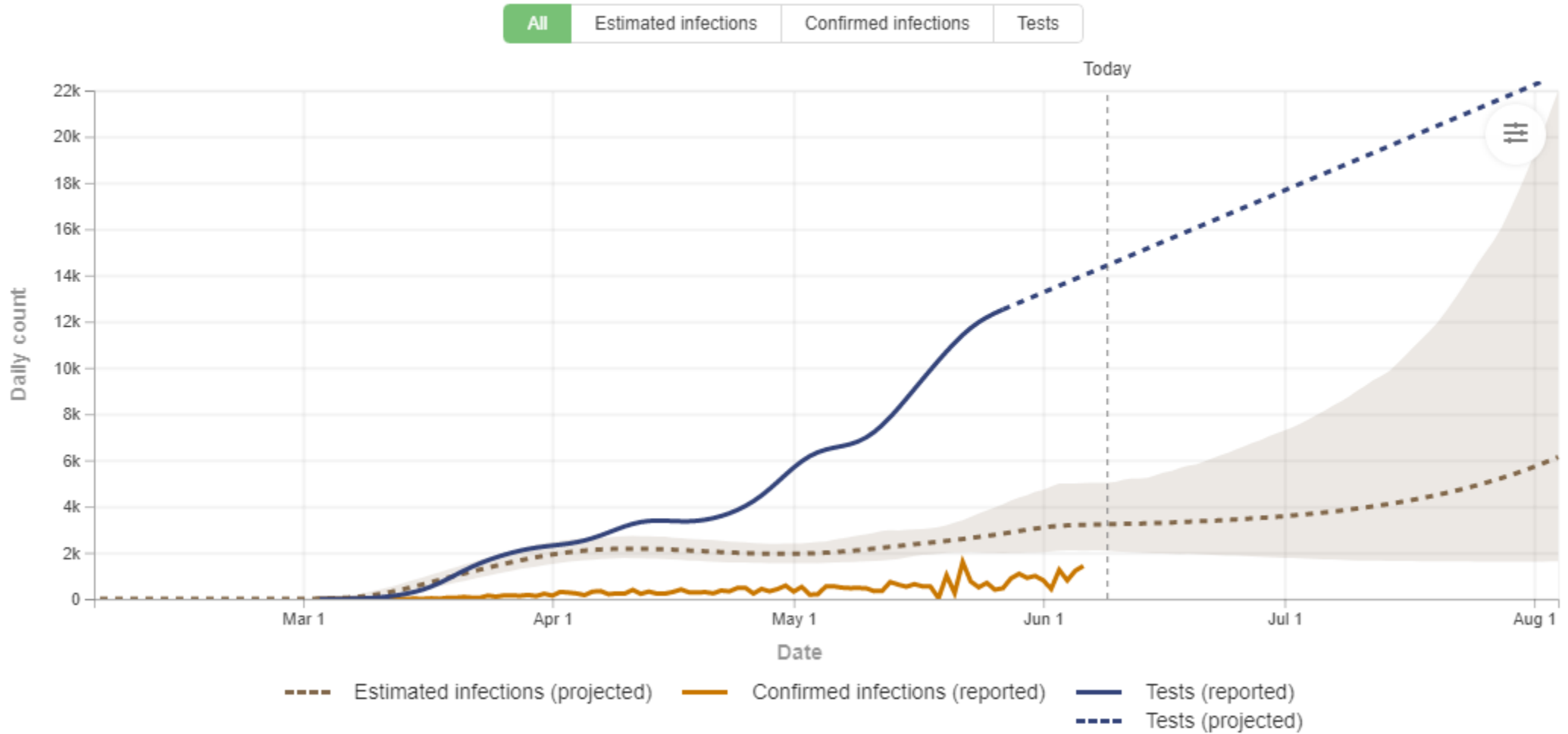


# Healthcare in the Era of SARS-CoV-2: Focus on Stroke

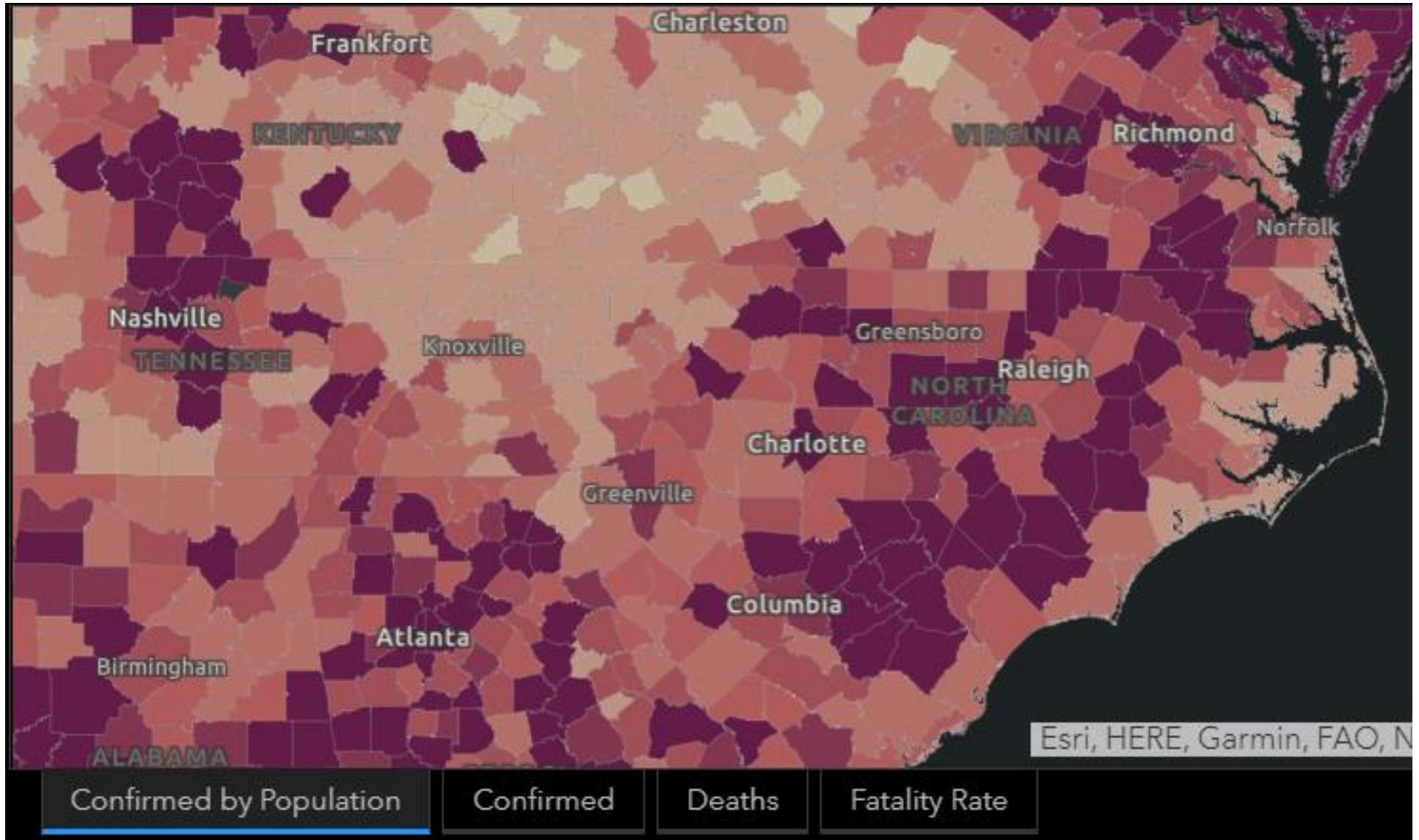


# North Carolina Data

## Daily infections and testing ⓘ

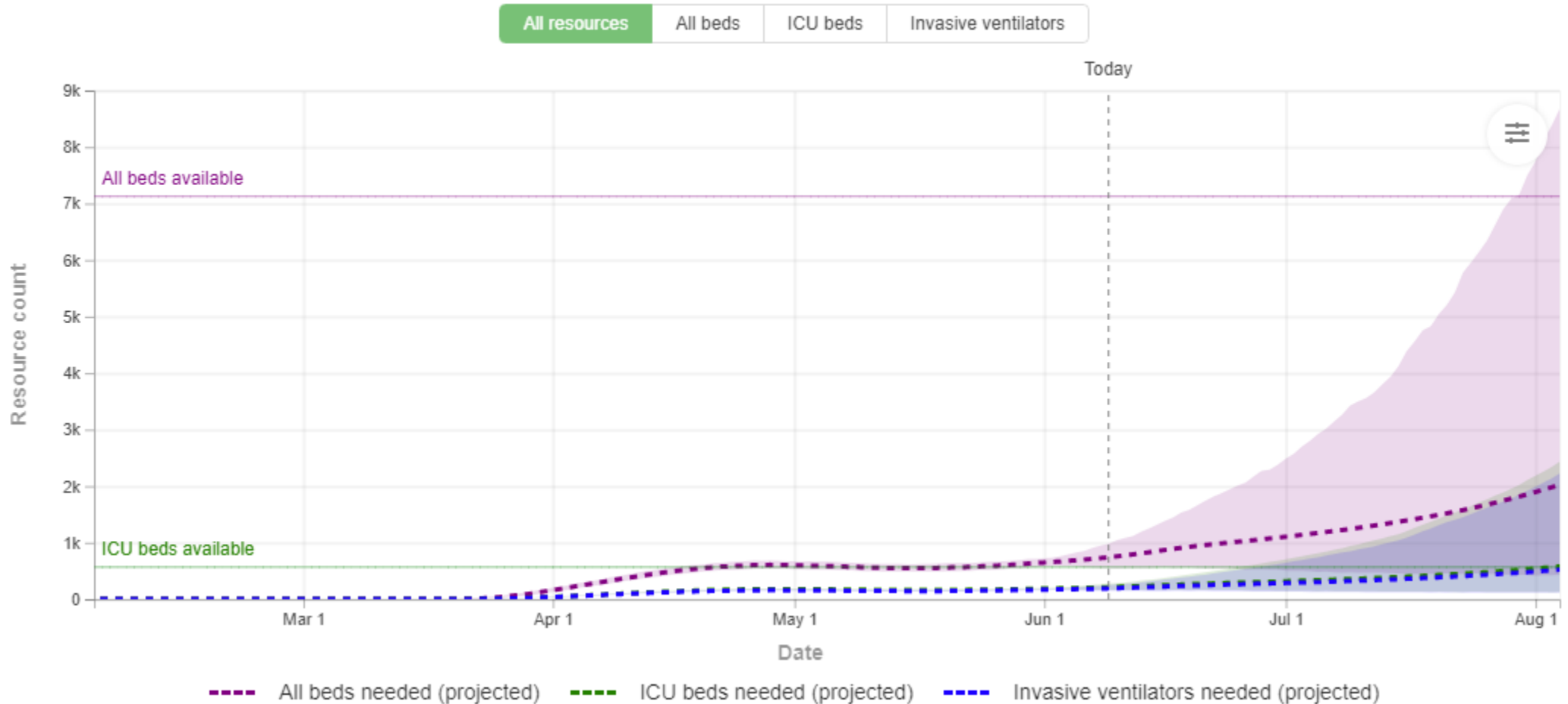


# North Carolina Data



# North Carolina Data

## Hospital resource use ⓘ



# Impact of COVID on Health and Healthcare Permanent

---

1. No aspect of human health untouched by the epidemic
2. Much of the attention on infectious disease aspect of SARS-CoV-2
3. Lasting impact on those with pre-COVID illnesses and those in need of diagnosis
4. Lasting impact on healthcare delivery and health systems
5. Lasting impact on society as a whole
6. Critical to use this opportunity to leverage for change and advocate for those who need a new way the most

