

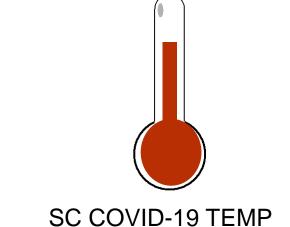
Southcoast Health COVID-19 Update



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Chief Clinical Officer, SHG
Physician in Chief, Medicine



More than medicine.





Outline

- Phases
- + JHU Data
- + DPH Data
- + Testing
- + SC 14 day trends
- + SC bed occupancy
- Case fatality
- Convalescent Plasma Results



- Large cluster in Maine
- Small clusters in NB
- Concerns regarding school
- Concerns about gatherings
- Watching holiday outcomes
- Increase inpatient volume (8)

Current state: Stay at home

Phase 1: Start Phase 2: Cautious Phase 3: Vigilant Phase 4: New normal

Essential business and services only

Limited industries resume operations with severe restrictions

Additional industries resume operations with restrictions and capacity limitations

Additional industries resume operations with guidance

Development of vaccines and / or treatments enable resumption of "new normal"

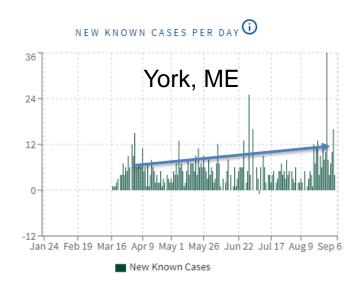
- + Phase 1 Start
- + Phase 2 Cautious
- Phase 3 Vigilant

- Statewide Intensive Care Unit (ICU) Bed Capacity: The 7-day average of the number of available, staffed adult ICU beds statewide must be at least 30% of total staffed adult ICU beds (including staffed surge ICU beds), on an ongoing basis during Phase 3: Vigilant.
- Statewide Inpatient Bed Capacity: The 7-day average of the number of available, staffed adult inpatient beds (adult ICU and adult medical/surgical beds) statewide must be at least 30% of total staffed adult inpatient beds (including staffed surge beds), on an ongoing basis during Phase 3: Vigilant.
- + Hospital-Specific or Hospital System-Specific Bed Capacity Maintenance: The 7-day average of the hospital's or hospital system's available, staffed adult inpatient beds (adult ICU and adult medical/surgical beds) must be at least 20% of its total staffed adult inpatient bed capacity (including staffed surge beds) on an ongoing basis during Phase 3: Vigilant.



This past week





147 cases linked to rural Maine wedding at a lodge in Millinocket with

3 deaths

A rural wedding led to dozens of coronavirus cases. Officials see it as a cautionary tale.

https://www.washingtonpost.com/health/2020/08/30/coronavirus-millinocket-wedding-outbreak/



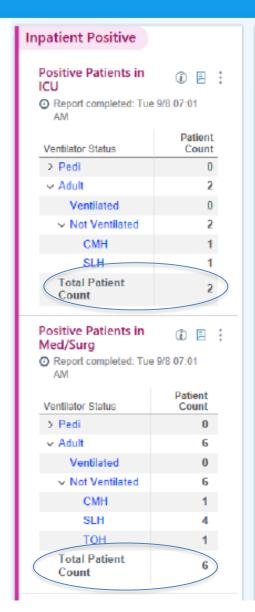


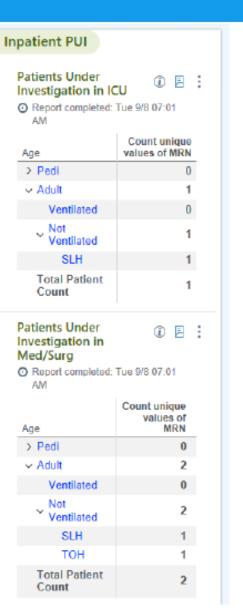
Outbreaks at Savoy nursing home and Iglesia Pentecostal Levantate y Anda NEW BEDFORD — Mayor Jon Mitchell has taken to social media to announce two outbreaks of COVID-19 at a church and a nursing home in the city that each affected at least 10 people.

https://www.southcoasttoday.com/news/20200904 /mitchell-announces-covid-19-clusters-at-nursinghome-and-church



