

(Reminder: My charts show both new confirmed and new probable cases as reported by the DPH and as they appear in MAVEN. However, I have not been able to update the number of probable cases for the past 3 weeks due to unavailability of data. I will update that tally as soon as I am able. Reporting on both confirmed and probable case numbers allows the best longitudinal comparison with past data and also most accurately reflects the incidence of new cases and thus the workloads of our town Public Health Nurses who carry out the contact tracing work.)

The charts to which I refer in this message can be found in the attached **Chart Package**.

Good Afternoon All.

**1. New Cases**

**2. Hospitalizations and Fatalities:** 3-day avg. hospitalization is in the 50's; Fatalities spiked last week and have remained relatively low since then. The relative reduction in COVID-related hospital census of the past two weeks may be coming to an end now that infections from the Christmas/New Year's period are resulting in hospitalizations. Of concern is the large proportion of hospitalized COVID patients in the ICU and it is notable that nearly all patients in the ICU at this time are on ventilators--a sobering indicator of the seriousness of their conditions. Statewide, of 451 patients in ICUs 271 are ventilated (60%).

**3. Schools and Childcare Centers:** Schools have been offered an opportunity by the DPH to participate in pooled testing.

**4. Testing**

**5. Weekly Town Risk, and Statewide Cluster Analyses**

**6. Vaccination:**

-Vaccination in **long term care facilities** began on 12/28.

-**Police/Fire/EMS** begins today (Jan 11).

-**Shelter residents and staff** to begin Jan 18.

-The DPH has adjusted its list of persons prioritized for vaccination at the beginning of Phase 2, **adding persons aged 75+ to the first group in Phase 2.**

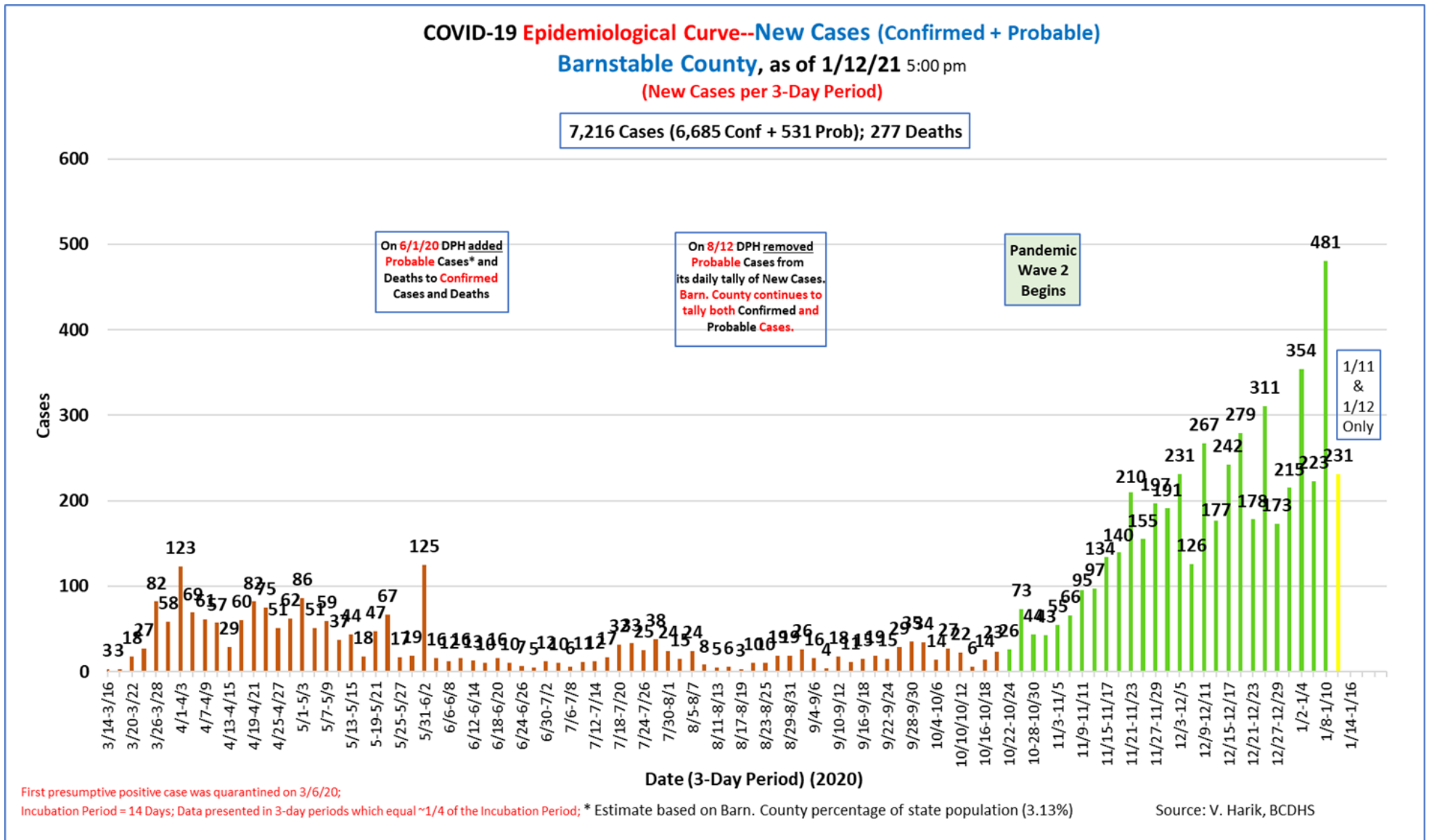
-**Planning for 4-5 sub-regional mass vaccination sites on Cape Cod, to begin operation during Phase 2, is underway.**

**7. COVID Mutation** and Changes in Transmissibility/Virulence/Other: B117 Variant appears to be equally virulent but at least 50% more transmissible; Within two months of the variant being identified in the UK it has become dominant strain circulating there.

**1. New Cases**

Daily new case numbers in Barnstable County remain high and remain in an upward trend. This week our **7-day average cases per 100,000 population per day** has increased to the 50s/100K, with 7-day **average cases per day** at 124 on 1/13/21. Yesterday the DPH reported 116 new cases for Barnstable County.

**Over the weekend Barnstable County's 3-day new case tally set another new record--481 cases were recorded between 1/8 and 1/10.**



This week **Nantucket's** 7-day average cases per 100,000 population remain very high, continuing in the 160's/100K and ~18 cases/day after jumping to 206/100K and 23 cases/day over the weekend (1/8 to 1/10). The DPH has reported **20** new cases since Sunday for Nantucket.

This week **Martha's Vineyard's** 7-day new case rate per 100,000 has also continued an upward trajectory, increasing from 62/100K (avg. 11 cases per day) last week to 74/100K and 13 cases/day. Yesterday the DPH reported **6** new confirmed cases for MV.

During the 14-day period from 12/20/20 to 1/2/21 **Barnstable County** added 1,138 confirmed cases, with a **test positivity rate of 6.29%**--higher than the prior two-week period. During that same two-week period **Nantucket and Martha's Vineyard** jointly added 223 confirmed cases, with a test positivity rate of 5.88%--higher than the prior two-week period. **The Cape and Islands' percent positivity figures remain lower than the statewide positivity rate of 7.71%, for now.**

**Regionally** case levels continue to increase, without exception. Travel restrictions exist among all states in the Northeast Corridor and across the nation. Per the DPH, Hawaii remains the only "low-risk state" state without travel restrictions.

## **2. Hospitalizations and Fatalities**

**Hospitalizations** and **acuity of illness** have increased very significantly since the second week of November and remain elevated. Cape Cod Hospital and Falmouth Hospital have **suspended visitation** of inpatients except under very limited circumstances (end-of-life, etc.) and have **stopped non-essential surgeries and other elective procedures.**

**DPH reporting of hospitalizations now has a 2-day lag and CCHC will be providing me with hospitalization data in the interim (thank you).** As of yesterday CCHC reports that there were **53 COVID patients in hospital, 18** of which were in the ICU.

The relative reduction in COVID-related hospital census of the past two weeks may be coming to an end now that infections from the Christmas/New Year's period are resulting in hospitalizations. Of concern is the large proportion of hospitalized COVID patients in the ICU and it is notable that nearly all patients in the ICU at this time are on ventilators--a sobering indicator of the seriousness of their conditions. Statewide, of 451 patients in ICUs 271 are ventilated (60%).

