

# EHPC Quarterly Meeting Covid-19 Update

August 13, 2020

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# The Virus

- Novel virus – There is much that we don't know

# The Patients/Cases

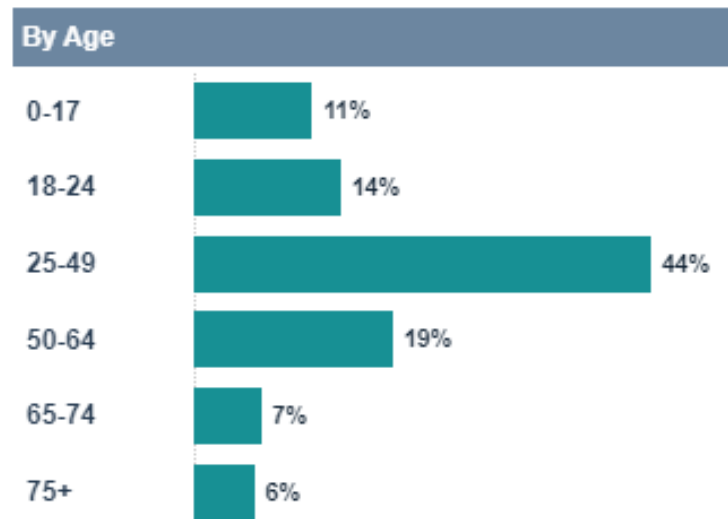
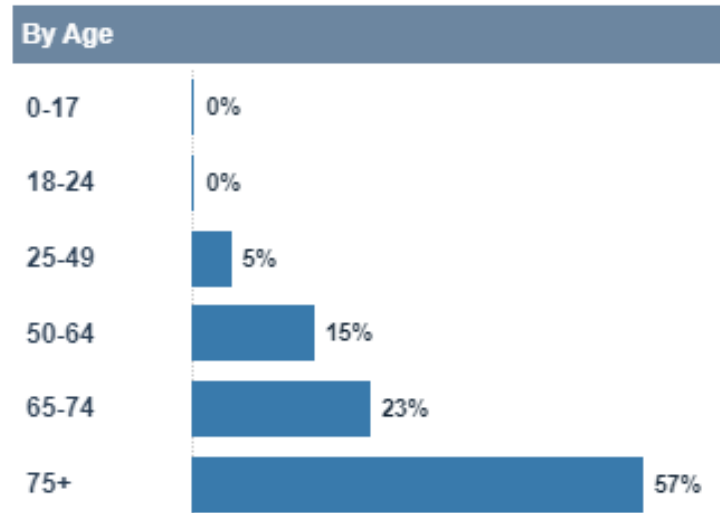
- Symptomatic and Asymptomatic
- Asymptomatic
  - Yes, They are contagious
  - Suspected to be less contagious because they are not coughing or sneezing.
  - Singing is a risk factor for spreading

# The Symptoms

- Fever
- Respiratory symptoms
- Body aches, Fatigue, Weakness
- Diarrhea
- Less expected
  - Old people falling down, confusion
  - Strokes
  - Heart problems

# The Children

- Far less impacted
  - Out of 2204 NC deaths
  - 1 child age 0-17
  - 3 age 18 to 24
- 
- Out of 139,061 NC Cases

