

COVID-19

What Maternity and Neonatal Care Providers Are Learning

April 10, 2020
12 – 1 pm EST

Ohio Perinatal Quality Collaborative

Through collaborative use of improvement science methods, reduce preterm births & improve perinatal and preterm newborn outcomes in Ohio as quickly as possible.



Today's presenters:



Mike Marcotte, MD
Tri-Health Good Samaritan
OPQC OB Faculty Lead



Ryan Everett, MPH
The Ohio Hospital Association



James Greenberg, MD
Cradle Cincinnati
Perinatal Institute-CCHMC



Kay Smith, MSN, CNM
ProMedica Toledo

Welcome

- **Goals:**
 - Share practicalities of implementing strategies now
 - Discuss what people are doing in situations where it is unclear and guidance doesn't exist
 - **ALL TEACH ~ ALL LEARN**
- Over 360 registrants; focused topic and scenarios are regarding Surge Planning
- **Plans:**
 - The slide deck and recording of this webinar will be posted on the OPQC website
 - We will provide shared resource links on the website and update regularly
- The case scenarios are from individual institution responses, not OPQC recommendation

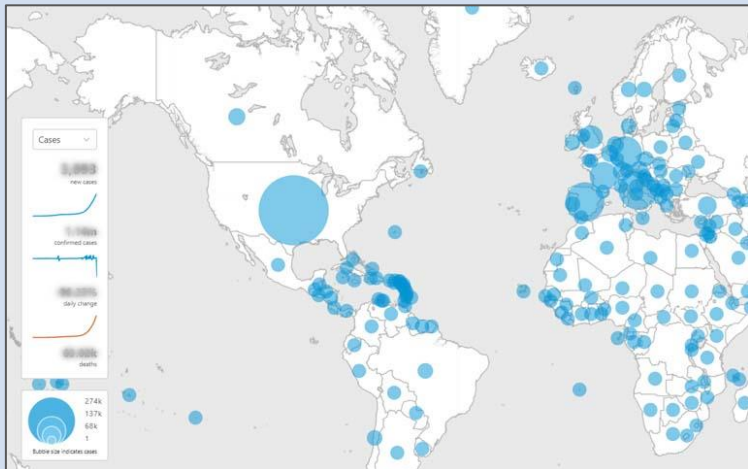
Data Update **April 9, 2020**

WHO/CDC/ODH: COVID-19 Outbreak

WHO

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

- Updated : 6 April 2020
Coronavirus (COVID-19) outbreak
- **1,439,516** Confirmed cases
 - **85,711** Confirmed deaths
 - **212** Countries, areas or territories with cases

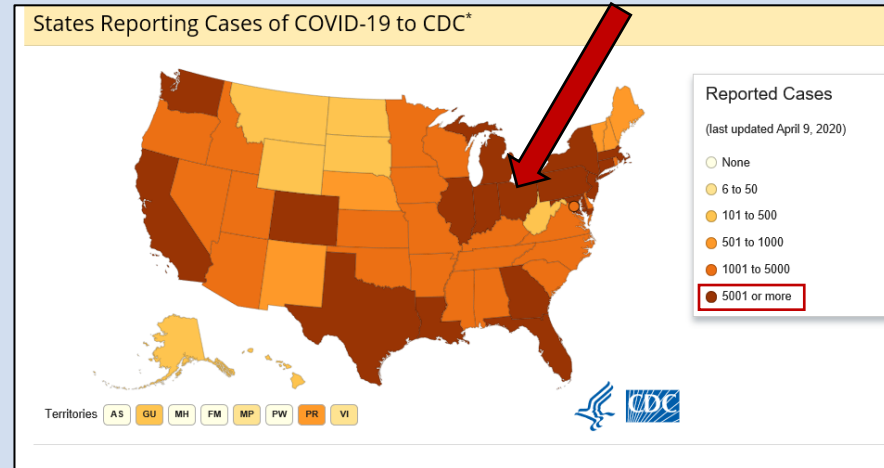


CDC

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

- Total cases: **427,460**
- Total deaths: **14,696**
- Jurisdictions reporting cases: 55

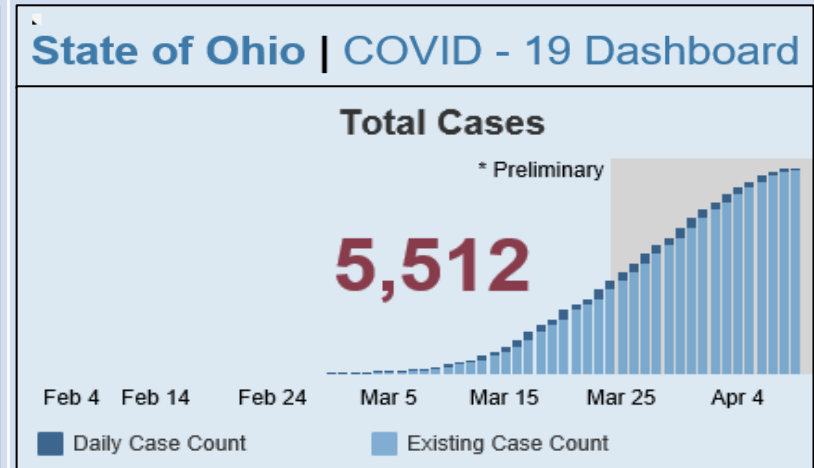
(50 states, District of Columbia, Puerto Rico, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands)



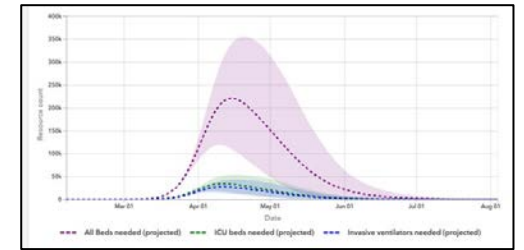
ODH

<https://coronavirus.ohio.gov/wps/portal/gov/covid-19/>

- **5,512** Confirmed Cases in Ohio
- **497** ICU admissions
- **1,612** Hospitalizations in Ohio
- **213** Deaths

