

# NeoQIC Collaborative Webinar #6

## Caring for Newborns Impacted by COVID-19: Wrap Up

June 24, 2020, 2p-3p

*Please mute yourself!*

*Chat in your name, organization in chat box*

*(and email address if you are not on our distribution list)*

*Chat in questions and comments in chat box*

# Agenda

- Welcome and introduction
- Updates on Massachusetts Data
- Disparities in Perinatal COVID-19
- Lessons Learned and Silver Linings
- Wrap up and next steps

# Updates on Massachusetts Data

Munish Gupta, MD, MMSc

# National data

- AAP SONPM registry
- Numerous Massachusetts hospitals already participating!
- Weekly updates to data every Friday
- Link on NeoQIC site

<https://my.visme.co/view/ojq9qq8e-npc-19-registry>

# Some Massachusetts data

- Selected data (voluntary sharing)
- Newborns with COVID-19 positive parent or newborns that are COVID-19 positive
- Needed at least 5 to share data

# COVID-19+ Parent or Newborn

Hospital	Number
Beverly*	9
Beth Israel*	32
Boston Medical Center*	28
Brigham and Women's*	37
Cambridge Health Alliance*	10
Lowell General*	8
Newton Wellesley*	6
South Shore*	5
Steward System*	21
Winchester	3
Total	173

\* Included in subsequent slides

# Some demographics

Male	47%
Female	53%
< 32 weeks	5%
32-35 weeks	9%
36+ weeks	86%
C-section delivery	42%
Vaginal delivery	58%

SONPM: 42% c-section

# Inclusion Reason

Mother COVID-19 positive at birth	95%
Non-birth parent COVID-19 positive at birth	0%
Either parent COVID-19 positive after birth	5%
Infant COVID-19 positive	0%
Other	
<b>Among mothers positive at birth (N=102, 62% of positive mothers):</b>	
Mother symptomatic	40%
Mother asymptomatic	60%

SONPM: 70% of mothers asymptomatic



# Location of Care

Same room as mother for all	50%
Same room as mother for part	10%
Separate room from mother throughout	40%
<b>Among separated, reason:</b>	
No separation	49%
Hospital policy	20%
Maternal illness	0%
Family preference	9%
Infant status	21%

SONPM: 48% rooming-in

# Breastmilk

No mother's milk	25%
Any breastfeeding	52%
Any expressed milk without breastfeeding	23%

SONPM: 34% breastfeeding

# Infant COVID-19 testing

Positive	2%
Negative	83%
Not tested	13%
Tested and pending	2%

SONPM: 3.5% of infants positive

# Infant Status at Discharge

Home	91%
Other hospital	1%
Expired	1%
Other	2%
Unknown	5%

# Useful Resource

Search the site 

**NEWS** 



**Venezuela: Urgent Aid Needed to Combat Covid-19**

(Washington, DC) – The Venezuelan healthcare system is grossly...

[Read More >](#)

**ADVOCACY** 

[Commentaries](#)

[Press](#)

[COVID-19](#)

## COVID-19, Maternal and Child Health, Nutrition

### COVID-19, Maternal and Child Health, Nutrition – what does the science tell us?

A Repository

COVID-19, Maternal, and Child Health, Nutrition – what does the science tell us? is compiled by the Johns Hopkins Center for Humanitarian Health and provides an overview of what peer-reviewed journal articles currently state on COVID-19, maternal and child health (including infants), and nutrition. As the pandemic is ongoing more and more research results are published. With this service, we aim to provide the user with a snapshot of what is published with updates every few days. We hope that you will learn and benefit from the articles presented here.

*Last update posted: 23 June 2020*

*Next update expected: 26 June 2020 1 pm USA ET*

*Currently, there are almost 1000 publications in this repository (Feb: 27; Mar: 75; Apr: 212; May 348; Jun: 263)*

Publications from

- [June 2020](#)
- [May 2020](#)
- [April 2020](#)
- [March 2020](#)
- [February 2020](#)

<http://hopkinshumanitarianhealth.org/empower/advocacy/covid-19/covid-19-children-and-nutrition/>

# Recent review

- 49 studies, 666 neonates, 665 women
- 4% (28) of infants positive post-natally
  - 2.7% among vaginal, 5.3% among c-section
  - 8 had symptoms potentially related to COVID-19
  - 3 out of 28 formula fed (17 not reported)
  - 7 out of 28 isolated from mother (16 not reported)
- Conclusions:
  - Neonatal infection uncommon, rarely symptomatic, and not associated with mode of delivery or contact with mother

Walker et. al., Maternal transmission of SARS-COV-2 to the neonate and possible routes for such transmission: A systematic review and critical analysis, BJOG, June 2020.