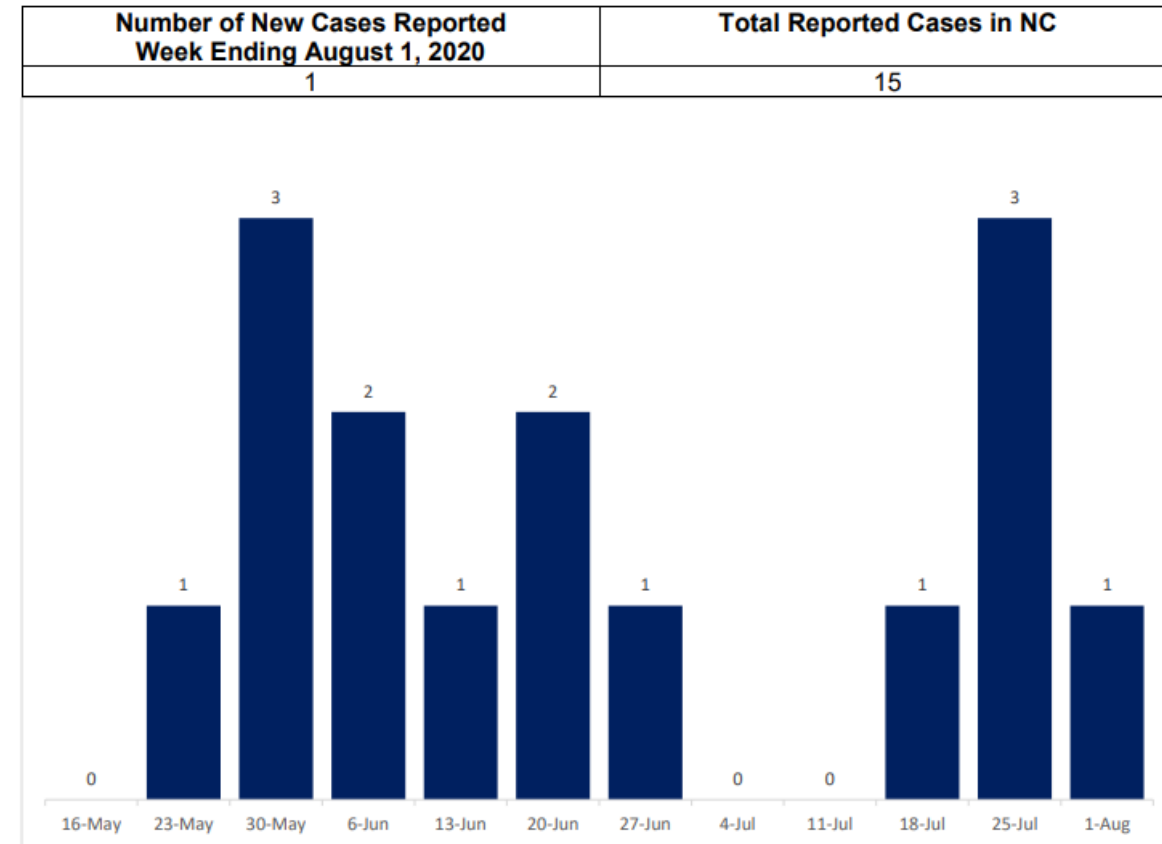


# MIS-C

## Multisystem Inflammatory Syndrome in Children

- Case definition
  - <21 years old
  - Lab evidence of inflammatory markers
  - Severe illness requiring Hospitalization
  - 2 or more organ systems involved.
  - No other plausible diagnosis
  - Positive covid test
  - Report to NC DPH CD Branch 919-733- 3419
  - 15 cases in NC

How many cases meeting the CDC case definition for Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with COVID-19 have been reported in North Carolina?



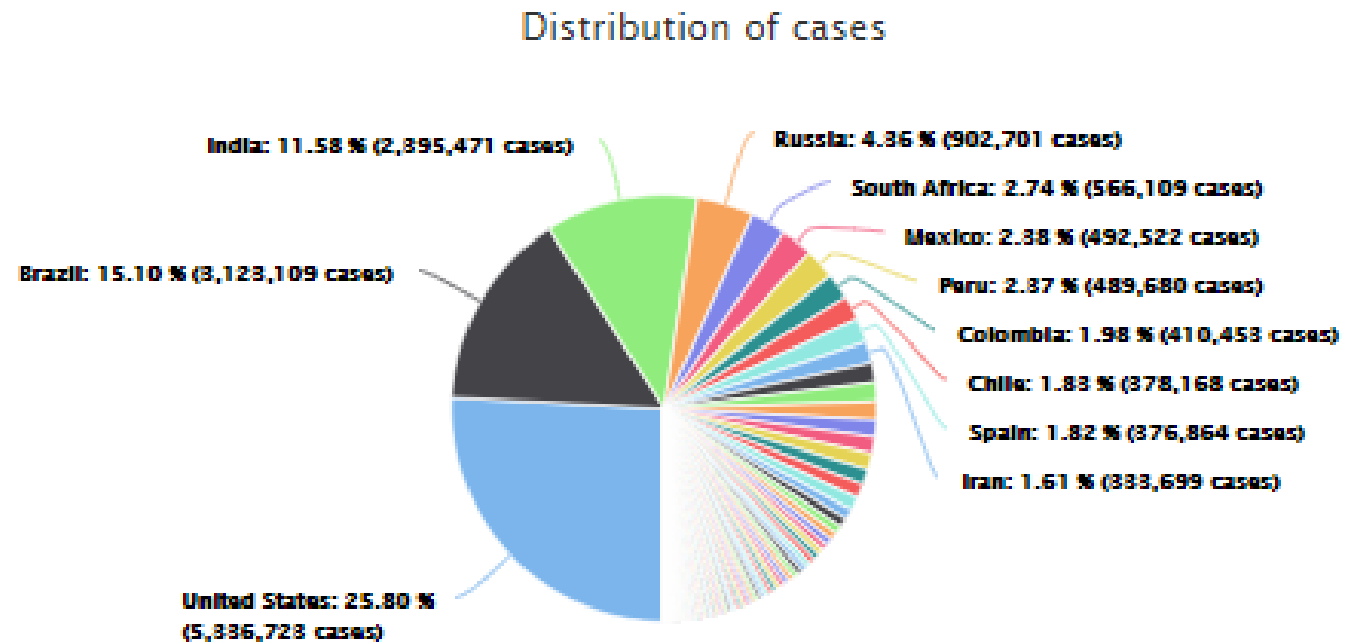
# The Tests

- PCR- molecular, looking for viral RNA
  - Slow (2 hours stat ED testing)
  - Expensive
  - Sensitive and Specific
  - Lab capacity
- Antigen Testing
  - Point of Care (POC)
  - 15 minute result
  - Cheap
  - Far less sensitive than PCR
- Serology (Antibody testing)
  - Sign of past infection or recent infection 10 to 14 days for antibody to develop
  - CDC has not shown support for the value of serology testing