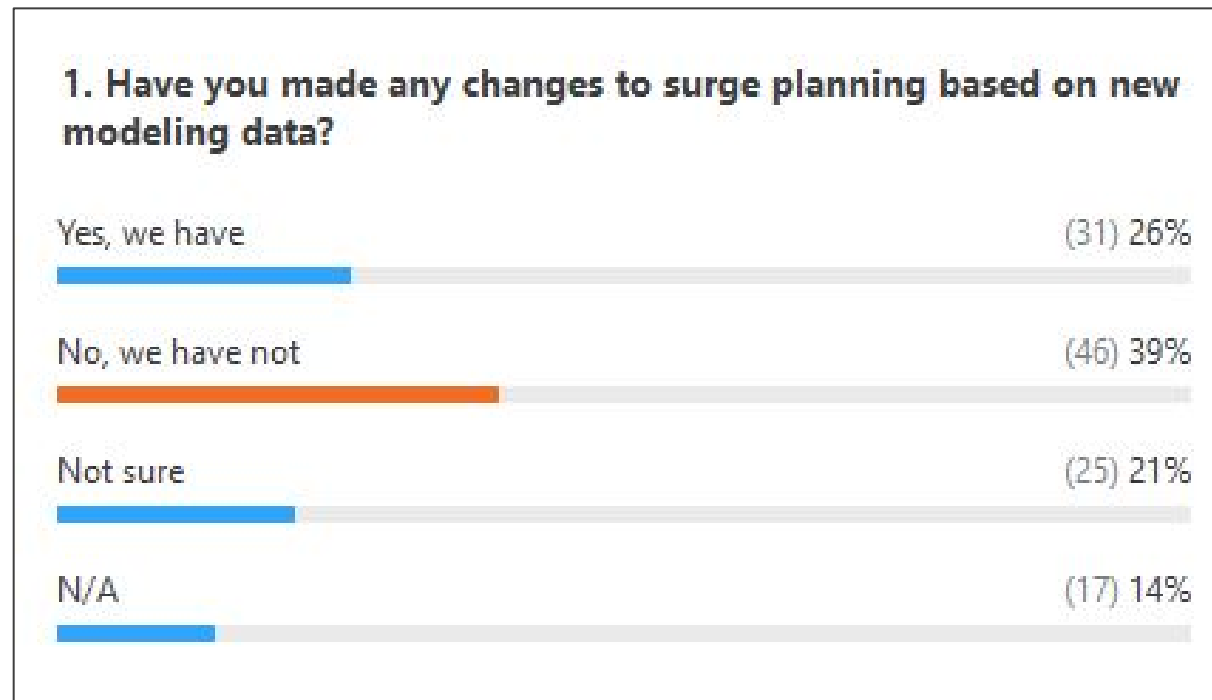


Poll #1



Have you made any changes to surge planning based on new modeling data?

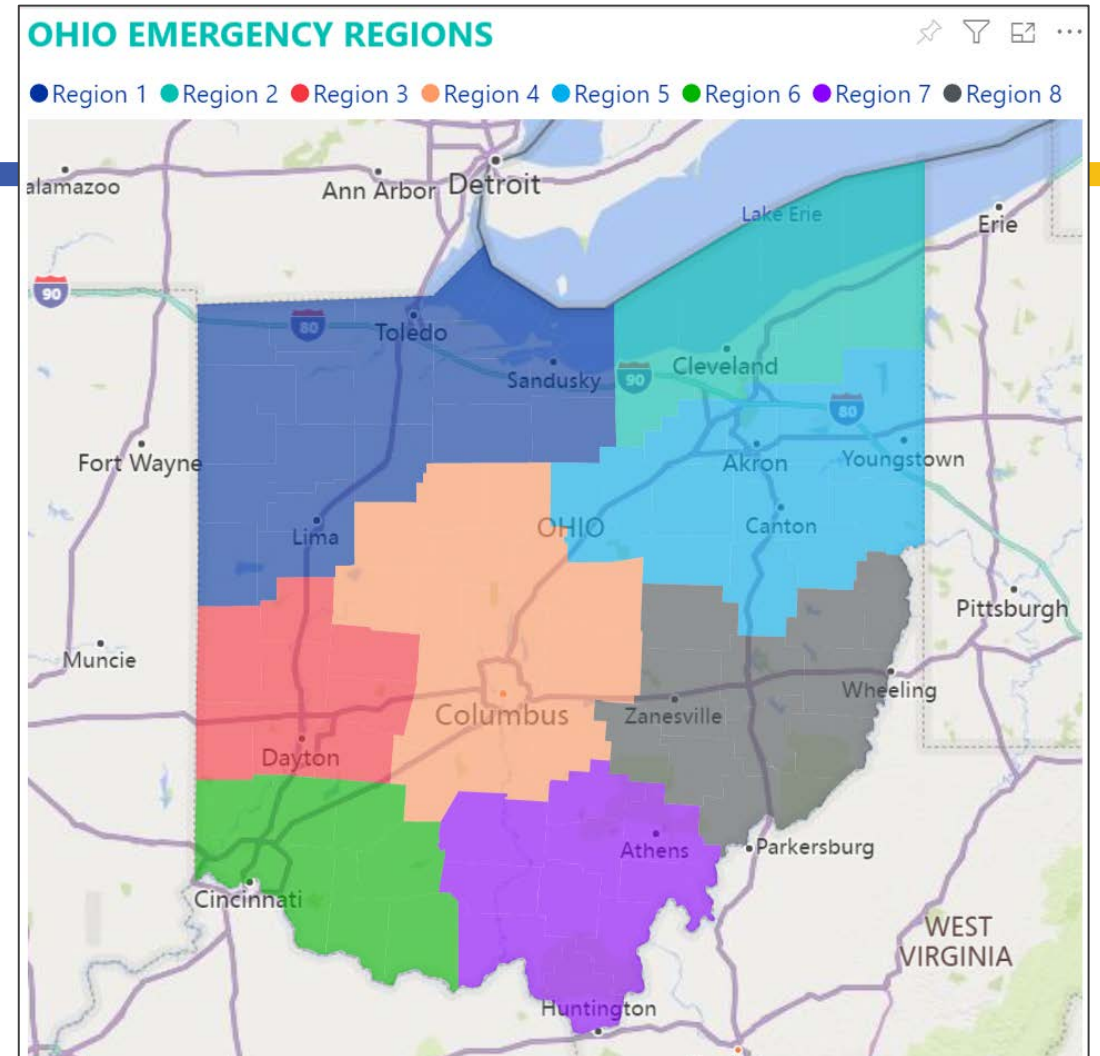
- Yes, we have
- No, we have not
- Not sure
- N/A