**Fatalities** from COVID fallen since last week in Barnstable County. Two additional fatalities have been reported since Sunday and the total is now **277** (see today's **Chart Package**).

Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>Hospitalizations, Last Report:</b> |                   | <b>Not Cumulative</b>                               |  | <b>Cumulative</b>                                  |                                     | <b>3-Day Avg. of<br/>Persons in Hosp.<br/>(Ward + ICU)</b> |
|---------------------------------------|-------------------|---|--|--|-------------------------------------|--|
|                                       |                   | <b>Hospital Beds<br/>Occupied<br/>(Last Report)</b> | <b>ICU Beds<br/>Occupied<br/>(Last Report)</b> | <b>Barnstable<br/>County Cases<br/>(Confirmed)</b> | <b>Barnstable<br/>County Deaths</b> |  |
| <b>1/12/2021</b>                      | Cape Cod Hospital | 26  | 14   |  |                                     |  |
|                                       | Falmouth Hospital | 9   | 4  |  |                                     |  |
|                                       |                   | <b>35</b>   | <b>18</b>                                      | <b>6,685</b>                                       | <b>277</b>                          | <b>49.0</b>  |

Recent data on COVID fatalities in Barnstable County suggest that residents of **Long Term Care/Skilled Nursing Facilities/Rest Homes** represent over 50% of all fatalities (139 of 256 fatalities, as of 1/5/21). This is a lower percentage than that seen during phase 1 of the pandemic last spring (over 65%).

Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>Barnstable County COVID Cases and Facility-Reported Deaths in Long Term Care Facilities (thru 1/5/21)</b> |   |            |               |                            |                           |
|--|---|------------|---------------|----------------------------|---------------------------|
| #  | Facility  | County     | Licensed Beds | Cases* (Staff & Residents) | Deaths** (Residents Only) |
| 1  | ADVINIA CARE AT PROVINCETOWN                      | Barnstable | 41            | 1-10                       | 0                         |
| 2  | BOURNE MANOR EXTENDED CARE FACILITY               | Barnstable | 142           | 11-30                      | 1-4                       |
| 3  | CAPE HERITAGE REHABILITATION & HEALTH CARE CENTER | Barnstable | 123           | 1-10                       | 0                         |
| 4  | CAPE REGENCY REHABILITATION & HEALTH CARE CENTER  | Barnstable | 120           | >30                        | 17                        |
| 5  | CAPE WINDS REST HOME OF HYANNIS                   | Barnstable | 37            | 11-30                      | 0                         |
| 6  | CAPE WINDS REST HOME OF SANDWICH                  | Barnstable | 20            | 0                          | 0                         |
| 7  | JML CARE CENTER INC                               | Barnstable | 132           | 11-30                      | 5                         |
| 8  | LIBERTY COMMONS                                   | Barnstable | 132           | 11-30                      | 1-4                       |
| 9  | MAYFLOWER PLACE NURSING & REHABILITATION CENTER   | Barnstable | 72            | 11-30                      | 1-4                       |
| 10   | PAVILION THE                                      | Barnstable | 82            | >30                        | 1-4                       |
| 11   | PLEASANT BAY OF BREWSTER REHAB CENTER             | Barnstable | 135           | >30                        | 19                        |
| 12   | ROSEWOOD MANOR REST HOME                          | Barnstable | 33            | 1-10                       | 0                         |
| 13   | ROYAL CAPE COD NURSING & REHABILITATION CENTER    | Barnstable | 99            | >30                        | 20                        |
| 14   | ROYAL MEGANSETT NURSING & REHABILITATION          | Barnstable | 90            | 11-30                      | 0                         |
| 15   | ROYAL NURSING CENTER LLC                          | Barnstable | 121           | >30                        | 22                        |
| 16   | ROYAL OF COTUIT                                   | Barnstable | 120           | 11-30                      | 1-4                       |
| 17   | SOUTH DENNIS HEALTHCARE                           | Barnstable | 128           | >30                        | 11                        |
| 18   | TERRACES ORLEANS (THE)                            | Barnstable | 50            | 1-10                       | 0                         |
| 19   | WINDSOR NURSING & RETIREMENT HOME                 | Barnstable | 120           | >30                        | 1-4                       |
| 20   | WINGATE AT HARWICH                                | Barnstable | 135           | >30                        | 21                        |
| <b>Totals, Barnstable County</b>   |   |            | <b>1,932</b>  |                            | <b>139</b>                |
|  |   |            |               |                            | <b>(Estimated)</b>        |
| <b>LTC Facility Percentage of Total COVID Fatalities in Barnstable County, 3/1/20 to 1/5/21</b>              |   |            |               |                            | <b>54%</b>                |

Source: MA DPH COVID Weekly Report, 1/7/21.

\*Staff and residents; \*\*Cumulative COVID-19 deaths –includes residents only. \*\*\*Facility is closed. Data will continue to be included for completeness but will not change except for the result of data cleaning.

PLEASE NOTE: This list includes nursing homes, rest homes, and skilled nursing facilities; reported COVID-19 cases to date represent both staff and residents. The number of cases for a facility relies on the amount of testing conducted; facilities not included on this list may have COVID-19 cases that have not yet been identified. As of May 25th 344 nursing homes reported that at least 90% of staff and 90% of residents had been tested.

ALSO: Data on deaths is self-reported by each facility. In accordance with long-term care regulations, nursing homes and rest homes must report deaths due to any cause in any resident, either confirmed COVID-19 positive, or suspected to have COVID-19, even if the individual was never tested. When the number of deaths is between 1-4 residents, the number is suppressed and reported as 1- 4, to protect possible resident identification. The Department of Public Health performs routine data quality reviews of the data it receives. This includes removing duplicate results and updating counts if needed. Also, occasional negative tests from nursing home residents result after being reported first as presumptive and are removed. As a result of this, the total of self-reported deaths may decrease to ensure accuracy.

Data Sources: MAVEN for confirmed cases; Individual facilities reported resident deaths to DPH Bureau of Health Care Safety and Quality's Health Care Facility Reporting System.

### 3. Schools and Childcare Centers

**School districts** are staying vigilant and reacting well to new cases. Several school districts (Cape and Islands) are dealing with increased confirmed and probable cases and the necessary knock-on effects of information transfer and follow-up. Several school districts on the Cape and Islands remain in 100% remote learning status following the Christmas and New Year's holiday period.

**We learn from DESE and the DPH (memo of 1/8/21) that they are seeking to introduce COVID-19 screening testing using a pooled strategy in the school setting.** Schools may elect to participate by responding to a survey that DESE/DPH have posted. Further information will be forthcoming.

For the 2020-2021 school year the DPH has mandated that all school children be vaccinated for seasonal influenza. This week the DPH extended the deadline for doing so from 12/31/20 to 2/28/21.

During Phase 2 of the national and state vaccination rollout **childcare center** staff are to be vaccinated alongside school staff.

### 4. Testing

Additional testing locations in Barnstable County for both symptomatic and asymptomatic persons remain open in **Falmouth** at the Fairgrounds and in **Hyannis** at the Melody Tent. Daily testing capacity is 50 at the Falmouth site and 350 at the Hyannis site. Neither site is open daily and persons must call ahead for an appointment. Details: <https://www.capecodhealth.org/medical-services/infectious-disease/coronavirus/covid-19-testing-process/>.

In late December additional testing by **Outer Cape Community Health Services** began and continues at its 3 locations in **Wellfleet, Harwich Port, and Provincetown** (<https://outercape.org/2020/12/23/outer-cape-health-services-to-offer-covid-19-asymptomatic-testing-beginning-december-23/>). These sites may not open be daily and persons must call ahead for an appointment.

Eligibility criteria for the testing include residency in Barnstable County. Testing will be done by appointment only. Tests cost \$75, \$110 for travel-related tests, and no one will be turned away if unable to pay for a test.

DPH-mandated **routine testing** in skilled nursing facilities/long term care settings (SNF/LTC) continues. This provides critical surveillance and allows these facilities to stay ahead of asymptomatic spread amongst staff and residents. Routine testing in SNF/LTC settings has increased to weekly for staff.

In addition, the State's **BinaxNOW rapid testing program** (already available to **schools**) has been extended to visitors of **nursing homes** and rest home residents (LTC settings) to allow visitation of residents while limiting the risk of infection from visitors. DPH has published guidance on this. The program has also been extended to **childcare centers and homeless shelters** and management of these facilities may apply to the EEC and DPH for testing kits.

