

Regression method: Binomial regression
Percent of ED and Urgent Care Visits for Influenza-like Illness

Percent of ED and Urgent Care Visits for Influenza-like Illness (ILI)
Syndromic Surveillance for 13 of 14 Vermont Hospitals and 2 Urgent Care Centers

Regression method: Binomial regression
COVID-19 Average Daily Incidence by Date of Report

Rebound is defined as not being in a downward trajectory following at least 14 days of being in a downward trajectory.
COVID-19 Average Daily Mortality by Date of Report

Rebound is defined as not being in a downward trajectory (without the requirement of being in a downward trajectory during the previous 14 days).
3-day and 7-day Viral Growth Rate
Percent of Tests that are Positive

**Percent Tests Yielding New Positive COVID-19 Cases**

- % Positive Tests
- 5% Positive Warning
- 7-Day Average

The graph shows the percentage of positive tests over time, with a significant increase starting from around 2% in late 2020 to over 5% in early 2021. The 5% positive warning line is consistently crossed, indicating high positivity rates.
Hospital Capacity for Critically Ill COVID-19 Patients
Priority for Vaccination Roll-out: Prevent deaths from COVID in Vermont

Key Factors

• Aligns with the priority to save lives
• Easy to implement
• Easy to communicate and understand
• Prevents confusion and divisiveness
VT CFR 1.9%

Age 95-99: 18.9%
Age 90-94: 28.7%
Age 85-89: 16.3%
Age 80-84: 12.2%
Age 75-79: 13.0%
Age 70-74: 5.2%
Age 65-69: 2.7%
Age 60-64: .5%
Age 55-59: .4%
Age 50-54: .2%
Age 45-49: .4%
Age 40-44: .4%
Vermonters with COVID-19 who are high risk have more serious health outcomes.

Average Length of Illness (Days)
- High Risk: 11
- Not High Risk: 8

Average Length of Hospitalization (Days)
- High Risk: 8
- Not High Risk: 4

Percent hospitalized
- High Risk: 8%
- Not High Risk: <1%

Nearly 1 in 3 high risk Vermonters hospitalized are admitted to the ICU (31%).

All deaths have been among those who are high risk.

4% case fatality rate among those who are high risk.

0% case fatality rate among those who are not high risk (0 deaths).
Population Estimates by Age Groups

Vermont 2019 Population Estimates, by Age Groups

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age 75+</td>
<td>49833</td>
</tr>
<tr>
<td>Age 70-74</td>
<td>33203</td>
</tr>
<tr>
<td>Age 65-69</td>
<td>42003</td>
</tr>
<tr>
<td>Age 60-64</td>
<td>47834</td>
</tr>
<tr>
<td>Age 55-59</td>
<td>47545</td>
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<tr>
<td>Age 50-54</td>
<td>40716</td>
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<tr>
<td>Age 45-49</td>
<td>37335</td>
</tr>
<tr>
<td>Age 40-44</td>
<td>34248</td>
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<td>Age 35-39</td>
<td>37019</td>
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<tr>
<td>Age 30-34</td>
<td>36452</td>
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<tr>
<td>Age 25-29</td>
<td>37956</td>
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<tr>
<td>Age 20-24</td>
<td>45430</td>
</tr>
<tr>
<td>Age 15-19</td>
<td>41216</td>
</tr>
</tbody>
</table>
# Vaccine Allocations

## Federal LTCF Pharmacy Program

<table>
<thead>
<tr>
<th></th>
<th>Moderna &amp; Pfizer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total 6 weeks</td>
</tr>
<tr>
<td>Moderna dose 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9470</td>
<td>5275</td>
<td>14745</td>
</tr>
<tr>
<td>1900</td>
<td>1220</td>
<td>3120</td>
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<td>170</td>
<td>1670</td>
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<td>800</td>
<td>125</td>
<td>925</td>
</tr>
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<td>27500</td>
<td>11225</td>
<td>38725</td>
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</tbody>
</table>

## Hospitals

<table>
<thead>
<tr>
<th></th>
<th>Moderna &amp; Pfizer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>27500</td>
<td>30225</td>
<td>57725</td>
</tr>
</tbody>
</table>

## Moderna & Pfizer

- **Week 1**: 5850
- **Week 2**: 16275
- **Week 3**: 9850
- **Week 4**: 7800
- **Week 5**: 8875
- **Week 6**: 9075
- **Week 7**: 9075
Overall Vaccination Progress (through 1/19/21)

**Total People Vaccinated**

- **36,108** People who have received at least one dose of the vaccine

- **29,533** People started
- **6,575** People completed

Includes all vaccinations reported into IMR. 2,145 doses were administered out of state.

