



**RUTGERS**  
BIOMEDICAL AND  
HEALTH SCIENCES

# **Rutgers Biomedical & Health Sciences: Report to the University Senate**

Brian L. Strom, MD, MPH

Chancellor Rutgers Biomedical & Health Sciences

Executive Vice President for Health Affairs

December 11, 2020

# **RBHS Report to the University Senate**

- Progress Report
- COVID-19 Update

# RBHS Report to the University Senate

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# My Goal as RBHS Chancellor

To build one of the best academic health centers in the country, with an emphasis on *one*.





## RBHS Strategic Plan

- Goal: build one of the best academic health centers in the country
- Focus on RBHS-wide complementary activities
- Developed with input from more than 5,000 faculty, staff, and students (surveys and working groups)
- Process underway to review and revise the strategic plan



# RBHS Strategic Plan 2014-2019

## **Signature Research Programs**

- Cancer
- Environmental and Occupational Health
- Infection and Inflammation
- Neuroscience
- Community Health and Health Systems (Emerging Signature Program)

## **Complementary Research Programs**

- Clinical Research
- Drug Discovery and Development
- Informatics
- Public Health (including Global Health)

## **Other Research-related Areas**

- Novel Approaches to Teaching
- PhD Programs in Biomedical Sciences
- Reorganizing the Basic Sciences across Rutgers
- Roles of Centers and Institutes
- Advancing Institutional Stature
- Faculty Development
- Administrative Challenges
- Financial Improvement Strategies
- Additional Integrative Activities

# 2020 Strategic Plan Steering Committee

- Andy Anderson - CEO, RWJBarnabas-Rutgers Medical Group
- Joseph Barone - Dean and Professor EMSOP
- Sylvia Christakos (Co-Chair) Distinguished Professor, NJMS
- Karen D'Alonzo - Associate Professor SON
- Cecile Feldman – Dean and Professor RSDM
- Bruce Haffty – AVC for Cancer Programs, Professor CINJ
- Zach Hosseini - AVC for Marketing and Communications RBHS
- Shawna Hudson - Research Division Chief and Professor RWJMS
- Teri Lassiter - Assistant Dean and Assistant Professor SPH and RBHS  
Faculty Council Representative
- Gwendolyn Mahon (Co-Chair) - Dean and Professor SHP
- Reynold Panettieri – VC Translational Medicine, Professor RWJMS
- Pamela Valera - Assistant Professor SPH
- Kyle Warren - Senior Vice Dean SON

# **RBHS Strategic Plan 2021-2026 [draft]**

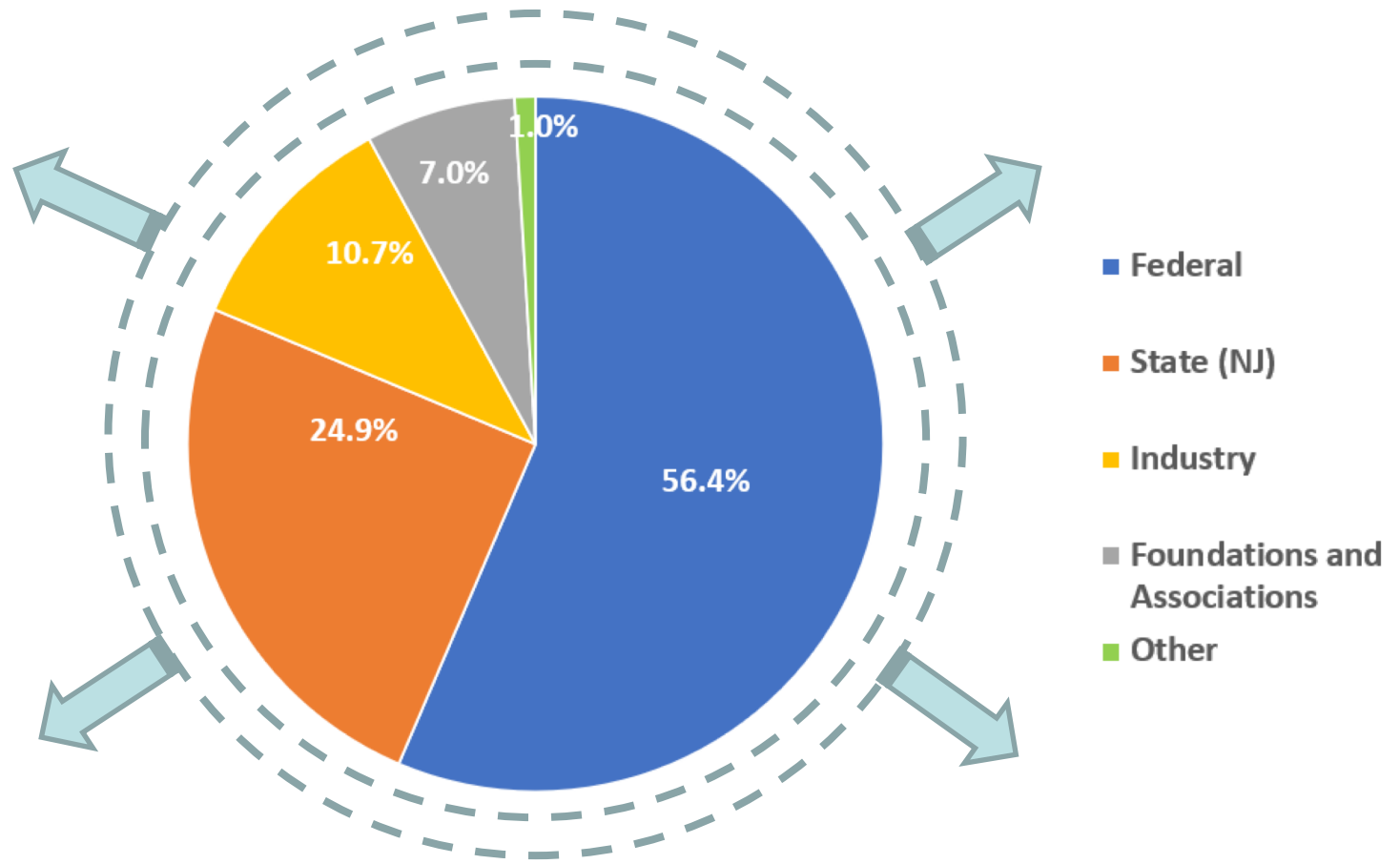
## **Research IDEA (Marty Blaser and Rey Panettieri, Co-chairs):**

- Inclusion
- Diversity
- Engagement
- Aspiration

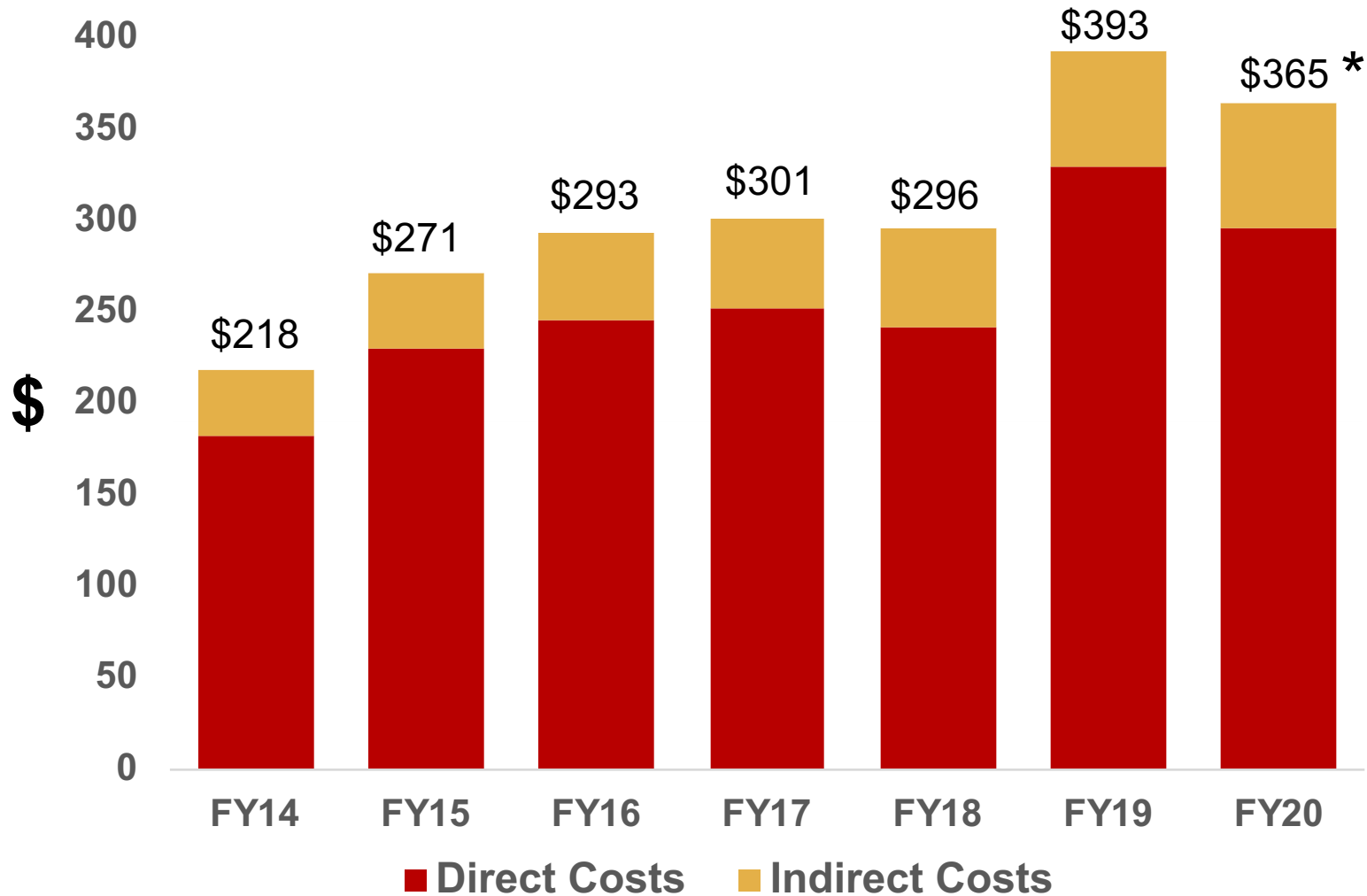
## **Important Topics (Population, Biology, Tools)**

- Population Health
  - a. Maximize health in NJ's diverse population
  - b. Life cycle science
  - c. Early life exposures and health outcomes
- Single cell studies
- Cancer and degenerative disease biology
- Immunopathogenesis
- Informatics
- Microbiome

# RBHS Funding Sources FY2020



## RBHS Awards FY 14 – FY 20 (in \$ millions)



\* FY20 research awards show a 13.4% increase in NIH grants, 13.9% decrease in state grants, and 42.1% decrease in corporate grants. Major State of NJ contact tracing grant for SPH is not reflected in these totals due to the timing of the award.