**5. Weekly Town Risk and Statewide Cluster Analyses**

Among the charts below is DPH's weekly analysis of new and active **case clusters**. Note that these data were published last Thursday (1/7/201) and cover the period 12/6/20 to 1/2/21. The table presents the number of cases by type of location, statewide. **I have sorted the DPH data to show the listing of cluster settings by greatest number of new confirmed cases.** The top 10 are listed here; the full table can be found in today's **Chart Package**.

| <b>Active COVID Clusters by Exposure Setting Type for the Period 12/6/20 to 1/2/21 (as of 1/7/21)</b>   |                           |                                      |                 |                |  |                 |                |              |                 |                |
|---|---------------------------|--------------------------------------|-----------------|----------------|--|-----------------|----------------|--------------|-----------------|----------------|
| Source: <a href="https://www.mass.gov/info-details/covid-19-response-reporting">https://www.mass.gov/info-details/covid-19-response-reporting</a> . Tabulation: V. Harik, Barnstable County DHS |                           |                                      |                 |                |  |                 |                |              |                 |                |
| <b>Sorted by Number of Cases in New Cluster Settings</b>  |                           |                                      |                 |                |  |                 |                |              |                 |                |
|   | Exposure Setting          | <b>New Clusters</b>                  |                 |                | <b>Ongoing Clusters</b>                      |                 |                | <b>Total</b> |                 |                |
|   |                           | <b>(Identified 12/6/20 – 1/2/21)</b> |                 |                | <b>But Not Meeting Criteria for Closing)</b> |                 |                |              |                 |                |
|   |                           | Clusters                             | Confirmed Cases | Close Contacts | Clusters                                     | Confirmed Cases | Close Contacts | Clusters     | Confirmed Cases | Close Contacts |
| 1   | Household                 | 19,931                               | 51,044          | ---            | 13,783                                       | 5,886           | ---            | 33,714       | 56,930          | ---            |
| 2   | Long Term Care Facilities | 122                                  | 1,186           | ---            | 206  | 2,401           | ---            | 328          | 3,587           | ---            |
| 3   | Child Care                | 155                                  | 478             | 671            | 157  | 100             | 355            | 312          | 578             | 1,026          |
| 4   | Senior Living             | 52                                   | 396             | 33             | 79   | 440             | 195            | 131          | 836             | 228            |
| 5   | Social Gatherings         | 49                                   | 307             | 42             | 38   | 30              | 26             | 87           | 337             | 68             |
| 6   | Restaurants & Food Courts | 25                                   | 223             | 40             | 50   | 78              | 34             | 75           | 301             | 74             |
| 7   | Hospitals                 | 18                                   | 173             | 15             | 30   | 223             | 74             | 48           | 396             | 89             |
| 8   | 24/7 Congregate Settings  | 44                                   | 162             | 51             | 62   | 128             | 38             | 106          | 290             | 89             |
| 9   | Other Healthcare          | 21                                   | 127             | 57             | 27   | 50              | 14             | 48           | 177             | 71             |
| 10  | K-12 Schools              | 30                                   | 121             | 243            | 59   | 64              | 56             | 89           | 185             | 299            |

In addition, the weekly **town risk table** for the Cape and Islands is attached in today's **Chart Package**. Again, these data were published last Thursday (1/7/20) and they cover the period 12/13 to 12/26. **Nearly all towns on Cape Cod are now coded Red**, indicating very high risk of community spread across the Cape.



## 6. Vaccination

The **State COVID Vaccination Plan** for Phase 1 is proceeding. In Phase 1 of the State Plan healthcare workers, older adults living in skilled nursing facilities/congregate care settings, police/fire/EMS, shelters/corrections, and other healthcare workers will be prioritized for vaccination as doses become available. **Childcare staff** will be eligible for vaccination alongside school staff in Phase 2. First shipments of the **Pfizer** vaccine have been to hospitals across the state for vaccination of their workers; **Moderna** vaccine has also been shipped to clinical care sites. The State has contracted with **CVS and Walgreens** to arrange vaccination of **older adults in SNFs/congregate care**.

Vaccinations in **LTCs** began on 12/28 on Cape Cod.

Vaccinations of **Police/Fire/EMS** will begin this week (starting 1/11).

Vaccination of staff and **residents** in **shelters**, other state-funded **congregate living settings**, and **correctional facilities** will begin next week (1/18)

The Barnstable County Dept of Health and Environment is organizing vaccination clinics for first responders in the Middle, Lower, and Outer Cape. The Sandwich Health Department, in partnership with other town Health Departments, will be vaccinating first responders in the Upper Cape area. **Planning for 4-5 sub-regional mass vaccination sites on Cape Cod, to begin operation during Phase 2, is underway.**

The DPH has adjusted its list of persons prioritized for vaccination at the beginning of Phase 2, adding persons aged 75 and over to the first group in Phase 2.

## 7. COVID Mutation and Changes in Transmissibility/Virulence/Other

**The emergence of a variant of the COVID-19 virus in the UK**, classified as B.1.1.7, was identified in October and publicized in early December. Reports hold that B117 is 50% - 70% more contagious than our predominant variant now circulating (D614G). **Within two months of the variant being identified in the UK it has become dominant strain circulating there. B117 is spreading globally and has been detected in the US.**

Researchers are working to determine if B117 differs from D614G in terms of: **1.** How sick people become, **2.** If natural immunity is different following infection with D614G, and **3.** If immunity from vaccination differs since the vaccine was developed during the period that D614G has been predominant.

According to an article by Andrew Joseph from StatNews, "Coronaviruses evolve more slowly than viruses like flu, but they do pick up mutations as they spread. **SARS-CoV-2 has been adding one or two changes a month to its RNA genome since it emerged late last year in China**, and different versions of the virus have been continuously circulating throughout the course of the pandemic. **But this variant (B.1.1.7 or VUI-202012/01) showed up with at least 17 mutations**, according to one genetic analysis." (Source: [https://www.statnews.com/2020/12/21/looming-questions-new-variant-coronavirus/?utm\\_source=STAT+Newsletters&utm\\_campaign=1a74bda2ca-MR\\_COPY\\_01&utm\\_medium=email&utm\\_term=0\\_8cab1d7961-1a74bda2ca-150158417](https://www.statnews.com/2020/12/21/looming-questions-new-variant-coronavirus/?utm_source=STAT+Newsletters&utm_campaign=1a74bda2ca-MR_COPY_01&utm_medium=email&utm_term=0_8cab1d7961-1a74bda2ca-150158417) ).