# Impact of COVID on Cardio- and Cerebrovascular Disease

---

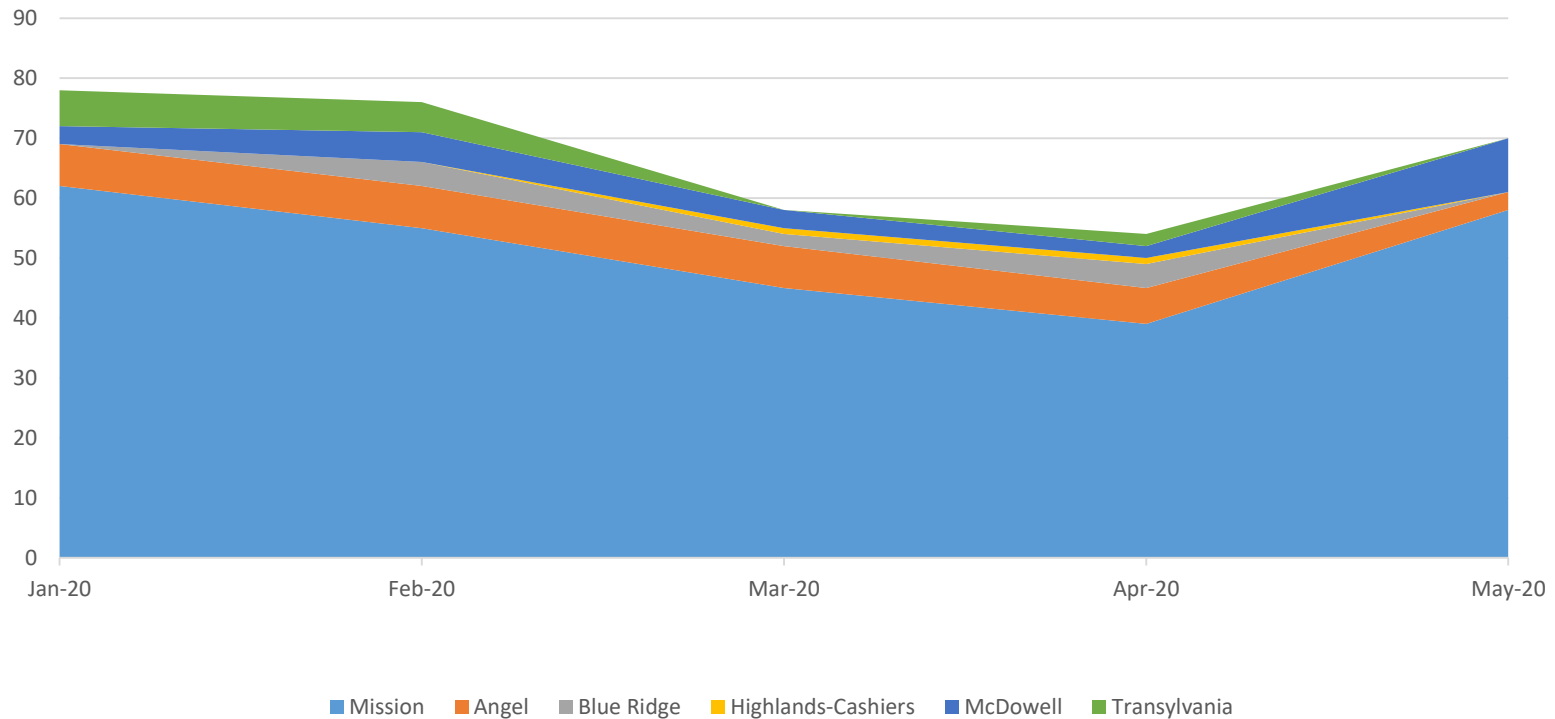
- Increased risk of “badness” with COVID infection
- Impact on primary prevention “compliance”
  - Short term
  - Long term
- Impact on secondary prevention
- Impact on acute conditions
  - Nationally, ED visits down 42%
  - VA stroke admissions down 51% for stroke
- Impact on recovery / rehabilitation
- Impact critical on clinical research