# Competitive Submissions & Awards

## FY Q4 19/20

Competitive Submissions		Awards	
FY19 Q4 YTD	\$471,851,611	FY19 Q4 YTD	\$392,607.115
Federal	262,913,479	Federal	158,200,550
State	114,454,506	State	117,818,855
Corporate	34,168,559	Corporate	68,383,885
FY20 Q4 YTD	\$477,361,295	FY20 Q4 YTD	\$364,229,748
Federal	284,902,164	Federal	173,946,699
State	90,987,716	State	101,418,974
Corporate	33,633,728	Corporate	39,620,365

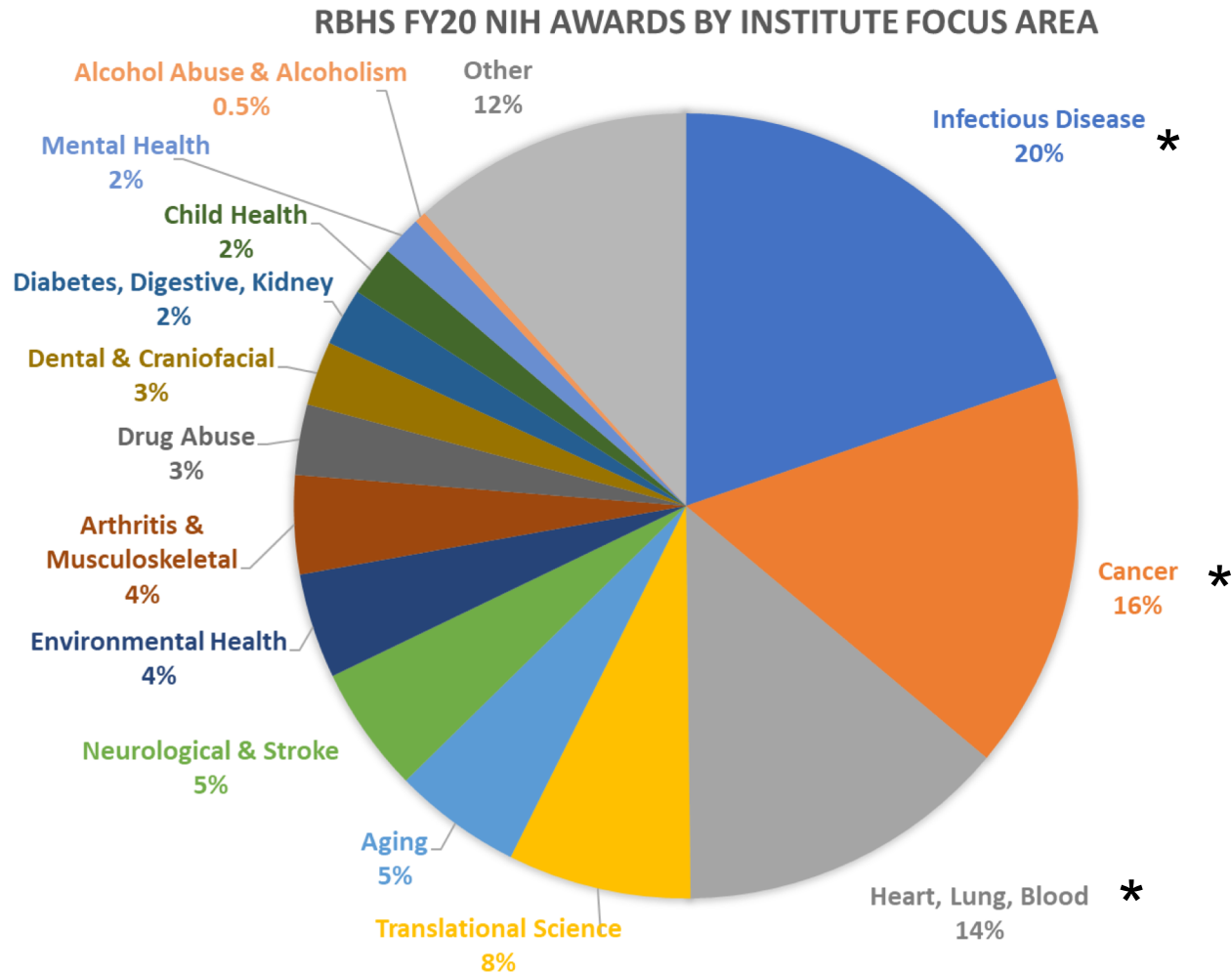
# Competitive Submissions & Awards

## FY Q1 20/21

Competitive Submissions		Awards	
FY20 Q1 YTD	\$81,867,805	FY20 Q1 YTD	\$93,478,373
Federal	52,072,687	Federal	49,840,625
State	8,933,874	State	26,365,274
Corporate	5,858,679	Corporate	6,344,388
FY21 Q1 YTD	\$139,581,265	FY21 Q1 YTD	125,707,418
Federal	69,537,278	Federal	64,237,275
State	6,404,895	State	32,506,122
Corporate	35,550,308	Corporate	11,993,483



# RBHS FY20 NIH Awards by Focus Area



# RBHS Research Highlights FY18-20

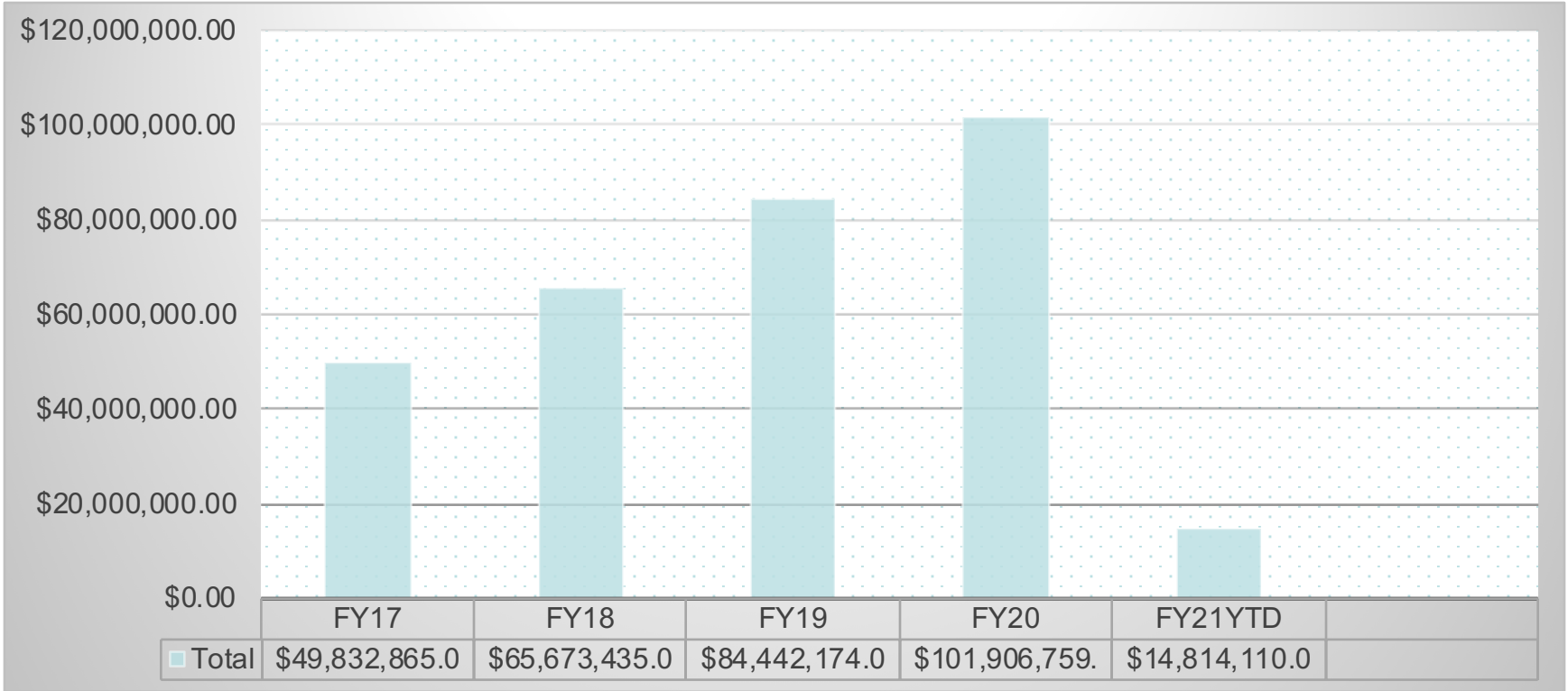
- Overall, **NIH Awards increased by 39.2%** comparing FY18 to FY20
- Cancer Institute of NJ (CINJ) successfully retained their designation as **NJ's only NCI Comprehensive Cancer Center**
- Rutgers **Microbiome Program** established a collaboration of renowned scientists led by Martin Blaser, MD
- **Brain Health Institute** established to expand neurosciences research
- Environmental and Occupational Health Sciences Institute (EOHSI) awarded more than **\$10M over 5 years for the Rutgers Center for Environmental Exposure and Disease (CEED)**, one of 23 NIH-funded Environmental Health Sciences Core Centers (P30) in the U.S. for the last 32 years

# NJACTS Research Highlights

- New Jersey Alliance for Clinical and Translational Science (NJACTS) was awarded the first NJ-based CTSA award of **\$41M over 5 years**
- NJACTS provided samples that enabled RUCDR to establish the first Emergency Use Authorization (EUA) for saliva testing approval for SARS CoV-2 in the U.S.
- NJACTS established two Health Care Worker Cohorts including over 6,000 participants to discover COVID-19 susceptibility attributes in first responders that have received **over \$11M in NIH supplemental awards**
- Dr. Shawna Hudson was awarded an **NIH award of \$6M over 2 years** to implement novel testing approaches for COVID-19 in vulnerable populations for NJ HEROES TOO



# RBHS Development Dollars Raised



\*FY19 and FY20 totals do not include a \$25M gift in each year from RWJBarnabas Health as a result of the partnership.