# UK Experience

- 427 COVID-19 positive women, 3/1/20-4/14/20
- 259 births
  - 74% > 37 weeks, 90% > 32 weeks
  - 16% c-section
  - 4% (12) positive for SARS-CoV-2 (6 within 12 hours of birth)

Knight et al, Characteristics and outcomes of pregnant women admitted to hospital with confirmed SARS-CoV-2 infection in UK: national population based cohort study, BMJ, June 2020

# Massachusetts Deeper Dive?

- Proposal to use Massachusetts data from SONPM registry for deeper look at statewide practices and outcomes
- Contact Meg or Mandy for more info

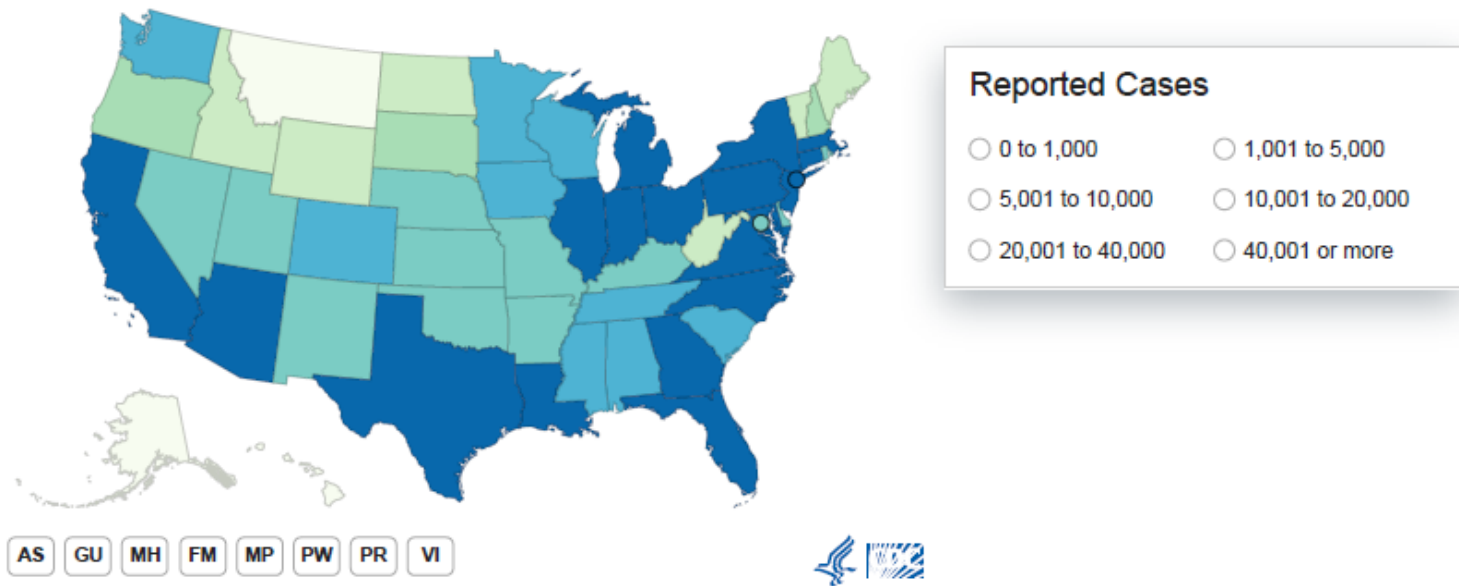


# Disparities in Perinatal COVID-19

Meg Parker, MD, MPH

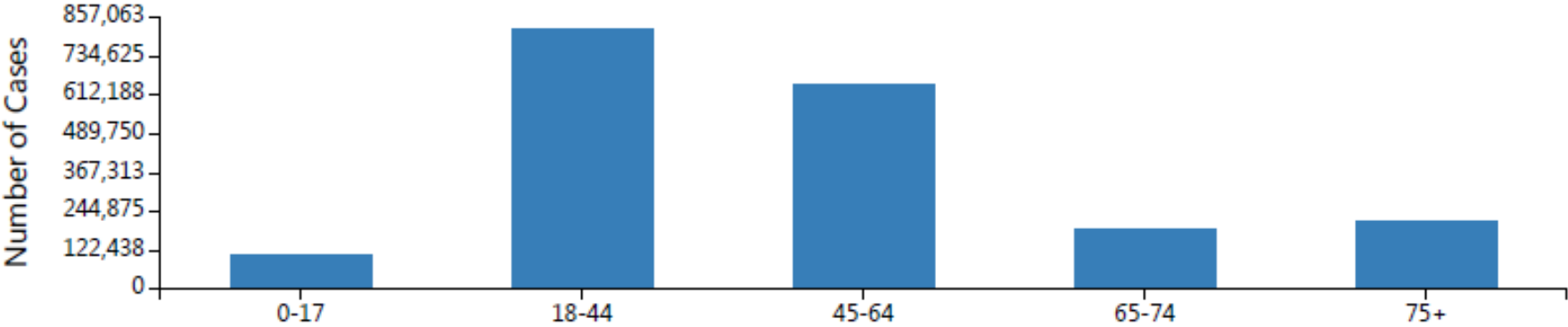
# National COVID-19 Statistics

- Massachusetts has 6<sup>th</sup> highest number of documented COVID-19 cases in the U.S.



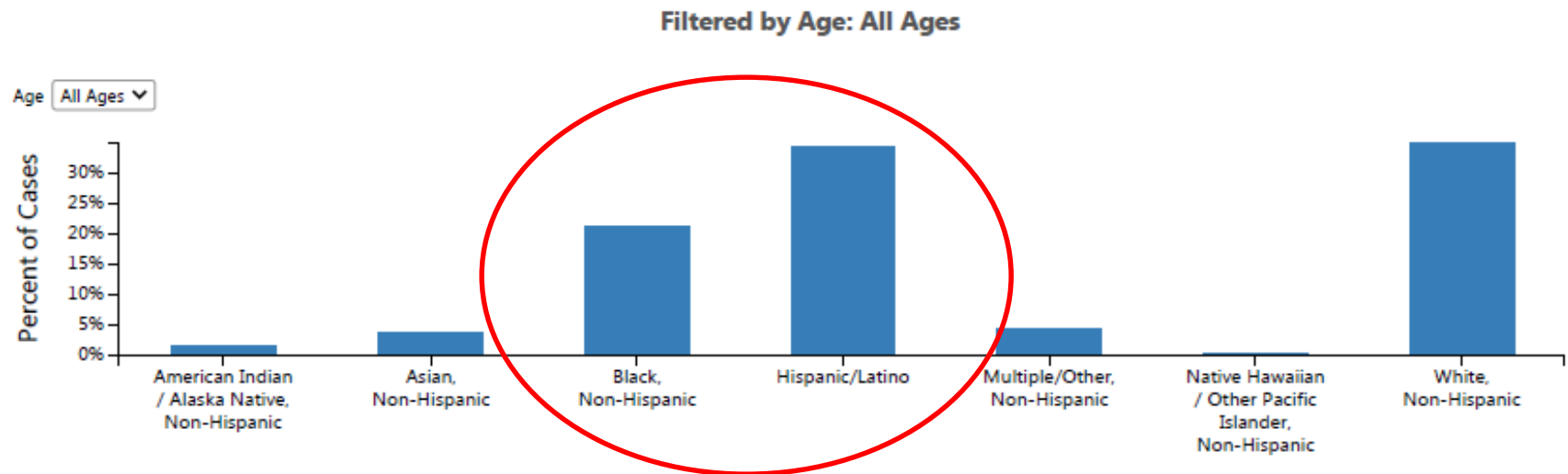
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