# The Numbers

- Worldwide 20.6 million cases
- USA 5.2 million case
- USA 25% of cases

Countries cases distribution



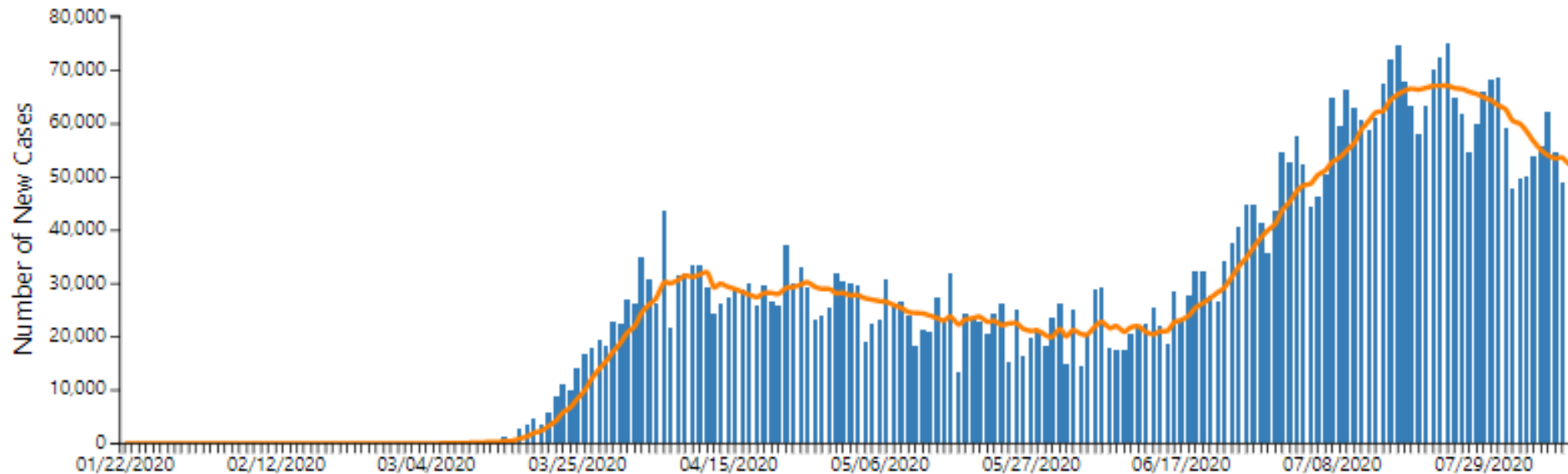


# How do we measure better or worse?

- USA cases




## New Cases by Day

The following chart shows the number of new COVID-19 cases reported each day in the U.S. since the beginning of the outbreak. Hover over the bars to see the number of new cases by day.