# 2016 - Recruits are coming to RBHS from:

MAYO  
CLINIC



Memorial Sloan Kettering  
Cancer Center™



UPMC

University of Pittsburgh  
Medical Center



EINSTEIN

Albert Einstein College of Medicine



HARVARD  
UNIVERSITY



Penn Medicine



College of Medicine  
UNIVERSITY of FLORIDA



JOHNS HOPKINS  
MEDICINE  
SCHOOL OF MEDICINE



THE UNIVERSITY OF  
CHICAGO  
MEDICINE



MUSC  
MEDICAL UNIVERSITY  
of SOUTH CAROLINA



FOX CHASE  
CANCER CENTER

TEMPLE HEALTH



RUTGERS

# 2020 -Leaders are coming to RBHS from:

MAYO  
CLINIC



RUSH

LSU Health  
SHREVEPORT



HARVARD  
UNIVERSITY



COLUMBIA  
UNIVERSITY



Memorial Sloan Kettering  
Cancer Center™

THE UNIVERSITY OF  
NEW MEXICO



The Children's Hospital  
of Philadelphia®



NYU



JOHNS HOPKINS  
MEDICINE  
SCHOOL OF MEDICINE



THE UNIVERSITY OF  
CHICAGO  
MEDICINE

Montefiore

Tufts Medical  
Center



University of Pittsburgh  
Medical Center



Duke Medicine



College of Medicine  
UNIVERSITY OF FLORIDA



MUSC  
MEDICAL UNIVERSITY  
of SOUTH CAROLINA



Albany Medical Center



Penn Medicine



NATIONAL  
CANCER  
INSTITUTE



Albert Einstein College of Medicine



RUTGERS  
School of Nursing



FOX CHASE  
CANCER CENTER  
TEMPLE HEALTH



UC San Diego  
SCHOOL OF MEDICINE



Icahn School of  
Medicine at  
Mount  
Sinai



Yale University  
School of Medicine



UTHealth®  
The University of Texas  
Health Science Center at Houston

McGovern  
Medical School

# School of Nursing Dean Appointment

- Linda Flynn, PhD, RN, FAAN appointed permanent Dean of the Rutgers School of Nursing on July 1, 2020
- Dr. Flynn has served RBHS and the School in the role as Interim Dean since September 1, 2019
- She is a tenured professor and formerly the Senior Associate Dean of Nursing Science at Rutgers School of Nursing
- A proud alumna of the SON – she received both her MS and PhD at the school.
- In recognition of her accomplishments, Dr. Flynn was named an Outstanding Alumni Award in 2015
- She received her BS in Nursing from the University of Maryland



**RUTGERS**  
School of Nursing





## Vice Chancellor Graduate Medical Education

- Dr. Sherry Huang appointed as the inaugural Vice Chancellor for Graduate Medical Education and Enterprise Wide Designated Institutional Official (DIO)
- Will oversee GME programs with 1,600+ residents/fellows across RBHS/RWJBH, under the Rutgers Health Sponsoring Institution
- Pediatric gastroenterologist from University of California San Diego
- Research focus on pediatric colon cancer genetics and early risk colon cancer; has received extramural grant funding from NIH





# Honorific Societies – New RBHS Members

- As of 2020, 174 members of the RBHS faculty have been selected to join 21 prestigious honorific societies spanning the health professions and scientific disciplines
- 20 additional RBHS Faculty joined the following honorific societies this year including:

**American Academy of Arts & Sciences**

**American Academy of Nursing**

**American Association for the Advancement of Science**

**American Association of Physicians**

**American Society for Clinical Investigation**

**American Surgical Association**

**Delta Omega**

**Honorary Fellows of American Physical Therapy Association**

**Honorary Fellow of the Psychiatric Rehabilitation Association**

**New York Academy of Medicine**

**Society for Pediatric Research**

# **RBHS “Top Docs”**

99 RBHS physicians recognized as “Top Docs” by Castle Connolly

**Plastic & Reconstructive  
Surgery  
Hand Surgery  
Pathology  
Cardiac Electrophysiology  
OB/GYN  
Urology  
Pediatrics  
Neurology  
Orthopaedic Surgery  
Pulmonology  
Rheumatology  
Pediatric ID  
Gynecologic Oncology  
Otolaryngology  
Internal Medicine  
Psychiatry**

**Vascular Surgery  
Clinical Genetics  
Endocrinology  
Reproductive Endo./Infertility  
Colorectal Surgery  
Neonatal/Perinatal Medicine  
Family Medicine  
Hematology  
Adolescent Medicine  
Gastroenterology  
Cardiovascular Disease  
Ophthalmology  
Dermatology  
Cardiothoracic Surgery + more**



**CASTLE CONNOLLY**  
**TOP DOCTORS®**

# Negotiations Update



## **Joint Statement by the University and the AAUP-BHSNJ Announcing Collective Negotiations Agreement**

The University and the AAUP-BHSNJ, the union that represents 1,400 faculty members at Rutgers Biomedical Health Sciences (RBHS), are proud to announce that they have reached a tentative collective negotiations agreement that covers the period of July 1, 2018 through July 31, 2022. The Agreement contains numerous first-time provisions, including provisions that set higher minimum benchmarks for compensation; integrate the compensation of NJMS faculty into the contract; provide new and enhanced incentives for research faculty; provide for parental leave, academic freedom and sabbaticals; and establish a process for consideration of pay equity adjustments. Significantly, we were able to finalize this Agreement during our nation's deepening pandemic. This Agreement will go a long way towards supporting medical faculty employed by the University and represented by the AAUP-BHSNJ – doctors and other healthcare professionals who have served heroically treating COVID-19 patients during this national crisis. The AAUP-BHSNJ and the University look forward to working collaboratively in the coming years and building RBHS into a world class academic medical center.

On behalf of the University

Brian L. Strom, MD, MPH, Chancellor  
Rutgers Biomedical and Health Sciences

On behalf of the AAUP-BHSNJ

Catherine Monteleone, President, AAUP- BHSNJ  
Roger Johansen, Vice President, AAUP-BHSNJ  
Council of Chapters

# Acclaim for our Expertise

**Cited by the White House. Praised by our governor. Sought by the public for our unmatched proficiency. R-Comm has led the effort to export Rutgers' knowledge as an invaluable resource for society.**