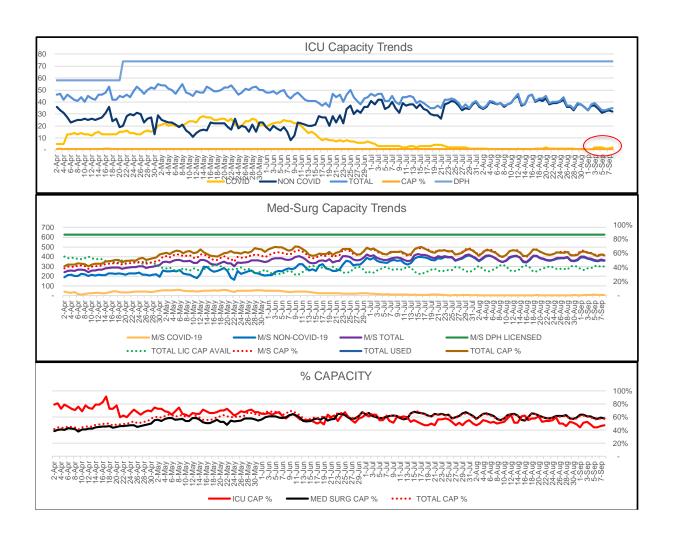
SC 9-8-2020





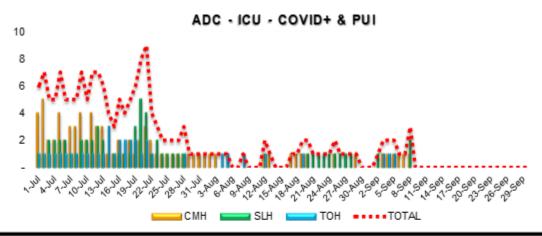


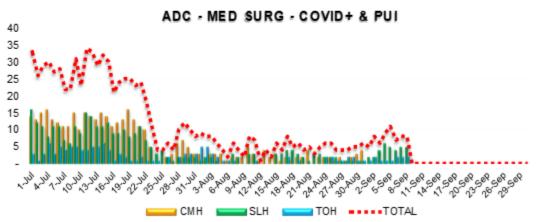
SC COVID-19 Bed Occupancy 9-8-2020

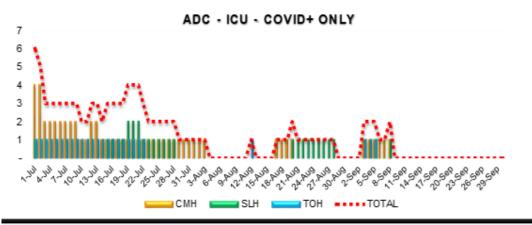


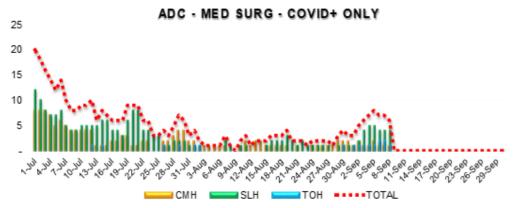


Hospitalization Detail 9/8/2020











MA Aug 9-7-2020



Massachusetts Department of Public Health COVID-19 Dashboard- Monday, September 07, 2020

Dashboard of Public Health Indicators

Newly Reported Confirmed Cases Today

222

New Individuals Tested by Molecular Tests

9,870

Total Molecular Tests Administered

2,728,153

Total Confirmed Cases

121,046

Total Individuals Tested by Molecular Tests

1,867,534

Legend

- Positive trend
- In progress
- Negative trend

Newly Reported Deaths among Confirmed Today

8

Total Deaths among Confirmed Cases

8,925

Below is the current status:

Measure	Status
COVID-19 positive test rate	•
Number of individuals who died from COVID-19	
Number of patients with COVID-19 in hospitals	•
Healthcare system readiness	
Testing capacity	•
Contact tracing capabilities	•

The front page of the dashboard has been reformatted. Antibody tests (individual and total numbers) can be found on page 18.