Surge Planning

COVID-19 Pandemic: OHA Response

Ohio Perinatal Quality Collaborative



Ryan Everett, MPH
Ohio Hospital Association
Director of Community and Public Health Programs

COVID-19 – Quick updates OHA's and Ohio's Response

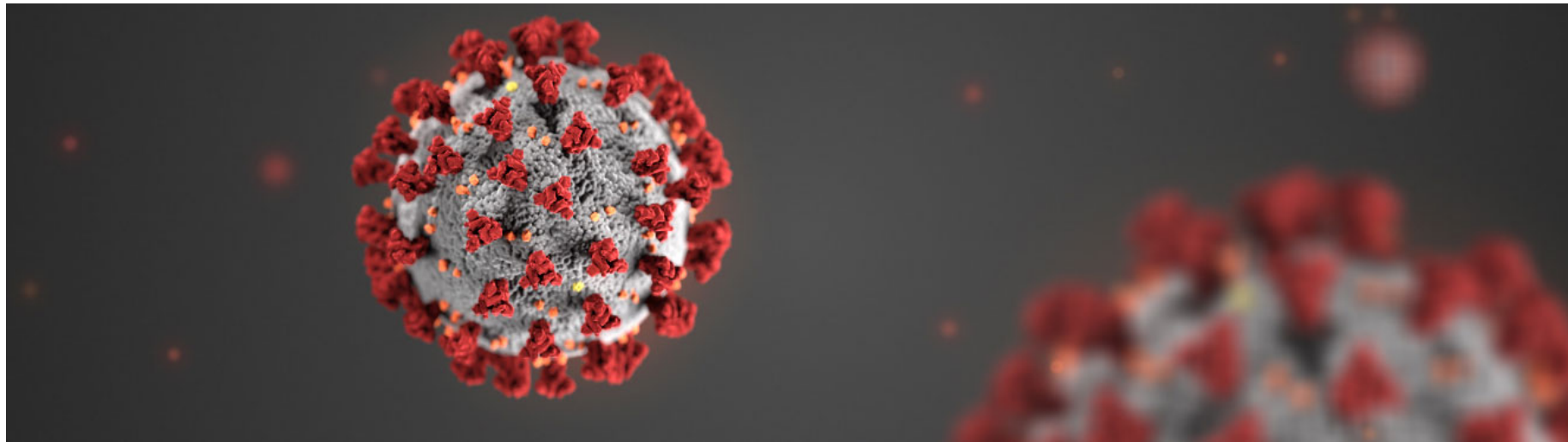
- Background
- Strategic Workgroups
- ASPR Grant
- Regional Planning
- Testing Updates

Ryan Everett, MPH
Ohio Hospital Association
Director of Community and Public Health Programs



COVID-19 Pandemic: OHA Response

Data Collection – Decision Making



Ryan Everett, MPH
Ohio Hospital Association
Director of Community and Public Health Programs



OHA Data Collection

Resource		Max Surge Capacity	Total Capacity	Number Available
Med/Surg Beds - Adult:	<input type="radio"/> N/A	<input type="text"/>	<input type="text"/>	<input type="text"/>
Med/Surg Beds - Pediatric:	<input type="radio"/> N/A	<input type="text"/>	<input type="text"/>	<input type="text"/>
Critical Care Beds - Adult:	<input type="radio"/> N/A	<input type="text"/>		
Critical Care Beds - Pediatric:	<input type="radio"/> N/A	<input type="text"/>		
Airborne Isolation Beds - Adult:	<input type="radio"/> N/A	<input type="text"/>		
Airborne Isolation Beds - Pediatric:	<input type="radio"/> N/A	<input type="text"/>		
Ventilators:	<input type="radio"/> N/A			
ECMO:	<input type="radio"/> N/A			

Select the level that best represents the status of each resource for your facility.

N95 Respirators: -- Please Choose --	Face/Surgical Masks: -- Please Choose --	Gloves: -- Please Choose --	Face Shields: -- Please Choose --
Gowns: -- Please Choose --	Physician Staffing Level: -- Please Choose --	Nurse Staffing Level: -- Please Choose --	Ancillary Staffing Level: -- Please Choose --

Enter number of patients currently admitted as an inpatient in your facility.
For definitions please click [here](#)

COVID-19 Suspected Patients - Count: <input type="text"/>	COVID-19 Positive Patients - Count: <input type="text"/>	COVID-19 Positive Patient In ICU - Count: <input type="text"/>	COVID-19 Positive Patient On Ventilator - Count: <input type="text"/>
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Submit Your Information

Ryan Everett, MPH
Ohio Hospital Association
Director of Community and Public Health Programs



OHA Data Dashboard - Resources



OHIO RESOURCE TRACKER: RESOURCE CAPACITY SUMMARY

Capacity Measure: All | Region: All | County Name: All

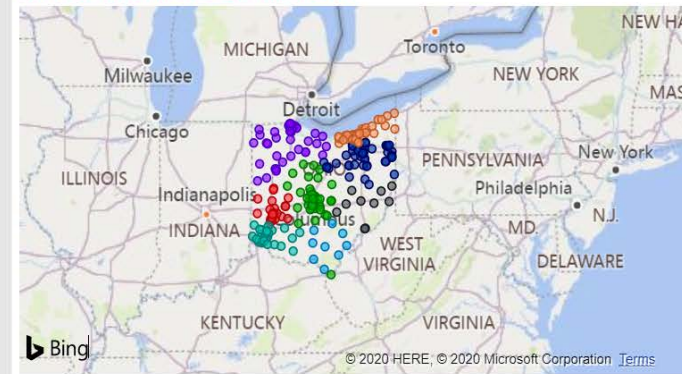
DATA NOT CURRENT!