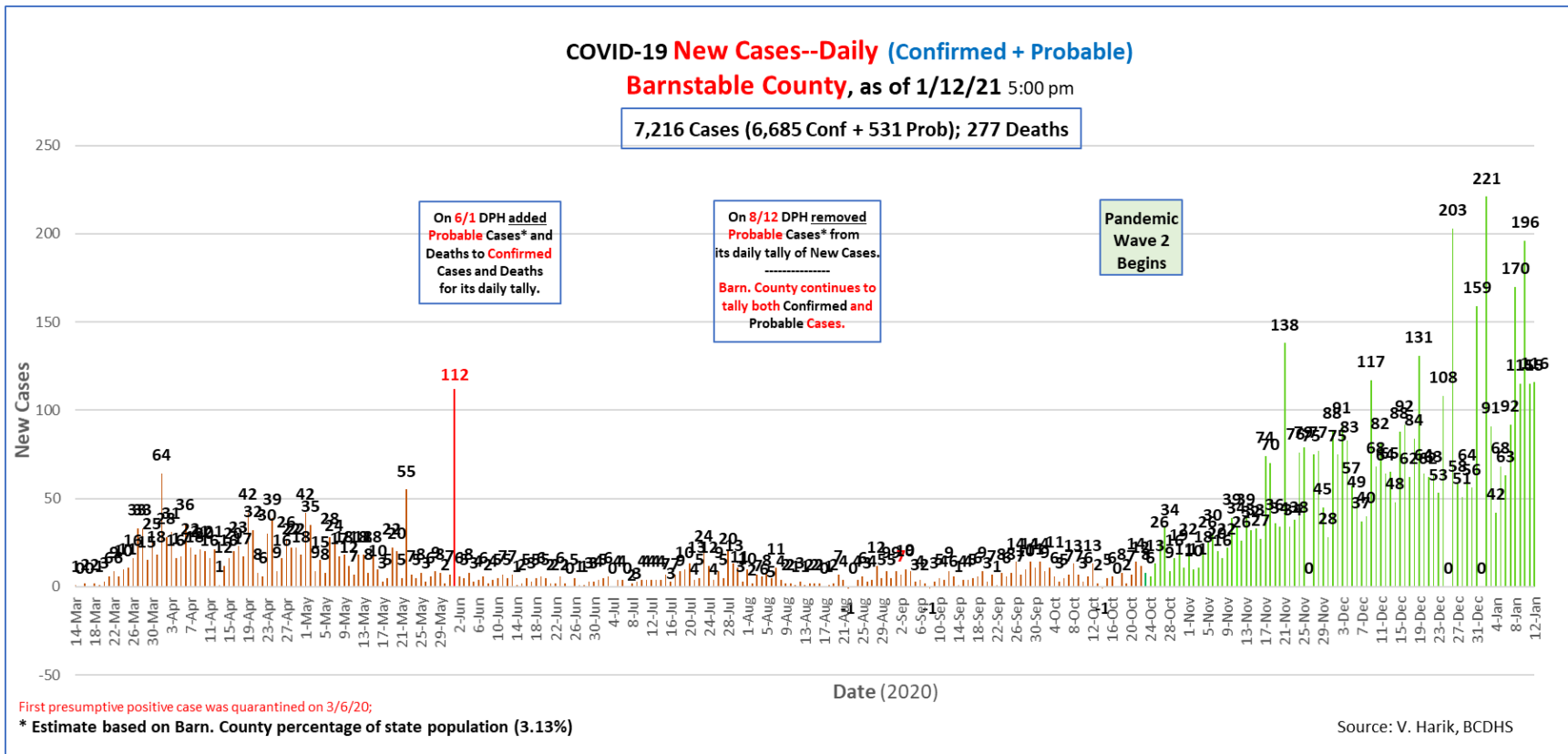
See the [CHART PACKAGE](#) for additional information.

**Vaira Harik, M.S.**

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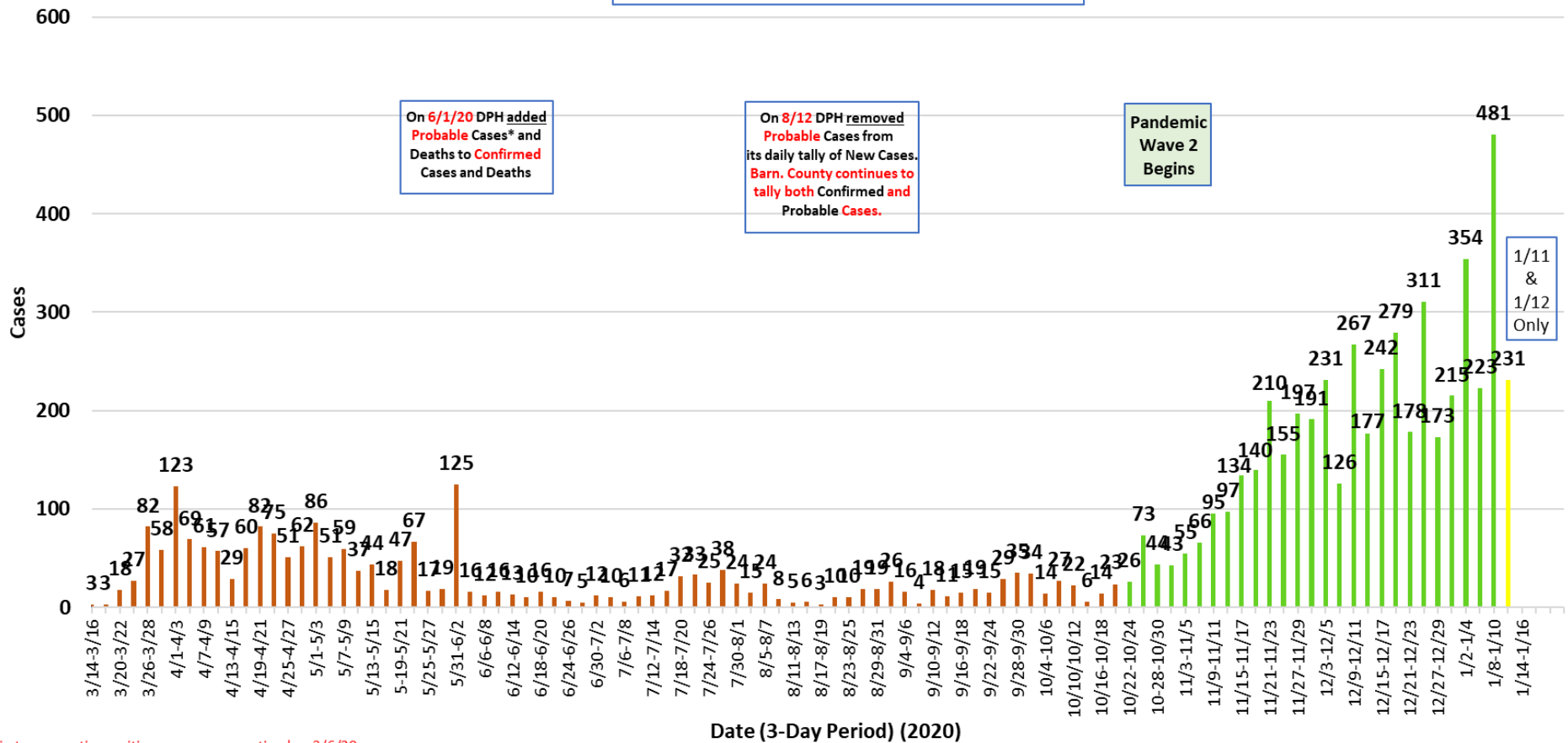


**COVID-19 Epidemiological Curve--New Cases (Confirmed + Probable)**

**Barnstable County, as of 1/12/21 5:00 pm**

**(New Cases per 3-Day Period)**

**7,216 Cases (6,685 Conf + 531 Prob); 277 Deaths**



First presumptive positive case was quarantined on 3/6/20;

Incubation Period = 14 Days; Data presented in 3-day periods which equal ~1/4 of the Incubation Period; \* Estimate based on Barn. County percentage of state population (3.13%)