**158 media pitches,  
advisories and op-eds**

**More than 23,000  
news stories acknowledging  
RU-NB and RBHS**

**Reach of more than  
60 billion**

**RU-NB/RBHS stories  
were shared more than  
13M times on social media**

**Major Outlet Coverage (1/20-5/20):**

**The New York Times**  
(21)

**CNN**  
(16)

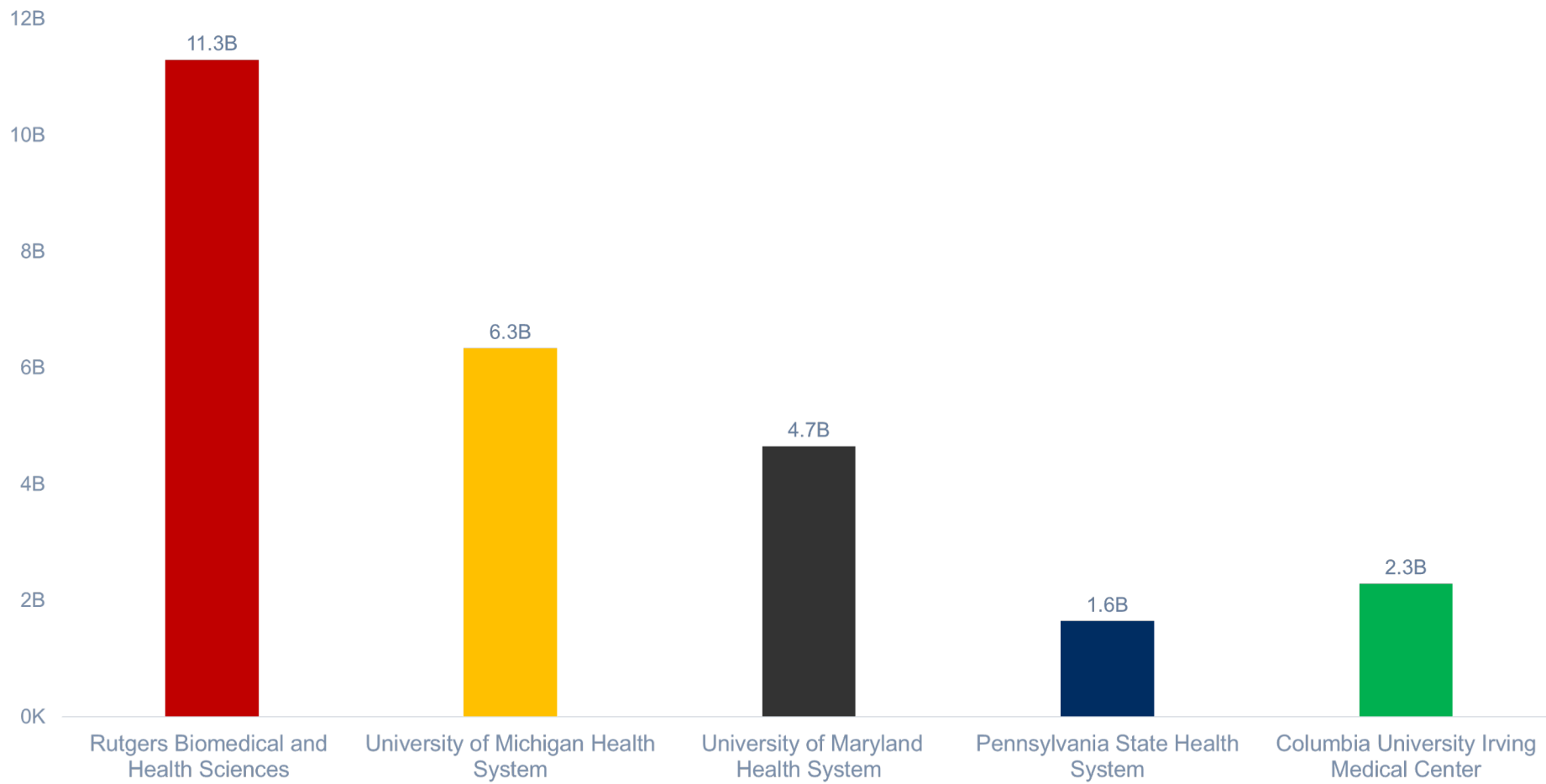
**The Washington Post**  
(30)

**NBC NEWS**  
(27)

**abc NEWS**  
(21)

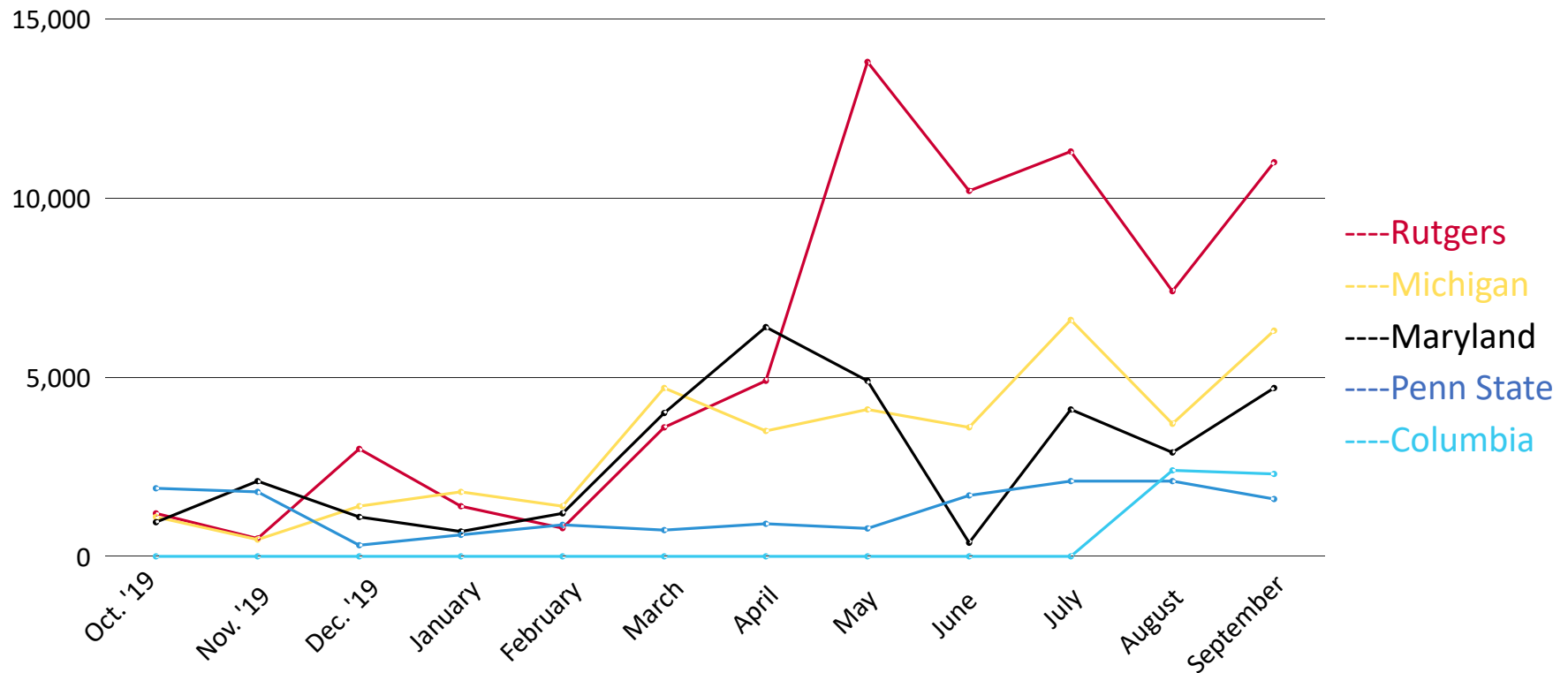
**YAHOO!**  
(29)

# Competitor Overview



Share of voice breakdown by reach for RBHS and its competitors

# Potential Reach Competitor Overview – 12 Months



Insight into the number (millions) of potential viewers that have been exposed to RBHS and selected competitors



# Our Shared Goal

To build one of the best academic health centers in the country, with an emphasis on *one*.



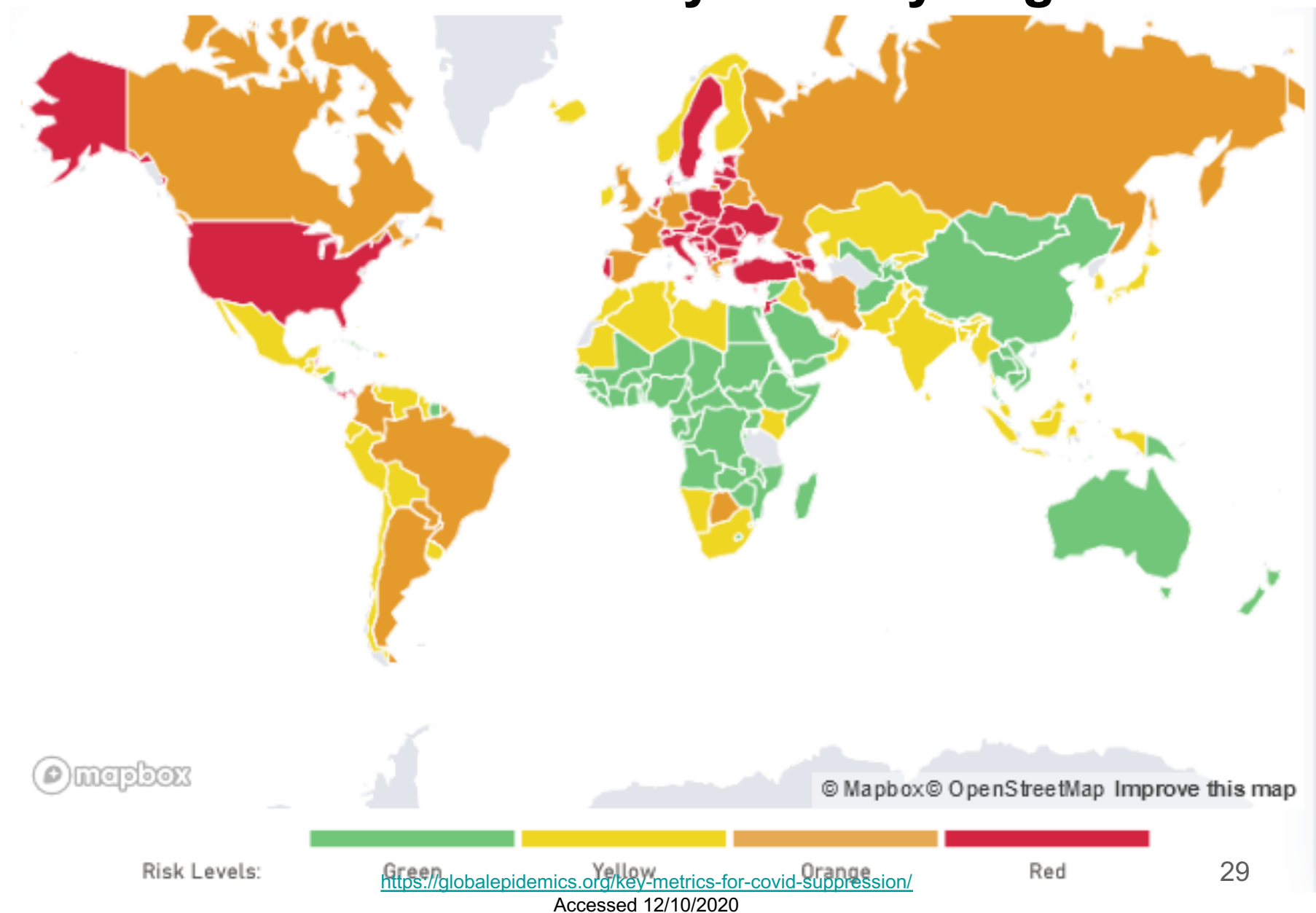
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- COVID-19 Update