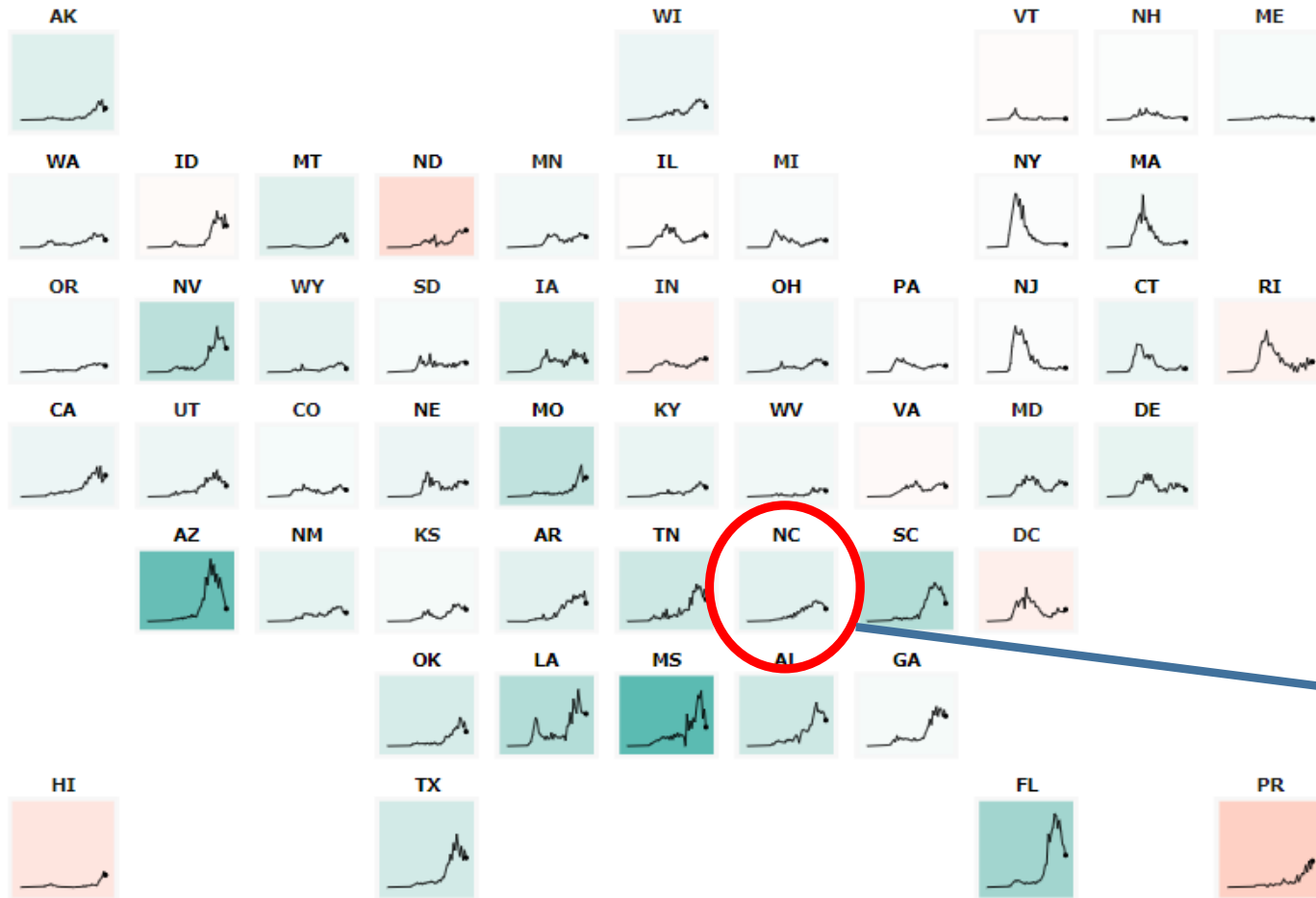


How to use this graphic:

Click on a state to see more detail.

-  Line shows 3-day moving average of **new cases per day** in this state. Dot corresponds to most recent day.
-  The **greener** the background, the bigger the **downward trend** of new cases in this state.
-  The **redder** the background, the bigger the **upward trend** of new cases in this state.

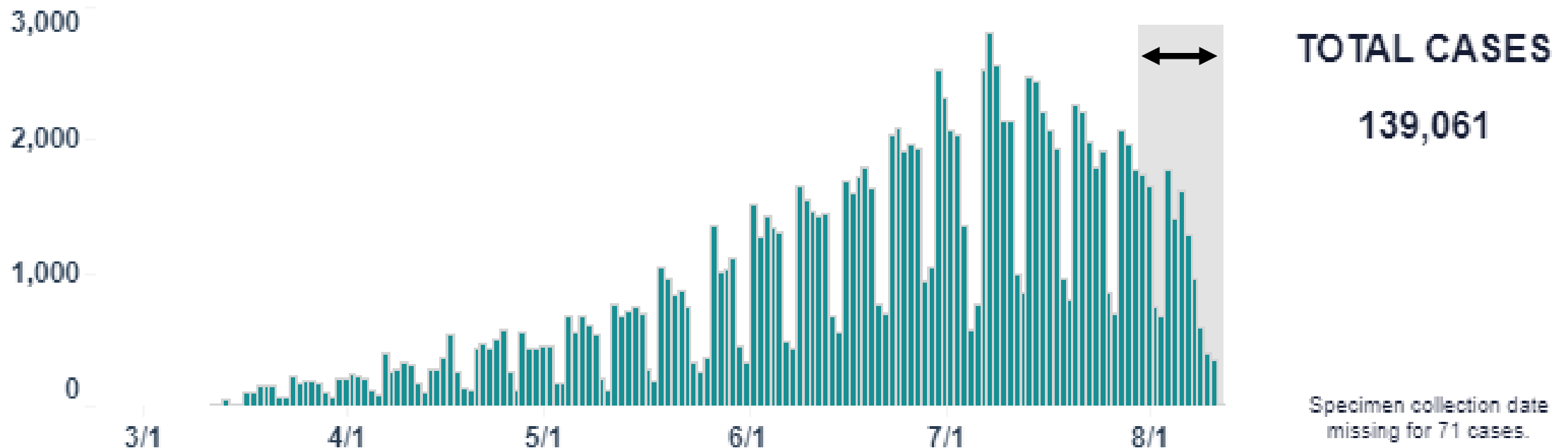
Daily New Cases per 100k people. Data shown from 1/22/20 to 8/11/20.