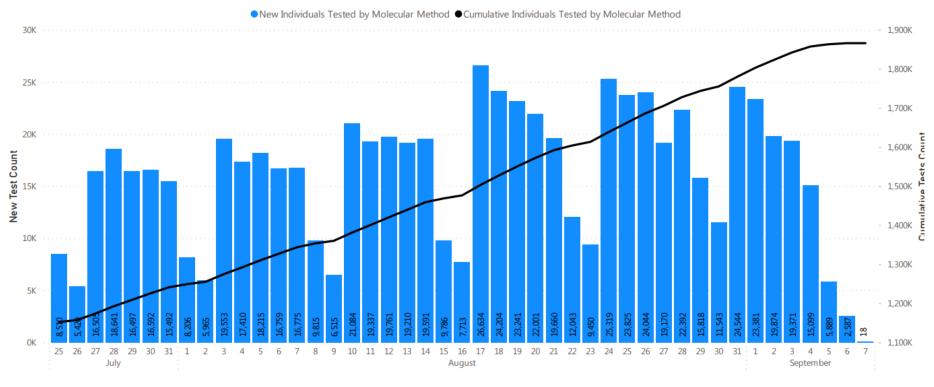


STATE TESTING Sept 7, 2020



Massachusetts Department of Public Health COVID-19 Dashboard- Monday, September 07, 2020

Testing by Date - Molecular (Individuals) Total Number of Individuals with at Least One Molecular Test Performed by Date





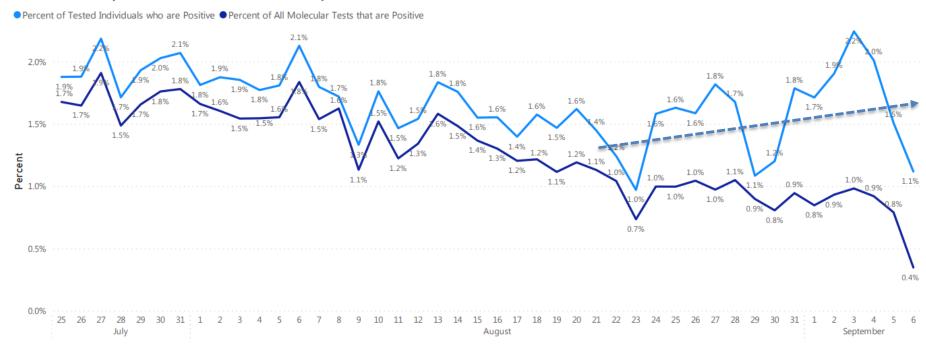
STATE TESTING Sept 7, 2020



Massachusetts Department of Public Health COVID-19 Dashboard- Monday, September 07, 2020

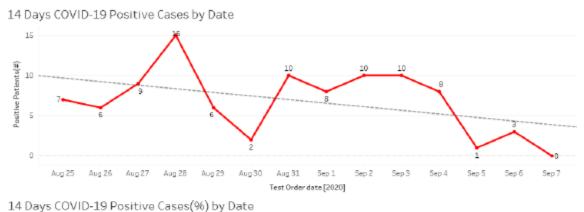
Testing by Date - Molecular (Percent Positive)

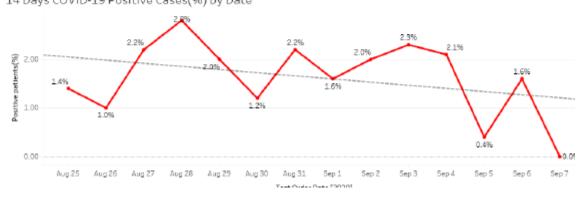
Percent of Tests By Molecular Method that are Positive by Test Date