OVERALL RESOURCE UTILIZATION

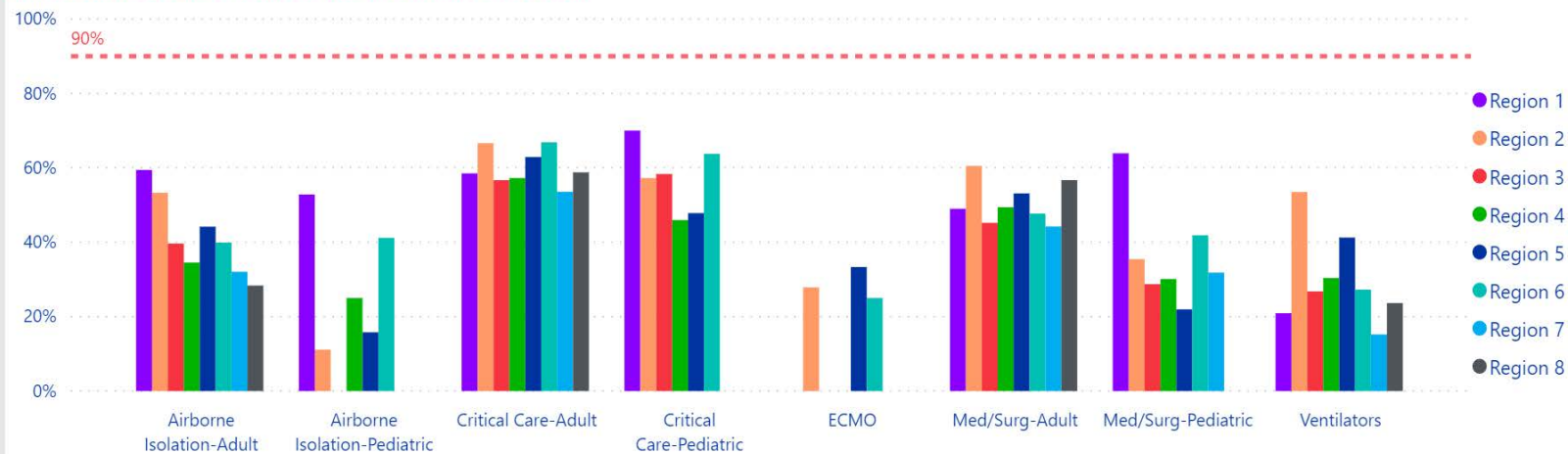
Capacity Measure	Number Available	Total Capacity	Utilization Percent
Airborne Isolation-Adult			45%
Airborne Isolation-Pediatric			29%
Critical Care-Adult			62%
Critical Care-Pediatric			58%
ECMO			22%
Med/Surg-Adult			52%
Med/Surg-Pediatric			37%
Ventilators			35%

Note: Utilization Percent = percent of resources currently in use.

OHIO HOSPITALS BY REGION



RESOURCE UTILIZATION, BY MEASURE AND REGION



OHA Data Dashboard - Resources



OHIO RESOURCE TRACKER: RESOURCE STATUS SUMMARY

Resource Measure:
Resource Status:
Region:
County Name:

OVERALL RESOURCE STATUS

● 1 - Adequate ● 2 - Strained ● 3 - Critical

Resource Measure	1 - Adequate (%)	2 - Strained (%)	3 - Critical (%)
Ancillary Staffing Level	85%	8%	7%
Face Shields	27%	38%	34%
Face/ Surgical Masks	30%	38%	32%
Gloves	54%	35%	11%
Gowns	35%	34%	30%
N95 Respirators	29%	39%	32%
Nurse Staffing Level	81%	13%	6%
Physician Staffing Level	89%	5%	6%

OVERALL RESOURCE STATUS, BY MEASURE AND REGION

Resource Measure	1 - Adequate	2 - Strained	3 - Critical
Ancillary Staffing Level	199	18	17
Face Shields	64	90	80
Face/ Surgical Masks	70	88	76
Gloves	126	82	26
Gowns	83	80	71
N95 Respirators	67	92	75
Nurse Staffing Level	189	30	15
Physician Staffing Level	208	12	14
Total	213	157	121