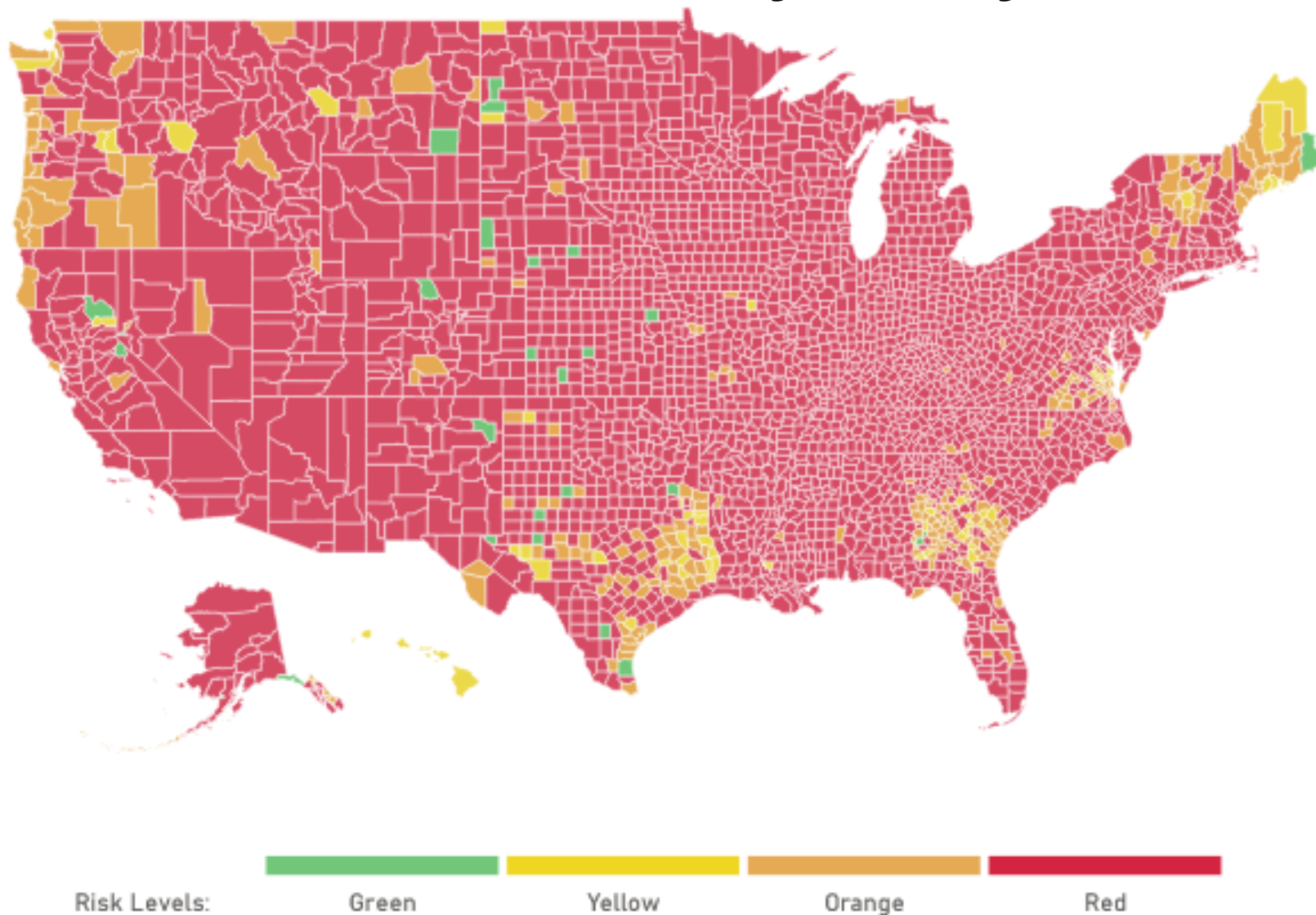




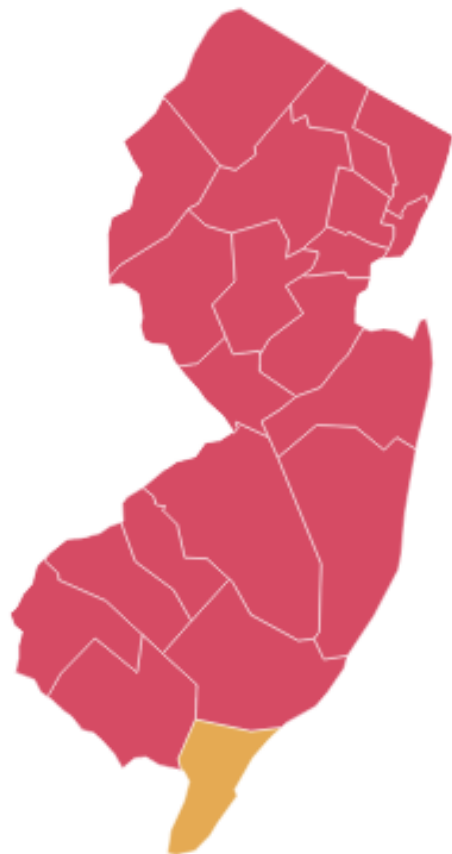
# COVID Risk Levels by Country/Region



# COVID Risk Levels by County US



# COVID Risk Levels by County NJ



- United States ranks 12<sup>th</sup> in highest COVID risk worldwide
- NJ ranks 35<sup>th</sup> of 50 States
- NJ has 56.7 daily new cases per 100,000 people or 5034 per day (7-day moving averages)