# Acute Stroke Care

## Reduced Code Stroke Activations

---

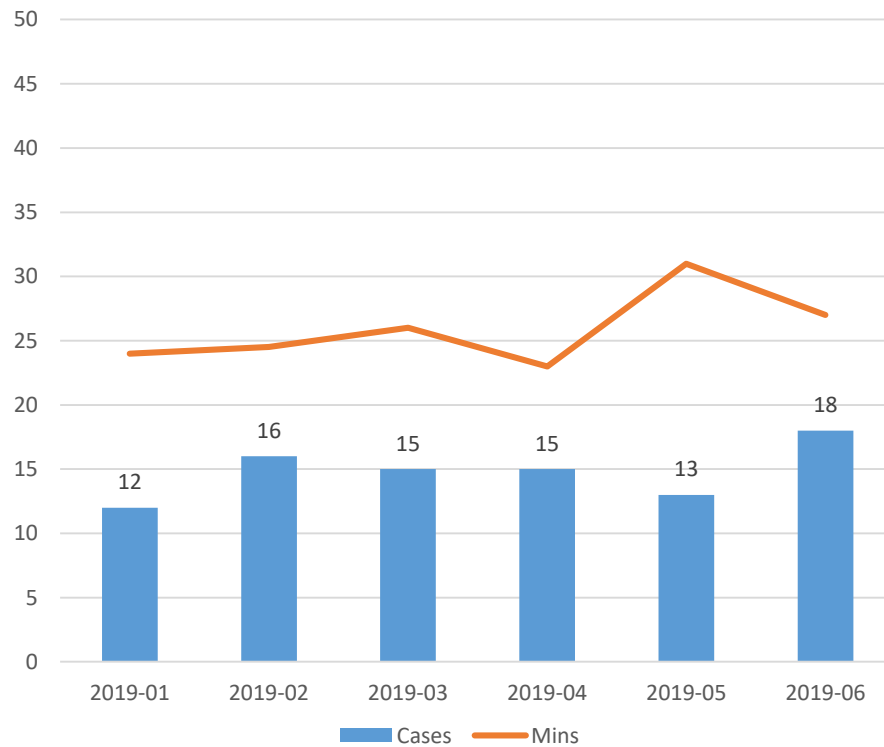
Code Stroke Activation 2020



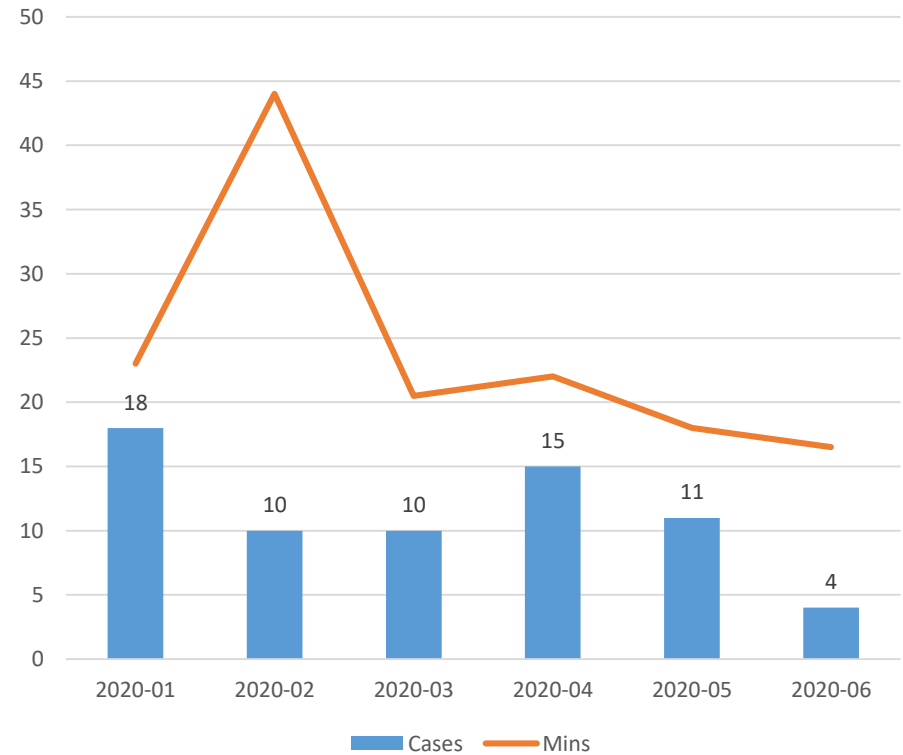
# Stable to Improved DTN times

---

IV Alteplase Treated 2019



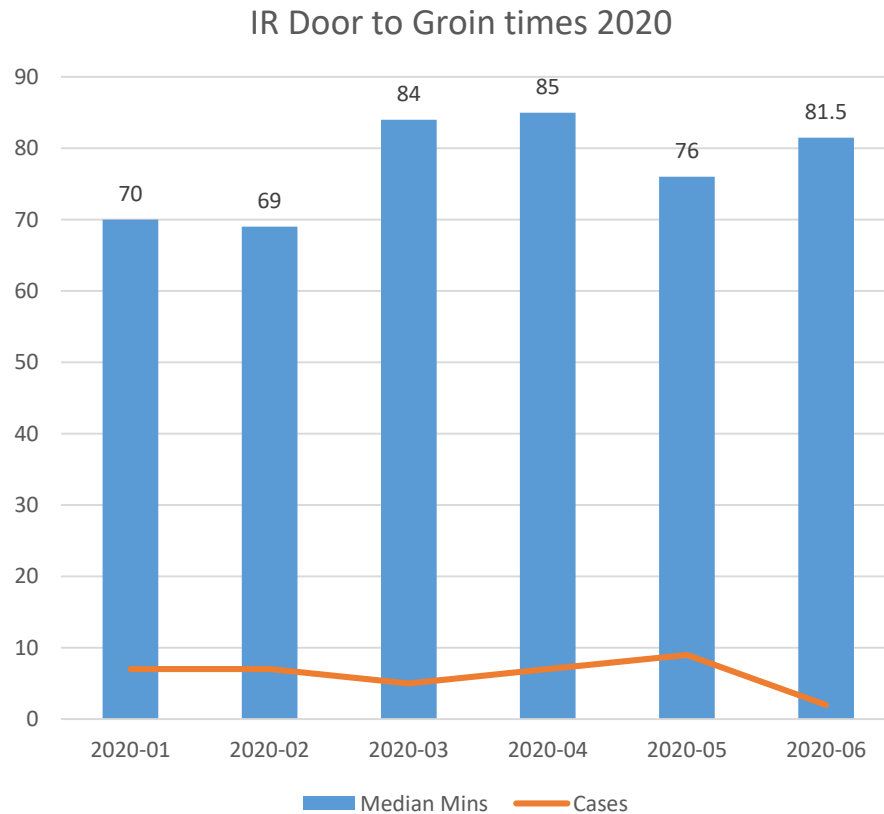