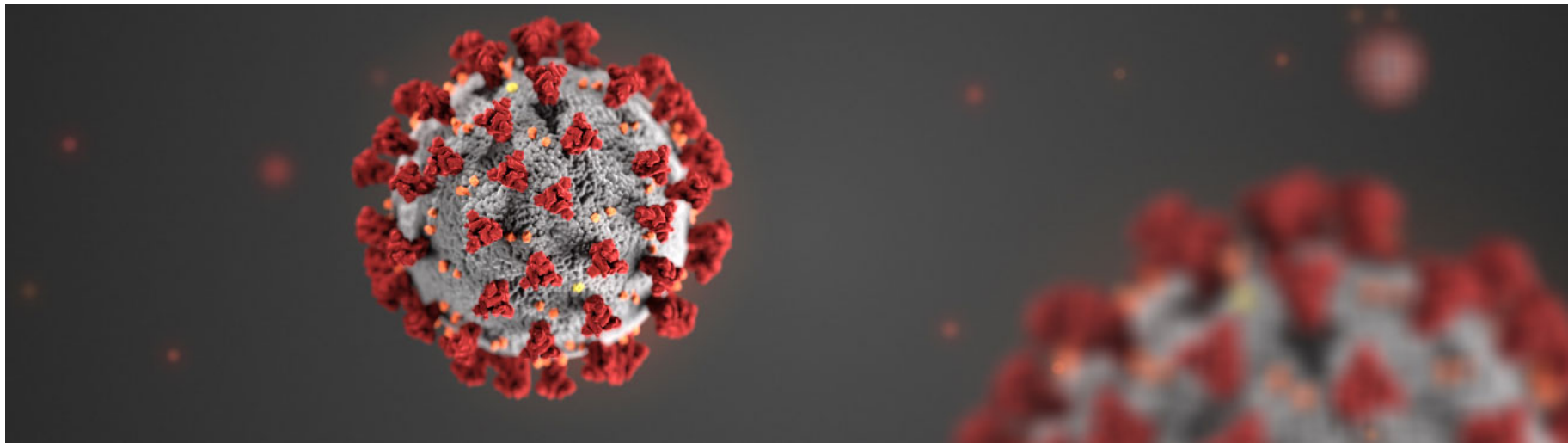
DATA NOT CURRENT!

Note: Count represents the number of facilities at each value level.

OHIO HOSPITALS BY REGION

COVID-19 Pandemic: OHA Response

Modeling – Surge Planning



Ryan Everett, MPH
Ohio Hospital Association
Director of Community and Public Health Programs

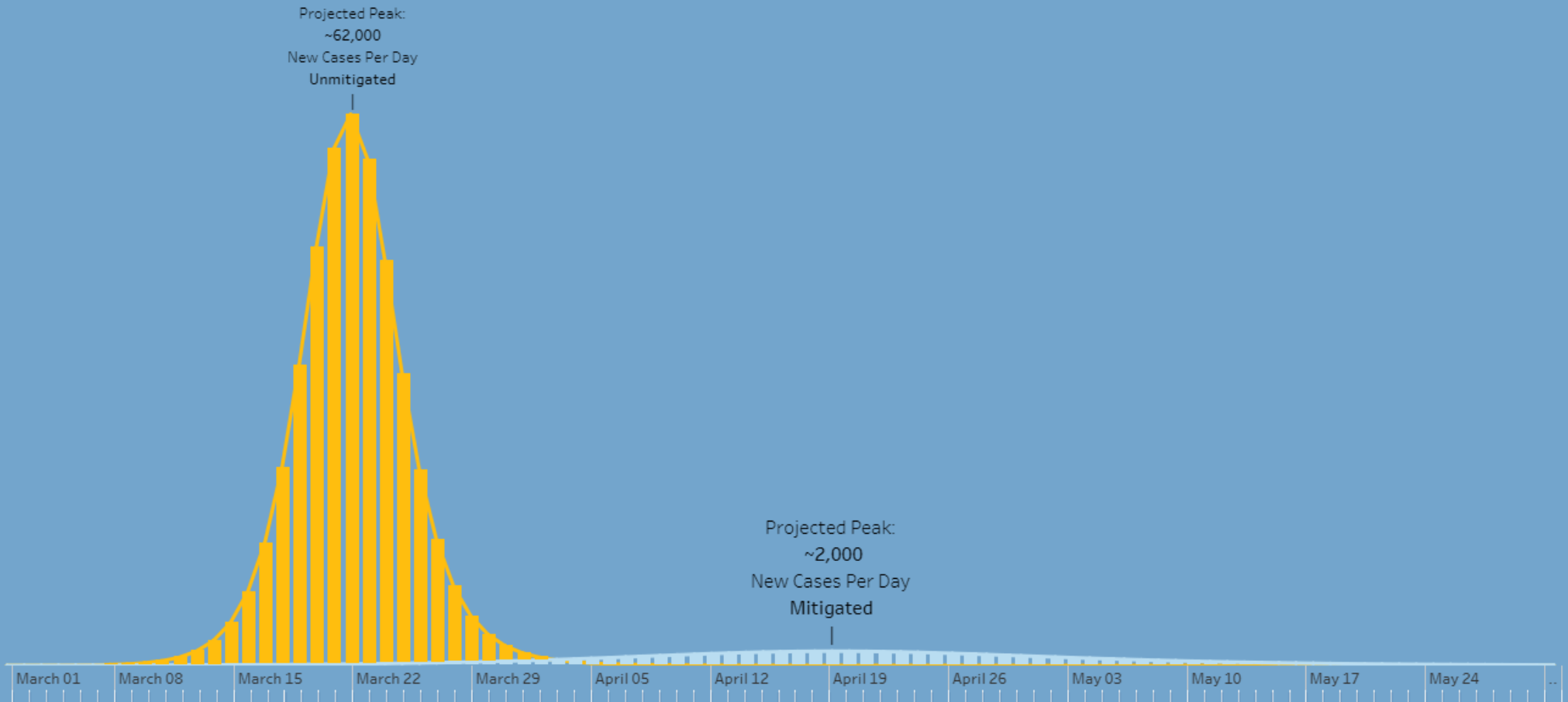
Statewide Modeling - Surge Planning

Ohio Department of Health

The data model driving this visualization is provided by Quantitative Epidemiologists at the Infectious Diseases Institute at The Ohio State University.

The Mitigated curve factors in the preventative measures taken by all Ohioans, while the Unmitigated curve does not.