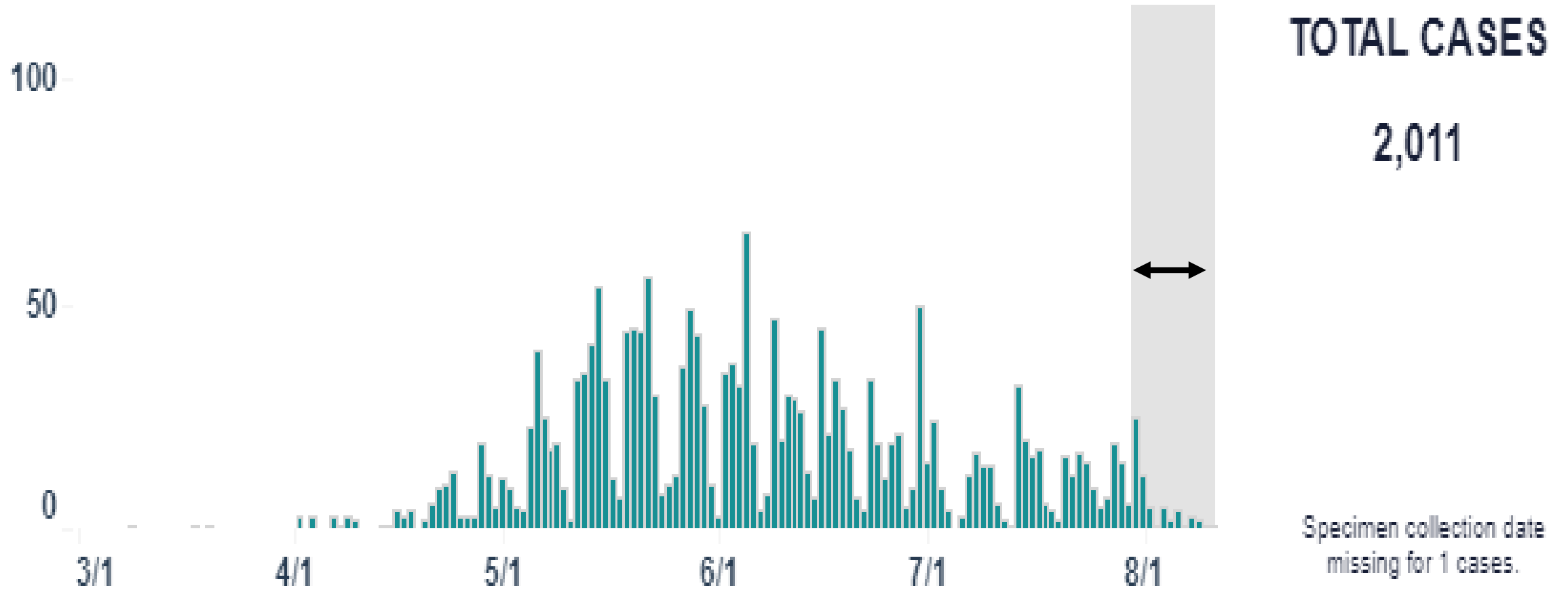
North Carolina

# The North Carolina Numbers

- <https://covid19.ncdhhs.gov/dashboard>
- Cases by Date of Collection



# Duplin County Cases

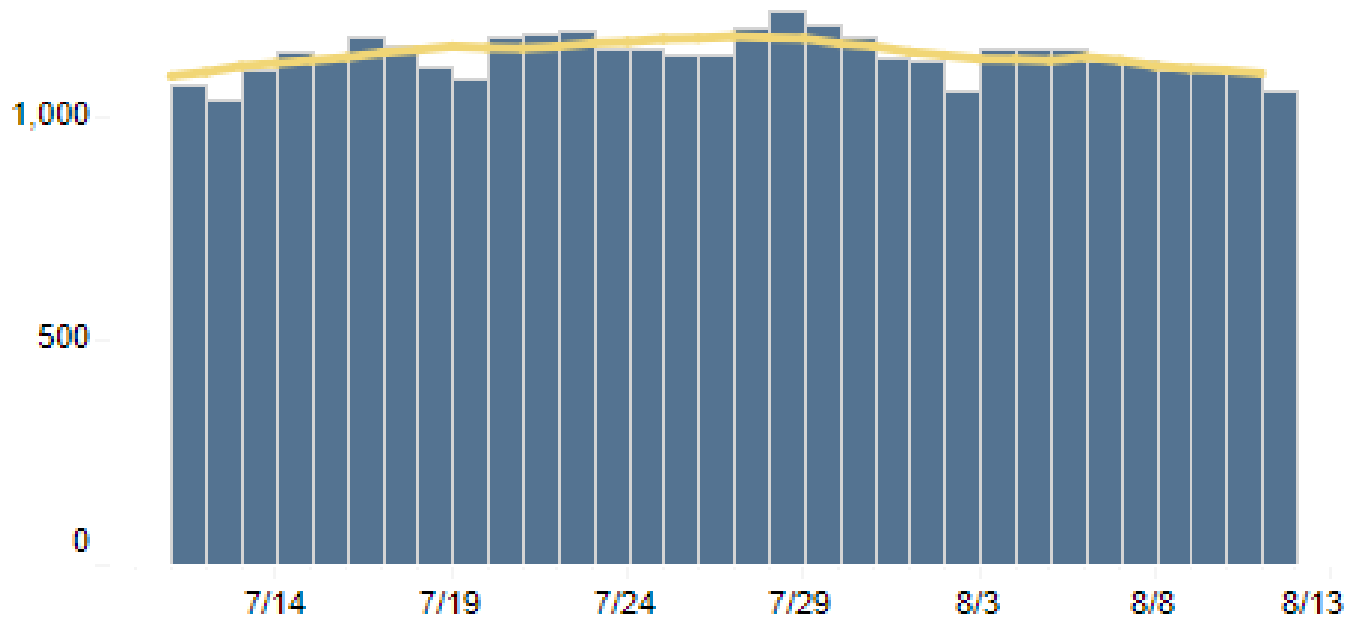


# The Hospital Numbers

Source: NC DHHS covid dashboard

Statewide      Filter By: (All)  
 Region View      Region

