

Kaleida Health
COVID-19 Update

March 23, 2021

Good afternoon,

Today is another beautiful and springlike day. A reminder of better days to come. If that is not enough for you, it is also National Puppy Day, National Chip and Dip Day, and National Melba Toast Day. Clearly there is a lot for which we might be thankful.

Mini Grand Rounds

MINI GRAND ROUNDS

Arterial and Venous Thromboembolic Complications in COVID-19 Patients

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- Tomorrow morning at 7:30 a.m. will mark the latest installment of the Mini Grand Rounds series
- This week’s conversation will address updates on the management of the thromboembolic complications of COVID-19
- To access the event or to learn more:
<https://www.kaleidahealth.org/kyi/news/?i=15908>

COVID-19 Updates



- After several weeks of relatively good news, the rates of COVID and COVID related hospitalizations appears to have plateaued or even ticked up slightly.
- It is a reminder of the importance of continued vigilance.
- Source:
https://covidactnow.org/us/new_york-ny/county/erie_county/?s=1683615

Hospital Census: As of March 22, there were 27 COVID positive patients at BGMC (8 in the ICU), 24 at MFSH (2 in the ICU) and 6 at Oishei (2 in the ICU).

Erie County, New York State and United States Status (as of March 22, 2021)

| Region | Positivity Rate (7-day average) | New Cases in past 24 hours | ICU Reserve Capacity | Percent Vaccinated |
|----------------|---------------------------------|----------------------------|----------------------|--------------------|
| Erie County | 5.1% (4.3% rolling average) | 276 | 59% | 28.0% |
| New York State | 4.7% (3.3% rolling average) | 6,801 | 68% | 26.1% |
| United States | 3.86% | 50,584 | <i>Not available</i> | <i>Unknown</i> |

Source:

[Erie County Data](#)

<https://coronavirus.jhu.edu/>

<https://covidactnow.org/us/ny/>

COVID-19 Vaccine Updates

Moderna Announces First Participants Dosed in Phase 2/3 Study of COVID-19 Vaccine Candidate in Pediatric Population

- Moderna has announced that the first participants have been dosed in the Phase 2/3 study, called the KidCOVE study, of mRNA-1273, the company's vaccine candidate against COVID-19, in children ages 6 months to less than 12 years
- This Phase 2/3 two-part, open label, dose-escalation, age de-escalation (Part 1) and randomized, observer-blind, placebo-controlled expansion study (Part 2) will evaluate the safety, tolerability, reactogenicity and effectiveness of two doses of mRNA-1273 given 28 days apart. The company intends to enroll approximately 6,750 pediatric participants in the U.S. and Canada ages 6 months to less than 12 years
- Evaluation of vaccine safety and reactogenicity is also a primary endpoint of the study
- To learn more, click [HERE](#)

Donut Incentive



- In the spirit of the idea that any idea which gets us closer to full vaccination is a good thing, Krispy Kremes Donuts will be offering a free donut each day this year for people who are fully vaccinated.
- Hopefully, this inspires other, perhaps healthier, businesses to look for novel ways in which we can engage the community.

Hospital Updates

EMR Update

- Kaleida Health is excited to announce that with your help, they have completed the new MyDesktop and new DMO (Dragon Medical One) dictation solution across all Kaleida Health

- There are now over 10,000 desktops, laptops and “thin clients” on the new Windows platform including new IGEL clients with virtual channel audio for dictation. The wave of DMO Physician users are now over 850 and so we have a good experience in our community, which replaces DMNE and recovery from RHO connection to Cerner Millennium now working well for EMR integration
- Special thanks go to the team including Angela VanWyngaarden, Beth Rubin, Brian Egan, Kevin Conable, Dave Truby, Alan Caruana, Frank Metty, Mike Boeheim, the Informatics Team and Peter Winkelstein, Sandy Levy, Michele Lauria, the CNS Team under Kevin Kimball, and the Cyber Team under Kevin Gilbert

Updates in the Literature

Neutralizing Antibodies Against SARS-CoV-2 Variants After Infection and Vaccination

- An article was published in JAMA discussing neutralizing antibodies
- The author’s findings “suggest that infection- and vaccine-induced immunity may be retained against the B.1.1.7 variant.”
- The full article is available at:
<https://jamanetwork.com/journals/jama/fullarticle/2777898>

Attributes and predictors of long COVID

- An article was published in the journal Nature discussing long COVID
- The authors found that patients “experiencing more than five symptoms during the first week of illness was associated with long COVID (odds ratio = 3.53 (2.76–4.50)). A simple model to distinguish between short COVID and long COVID at 7 days (total sample size, n = 2,149) showed an area under the curve of the receiver operating characteristic curve of 76%, with replication in an independent sample of 2,472 individuals who were positive for severe acute respiratory syndrome coronavirus 2.”
- The full article is available at:
<https://www.nature.com/articles/s41591-021-01292-y>

Compromised SARS-CoV-2-specific placental antibody transfer

- An article was published in the journal Cell discussing placental transfer of antibodies
- The authors found SARS-CoV-2-specific antibodies have a decreased placental transfer. SARS-CoV-2-spike antibodies have altered glycosylation profiles in pregnant women. Pregnant women with SARS-CoV-2 during the third trimester have elevated IgG levels. SARS-CoV-2-specific antibody transfer is efficient after second trimester infection
- The full article is available at:
<https://www.sciencedirect.com/science/article/pii/S0092867420317499>

Seroprevalence of antibodies to SARS-CoV-2 in healthcare workers: a cross-sectional study

- An article was published in the British Medical Journal discussing antibodies in healthcare workers
- The authors found that “the demographic factors associated with SARS-CoV-2 seroprevalence among our healthcare workers underscore the importance of exposure sources beyond the workplace. The size and diversity of our study population, combined with robust survey and modelling techniques, provide a

vibrant picture of the demographic factors, exposures and symptoms that can identify individuals with susceptibility as well as potential to mount an immune response to COVID-19.”