IV Alteplase treated 2020





# Slower Door to Groin Times

---

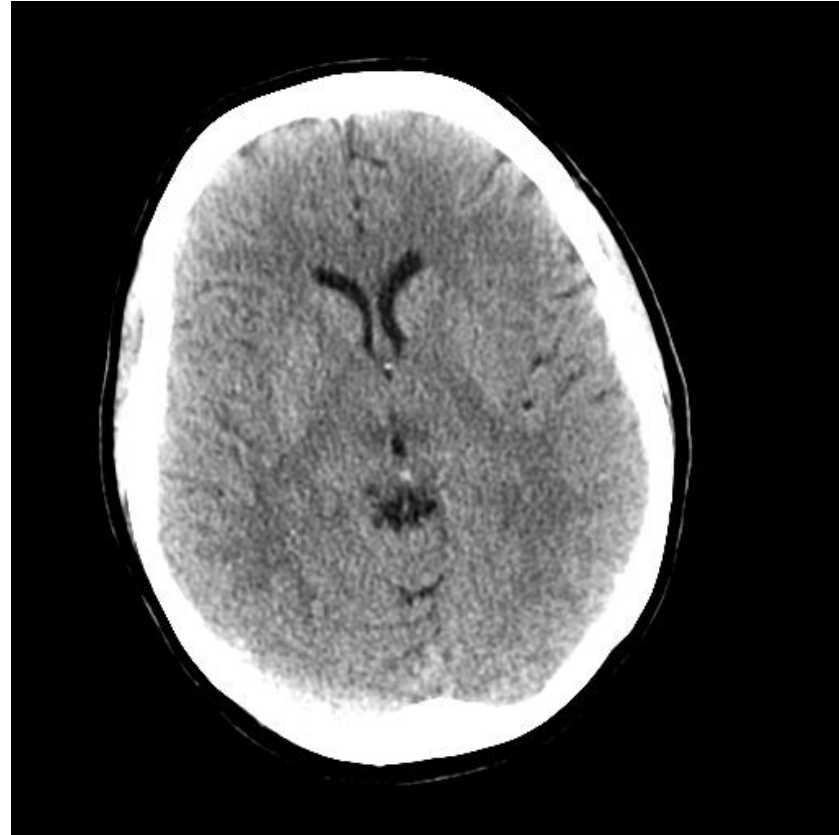


## Delays

- COVID screening
- Family presence lacking
- Decision making
- Intubation protocol and location
- Patient transport
- Stepwise vs parallel action