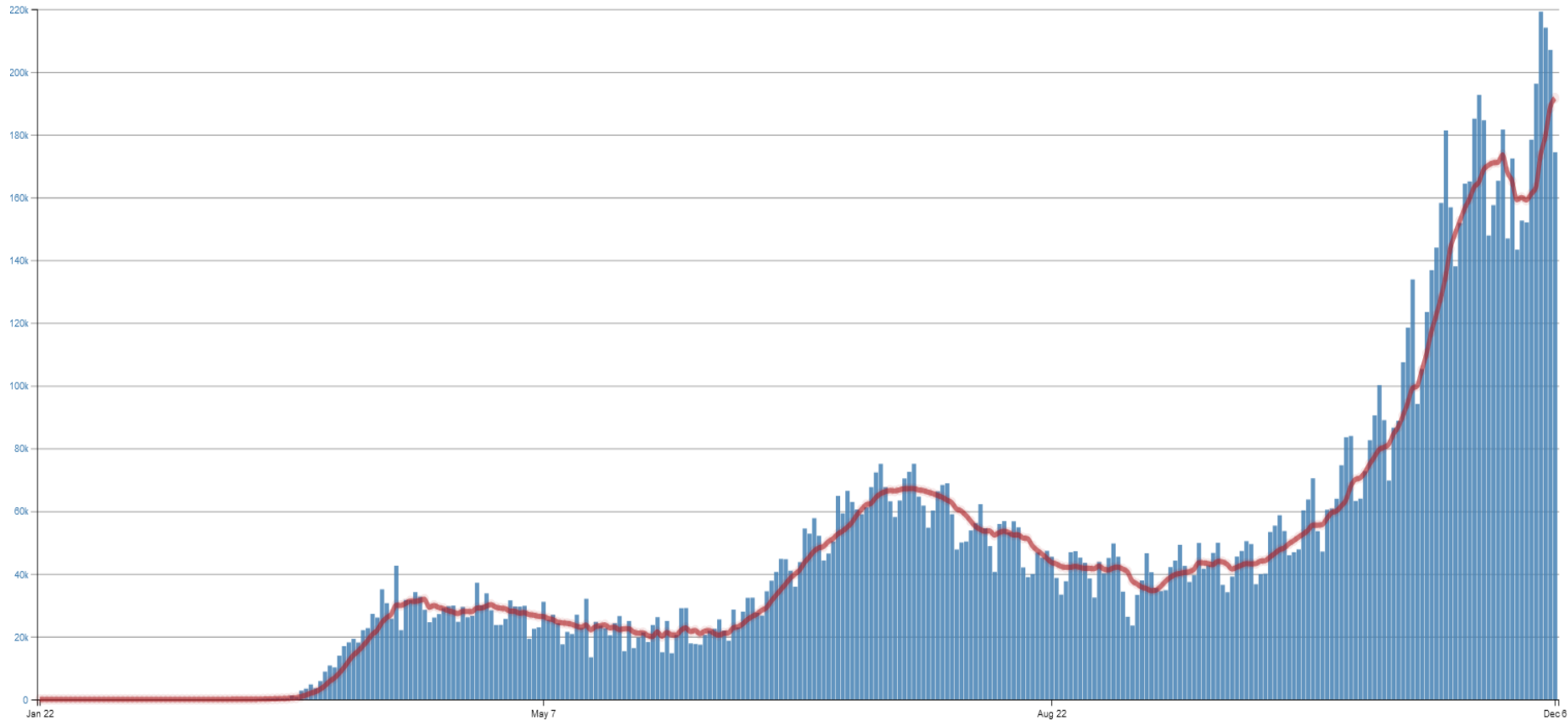


# COVID-19 Case Numbers – Global and Local

## As of December 10, 2020

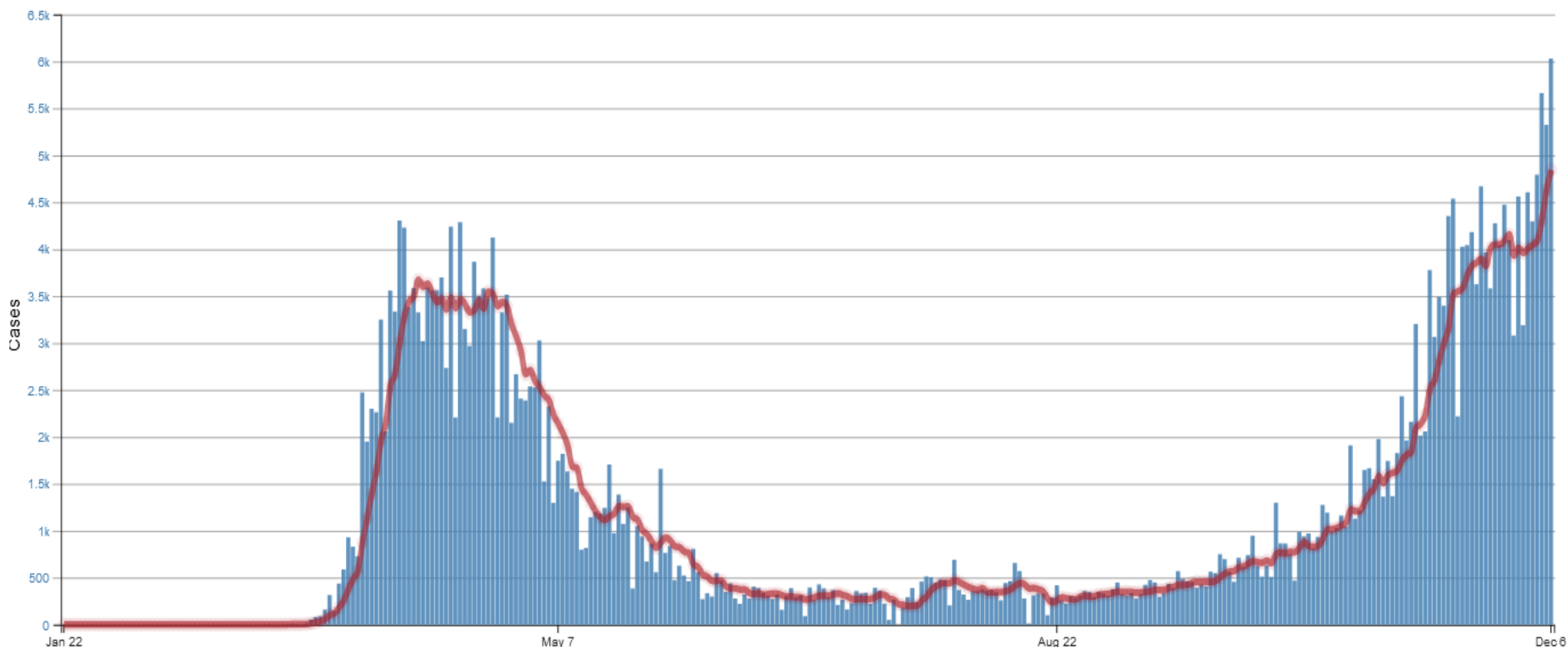
- Cumulative confirmed cases worldwide: 69,099,758
- Cumulative US confirmed cases: 15,393,571
- Cumulative NJ confirmed cases: 382,486
- Cumulative NJ confirmed deaths: 15,674
- Current hospitalizations: 3,545
- Currently on ventilators: 412
- Intensive-critical care: 644
- Statewide COVID-19 positivity 10.86% (as of 12/4)
- $R_t = 1.08$  (rate of transmission)

# Daily Trends in Number of COVID-19 Cases in the United States Reported to CDC



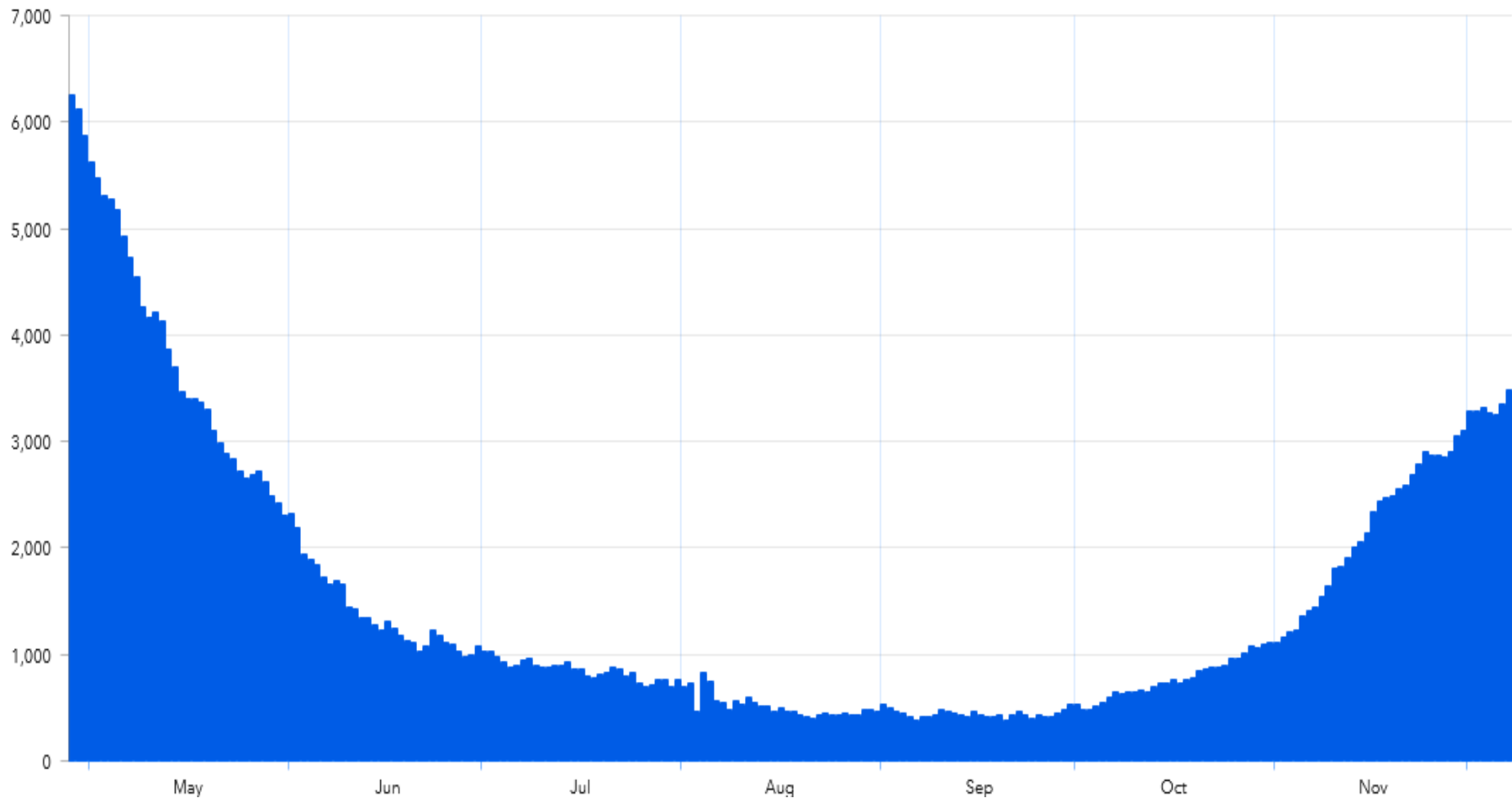
[https://covid.cdc.gov/covid-data-tracker/#trends\\_dailytrendscases](https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases)  
(accessed 12/8/20)

# Daily Trends in Number of COVID-19 Cases in New Jersey Reported to CDC



[https://covid.cdc.gov/covid-data-tracker/#trends\\_dailytrendscases](https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases)  
(accessed 12/8/20)