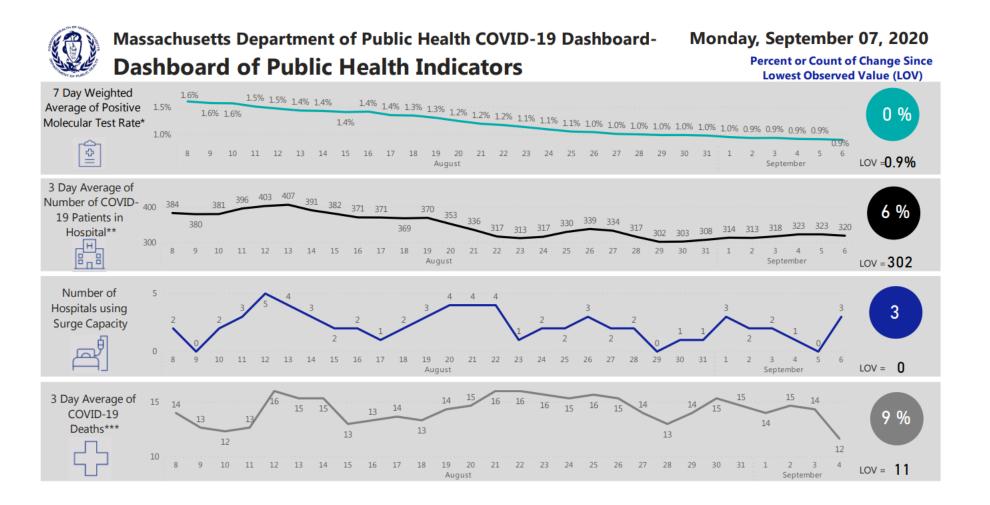


COVID-19 Positivity Trickling Up 9-1-2020





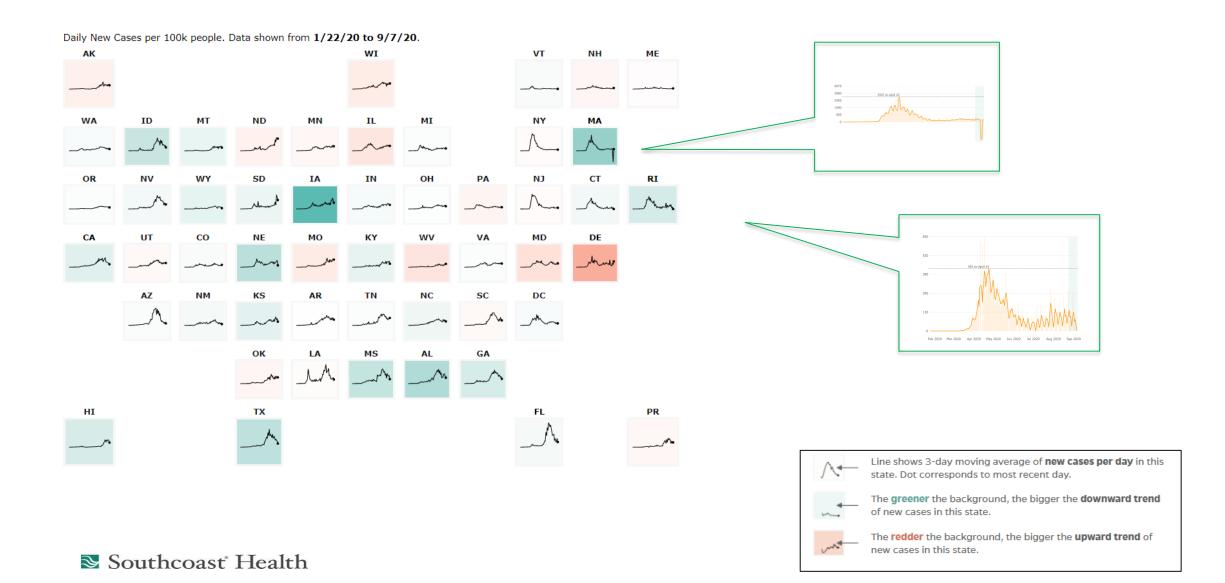
MA Public Health Indicators: 7 Day Weighted Avg Sept 7, 2020