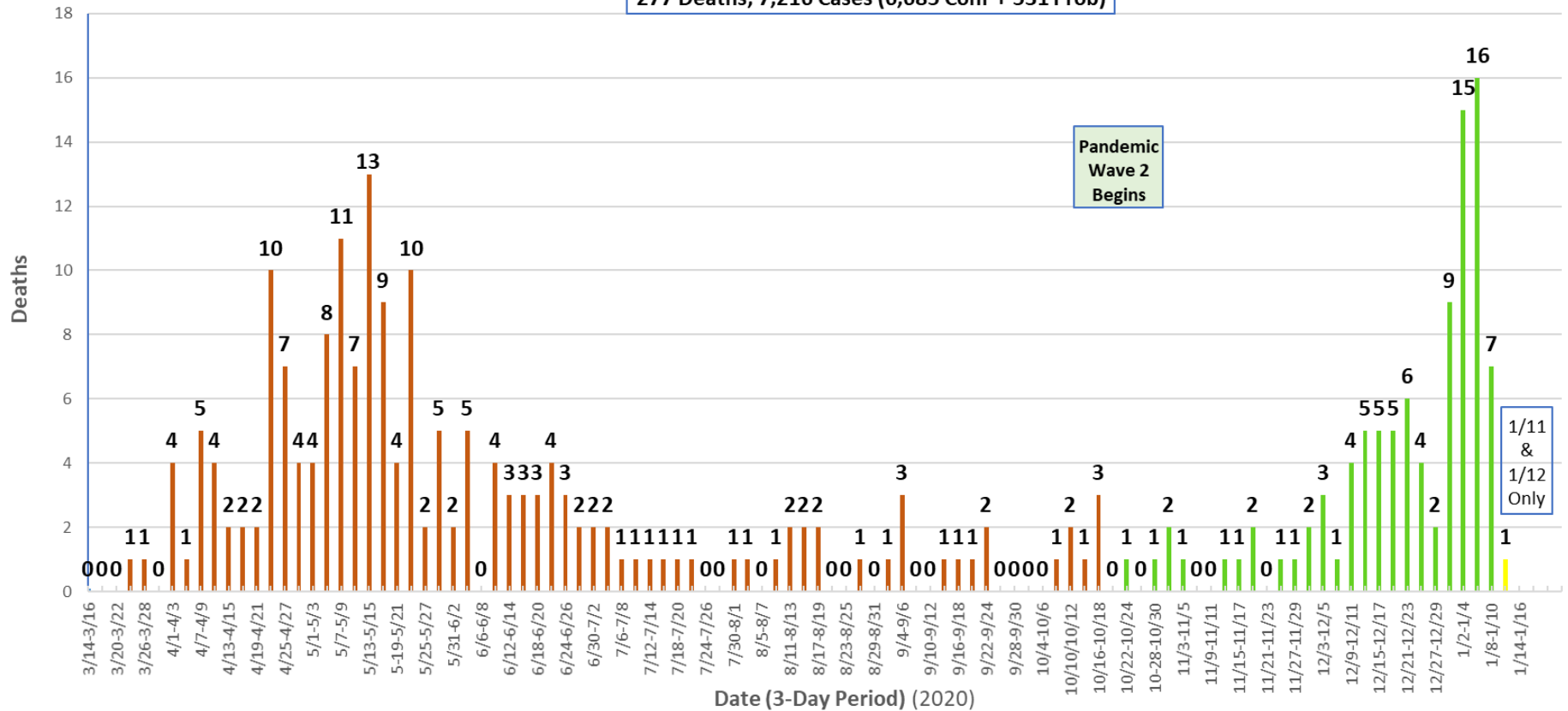
Source: V. Harik, BCDHS

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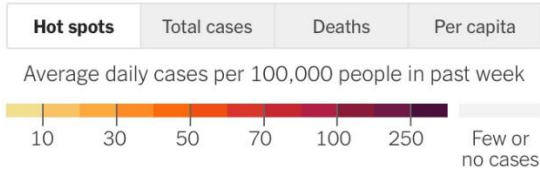
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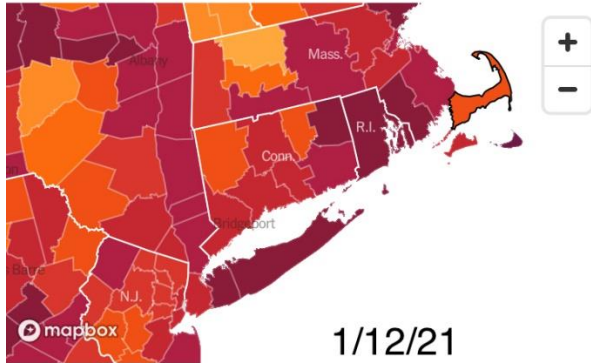
Source: V. Harik, BCDHS; Using data provided by the MA Department of Public Health

**Source: NYTimes.com:**

**BARNSTABLE 1/12/21**



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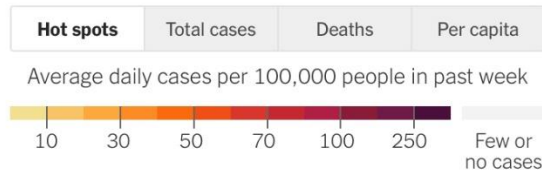


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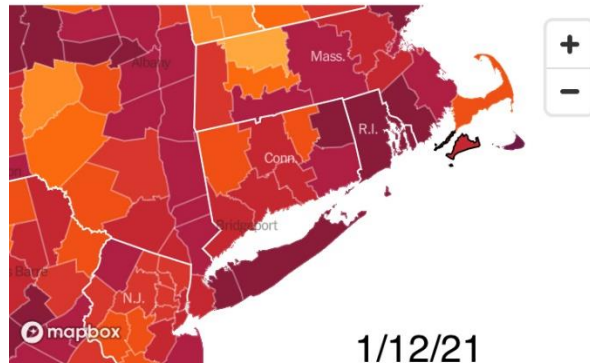
Sources: State and local health agencies. Population and demographic data from Census Bureau.

► About this data

**DUKES, 1/12/21**



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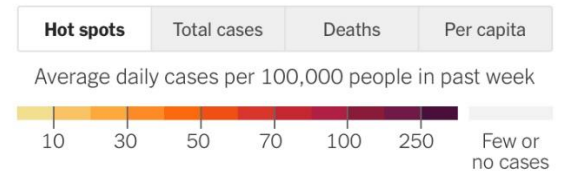


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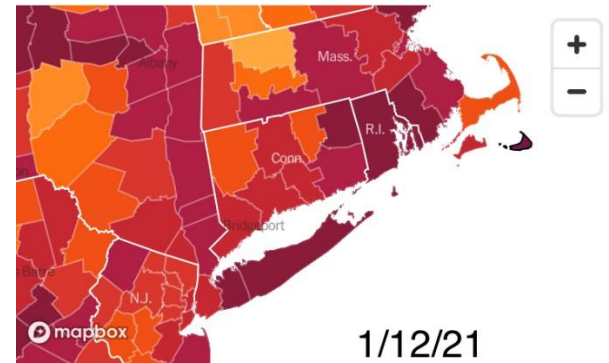
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**NANTUCKET, 1/12/21**



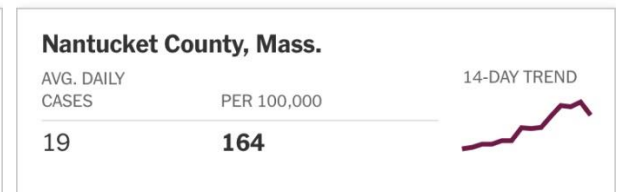
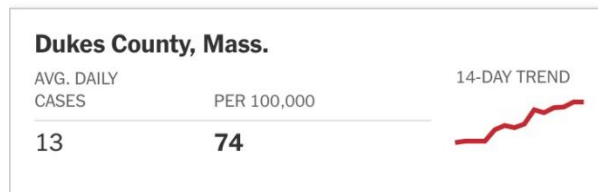
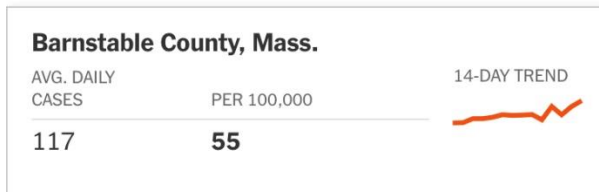
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1/12/21

Sources: State and local health agencies. Population and demographic data from Census Bureau.