# New Jersey COVID-19 Hospitalizations

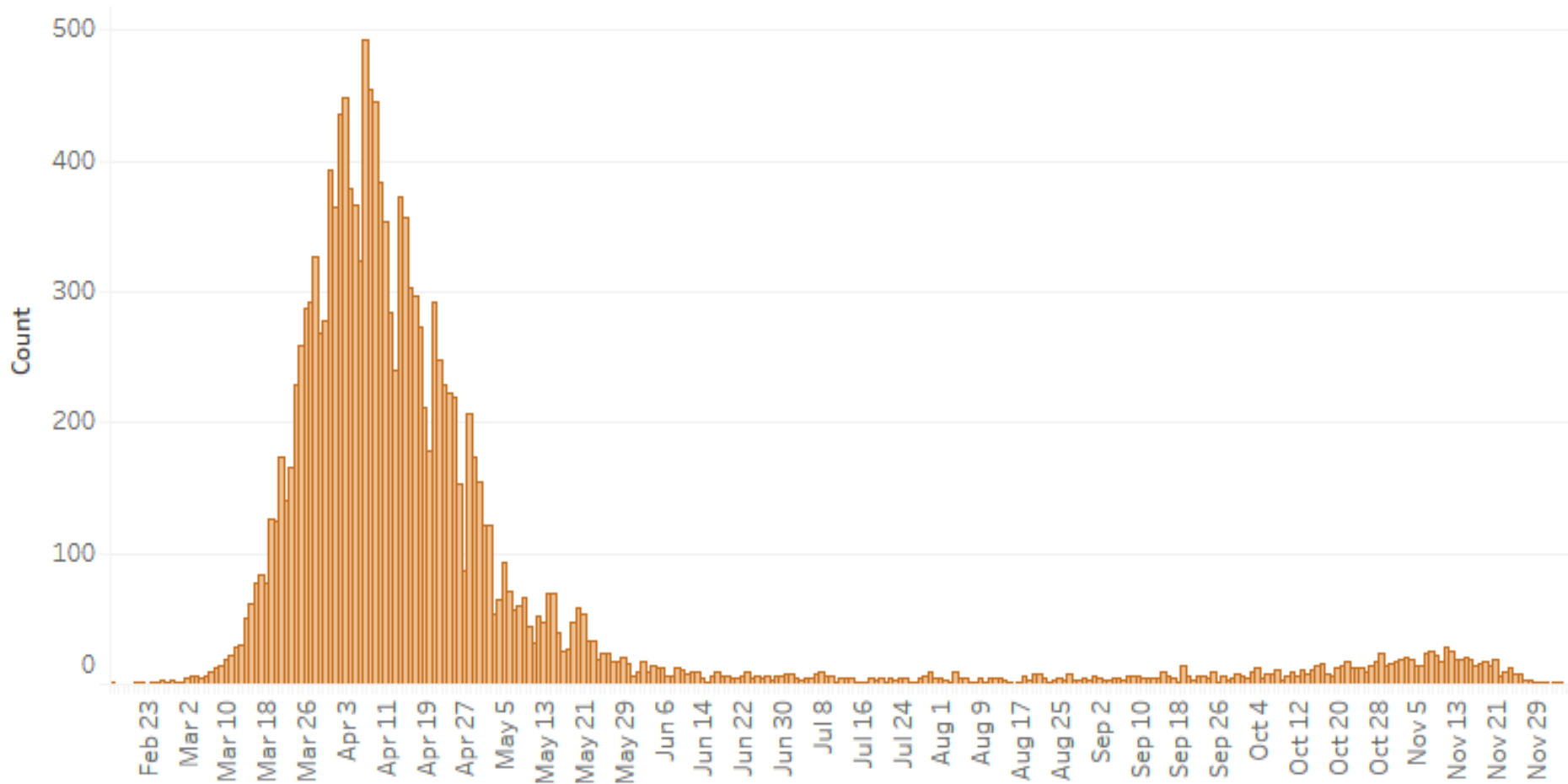


NJ COVID-19 Dashboard

<https://covid19.nj.gov/>

Accessed 12/8/2020

# New Jersey COVID-19 Deaths



NJ COVID-19 Dashboard

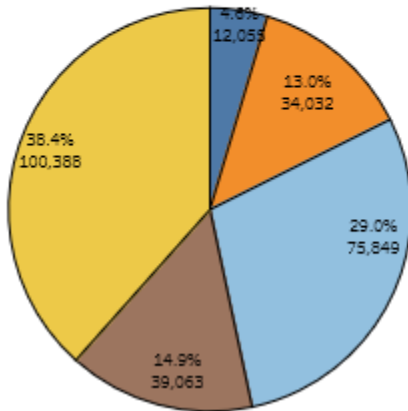
<https://njhealth.maps.arcgis.com/apps/opsdashboard/index.html#/81a17865cb1a44db92eb8eb421703635>

Accessed 12/8/2020

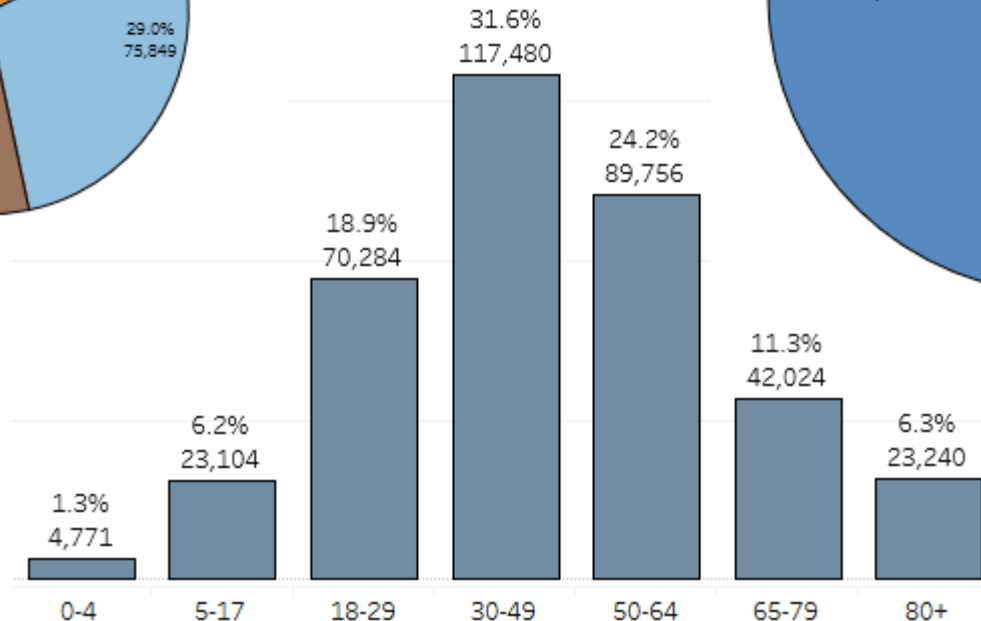


# NJ Cases By Race/Ethnicity, Age, & Gender

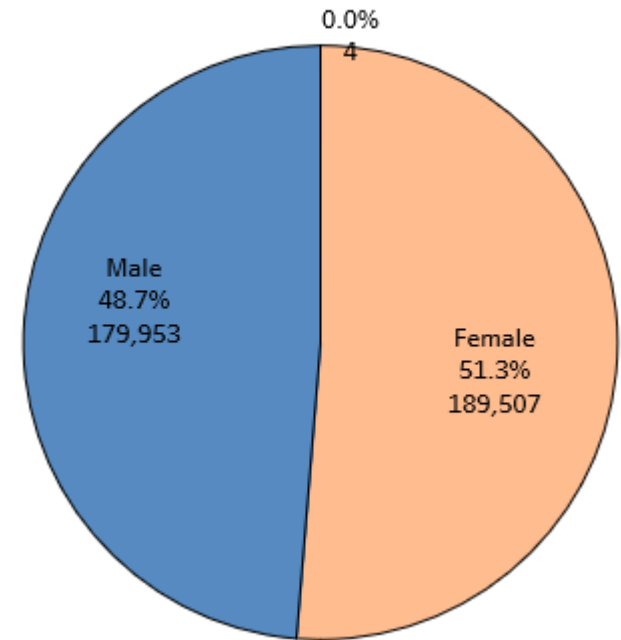
All Cases by Race/Ethnicity



All Cases by Age Group



All Cases by Gender



NJ COVID-19 Dashboard

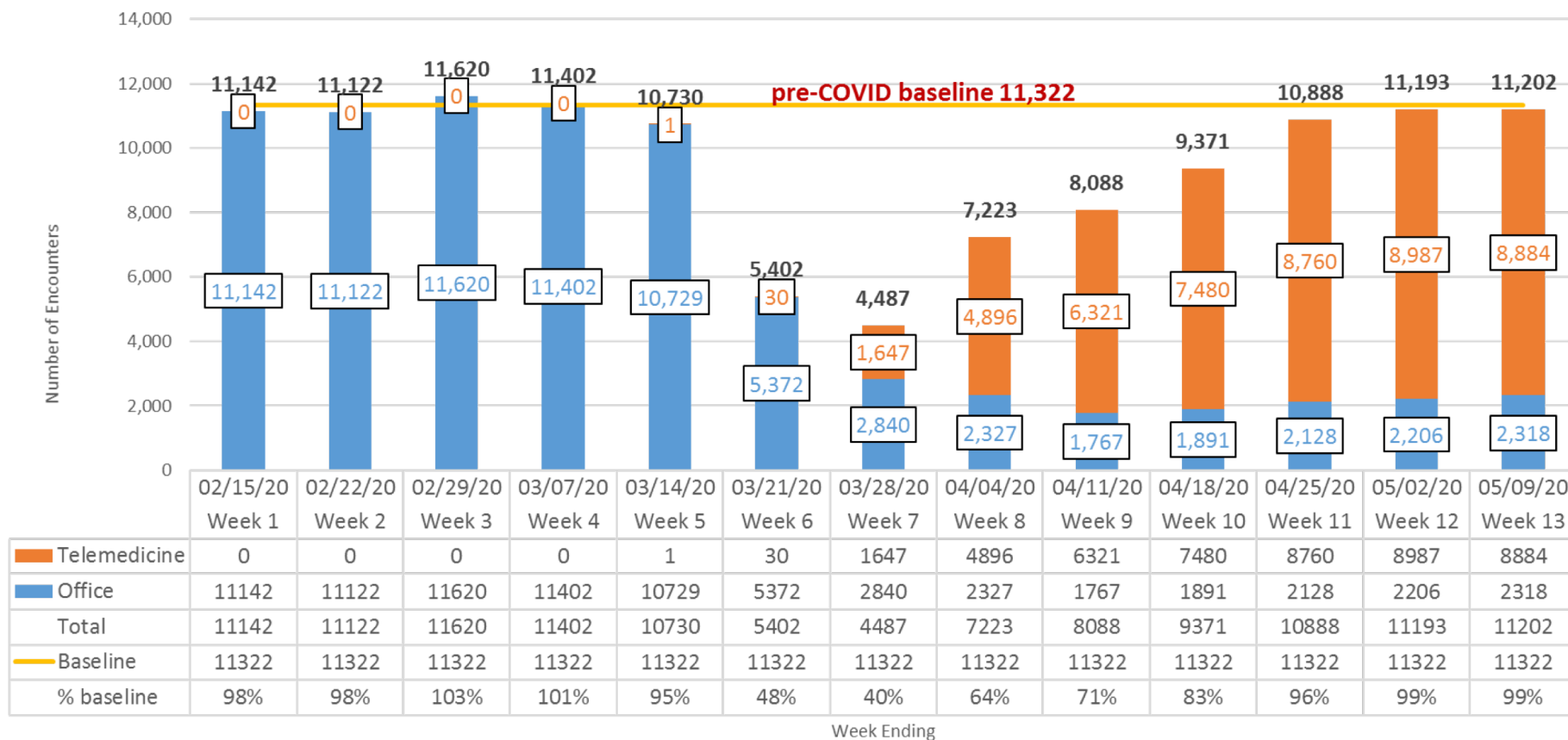
<https://maps.arcgis.com/apps/MapSeries/index.html?appid=c2efd1898e48452e83d7218329e953d7&entry=3>