# National COVID-19 Cases by Age



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

# National Cases by Race/Ethnicity- ALL AGES

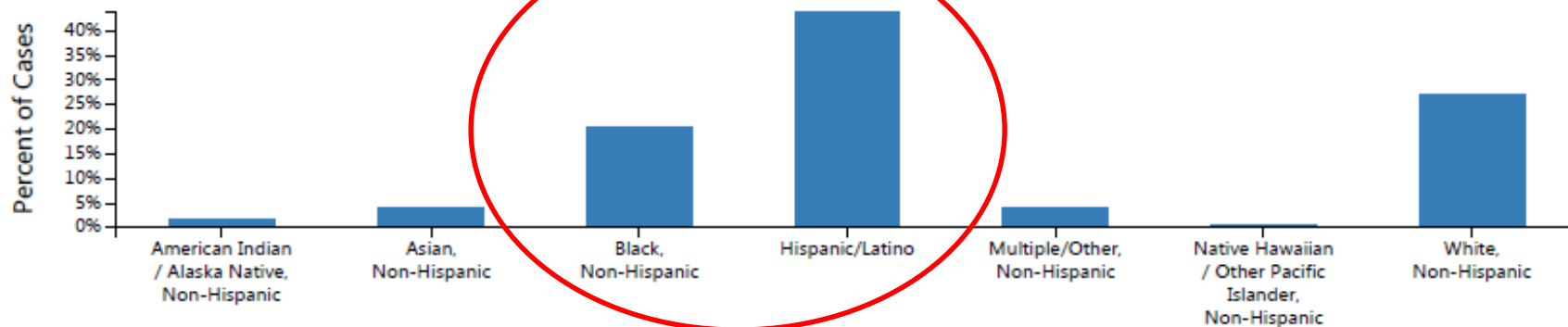


<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

# National Cases by Race/Ethnicity- Younger People

Filtered by Age: 18-44

Age 18-44

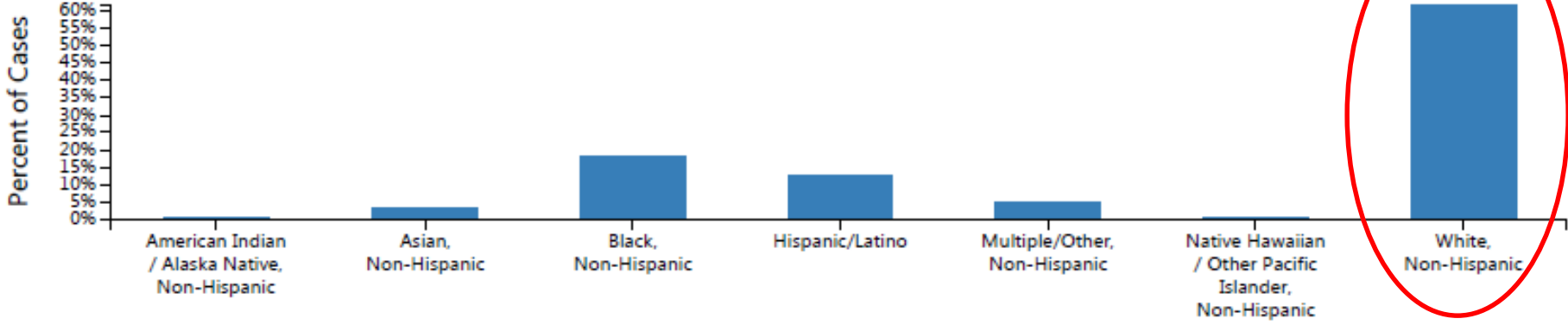


<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

# National Cases by Race/Ethnicity- Older People

Filtered by Age: 75+

Age 75+ ▾



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

# Why are NHB and Hispanics disproportionately getting COVID-19?

- Living conditions
- Work circumstances
- Underlying health conditions and lower access to care

<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/racial-ethnic-minorities.html>

# Living Conditions

- Minorities are more likely to live in densely populated areas
  - Due to institutional racism in the form of residential housing segregation
    - (Housing segregation associated with many underlying health conditions that increase chance of severe illness from COVID-19)
  - Harder to practice social distancing
- Multi-generational households more common
  - Hard to practice social distancing
- Minorities over-represented in jails, prisons, and detention centers with congregate living



# Work Circumstances

- Minorities are disproportionately essential workers
  - Examples
    - Service industry
    - Agriculture
- Lack of paid sick leaves
  - Prompt continuing to work