► About this data



Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>Barnstable County COVID-Related Hospital &amp; ICU Beds Occupied, with Cases &amp; Deaths</b> |                   |                                      |                                 |                                     |                          |   |
|--|-------------------|--------------------------------------|---------------------------------|-------------------------------------|--------------------------|---|
| Source: V. Harik, Barn. County Dept of Human Services; Tabulation of MA DPH Data                 |                   |                                      |                                 |                                     |                          |   |
| <b>WEEKLY: (On Tuesdays)</b>   |                   | Not Cumulative                       |                                 | Cumulative                          |                          |   |
| Date Reported by DPH   | Hospital          | Hospital Beds Occupied               | ICU Beds Occupied               | Barnstable County Cases (Confirmed) | Barnstable County Deaths | 3-day Avg. of Persons in Hosp. (Ward + ICU) |
| <b>4/22/2020</b>   | Cape Cod Hospital | 11                                   | 5                               |                                     |                          |   |
|  | Falmouth Hospital | 13                                   | 7                               |                                     |                          |   |
|  |                   | <b>24</b>                            | <b>12</b>                       | <b>678</b>                          | <b>27</b>                | <b>41.0</b>                                 |
| <b>11/12/2020</b>  | Cape Cod Hospital | 1                                    | 0                               |                                     |                          |   |
|  | Falmouth Hospital | 0                                    | 0                               |                                     |                          |   |
|  |                   | <b>1</b>                             | <b>0</b>                        | <b>2,266</b>                        | <b>187</b>               | 1.0   |
| <b>11/17/2020</b>  | Cape Cod Hospital | 8                                    | 1                               |                                     |                          |   |
|  | Falmouth Hospital | 3                                    | 0                               |                                     |                          |   |
|  |                   | <b>11</b>                            | <b>1</b>                        | <b>2,835</b>                        | <b>188</b>               | 9.3   |
| <b>11/24/2020</b>  | Cape Cod Hospital | 11                                   | 0                               |                                     |                          |   |
|  | Falmouth Hospital | 4                                    | 0                               |                                     |                          |   |
|  |                   | <b>15</b>                            | <b>0</b>                        | <b>3,261</b>                        | <b>190</b>               | 15.7  |
| <b>12/1/2020</b>   | Cape Cod Hospital | 14                                   | 3                               |                                     |                          |   |
|  | Falmouth Hospital | 7                                    | 1                               |                                     |                          |   |
|  |                   | <b>21</b>                            | <b>4</b>                        | <b>3,129</b>                        | <b>192</b>               | 25.7  |
| <b>12/8/2020</b>   | Cape Cod Hospital | 14                                   | 5                               |                                     |                          |   |
|  | Falmouth Hospital | 7                                    | 2                               |                                     |                          |   |
|  |                   | <b>21</b>                            | <b>7</b>                        | <b>3,554</b>                        | <b>198</b>               | 25.7  |
| <b>12/15/2020</b>  | Cape Cod Hospital | 19                                   | 5                               |                                     |                          |   |
|  | Falmouth Hospital | 7                                    | 1                               |                                     |                          |   |
|  |                   | <b>26</b>                            | <b>6</b>                        | <b>4,086</b>                        | <b>210</b>               | 35.3  |
| <b>12/22/2020</b>  | Cape Cod Hospital | 22                                   | 2                               |                                     |                          |   |
|  | Falmouth Hospital | 8                                    | 1                               |                                     |                          |   |
|  |                   | <b>30</b>                            | <b>3</b>                        | <b>4,644</b>                        | <b>221</b>               | 36.0  |
| <b>12/29/2020</b>  | Cape Cod Hospital | 41                                   | 5                               |                                     |                          |   |
|  | Falmouth Hospital | 11                                   | 2                               |                                     |                          |   |
|  |                   | <b>52</b>                            | <b>7</b>                        | <b>5,181</b>                        | <b>229</b>               | 58.3  |
| <b>1/5/2021</b>  | Cape Cod Hospital | 23                                   | 7                               |                                     |                          |   |
|  | Falmouth Hospital | 19                                   | 3                               |                                     |                          |   |
|  |                   | <b>42</b>                            | <b>10</b>                       | <b>5,818</b>                        | <b>256</b>               | 51.0  |
| <b>Hospitalizations, Last Report:</b>  |                   |                                      |                                 |                                     |                          |   |
|  |                   | Not Cumulative                       |                                 | Cumulative                          |                          |   |
|  |                   | Hospital Beds Occupied (Last Report) | ICU Beds Occupied (Last Report) | Barnstable County Cases (Confirmed) | Barnstable County Deaths | 3-Day Avg. of Persons in Hosp. (Ward + ICU) |
| <b>1/12/2021</b>   | Cape Cod Hospital | 26                                   | 13 <sup>14</sup>                |                                     |                          |   |
|  | Falmouth Hospital | 9                                    | 4                               |                                     |                          |   |
|  |                   | <b>35</b>                            | <b>18</b>                       | <b>6,685</b>                        | <b>277</b>               | <b>49.0</b>                                 |

Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>Barnstable County COVID Cases and Facility-Reported Deaths in Long Term Care Facilities (thru 1/5/21)</b> |   |            |               |                            |                           |
|--|---|------------|---------------|----------------------------|---------------------------|
| #  | Facility  | County     | Licensed Beds | Cases* (Staff & Residents) | Deaths** (Residents Only) |
| 1  | ADVINIA CARE AT PROVINCETOWN                      | Barnstable | 41            | 1-10                       | 0                         |
| 2  | BOURNE MANOR EXTENDED CARE FACILITY               | Barnstable | 142           | 11-30                      | 1-4                       |
| 3  | CAPE HERITAGE REHABILITATION & HEALTH CARE CENTER | Barnstable | 123           | 1-10                       | 0                         |
| 4  | CAPE REGENCY REHABILITATION & HEALTH CARE CENTER  | Barnstable | 120           | >30                        | 17                        |
| 5  | CAPE WINDS REST HOME OF HYANNIS                   | Barnstable | 37            | 11-30                      | 0                         |
| 6  | CAPE WINDS REST HOME OF SANDWICH                  | Barnstable | 20            | 0                          | 0                         |
| 7  | JML CARE CENTER INC                               | Barnstable | 132           | 11-30                      | 5                         |
| 8  | LIBERTY COMMONS                                   | Barnstable | 132           | 11-30                      | 1-4                       |
| 9  | MAYFLOWER PLACE NURSING & REHABILITATION CENTER   | Barnstable | 72            | 11-30                      | 1-4                       |
| 10   | PAVILION THE                                      | Barnstable | 82            | >30                        | 1-4                       |
| 11   | PLEASANT BAY OF BREWSTER REHAB CENTER             | Barnstable | 135           | >30                        | 19                        |
| 12   | ROSEWOOD MANOR REST HOME                          | Barnstable | 33            | 1-10                       | 0                         |
| 13   | ROYAL CAPE COD NURSING & REHABILITATION CENTER    | Barnstable | 99            | >30                        | 20                        |
| 14   | ROYAL MEGANSETT NURSING & REHABILITATION          | Barnstable | 90            | 11-30                      | 0                         |
| 15   | ROYAL NURSING CENTER LLC                          | Barnstable | 121           | >30                        | 22                        |
| 16   | ROYAL OF COTUIT                                   | Barnstable | 120           | 11-30                      | 1-4                       |
| 17   | SOUTH DENNIS HEALTHCARE                           | Barnstable | 128           | >30                        | 11                        |
| 18   | TERRACES ORLEANS (THE)                            | Barnstable | 50            | 1-10                       | 0                         |
| 19   | WINDSOR NURSING & RETIREMENT HOME                 | Barnstable | 120           | >30                        | 1-4                       |
| 20   | WINGATE AT HARWICH                                | Barnstable | 135           | >30                        | 21                        |
| <b>Totals, Barnstable County</b>   |   |            | <b>1,932</b>  |                            | <b>139</b>                |
|  |   |            |               |                            | (Estimated)               |
| <b>LTC Facility Percentage of Total COVID Fatalities in Barnstable County, 3/1/20 to 1/5/21</b>              |   |            |               |                            | <b>54%</b>                |

Source: MA DPH COVID Weekly Report, 1/7/21.

\*Staff and residents; \*\*Cumulative COVID-19 deaths –includes residents only. \*\*\*Facility is closed. Data will continue to be included for completeness but will not change except for the result of data cleaning.

PLEASE NOTE: This list includes nursing homes, rest homes, and skilled nursing facilities; reported COVID-19 cases to date represent both staff and residents. The number of cases for a facility relies on the amount of testing conducted; facilities not included on this list may have COVID-19 cases that have not yet been identified. As of May 25th 344 nursing homes reported that at least 90% of staff and 90% of residents had been tested.

ALSO: Data on deaths is self-reported by each facility. In accordance with long-term care regulations, nursing homes and rest homes must report deaths due to any cause in any resident, either confirmed COVID-19 positive, or suspected to have COVID-19, even if the individual was never tested. When the number of deaths is between 1-4 residents, the number is suppressed and reported as 1- 4, to protect possible resident identification. The Department of Public Health performs routine data quality reviews of the data it receives. This includes removing duplicate results and updating counts if needed. Also, occasional negative tests from nursing home residents result after being reported first as presumptive and are removed. As a result of this, the total of self-reported deaths may decrease to ensure accuracy.

Data Sources: MAVEN for confirmed cases; Individual facilities reported resident deaths to DPH Bureau of Health Care Safety and Quality's Health Care Facility Reporting System.

Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>MA DPH Data Dashboard, WEEKLY REPORT of 1/7/21 (for the Period 12/20/2020 – 1/2/21)</b>   |   |                           |   |   |   |                            |                                     |                  |
|--|---|---------------------------|---|---|---|----------------------------|-------------------------------------|------------------|
| Data Source: MA DPH, 12/7/21 Weekly COVID Report ( <a href="https://www.mass.gov/info-details/covid-19-response-reporting">https://www.mass.gov/info-details/covid-19-response-reporting</a> ) |   |                           |   |   |   |                            |                                     |                  |
|  | Total Case Count                                | Case Count (Last 14 Days) | Average Daily Incidence Rate per 100,000 (Last 14 days) | Relative Change in Case Counts <sup>1</sup> | Total Tests                                     | Total Tests (Last 14 days) | Total Positive Tests (Last 14 days) | P (Last 14 days) |
| <b>Barnstable County</b>   | <b>5,881</b>                                    | <b>1,138</b>              | <b>37.5</b>   | <b>Higher</b>                               | <b>203,096</b>                                  | <b>20,405</b>              | <b>1,284</b>                        |                  |
| Berkshire County   | 3,260   | 606                       | 34.2  | Higher                                      | 189,999   | 16,489                     | 689                                 |                  |
| Bristol County   | 37,700  | 6,445                     | 80.6  | Higher                                      | 686,786   | 60,099                     | 7,285                               |                  |
| Dukes County   | (Reported in Combination with Nantucket County) |                           |   |   | (Reported in Combination with Nantucket County) |                            |                                     |                  |
| <b>Dukes and Nantucket Counties</b>  | <b>1,379</b>                                    | <b>223</b>                | <b>55.3</b>   | <b>Higher</b>                               | <b>47,280</b>                                   | <b>3,894</b>               | <b>229</b>                          |                  |
| Essex County   | 62,276  | 9,043                     | 81.1  | Lower                                       | 1,181,661                                       | 111,409                    | 10,927                              |                  |
| Franklin County  | 1,356   | 189                       | 19  | Lower                                       | 97,401  | 6,546                      | 212                                 |                  |
| Hampden County   | 28,208  | 4,265                     | 64.7  | Higher                                      | 573,096   | 54,198                     | 5,114                               |                  |
| Hampshire County   | 4,198   | 787                       | 34.3  | Higher                                      | 364,414   | 18,800                     | 898                                 |                  |
| Middlesex County   | 80,814  | 11,978                    | 52.6  | Higher                                      | 2,870,866                                       | 220,971                    | 13,598                              |                  |
| Nantucket County   | (Reported in Combination with Dukes County)     |                           |   |   | (Reported in Combination with Dukes County)     |                            |                                     |                  |
| Norfolk County   | 29,618  | 5,083                     | 50.8  | Higher                                      | 996,503   | 85,176                     | 5,703                               |                  |
| Plymouth County  | 26,430  | 4,609                     | 62.4  | Higher                                      | 556,653   | 53,655                     | 5,170                               |                  |
| Suffolk County   | 57,745  | 7,298                     | 64.4  | Higher                                      | 2,150,437                                       | 127,828                    | 8,564                               |                  |
| Worcester County   | 46,010  | 7,646                     | 65.1  | Higher                                      | 1,189,313                                       | 93,643                     | 8,529                               |                  |
| Unknown <sup>3</sup>   | 1,177   | 258                       | *   | *   | 201,280   | 14,908                     | 259                                 |                  |
| <b>State</b>   | <b>386,052</b>                                  | <b>59,568</b>             | <b>61.1</b>   | <b>Higher</b>                               | <b>11,308,785</b>                               | <b>888,021</b>             | <b>68,461</b>                       |                  |

Data are current as of 11:59pm on 1/5/21;

1 Number of new cases occurring over the current two-week period (12/20/2020 – 1/2/21) compared to the previous two-week period (12/13/2020 – 12/26/2020). **Higher**=number of new cases in current two-week period higher than the number of new cases during the last two-week period. **Lower**=number of new cases in the current two-week period lower than number of new cases during the last two-week period. **Change**=number of new cases in current two-week period is equal to the number of new cases during the last two-week period.

2 Change in percent positivity compared to the previous week's (12/31/2020) report. **No Change**= <0.10% difference in the percent positivity.

3 Address information for these cases is currently being obtained. DPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donohue-Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Please note: Data for these tables are based on information available at a single point in time. Case counts for specific cities and towns change throughout the day as data cleaning occurs (removal of duplicate reports within the system) and new demographic information (address information to their city or town of residence) is obtained.



Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

| <b>MA DPH Data Dashboard, WEEKLY REPORT of 1/7/21 (for the Period 12/20/20 to 1/2/21)</b> |                  |  |                         |                                       |                               |                   |                          |                             |                                 |                              |
|---|------------------|--|-------------------------|---------------------------------------|-------------------------------|-------------------|--------------------------|-----------------------------|---------------------------------|------------------------------|
| City/Town   | Population       | (March 2020 to Present) Total Case Count | Case Count Last 14 Days | Average Daily Incidence Rate per 100K | Relative Change in Case Count | Total Tests       | Total Tests Last 14 Days | Positive Tests Last 14 Days | Percent Positivity Last 14 Days | Change in Percent Positivity |
| Barnstable  | 44,773           | 1,890                                    | 352                     | 56.2                                  | Higher                        | 41,076            | 4,498                    | 377                         | 8.38%                           | Higher                       |
| Bourne  | 21,026           | 620                                      | 118                     | 40.1                                  | Higher                        | 22,423            | 2,170                    | 132                         | 6.08%                           | Higher                       |
| Brewster  | 9,926            | 215                                      | 26                      | 18.7                                  | Higher                        | 9,599             | 1,133                    | 31                          | 2.74%                           | Higher                       |
| Chatham   | 5,830            | 112                                      | 36                      | 44.1                                  | Higher                        | 5,412             | 599                      | 45                          | 7.51%                           | Higher                       |
| Dennis  | 13,088           | 335                                      | 86                      | 46.9                                  | Higher                        | 10,607            | 1,098                    | 93                          | 8.47%                           | Higher                       |
| Eastham   | 4,603            | 52                                       | 6                       | 9.3                                   | Higher                        | 2,959             | 240                      | 6                           | 2.50%                           | Higher                       |
| Falmouth  | 31,190           | 741                                      | 111                     | 25.4                                  | Lower                         | 36,677            | 3,063                    | 129                         | 4.21%                           | No Change                    |
| Harwich   | 12,589           | 350                                      | 55                      | 31.2                                  | Higher                        | 11,009            | 1,224                    | 63                          | 5.15%                           | Higher                       |
| Mashpee   | 15,535           | 332                                      | 75                      | 34.5                                  | Higher                        | 14,488            | 1,367                    | 98                          | 7.17%                           | Higher                       |
| Orleans   | 5,620            | 77                                       | 27                      | 34.3                                  | Higher                        | 3,890             | 394                      | 27                          | 6.85%                           | Higher                       |
| Provincetown  | 2,583            | 47                                       | 6                       | 16.6                                  | No Change                     | 3,169             | 231                      | 7                           | 3.03%                           | Higher                       |
| Sandwich  | 21,078           | 378                                      | 97                      | 32.9                                  | Higher                        | 16,568            | 1,619                    | 103                         | 6.36%                           | Higher                       |
| Truro   | 1,968            | 18                                       | 0                       | 0                                     | No Change                     | 1,396             | 107                      | 0                           | 0%                              | No Change                    |
| Wellfleet   | 2,760            | 29                                       | 1                       | 7.8                                   | Higher                        | 1,935             | 111                      | 3                           | 2.70%                           | Higher                       |
| Yarmouth  | 24,062           | 685                                      | 140                     | 41.6                                  | Lower                         | 21,888            | 2,551                    | 170                         | 6.66%                           | Lower                        |
| <b>Barnstable County</b>  | <b>216,629</b>   | <b>5,881</b>                             | <b>1,136</b>            | <b>33.9</b>                           | <b>Higher</b>                 | <b>203,096</b>    | <b>20,405</b>            | <b>1,284</b>                | <b>6.29%</b>                    | <b>Higher</b>                |
| Aquinnah  | 261              | 3  | 0                       | 0                                     | No Change                     | 417               | 20                       | 0                           | 0%                              | No Change                    |
| Chilmark  | 759              | 9  | 2                       | 28.2                                  | Higher                        | 2693              | 190                      | 3                           | 1.58%                           | Higher                       |
| Edgartown   | 4,086            | 159                                      | 20                      | 35.0                                  | Higher                        | 8229              | 578                      | 21                          | 3.63%                           | Higher                       |
| Gosnold   | 45               | 5  | 0                       | 0                                     | No Change                     | 115               | 3                        | 0                           | 0%                              | No Change                    |
| Oak Bluffs  | 5,209            | 132                                      | 26                      | 35.7                                  | Higher                        | 5496              | 444                      | 27                          | 6.08%                           | Higher                       |
| Tisbury   | 4,174            | 183                                      | 26                      | 44.5                                  | Higher                        | 10387             | 743                      | 28                          | 3.77%                           | Higher                       |
| West Tisbury  | 2,871            | 58                                       | 8                       | 19.9                                  | Higher                        | 3669              | 295                      | 8                           | 2.71%                           | Higher                       |
| <b>Dukes County</b>   | <b>17,404</b>    | <b>554</b>                               | <b>83</b>               | <b>*</b>                              | <b>Lower</b>                  | <b>31,006</b>     | <b>2,273</b>             | <b>87</b>                   | <b>3.83%</b>                    | <b>Lower</b>                 |
| <b>Nantucket</b>  | <b>11,416</b>    | <b>830</b>                               | <b>140</b>              | <b>87.6</b>                           | <b>Higher</b>                 | <b>16274</b>      | <b>1621</b>              | <b>142</b>                  | <b>8.76%</b>                    | <b>Higher</b>                |
| <b>Dukes and Nantucket Counties</b>   | <b>28,820</b>    | <b>1,379</b>                             | <b>223</b>              | <b>55.3</b>                           | <b>Higher</b>                 | <b>47,280</b>     | <b>3,894</b>             | <b>229</b>                  | <b>4.51%</b>                    | <b>Higher</b>                |
| <b>State</b>  | <b>6,964,383</b> | <b>386,052</b>                           | <b>59,568</b>           | <b>61.1</b>                           | <b>Higher</b>                 | <b>11,308,785</b> | <b>888,021</b>           | <b>68,461</b>               | <b>7.71%</b>                    | <b>Higher</b>                |