- The full article is available at:
<https://bmjopen.bmj.com/content/11/2/e043584>

Association of Age with SARS-CoV-2 Antibody Response

- An article was published in JAMA discussing antibody response
- The authors report “revealed distinct antibody responses in different age groups, suggesting that age-targeted strategies for disease screening and management as well as vaccine development may be warranted.”
- The full article is available at:
<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2777743>

Development of Severe COVID-19 Adaptive Risk Predictor (SCARP), a Calculator to Predict Severe Disease or Death in Hospitalized Patients with COVID-19

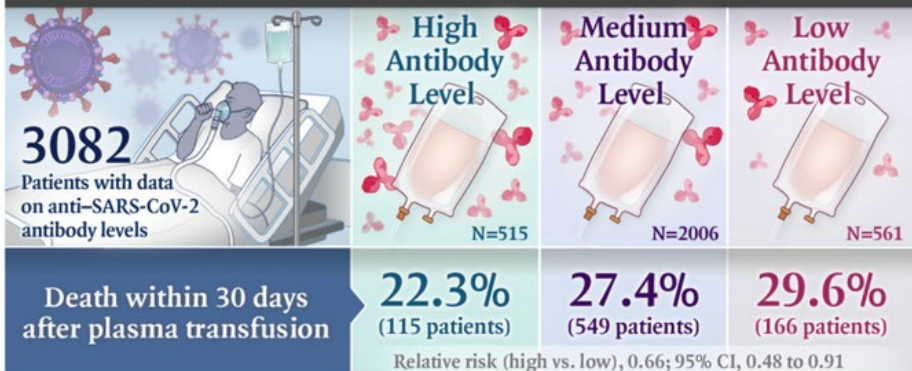
- An article was published in the Annals of Internal Medicine discussing risk calculations
- The authors found that “using the predictive power of RF-SLAM (https://rsconnect.biostat.jhsph.edu/covid_trajectory/) and longitudinal data from more than 3000 patients hospitalized with COVID-19, an interactive tool was developed that rapidly and accurately provides the probability of an individual patient's progression to severe illness or death on the basis of readily available clinical information.”
- The full article is available at:
<https://www.acpjournals.org/doi/10.7326/M20-6754>

The Visual Abstract: Convalescent Plasma Antibody Levels and the Risk of Death from Covid-19

The visual abstract is a new way of presenting information from clinical trials. Early data has suggested that it might be more impactful than traditional tools such as the abstract with which we are all familiar.

Convalescent Plasma Antibody Levels and Covid-19 Mortality

RETROSPECTIVE STUDY BASED ON A U.S. NATIONAL REGISTRY



In patients not receiving mechanical ventilation, transfusion of plasma with higher antibody levels was associated with a lower risk of death.

To see the full article: <https://www.nejm.org/doi/full/10.1056/NEJMoa2031893>



In Memoria: Wilson, Michael, MD (1927 - 2021)

We are sad to announce the passing of Dr Michael Wilson. Dr Wilson was a 1953 graduate of the University of Pennsylvania School of Medicine after which he studied Internal Medicine and moved to Buffalo several years later. He has been a fixture in the cardiology community across Western New York for the past 66 years. He was a forward-thinking researcher, a gifted clinician, and a kind man. Dr Wilson retired last year at the age of 93. He will be missed by all who knew him.

Today's theme is about protecting our families. This weekend, as the sun sets on the evening of the 27th, many of our colleagues will gather with their families to begin the celebration of Passover. This is a tradition which has been passed down across the centuries and is primarily a moment to remember the Israelites' escape from bondage, but it also carries other lessons and traditions which are as important to us today as they were millennia ago. One of these is the idea of protecting our families. This particular focus is uniquely relevant today as we stand on the edge of what is hopefully the final leg of the COVID-19 pandemic. We have come so far in the past year, but our journey is not over. Thankfully more people get vaccinated every day, and with that comes a certain amount of protection, but sadly hundreds of people across the county are still getting diagnosed every day; a stark reminder that we are not safe yet. As we look to connect with our families around the table for Seder or next week for Easter, we need to remember that this is not the time to forget our vigilance. We cannot let our desire to reconnect overcome our understanding of the risks that are out there. As with all things, with patience, there will be better days. This is also a time for us to remember that we have families who are not connected to us through blood or tradition. We live in a complex world where each of us touches the lives of so many others. As the weather turns warm and we look to reconnect with old traditions, please remember to take some time this weekend to reach out to friends and colleagues who might be in need. It is only by doing this, by reaching out to one another and lifting others up in challenging times, that we will succeed and make it through the pandemic. To our colleagues celebrating Passover, Chag Sameach!

As always, your input is critical to ensure that this brief meets the needs of the community. Please send comments to coronavirusupdates@kaleidahealth.org.

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Questions

If you have questions, please reach out (coronavirusupdates@kaleidahealth.org), and we will do our best to get you the information you need.