**People Reported Immunized through 1/19/2021**

- **Phase 1A progress**
  - 0.0% to 75.0%
- **Overall progress (age 16+)**
  - People who have received at least one dose of the vaccine
    - 6.3% to 75.0%
    - 33,100 to 524,000
- **People who have received two doses of the vaccine**
  - 1.1% to 75.0%
  - 5,976 to 524,000

Includes people with an address in VT, including people who receive vaccinations in other states. Does not include people from outside VT vaccinated at VT sites.
## Vaccinations by County

<table>
<thead>
<tr>
<th>County</th>
<th>Started or completed</th>
<th>% Started or completed</th>
<th>Completed</th>
<th>% Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addison</td>
<td>1,857</td>
<td>6.4%</td>
<td>322</td>
<td>1.1%</td>
</tr>
<tr>
<td>Bennington</td>
<td>2,130</td>
<td>7.2%</td>
<td>666</td>
<td>2.3%</td>
</tr>
<tr>
<td>Caledonia</td>
<td>1,186</td>
<td>4.8%</td>
<td>184</td>
<td>0.8%</td>
</tr>
<tr>
<td>Chittenden</td>
<td>11,049</td>
<td>7.6%</td>
<td>1,654</td>
<td>1.1%</td>
</tr>
<tr>
<td>Essex</td>
<td>102</td>
<td>2.4%</td>
<td>7</td>
<td>0.2%</td>
</tr>
<tr>
<td>Franklin</td>
<td>1,983</td>
<td>5.3%</td>
<td>509</td>
<td>1.4%</td>
</tr>
<tr>
<td>Grand Isle</td>
<td>344</td>
<td>5.2%</td>
<td>68</td>
<td>1.0%</td>
</tr>
<tr>
<td>Lamoille</td>
<td>1,170</td>
<td>5.5%</td>
<td>262</td>
<td>1.2%</td>
</tr>
<tr>
<td>Orange</td>
<td>1,300</td>
<td>5.6%</td>
<td>220</td>
<td>1.0%</td>
</tr>
<tr>
<td>Orleans</td>
<td>1,027</td>
<td>4.7%</td>
<td>145</td>
<td>0.7%</td>
</tr>
<tr>
<td>Rutland</td>
<td>3,702</td>
<td>7.8%</td>
<td>845</td>
<td>1.8%</td>
</tr>
<tr>
<td>Washington</td>
<td>2,292</td>
<td>4.5%</td>
<td>266</td>
<td>0.5%</td>
</tr>
<tr>
<td>Windham</td>
<td>1,980</td>
<td>5.9%</td>
<td>310</td>
<td>0.9%</td>
</tr>
<tr>
<td>Windsor</td>
<td>2,976</td>
<td>6.0%</td>
<td>518</td>
<td>1.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33,098</strong></td>
<td><strong>6.3%</strong></td>
<td><strong>5,976</strong></td>
<td><strong>1.1%</strong></td>
</tr>
</tbody>
</table>
Long-term Care Vaccination Progress

1st Dose Vaccinations by Facility Type

- SNF: Residents 2.0K, Staff 2.3K
- RES: Residents 1.0K, Staff 0.7K
- ALF: Residents 0.3K, Staff 0.2K

1st Dose Vaccination Rate by Facility Type

- SNF: Residents 85%, Staff 60%
- RES: Residents 50%, Staff 31%
- ALF: Residents 33%, Staff 16%
Vaccinations by Age

By Age

- 16 - 17: 0.4%
- 18 - 34: 5.8%
- 35 - 49: 8.9%
- 50 - 59: 8.2%
- 60 - 74: 5.0%
- 75+: 4.7%
Vaccination Next Phase

- Vermonters 75 years of age and older.
  - Health Department District Office clinics weekly
  - Pharmacies
  - Health care organizations have bid on an open RFP
  - Vermont National Guard capacity available if vaccine allocation increases or to fill gaps
- Online registration
- Call center registration
Lessons Learned
(besides masks help, kids can spread COVID-19)

• Importance of asymptomatic spread
  • Asymptomatic infection rate possibly 40%

• Containment works!
  • But requires testing and contact tracing capacity
  • Strategic targeting
  • Importance of stockpiles

• How to protect the most vulnerable (LTCFs, DOC)
  • Visitation policies, testing policies when cases arise
  • Protocols for new admissions or those who travel frequently

• Rurality is not totally protective

• Health equity

• Public health and economic health can coexist

• Reopening and risk can be balanced