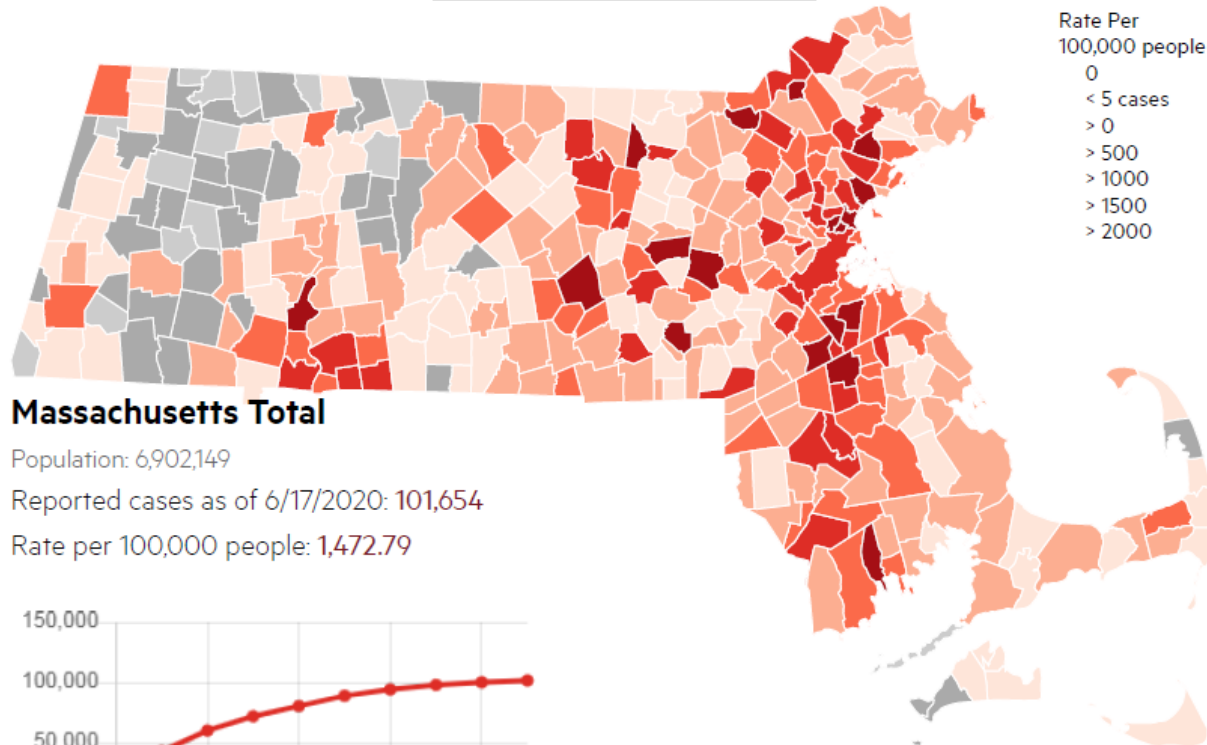
# Underlying health conditions and lower access to care

- Minorities present to medical system less often
  - Minorities more often uninsured
  - Long-standing distrust of health care system, language barriers, financial implications for missing work
- Minorities are more likely to have chronic conditions
  - Example, DM, hypertension