Data Source: MA DPH, 1/7/21 Weekly COVID Report (<https://www.mass.gov/info-details/covid-19-response-reporting>); Analysis: V. Harik BCDHS.

**Massachusetts COVID Testing Rates, As Applied to Barnstable County (Thru 1/2/21)**

Sources: Census.gov; MA DPH Weekly COVID Report, 1/7/21. Analysis: V. Harik, BCDHS

|                               | MA  | Barnstable County |
|-------------------------------|---|-------------------|
| Population Estimate (via DPH) | 6,964,383   | 216,629           |
|                               | <b>Barnstable County % of MA Pop.</b>                       | <b>3.11%</b>      |
|                               | Barn. County % of Total MA Tests                            | 1.80%             |
|                               | <b>Barn. County % of MA Tests, Past Two Weeks</b>           | <b>2.30%</b>      |
|                               | Barn. County % of MA <u>Total Confirmed</u> Cases           | 1.52%             |
|                               | <b>Barn. County % of MA Confirmed Cases, Past Two Weeks</b> | <b>1.91%</b>      |
|                               | MA % Positive Tests Last 14 Days                            | 7.71%             |
|                               | <b>Barnstable County % Positive Tests Last 14 Days</b>      | <b>6.29%</b>      |

Vaira Harik, Barnstable County Dept of Human Services  
**COVID Daily Update Chart Package, 1/13/21**

**Active COVID Clusters by Exposure Setting Type for the Period 12/6/20 to 1/2/21 (as of 1/7/21)**

Source: <https://www.mass.gov/info-details/covid-19-response-reporting>. Tabulation: V. Harik, Barnstable County DHS

Sorted by Number of Cases in New Cluster Settings

|    | Exposure Setting   | New Clusters                  |                 |                | Ongoing Clusters   |                 |                | Total         |                 |                |
|----|--|-------------------------------|-----------------|----------------|--|-----------------|----------------|---------------|-----------------|----------------|
|    |  | Clusters                      | Confirmed Cases | Close Contacts | Clusters   | Confirmed Cases | Close Contacts | Clusters      | Confirmed Cases | Close Contacts |
|    |  | (Identified 12/6/20 – 1/2/21) |                 |                | (Cluster Identified Prior to 12/6/20 But Not Meeting Criteria for Closing) |                 |                |               |                 |                |
| 1  | Household  | 19,931                        | 51,044          | ---            | 13,783   | 5,886           | ---            | 33,714        | 56,930          | ---            |
| 2  | Long Term Care Facilities  | 122                           | 1,186           | ---            | 206  | 2,401           | ---            | 328           | 3,587           | ---            |
| 3  | Child Care   | 155                           | 478             | 671            | 157  | 100             | 355            | 312           | 578             | 1,026          |
| 4  | Senior Living  | 52                            | 396             | 33             | 79   | 440             | 195            | 131           | 836             | 228            |
| 5  | Social Gatherings  | 49                            | 307             | 42             | 38   | 30              | 26             | 87            | 337             | 68             |
| 6  | Restaurants & Food Courts  | 25                            | 223             | 40             | 50   | 78              | 34             | 75            | 301             | 74             |
| 7  | Hospitals  | 18                            | 173             | 15             | 30   | 223             | 74             | 48            | 396             | 89             |
| 8  | 24/7 Congregate Settings   | 44                            | 162             | 51             | 62   | 128             | 38             | 106           | 290             | 89             |
| 9  | Other Healthcare   | 21                            | 127             | 57             | 27   | 50              | 14             | 48            | 177             | 71             |
| 10 | K-12 Schools   | 30                            | 121             | 243            | 59   | 64              | 56             | 89            | 185             | 299            |
| 11 | Industrial Settings  | 20                            | 119             | 61             | 59   | 170             | 69             | 79            | 289             | 130            |
| 12 | Corrections  | 3                             | 89              | 3              | 17   | 1,080           | 54             | 20            | 1,169           | 57             |
| 13 | Other Workplaces   | 20                            | 87              | 30             | 27   | 38              | 41             | 47            | 125             | 71             |
| 14 | Organized Athletics/Camps  | 14                            | 63              | 171            | 19   | 12              | 62             | 33            | 75              | 233            |
| 15 | Colleges & Universities  | 9                             | 56              | 20             | 30   | 6               | 2              | 39            | 62              | 22             |
| 16 | Places of Worship  | 5                             | 55              | 4              | 12   | 4               | 1              | 17            | 59              | 5              |
| 17 | Retail & Services  | 15                            | 41              | 24             | 23   | 23              | 11             | 38            | 64              | 35             |
| 18 | Shelters   | 3                             | 37              | .              | 4  | 3               | .              | 7             | 40              | .              |
| 19 | Other Food Establishments  | 6                             | 30              | 29             | 11   | 25              | 1              | 17            | 55              | 30             |
| 20 | Recreation/Cultural  | 5                             | 23              | 17             | 4  | .               | .              | 9             | 23              | 17             |
| 21 | Offices  | 7                             | 19              | 2              | 9  | 2               | .              | 16            | 21              | 2              |
| 22 | Travel & Lodging   | 1                             | 2               | .              | 2  | 10              | .              | 3             | 12              | .              |
| 23 | Other  | .                             | .               | .              | 6  | 1               | .              | 6             | 1               | .              |
|    | <b>TOTAL</b>   | <b>20,555</b>                 | <b>54,838</b>   | <b>1,513</b>   | <b>14,714</b>  | <b>10,774</b>   | <b>1,033</b>   | <b>35,269</b> | <b>65,612</b>   | <b>2,546</b>   |
|    | <b>New Clusters:</b> Clusters with the first case (indicated by the first positive lab result) identified during the four week period 12/20/20 – 1/2/21                            |                               |                 |                |  |                 |                |               |                 |                |
|    | <b>Ongoing Clusters:</b> Clusters with the first case identified prior to 12/6/20 that has not met criteria to be closed.  |                               |                 |                |  |                 |                |               |                 |                |
|    | <b>Confirmed Cases</b> included in ongoing clusters occurred between 12/20/20 and 1/2/21 but are associated with a cluster that began prior to 12/6/20.                            |                               |                 |                |  |                 |                |               |                 |                |
|    | <b>Close Contacts</b> included in ongoing clusters occurred between 12/20/20 and 1/2/21 but are associated with a cluster that began prior to 12/6/20.                             |                               |                 |                |  |                 |                |               |                 |                |
|    | <b>Closed Clusters:</b> A cluster is closed after 28 days have passed since the last confirmed case; 19,890 clusters are closed, 121,966 cases are associated with closed clusters |                               |                 |                |  |                 |                |               |                 |                |

# Vaccine information for the general public