Accessed 12/8/2020



**THANKS to our  
Health Care Workers!**

# Telehealth is Here to Stay



\*Data for RWJMS, NJMS, UBHC, CINJ, and SON

# Center for COVID-19 Response

- New Center for COVID-19 Response and Pandemic Preparedness (CCRP2) based in Newark and headed by Dr. David Alland
- CCRP2 combines:
  - Rutgers Institute for Infectious and Inflammatory Diseases
  - Biosafety level 3 (BSL3) labs equipped to study dangerous pathogens,
  - Schools of medicine, nursing, pharmacy, public health, dentistry, health professions, biomedical centers & institutes
  - Plus engineering, computational sciences, social sciences, business, law, AI and machine learning
  - RU Institute for Translational Medicine & Science facilitates clinical and translational research



## **RBHS COVID-19 Research Highlights**

- The CCRP2 established in March 2020 became one of the five Rutgers-wide “Big Ideas”
- Rutgers submitted 408 COVID-related research proposals totaling \$332M potential funding
- Rutgers received 106 COVID-related research awards totaling \$120M funding support
- Rutgers published 154 scientific articles on COVID-19 research

# Community Contact Tracing Corps

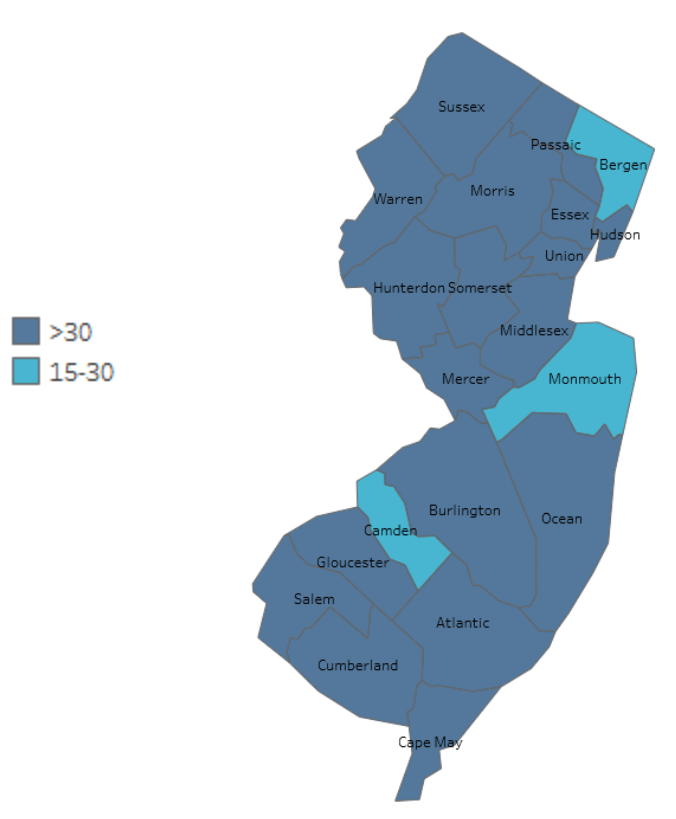
- Governor Murphy announced the creation of the Community Contact Tracing Corps to centralize contact tracing on May 12
- Partnering with the Rutgers School of Public Health to build a new contact tracing workforce of paid full-time employees and students
- Students will receive tuition stipends
- Initially 400 tracers to be trained to expand up to 1,000-5,000



CONTACT TRACER  
INTEREST REGISTRATION

# Contact Tracing – November 2020

- Total NJ contact tracers: 3,080
- Contact tracers/100,000 population: 34.7



# COVID Alert NJ App

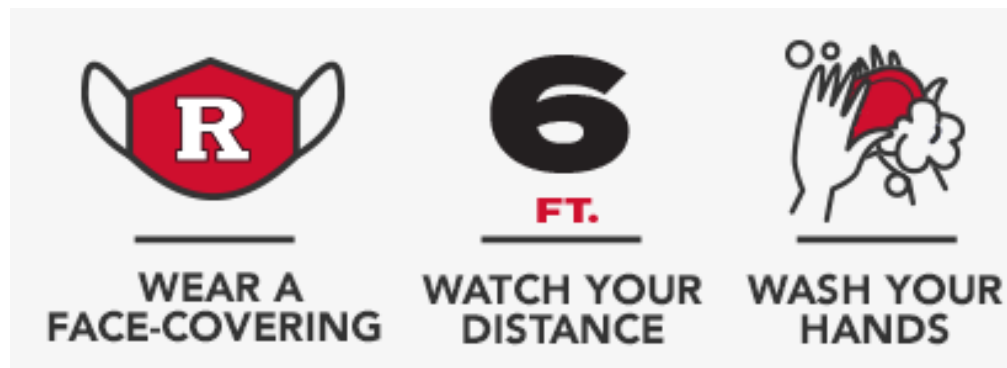
- Download COVID Alert NJ on the [App Store](#) or [Google Play Store](#)
- Opt-in to receive "Exposure Notifications"
- Bluetooth senses any "close contacts" other app users who are within 6 feet of you for 15 minutes or more within a 24-hour period
- Location and name are never disclosed
- The app compares close contact codes to the list of codes associated with positive COVID-19 app users.
- You get an "Exposure Alert" if there is a match plus information about appropriate next steps
- 447,053 app users since launch

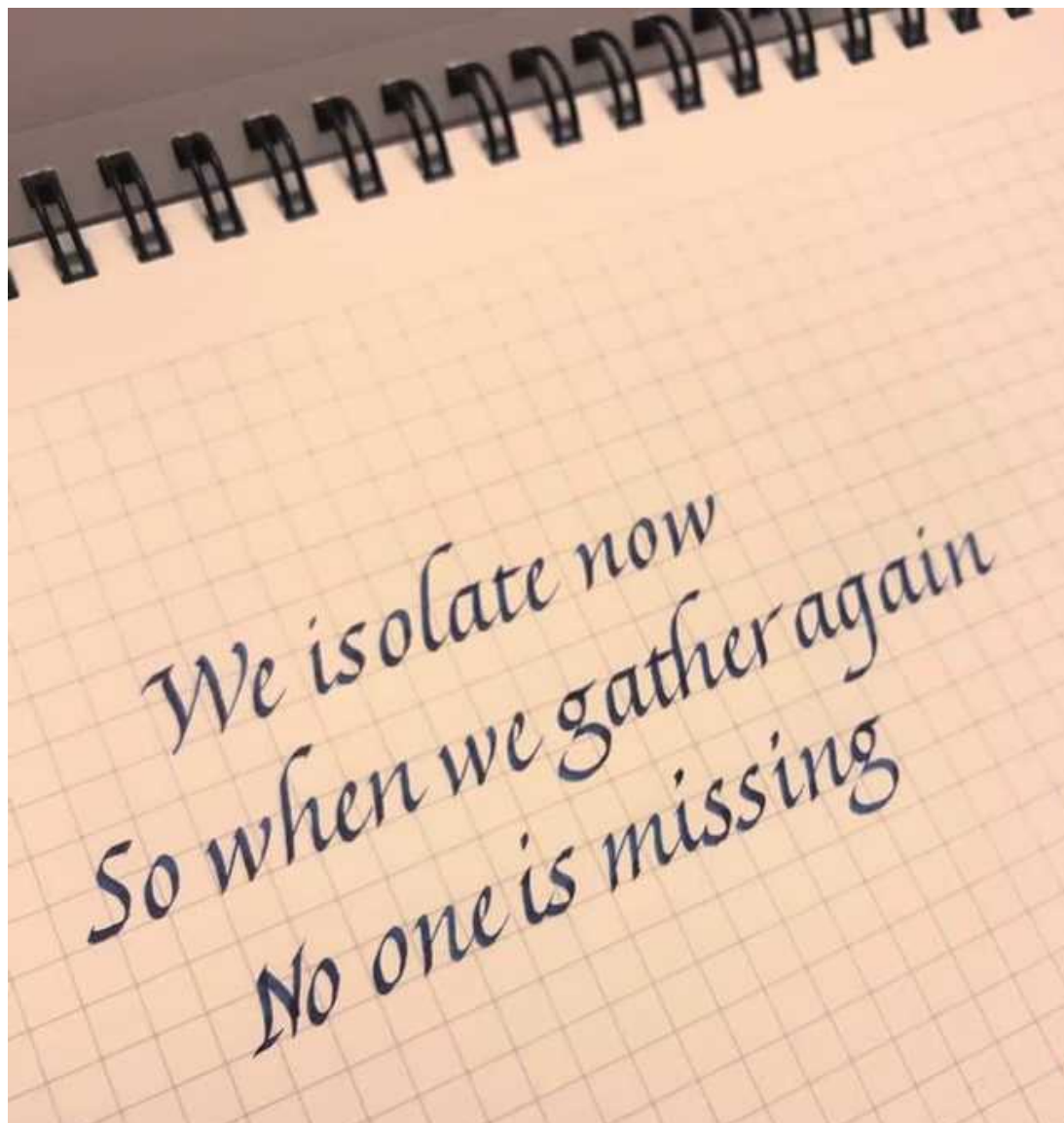




## Holiday Tips

- Indoor holiday gatherings should be limited to immediate household members if possible
- NJ limits indoor gatherings to 10 individuals, outdoor gatherings to 25 individuals
- The smaller the gathering, the less risk
- Maintain social distance of 6 feet apart, avoid direct contact
- Increase ventilation for continuous air circulation
- Wear masks when not eating





<https://covid-19archive.org/s/archive/item/17581>

Accessed 10/29/2020

# RUTGERS

BIOMEDICAL AND  
HEALTH SCIENCES