# Massachusetts Disparities in COVID-19

## Coronavirus Cases, By Town Or City

Select town or tap on the map:  ▼

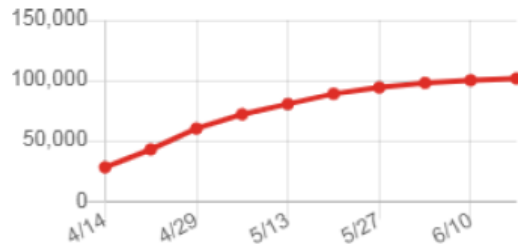


### Massachusetts Total

Population: 6,902,149

Reported cases as of 6/17/2020: 101,654

Rate per 100,000 people: 1,472.79



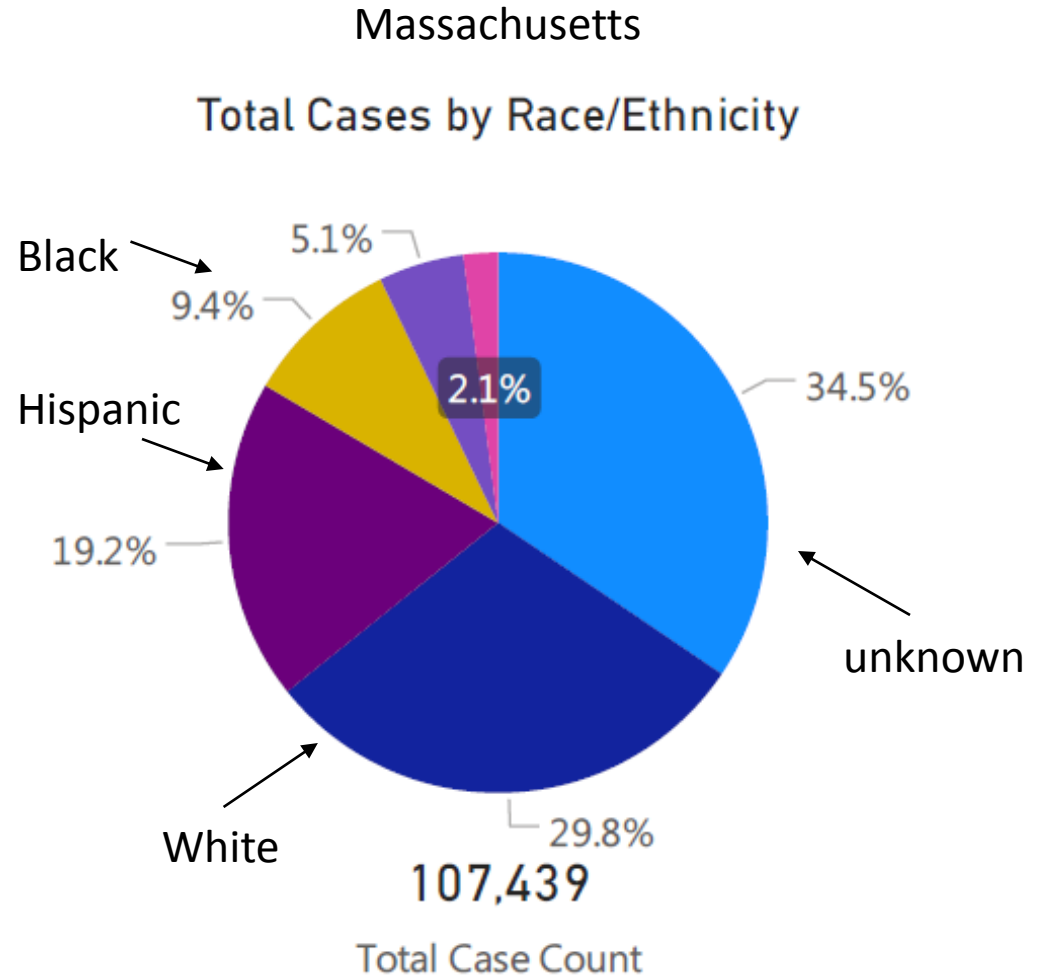
Total persons tested as of 6/17/2020: 727,549 (10.5%)

<https://www.wbur.org/commonhealth/2020/03/09/coronavirus-cases-massachusetts-map>

# MA COVID-19 Race/Ethnicity

## Breakdown

- Boston
  - 4% Asian
  - 37% Black/African-American
  - 27% Latinx/Hispanic
  - 7% Other
  - 25% White



<https://www.mass.gov/doc/covid-19-dashboard-june-23-2020/download>

# National COVID-19 Perinatal Disparities

- June 21: 192 centers, 1106 dyads
- Race/ethnicity of COVID-19 + mothers:
  - 29% Black
  - 45% Hispanic

<https://my.visme.co/view/ojq9qq8e-npc-19-registry>

# What can be done among public health professionals?

- Implement standardized protocols in accordance with professional organization guidance and quality improvement initiatives
- Identify and address implicit bias that may hinder patient-provider interactions and communication
- Provide medical interpretation services

<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/racial-ethnic-minorities.html>

# What can be done among public health professionals?

- Work with community partners to reduce cultural barriers to care
- Connect patients with community resources
- Learn about social and economic conditions that may put some patients at higher risk for getting sick with COVID 19
  - For example, conditions that make it harder for some people to take steps to prevent infection
- Promote a trusting relationship by encouraging patients to call and ask questions

<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/racial-ethnic-minorities.html>

**Thank you**



# Lessons Learned and Silver Linings

Munish Gupta, MD, MMSc

# Next steps

- Hospital resources – please continue to share!
- This is the last webinar in the NeoQIC COVID-19 series

# Other NeoQIC Projects

- Perinatal Opioid Project- Munish Gupta and Ron Iverson
- Respiratory Care Collaborative- Helen Healy
- Disparities and Family Engagement- Meg Parker

# Plug for Sharing of AAP Registry Data

- Strong interest to pool MA wide AAP registry data to conduct population-level analysis
- Several people have expressed interest
- Looking for investigator willing to take lead in a short time on this project with support from Meg Parker/Mandy Belfort

# MA Department of Public Health

## Updates

- Data collection forms to capture follow-up care of perinatal COVID-19 cases