Projections current as of 04/05



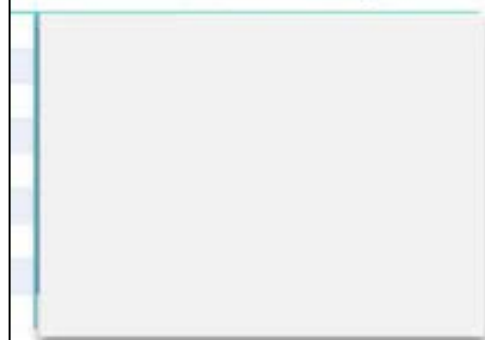
OHA Data Dashboard- Surge Planning

HOSPITAL SURGE PLANNING, BY REGION

shows statewide, and by region, estimates for all COVID-19 positive patients. The estimated hospital occupancy represents an estimate for all hospitalized COVID-19 (care level). The number shown for Beds Available includes all bed types submitted to OHA through the OHA Hospital Resource Tracker.

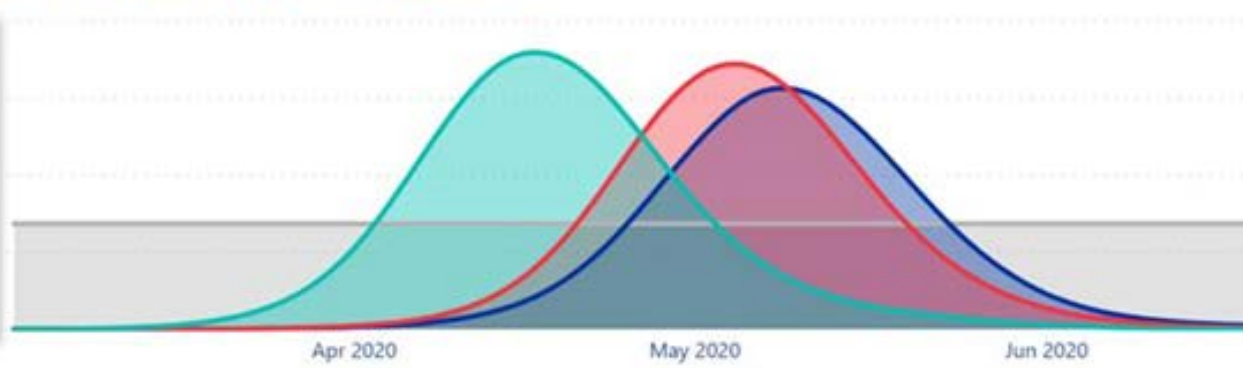
PEAK OCCUPANCY

Max Surge, Low Max Surge, Mean Max Surge, High



ESTIMATED HOSPITAL OCCUPANCY, BY DATE

● Beds Available ● ValueLow ● ValueMean ● ValueHigh



CITY SUMMARY

Region	Beds Available	Bed Total Capacity	Current Utilization %
			53%
			59%
			45%
			48%
			52%
			49%
			43%
			54%
			52%

ESTIMATED BEDS NEEDED, AT PEAK OCCUPANCY

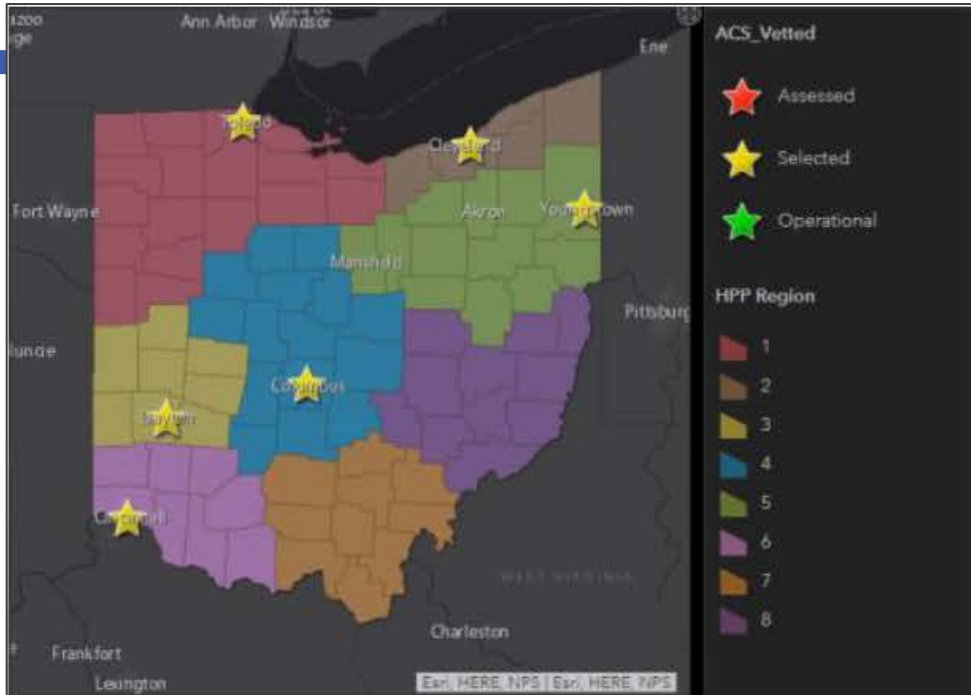
Emergency Region	Beds Available	Max Surge, Mean	*Beds Needed, Mean	Max Surge, High	*Beds Needed, High
Region 1					
Region 2					
Region 3					
Region 4					
Region 5					
Region 6					
Region 7					
Region 8					
Total					

NOTES

Beds Needed es calculated using available, as sub OHA Hospital R Tracker.