Continued Drop statewide



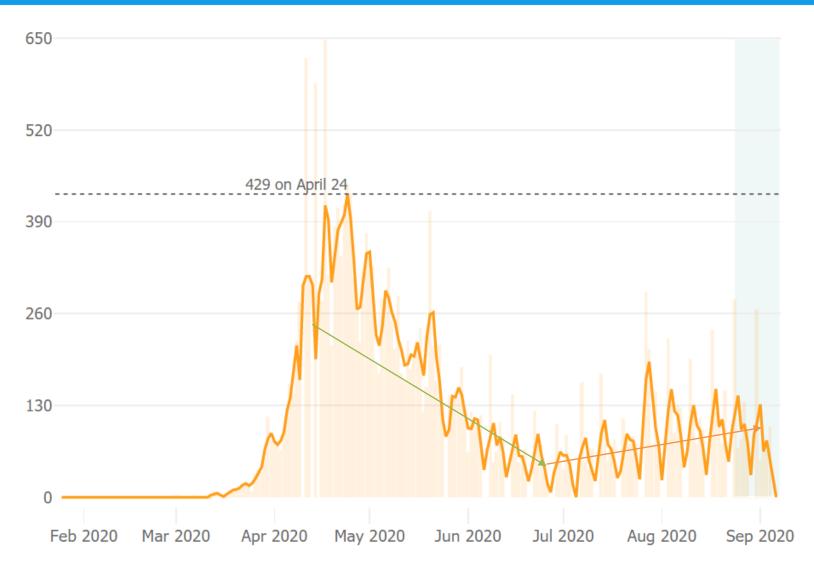
United States 9/7/2020 (JHU)





Trend by State – RI 9/7/2020

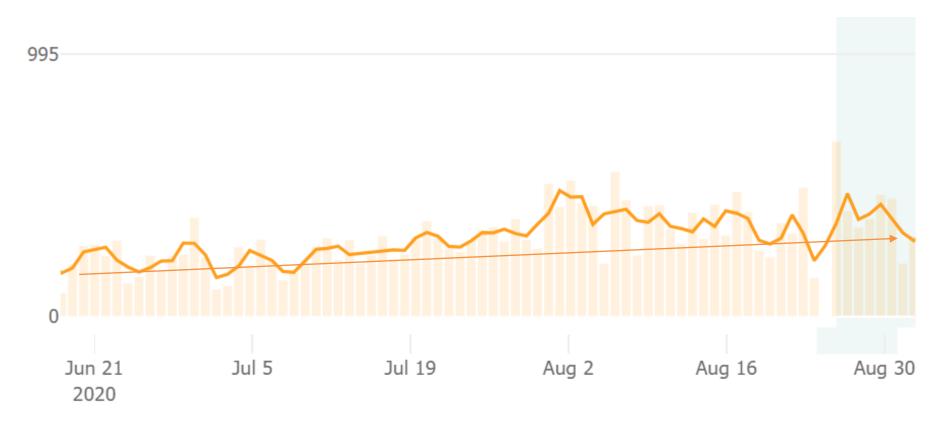
Daily confirmed new cases (3-day moving average)





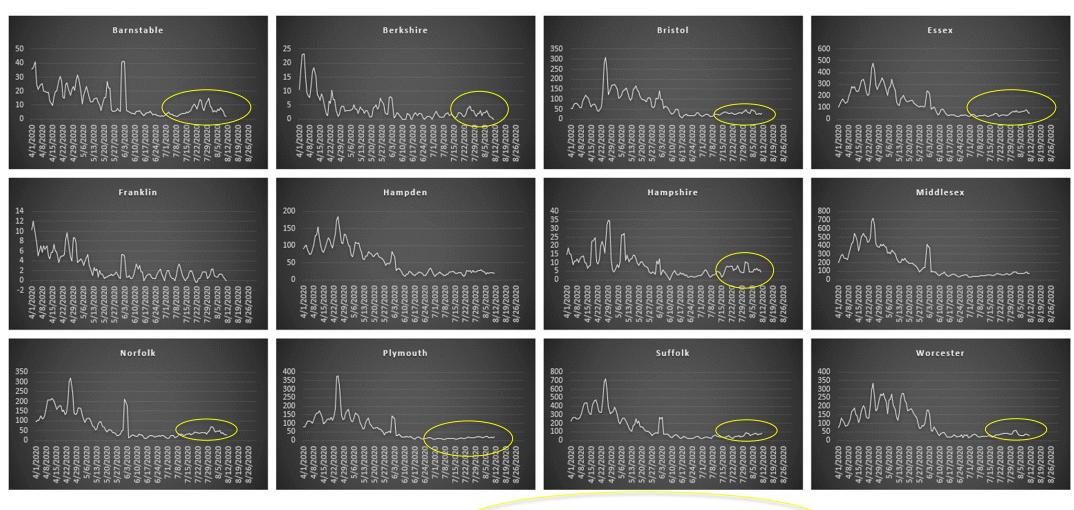
Trend by State – MA 9/7/2020

Daily confirmed new cases (3-day moving average)