Currently Hospitalized COVID-19 Patients | Statewide i



**1,062**  
Currently Hospitalized

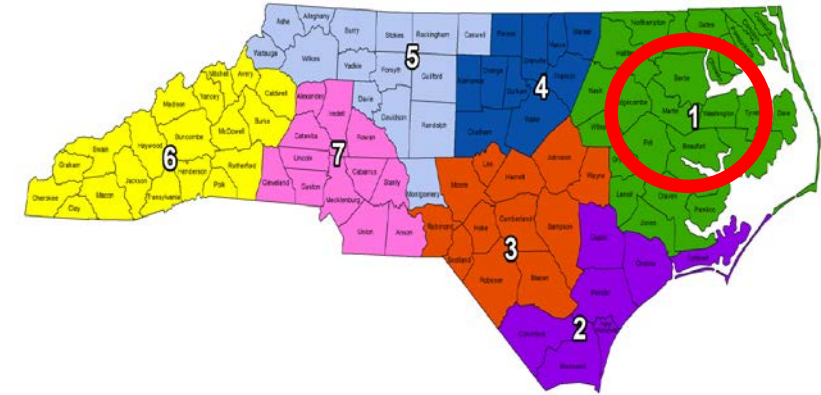
**91%**  
Hospitals Reporting

# Confusion on how to count currently Hospitalized

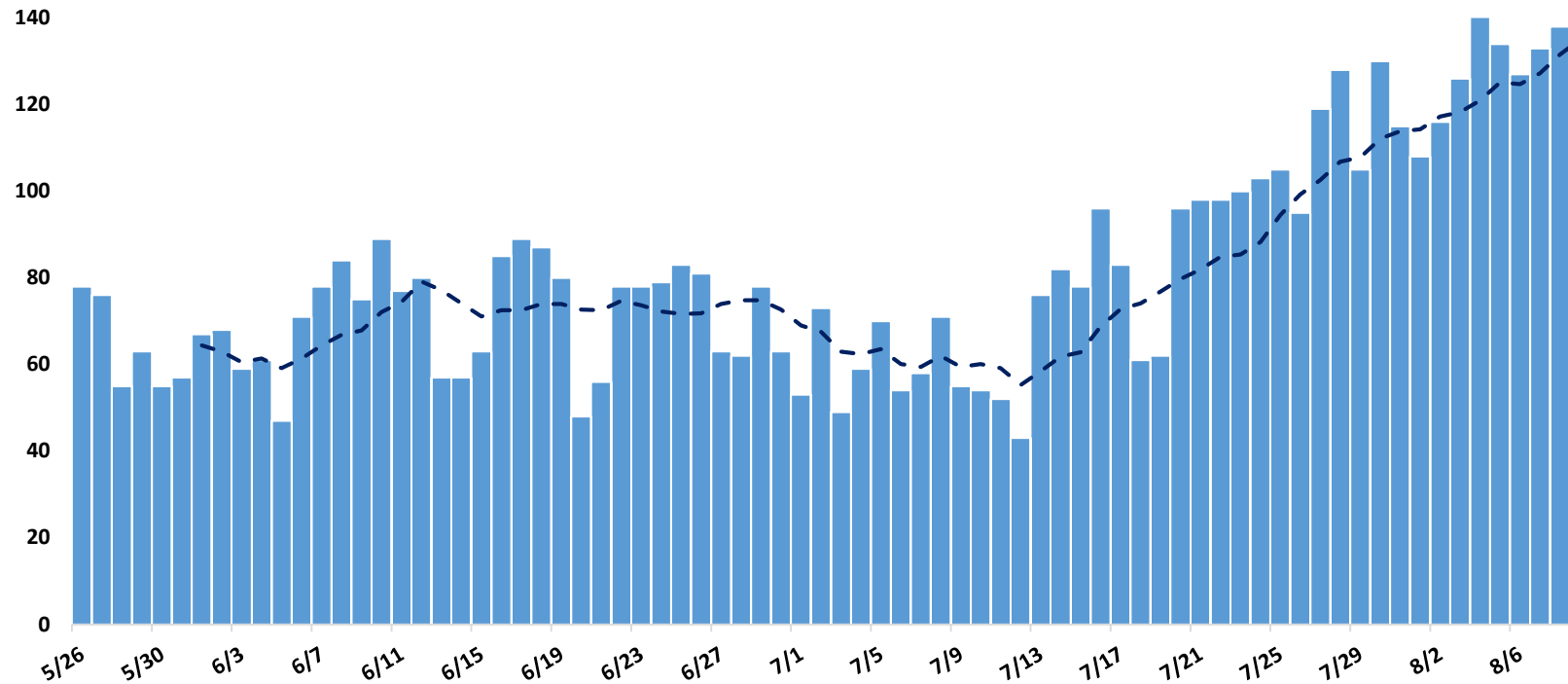
- Do we count currently contagious and burning PPE?
- Do we count currently hospitalized, suffering from the effects of covid infection?

