Trend in new cases since July 31

Rt (Real Time R naught) 1.25

* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: 1 Joinpoint.
Trend in %+ tests since July 31

* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: 4 Joinpoints.
Relationship among %+ cases, tests/pop, and incidence/1,000
Where most of the cases are now: MMWR Weeks ending 7-Nov and 14-Nov

80% of all new cases are found in 12 of 39 cities and towns
Where most of the cases have been – from beginning of pandemic through November 7
The shape of the epidemic in Rhode Island hospital admissions through November 7
Monthly trend in length of hospital stay for lab-confirmed COVID-19, among discharged patients, March – October 2020

- Overall, median and average length of hospital stay were 7 days and 10.2 days, respectively.
- Median length of hospital stay has not changed substantially since May.
- Other length of stay characteristics:
  - Among vented patients, median time on a ventilator was 10 days.
  - Among patients relocated to the ICU, median time in the ICU was 12 days.
  - Among patients who died while hospitalized, median time until death after admission was 9 days.

Source: RIDOH Hospital Incident Reporting System data, RIDOH SalesForce case investigation data
Note: Includes admissions at hospitals in Rhode Island for lab-confirmed COVID-19; some of the patients are out-of-state residents. Rhode Island residents who are hospitalized out of state and 41 long-term behavioral health patients are not included in these summaries. Data are current as of 11/11/20 at 8:30 AM and are provisional.
Monthly trend in the percentage of hospital admissions for lab-confirmed COVID-19 with specific underlying conditions, March – October 2020

- Hypertension has remained the most common underlying condition, reported by approximately 50% of patients.
- Diabetes, cardiovascular diseases, obesity, and renal disease have been reported by 20-30% of patients, with renal disease being reported somewhat more often in May and June compared to July-October.
- Nearly 50% of hospitalized patients report 0-1 underlying conditions, about 33% report 2-3 conditions, and less than 20% report 4 or more conditions.

Source: RIDOH Hospital Incident Reporting System data, RIDOH Salesforce case investigation data
Note: Includes admissions at hospitals in Rhode Island for lab-confirmed COVID-19; some of the patients are out-of-state residents. Rhode Island residents who are hospitalized out of state are not included in these summaries. Counts of fewer than five are suppressed (displayed graphically as zeros), in accordance with RIDOH’s Small Numbers Policy. Data are current as of 11/10/20 at 8:30 AM and are provisional.
Crude COVID death rate over time
COVID-19 case fatality rate over time

Covid-19 case fatality rate (CFR: weekly deaths / weekly cases; using 1-week lag), Rhode Island, by week of death

Week Ending Date

Percent of Cases Resulting in Death

- 0.0%
- 2.0%
- 4.0%
- 6.0%
- 8.0%
- 10.0%
- 12.0%
The number of deaths per week over time, by type of residence

Covid-19 Deaths per Week, Rhode Island, by Week of death and residence

Week Ending Date

Number of Deaths per Week

Private Residence
Congregate Care
Highlights

• %+, new cases, and hospital admissions / day will double in 3 weeks.
• New deaths / day will likely double in 5 weeks.
• Hospitals are close to tier 1 surge
• High municipal incidence rates are spreading outward from core cities.
• The attack rate (% of people who have been infected at any time) is almost 20% in Central Falls, and above the state average of 6% in Providence, Pawtucket, North Providence, and Cranston.
• The number of hospital admissions / day now equals what we were seeing at the peak of the first wave, in April, but currently without major outbreaks in long-term care facilities.
• The death rate and case fatality rate remain low because we have few new cases from long-term care facilities.
Outbreak control – general principles

• Surveillance to detect cases and clusters in congregations of people (symptomatic and asymptomatic testing)
• Enforce rapid isolation of case and quarantine of contacts. Consider end of quarantine testing.
• Enhance mitigation measures (cleaning, masking, ventilation, etc.)
• Detect new “blooms” through cyclical testing (asymptomatic testing)
  WEED THE GARDEN
• If persistent “in setting” transmission: temporary suspension of activities, temporary closures, stay-at-home directives of parts or whole of the setting
Confirmed Child & Staff Child Care Cases by MMWR
Week: June 1-October 31, 2020