3

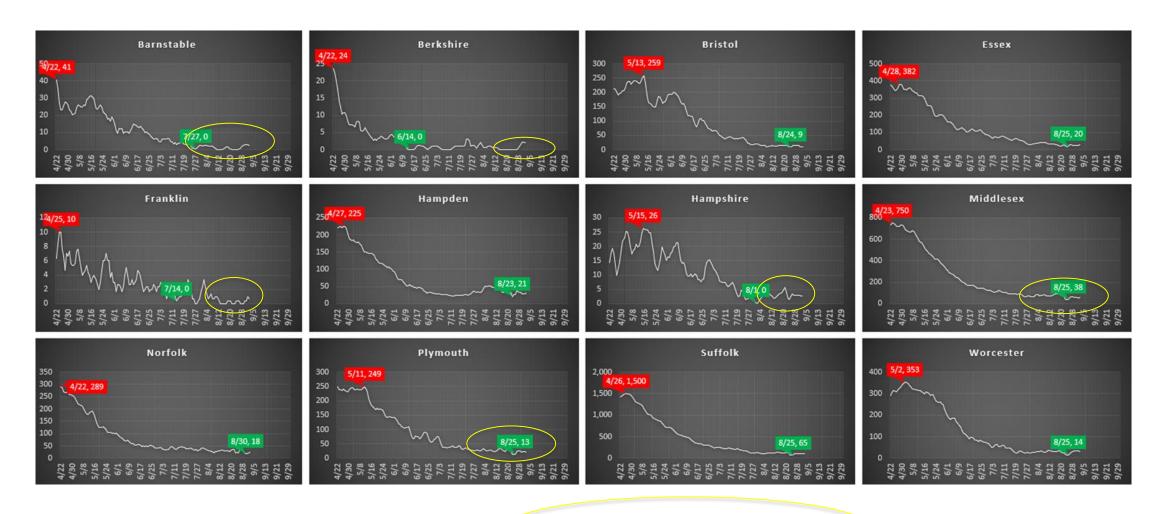
MA County Cases Trend: Rolling 3 Day Average Cases / County 9/8/2020





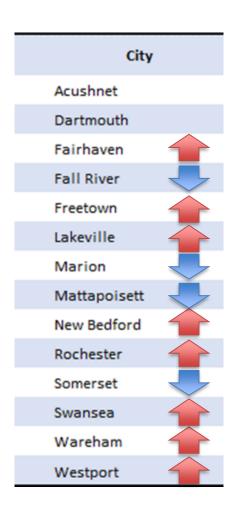


MA County Hospitalization Trend: Rolling 3 Day Average Cases / County 9/8/2020





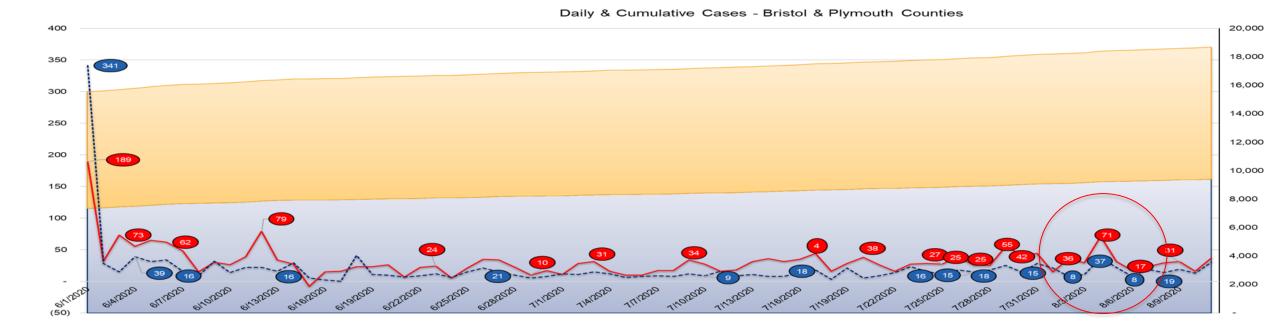
City Rate of Increase of Cases by Town (PSA) 9/7/2020