# Hospital Trends: Flu Region 1

Flu Surveillance Regions



Hospitalized Patients with COVID-19



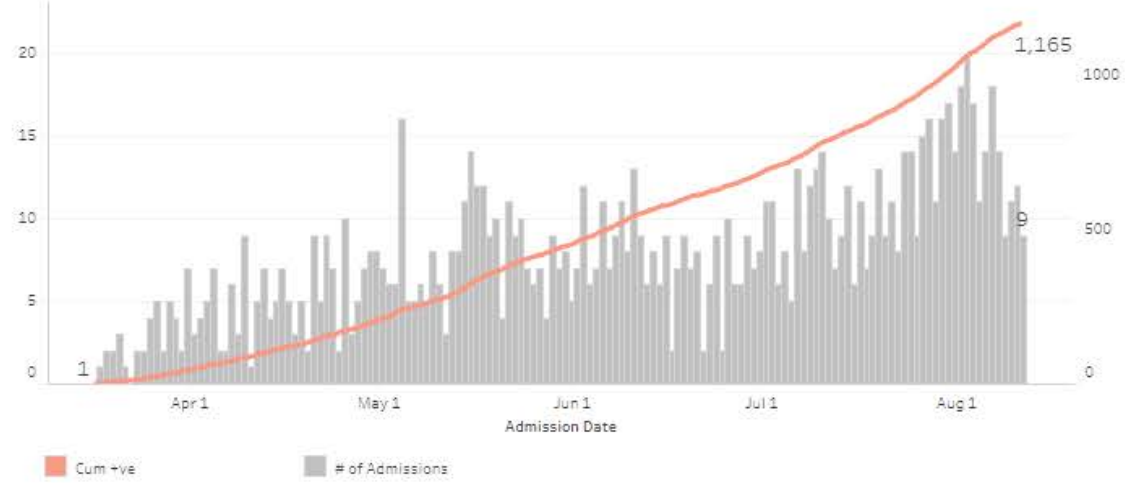
- Over the past week, the number of hospitalized patients increased in flu region 1, remained stable in regions 2, 3, 5 and 7, and decreased in flu regions 4 and 6.