# Diagnostic Delays

---



Poyiadji et al. Radiology.2020

# Diagnostic/Management Delays

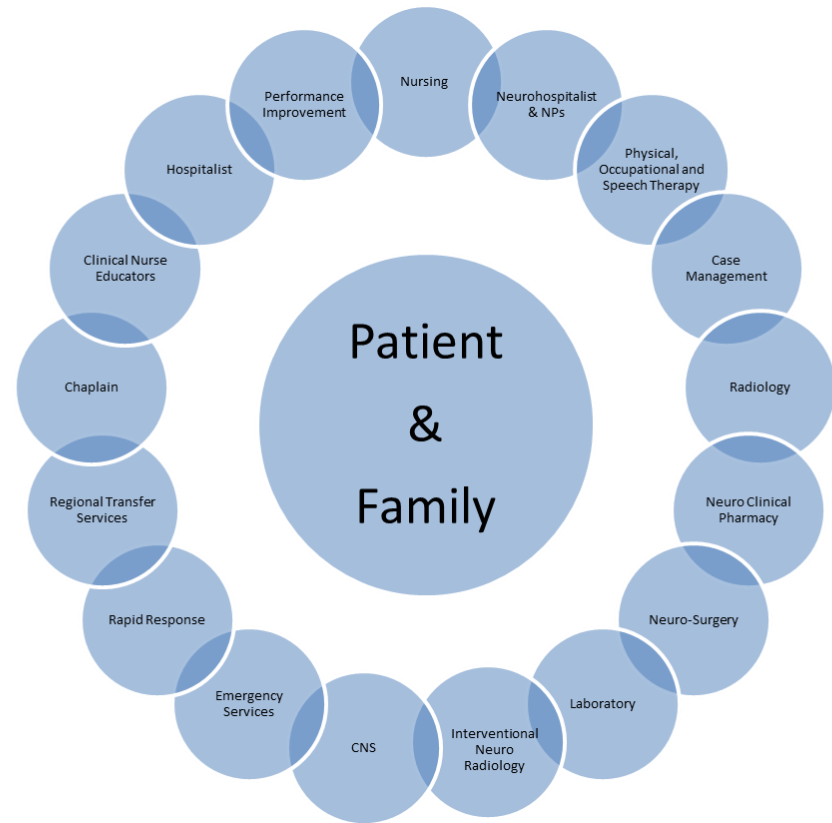
---

- Awaiting COVID testing
- Cohorting COVID and PUI patients
- Pre-elective procedure COVID testing
  - TEE, PEG, potential aerosolizing procedures
- Discharge disposition
  - Patient/family refusal for IPRH or SNF
  - SNF requiring 2 negative COVID prior to transfer

# Model of Care

---

- Virtual presence
- Post stroke navigation even more important!
- Increase touch points
- Rehabilitation options
- Support groups
- Caregiver stress



# Stroke Survivor/Caregiver Stay Home Stay Safe Kits

---



## Stay Home, Stay Safe

Your Mission Health Stroke family is thinking of you. Please enjoy these items and tips that we have put together for you during your time at home.

**Keep exercising at home: check out these websites!**

<http://strokeconnection.strokeassociation.org/Spring-2019/At-home-Exercises-for-Stroke-Survivors/>  
<https://www.flintrehab.com/2020/stroke-exercises/>



Inside your care package:

- ✓ You will find a squeeze ball for your hand exercises and stress
- ✓ A towel to keep your hands dry after washing them for the 10,000 time
- ✓ A wooden car that you can roll on a wall or table to work out your arms and range of motion

**Keep your mind engaged:**

- ✓ Read daily or try journaling
- ✓ Use the included puzzles, coloring pages and cards