8/19 Rate of Growth (vs. Prev 7 Days)	8/26 Rate of Growth (vs. Prev 7 Days)	TREND
2.9%	0.9%	
2.2%	1.0%	
1.2%	0.4%	==-
1.0%	0.7%	
0.0%	1.8%	
4.8%	6.1%	
0.0%	0.0%	
7.1%	0.0%	
1.5%	1.2%	
5.0%	0.0%	
0.5%	0.9%	
1.3%	9.9%	
0.0%	1.3%	
1.9%	3.7%	



Bristol an Plymouth Daily and Cumulative



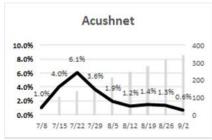
Plymouth - Cumulative

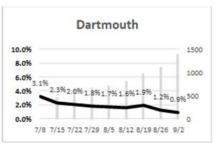
---- Plymouth - Daily

Bristol - Daily

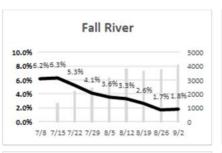
Bristol - Cumulative

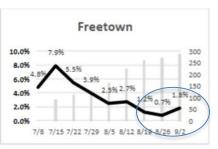
Primary Service Area Positivity Rate 9/7/2020

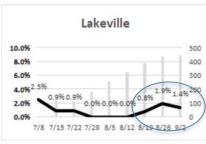




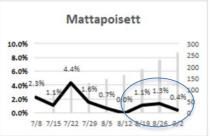


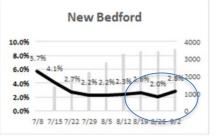


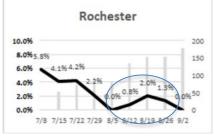


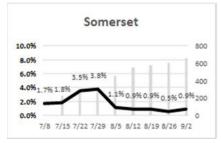


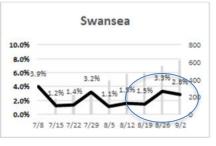


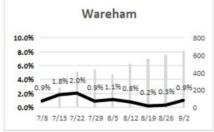


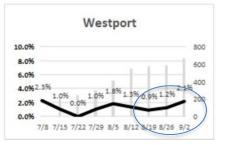












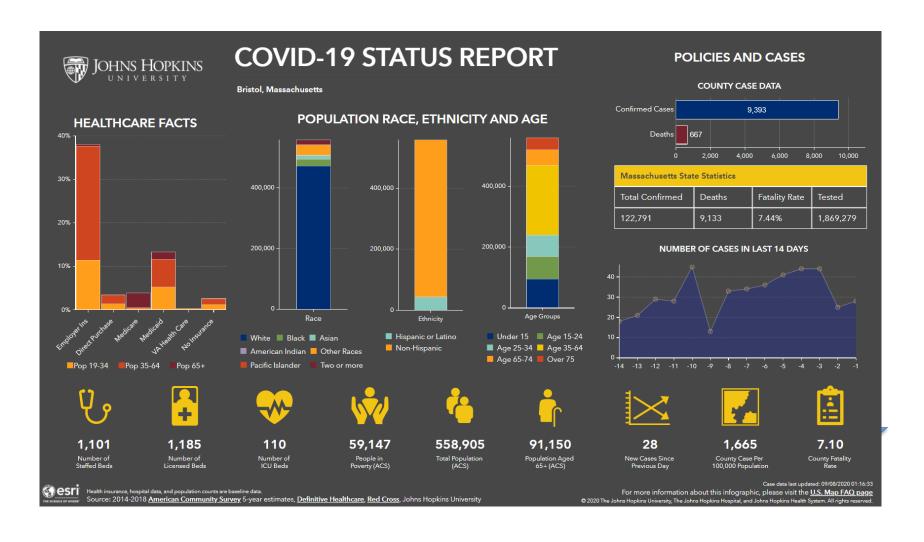


Testing Update, 9/8/2020



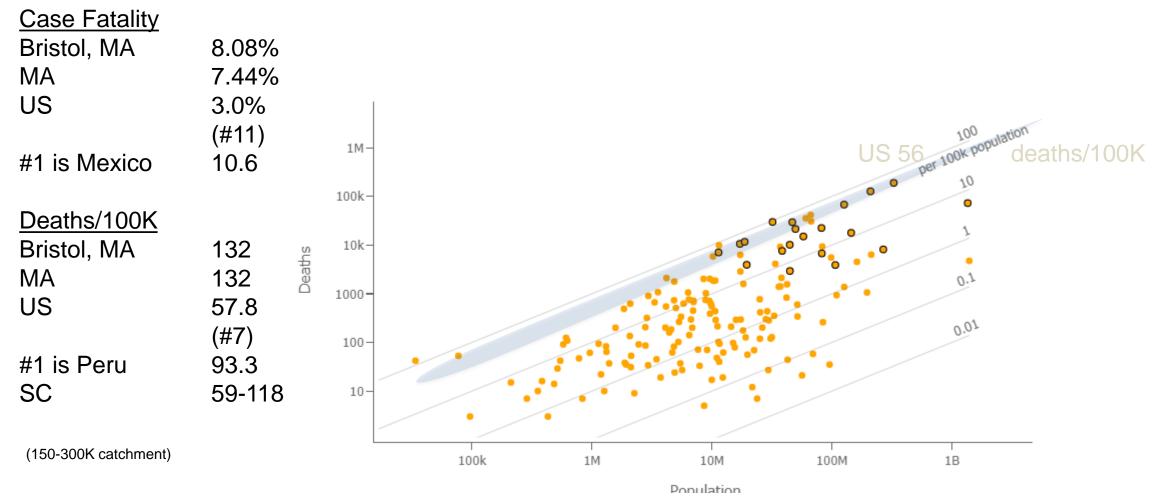


JHU Dashboard 9/8/2020— Bristol, MA





Mortality 9/7/2020







Convalescent Plasma





- Effect of Convalescent Plasma on Mortality among Hospitalized Patients with COVID-19: Initial Three-Month Experience
- + Michael J Joyner, □ Jonathon W Senefeld, □ Stephen A Klassen et al.
- + Aug 12
- + doi: https://doi.org/10.1101/2020.08.12.20169359
- + Preprint. Non-peer-reviewed.











- + The 35,322 transfused patients had heterogeneous demographic and clinical characteristics. This cohort included a high proportion of critically ill patients, with 52.3% in the intensive care unit (ICU) and 27.5% receiving mechanical ventilation at the time of plasma transfusion.