Beds Needed es (displayed in the left) are shown f occupancy estim graph above to patient occupan available over ti

Alternative Care Sites



Total ACS Beds
3,714

Source: ADJ-OH: Updated Daily after 8:00 PM

Last update: 3 minutes ago

Assessed - Engineer Assessment Complete
Selected - Selected as an Alternate Care Site
Operational - Site is Equipped and staffed

Seagate Convention Center

★ Status: **Selected** HPP Region: **1** County: Lucas
 Type: Non COVID-19 Patients Planned Activation Date: 4/22/2020
 Bed Capacity: 415 Beds Available: 0 Bed Utilization: 0

Case Health Education Campus

★ Status: **Selected** HPP Region: **2** County: Cuyahoga
 Type: Non-acute, COVID-19 patients Planned Activation Date: 4/15/2020
 Bed Capacity: 1,030 Beds Available: 0 Bed Utilization: 0

Dayton Convention Center

★ Status: **Selected** HPP Region: **3** County: Montgomery
 Type: Low acuity COVID-19 Patients Planned Activation Date: 4/22/2020
 Bed Capacity: 460 Beds Available: 0 Bed Utilization: 0

Greater Columbus Convention Center

★ Status: **Selected** HPP Region: **4** County: Franklin
 Type: Low acuity COVID-19 Patients Planned Activation Date: 4/10/2020
 Bed Capacity: 1,000 Beds Available: 0 Bed Utilization: 0

Covelli Convention Center

★ Status: **Selected** HPP Region: **5** County: Mahoning
 Type: Non-acute, COVID-19 patients Planned Activation Date: 4/16/2020
 Bed Capacity: 280 Beds Available: 0 Bed Utilization: 0

Duke Energy Convention Center

★ Status: **Selected** HPP Region: **6** County: Hamilton
 Type: Acute & non-acute COVID-19 Planned Activation Date: 4/22/2020
 Bed Capacity: 529 Beds Available: 0 Bed Utilization: 0

OHA collaborates with member hospitals and health systems to ensure a health Ohio

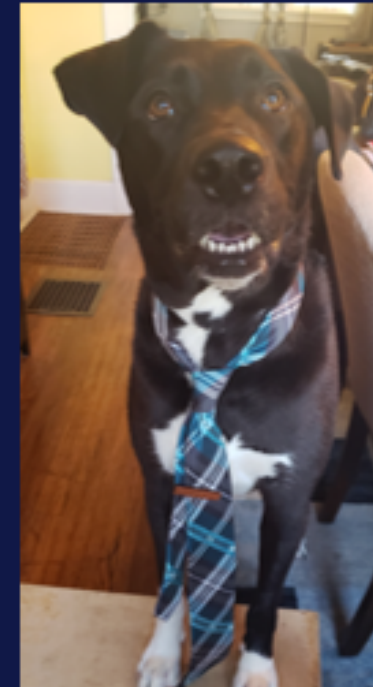



QUESTIONS?

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 [HelpingOhioHospitals](https://www.facebook.com/HelpingOhioHospitals)

 [@OhioHospitals](https://twitter.com/@OhioHospitals)

 www.youtube.com/user/OHA1915



Surge Planning for COVID-19: A Neonatal Perspective

Jim Greenberg, MD

Perinatal Institute

April 10, 2020

James Greenberg, MD

Cradle Cincinnati; Ohio Collaborative to Prevent Infant Mortality (OCPIM)

Perinatal Institute - Cincinnati Children's Hospital



Surge Planning for COVID-19: A Neonatal Perspective

- More patients
- In non-traditional repurposed settings
- Pediatrics/neonatology less impacted by COVID, but...
 - Mothers
 - Resources
- How is Neonatology affected?
 - PPE conservation
 - Equipment
 - Attractive real estate
 - Re-deployment of hospital personnel
- Personnel

PPE Conservation

- Closure of low volume delivery services (with re-assignment of staff)
- Reduction in use of PPE

Equipment

- Appropriation of ventilators from level II (SCN) settings
- Potential impact:
 - Lower threshold for transfer to higher level of neonatal care
 - Might impact bed capacity at a level II/IV center

Attractive Real Estate, etc.

- Repurpose level II/III space for COVID care
- Headwalls
- Personnel (?)
- Some extant infrastructure, equipment, supplies
- Staffing during transition
- Lead time
- Labor & Delivery services
- Transition to level I
- Transport
 - Capacity
 - Duration (1.5 hours/pt)

Attractive Real Estate

- Creating a new level II or III nursery
 - Staffing: MD, RN, RT, ancillary
 - Space
 - Supplies
 - Families
 - Communication
- Cincinnati
 - One L&D service closed
 - Ventilators and anesthesia machines (C/S rooms) targeted for repurposing
 - One level II location moved to new location
 - Nursery closing: Two false starts

Concepts

- Equipment
- People
- Places
- Collateral impact
- Inter-institutional interactions

Outside of the Hospital

- Disproportionate impact on Black, Latino communities
- Restricted hospital visitation policies
- Masks
- Home deliveries <https://youtu.be/HNELmKmVLRA>
- Exacerbation of systematic inequities

ProMedica Health System COVID-19 Planning



Featured Locations

- [ProMedica Bay Park Hospital](#)
- [ProMedica Bixby Hospital](#)
- [ProMedica Coldwater Regional Hospital](#)
- [ProMedica Defiance Regional Hospital](#)
- [ProMedica Flower Hospital](#)
- [ProMedica Fostoria Community Hospital](#)
- [ProMedica Health and Wellness Center](#)
- [ProMedica Herrick Hospital](#)
- [ProMedica Memorial Hospital](#)
- [ProMedica Monroe Regional Hospital](#)
- [ProMedica Toledo Hospital](#)
- [ProMedica Russell J. Ebeid Children's Hospital](#) *(Formerly ProMedica Toledo Children's Hospital)*
- [ProMedica Wildwood Orthopaedic and Spine Hospital](#)

Kay Smith, MSN, CNM
ProMedica Toledo
VP Operations –Women & Pediatrics



ProMedica Health System COVID-19 Planning

Why designate a “COVID-19” Hospital?