**Eat Healthy: check out this website and try something new**

😊

<https://recipes.heart.org/en>

- ✓ Stay hydrated

**Tips for stress:**

- ✓ Positive self-talk
  - Instead of "I have to stay home" try "I get to stay home and safe today"
  - Instead of "everything is wrong" try "I can handle this one step at a time"
  - Instead of "I feel helpless and alone" try "I can reach out and get help when I need it"
- ✓ Deep breathing or meditation and feel every part of your body relax
- ✓ Listen to music
- ✓ Laugh; watch something funny



General tips for safety with COVID-19 and chronic conditions

<https://www.heart.org/en/about-us/coronavirus-covid-19-resources>

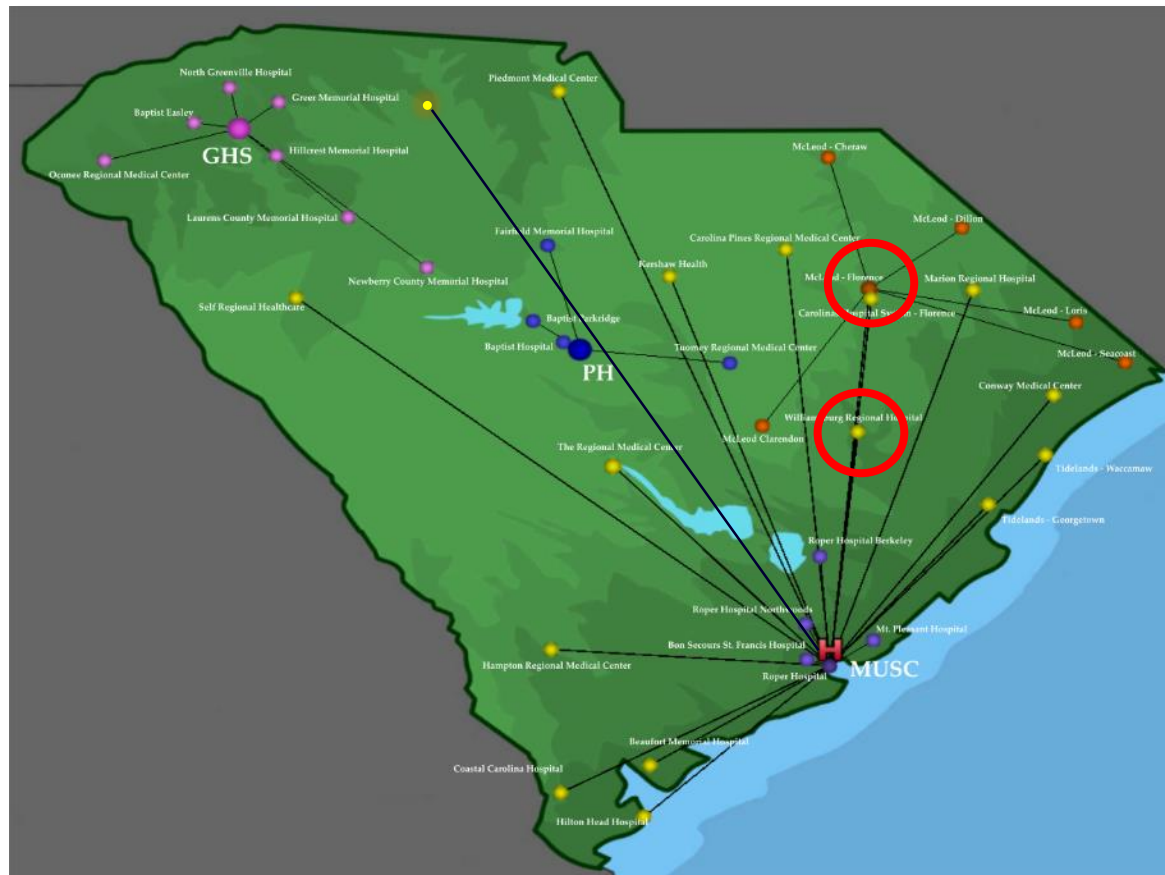
# Future Strategies

---

Discussion

# South Carolina Telestroke Alliance

---



## 28 MUSC Partner Hospitals

- 4,702 – Hospital Beds
- 925,000 Annual ED Visits
- 14 Certified Primary Stroke Centers
- 4 hospitals applying for Acute Stroke Ready designation
  - Smallest - 25 beds
  - Largest - 540 beds
- Exam only through full CTA/CTP