- + The seven-day mortality rate was 8.7% [95% CI 8.3%-9.2%] inpatients transfused within 3 days of COVID-19 diagnosis but 11.9% [11.4%-12.2%] in patients transfused 4 or more days after diagnosis (p<0.001). Similar findings were observed in 30-day mortality (21.6% vs. 26.7%, p<0.0001).
- + Importantly, a gradient of mortality was seen in relation to IgG antibody levels in the transfused plasma. For patients who received high IgG plasma (>18.45 S/Co), seven-day mortality was 8.9% (6.8%, 11.7%); for recipients of medium IgG plasma (4.62 to 18.45 S/Co) mortality was 11.6% (10.3%, 13.1%); and for recipients of low IgG plasma (<4.62 S/Co) mortality was 13.7% (11.1%, 16.8%) (p=0.048). This unadjusted doseresponse relationship with IgG was also observed in thirty-day mortality (p=0.021).
- + The pooled relative risk of mortality among patients transfused with high antibody level plasma units was 0.65 [0.47-0.92] for 7 days and 0.77 [0.63-0.94] for 30 days compared to low antibody level plasma units.
- + Conclusions and Relevance: The relationships between reduced mortality and both earlier time to transfusion and higher antibody levels provide signatures of efficacy for convalescent plasma in the treatment of hospitalized COVID-19 patients.

An NIH Panel reviewed the preliminary, non-peer-reviewed findings and did not recommend use of plasma outside of a clinical trial. The FDA extended access under an emergency use authorization.





Summary

- We have warning signs in both MA and RI
- We have critical period with the openings of schools
- Please be safe at work, at home, and at religious gatherings
- We will need to plan for the resurgence
- We will need to plan for Flu and COVID-19 together