Case Count

- Child
- Staff
- Incidence

Confirmed cases per 100,000 RI residents

Weeks:
- 23-30 June
- 31 June - 5 July
- 6-12 July
- 13-19 July
- 20-26 July
- 27 July - 3 August
- 4-10 August
- 11-17 August
- 18-24 August
- 25 August - 1 September
- 2-8 September
- 9-15 September
- 16-22 September
- 23-29 September
- 30 September - 6 October
- 7-13 October
- 14-20 October
- 21-27 October
- 28 October - 3 November

Case Counts:
- Week 23: 18,185
- Week 31: 22,963
- Week 44: 22,840
COVID cases by week among students of institutions of higher education
Employment information, September 25

Key Points

• Healthcare and Manufacturing were the two most common categories

• Healthcare workers majority CNAs or housekeepers

• 25% of those employed work in Massachusetts
Rhode Island LTCF/ALF Case Counts by MMWR Week 2020

Rhode Island Nursing Home and Assisted Living Facility
New Positive Cases by MMWR Week 2020

2020 COVID-19 Nursing Home and Assisted Living Facility Case Counts as completed in SalesFroce by specimen result date. Report exported from Salesforce on November 10, 2020 at 11:00 AM
## LTCF death rates per 100 beds

<table>
<thead>
<tr>
<th>State</th>
<th>Nursing Home Deaths</th>
<th>Total Statewide Deaths</th>
<th>Percentage of Deaths Occurring in Nursing Home Residents</th>
<th>Nursing Home Beds (2019 Kaiser Family Foundation Data)</th>
<th>Death Rate per 100 Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts</td>
<td>5,613</td>
<td>10,062</td>
<td>55.8%</td>
<td>41,474</td>
<td>13.5</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>874</td>
<td>1,233</td>
<td>70.9%</td>
<td>8,656</td>
<td>10.1</td>
</tr>
<tr>
<td>Delaware</td>
<td>412</td>
<td>716</td>
<td>57.5%</td>
<td>4,689</td>
<td>8.8</td>
</tr>
<tr>
<td>Connecticut</td>
<td>2,948</td>
<td>4,698</td>
<td>62.8%</td>
<td>22,705</td>
<td>13.0</td>
</tr>
<tr>
<td>Florida</td>
<td>6,893</td>
<td>17,179</td>
<td>40.1%</td>
<td>82,216</td>
<td>8.4</td>
</tr>
</tbody>
</table>

- Data current as of November 10, 2020.
- Delaware’s long-term care facility deaths are reported weekly on Friday. Both long-term care facility deaths and total statewide deaths are from November 6, 2020. Go to [https://news.delaware.gov/category/news/](https://news.delaware.gov/category/news/) and locate the most recent Friday report.
- Connecticut’s long-term care facility deaths are from the November 5, 2020 long-term care facility data report, and the total statewide deaths are from November 9, 2020.
- Massachusetts’s long-term care facility deaths and total statewide deaths are from November 6, 2020. For long-term care facilities reporting 1-4 deaths, 4 was used in calculating total deaths.
- Rhode Island’s long-term care facility deaths and total statewide deaths are from November 9, 2020.
- Florida’s long-term care facility deaths and total statewide deaths are from November 9, 2020.
- This is a useful site to obtain COVID-19 Nursing Home Cases and Deaths in each state: [https://www.aarp.org/caregiving/health/info-2020/coronavirus-nursing-home-cases-deaths.html](https://www.aarp.org/caregiving/health/info-2020/coronavirus-nursing-home-cases-deaths.html)
- To obtain statewide Nursing Home Bed Counts: [https://www.kff.org/state-category/providers-service-use/nursing-facilities/](https://www.kff.org/state-category/providers-service-use/nursing-facilities/)
Rhode Island adult correctional facilities

**RI Department of Corrections**

![Graph showing weekly and cumulative case counts for the RI Department of Corrections, including data from 3/22/20 to 11/11/20.]

**Wyatt Detention Center**

![Graph showing weekly and cumulative case counts for the Wyatt Detention Center, including data from 4/19/20 to 10/29/20.]

**RIDOC totals as of November 9, 2020**
- Staff: 119 of 1367, approximately 8.7%
- Resident: 72 cases, 2336 capacity, 3%

**Wyatt totals as of November 9, 2020**
- Staff: 51 of 272, 18.75%
- Resident: 258 cases, 526 capacity, 49%
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