Reporting Period from 03/12/2020 to 08/11/2020

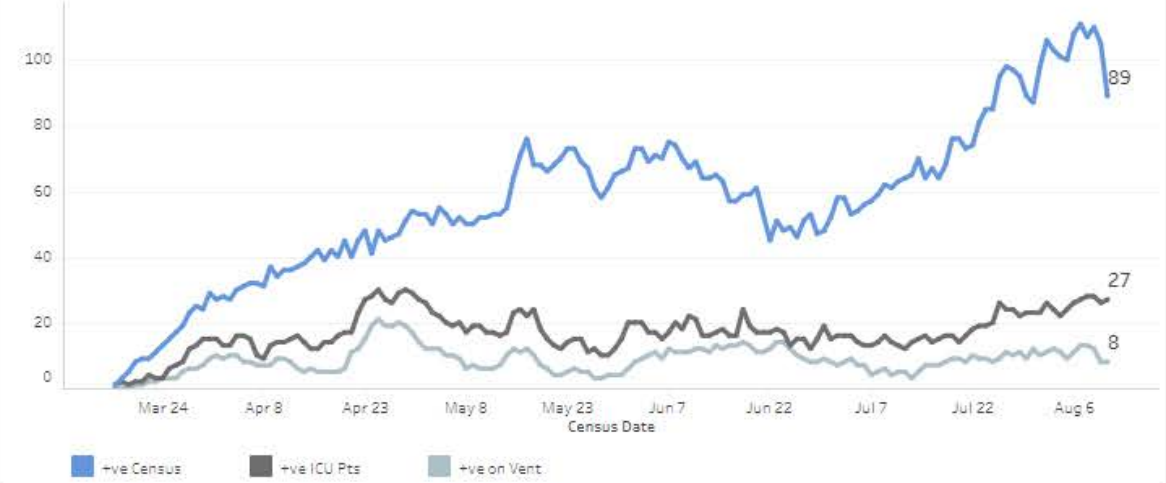
<b>9</b> Admits on Aug-11	<b>1,163</b> Total Admits	<b>995</b> Unique Patients	<b>89</b> Inhouse Patients	<b>27</b> ICU Patients	<b>8</b> Vent Patients
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- Hospital
- (All)
  - HSPC/PG
  - TOBH
  - VBEA
  - VBER
  - VCHO
  - VDUP
  - VEDG
  - VMC
  - VNOR
  - VROA

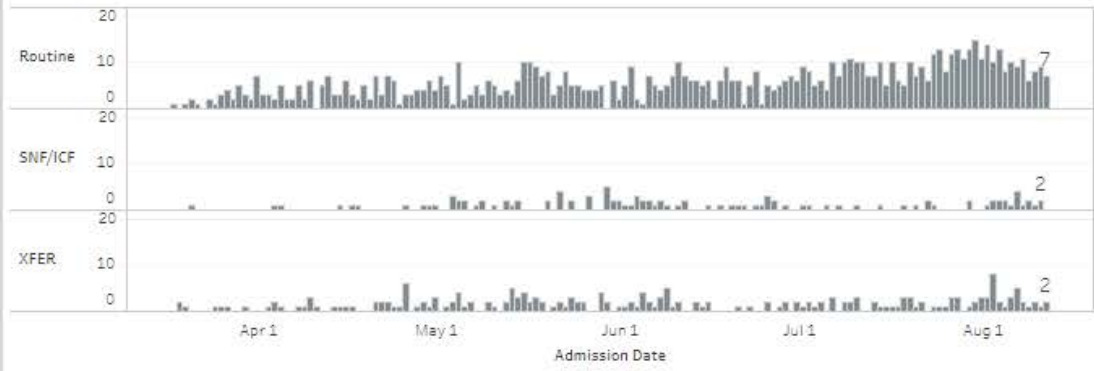
Hospital Admissions



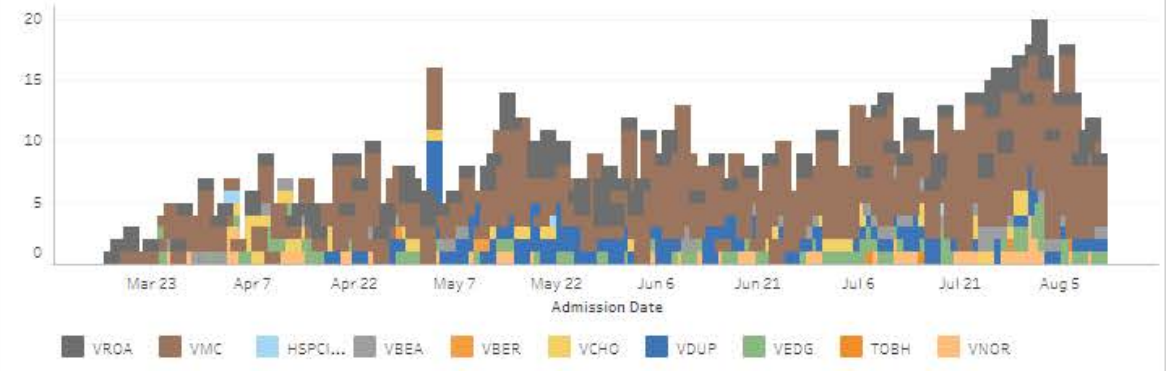
Daily Census - IP, ICU, Vent



Admissions by Admit Source



Admissions By Hospital





We each have many stories to tell

And much to learn

Thank you for being on the team!