In general

- Centralized location
- Favorable infrastructure
- Maintain “normal” unit function
- Public concerns for exposure
- Limiting/Managing Exposure

Obstetrics

- Could convert whole floor to negative pressure rooms
- Level 2 obstetrical designation
- Non COVID patients diverted to other OB units in the system
- Allow fluid access for COVID-19 positive or PUI

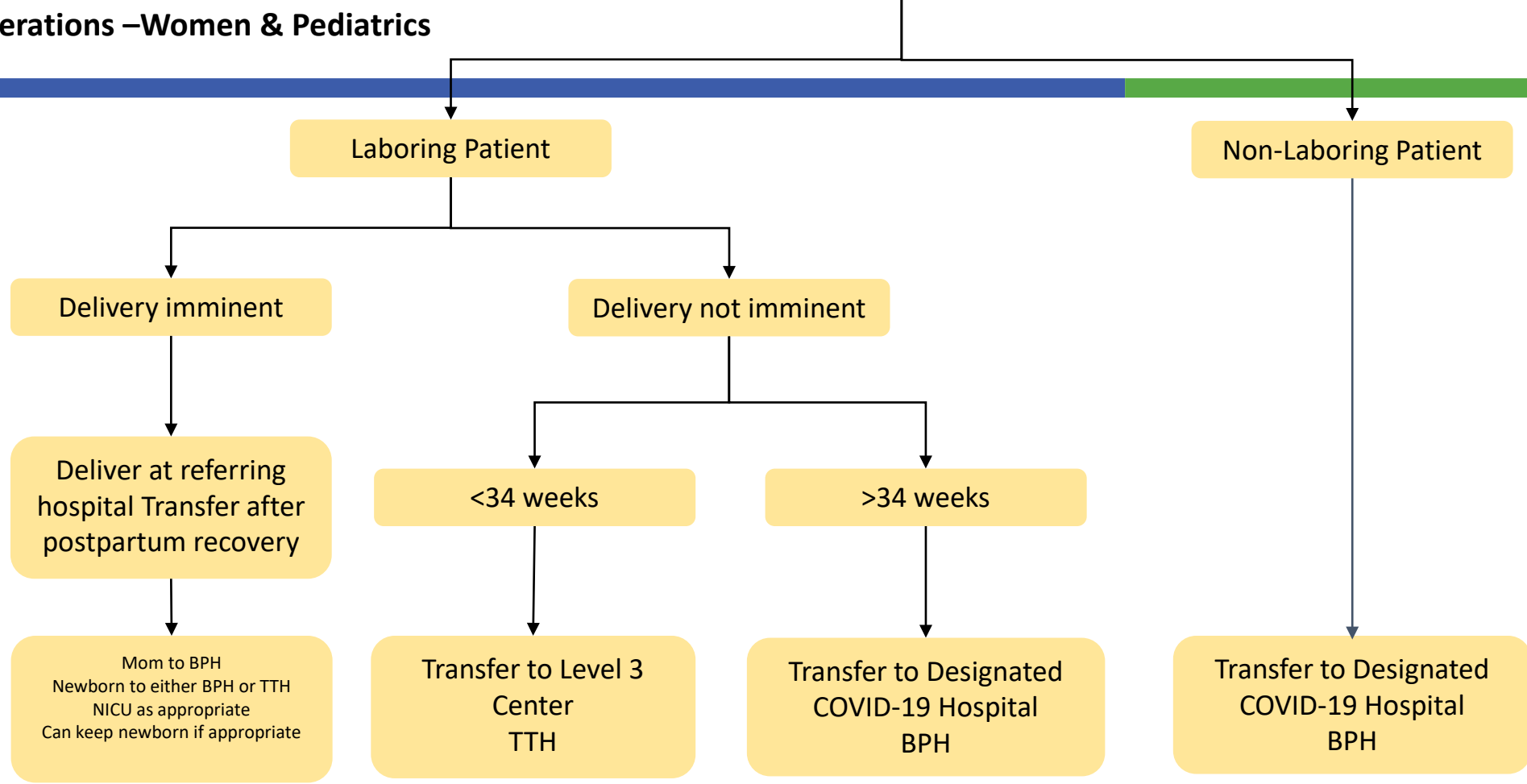
Kay Smith, MSN, CNM

ProMedica Toledo

VP Operations –Women & Pediatrics



Suspected or positive Covid-19 pregnant patient needing admission



CALL ACCESS FOR TRANSFER OF MOM AND/OR BABY

For maternal transport
 Consult MFM, ID, BPH Hospitalist/Intensivist
 Notify on MD/CNM on call at BPH
 Notify TTH if indicated < 34 weeks

For newborn transport
 Notify NICU if newborn transfer requested
 Notify BPH pediatrician if going to BPH

BPH: Bay Park Hospital
 TTH: Toledo Hospital

What ProMedica Toledo has done in Obstetrics

- In situ simulations to assess preparedness for COVID-19 patients
- Converted labor rooms and OR to negative pressure
- Screen all scheduled cesareans and induction day before admission
- Stopped use of nitrous in all OB patients
- Stopped use of supplemental O2 for fetal intrauterine resuscitation
- Use of *DEROSA* Shield for vaginal deliveries
- Stopped postpartum sterilization
- Early discharge for postpartum patients
- N95 and eye protection for all patient encounters
- N95, eye protection, gown, gloves for all COVID-19 positive or PUI



Kay Smith, MSN, CNM
ProMedica Toledo
VP Operations –Women & Pediatrics



Lessons Learned in NYC- Columbia University Medical Center



Dena Goffman, MD is currently the Chief of Obstetrics and Associate Professor in Obstetrics and Gynecology at Sloane Hospital for Women at New York-Presbyterian Hospital and Columbia University Medical Center and the Associate Chief Quality Officer for Morgan Stanley Children's Hospital & Sloane Hospital for Women.



Breslin N, Baptiste C, Miller R, Fuchs K, Goffman D, Gyamfi-Bannerman C, D'Alton M. COVID-19 in pregnancy: early lessons. *American Journal of Obstetrics & Gynecology MFM*. 2020 Mar 27:100111.

Future Discussion/Webinars

COVID-19 -What Maternity and Neonatal Care Providers Are Learning

Friday, April 17th 12N-1pm

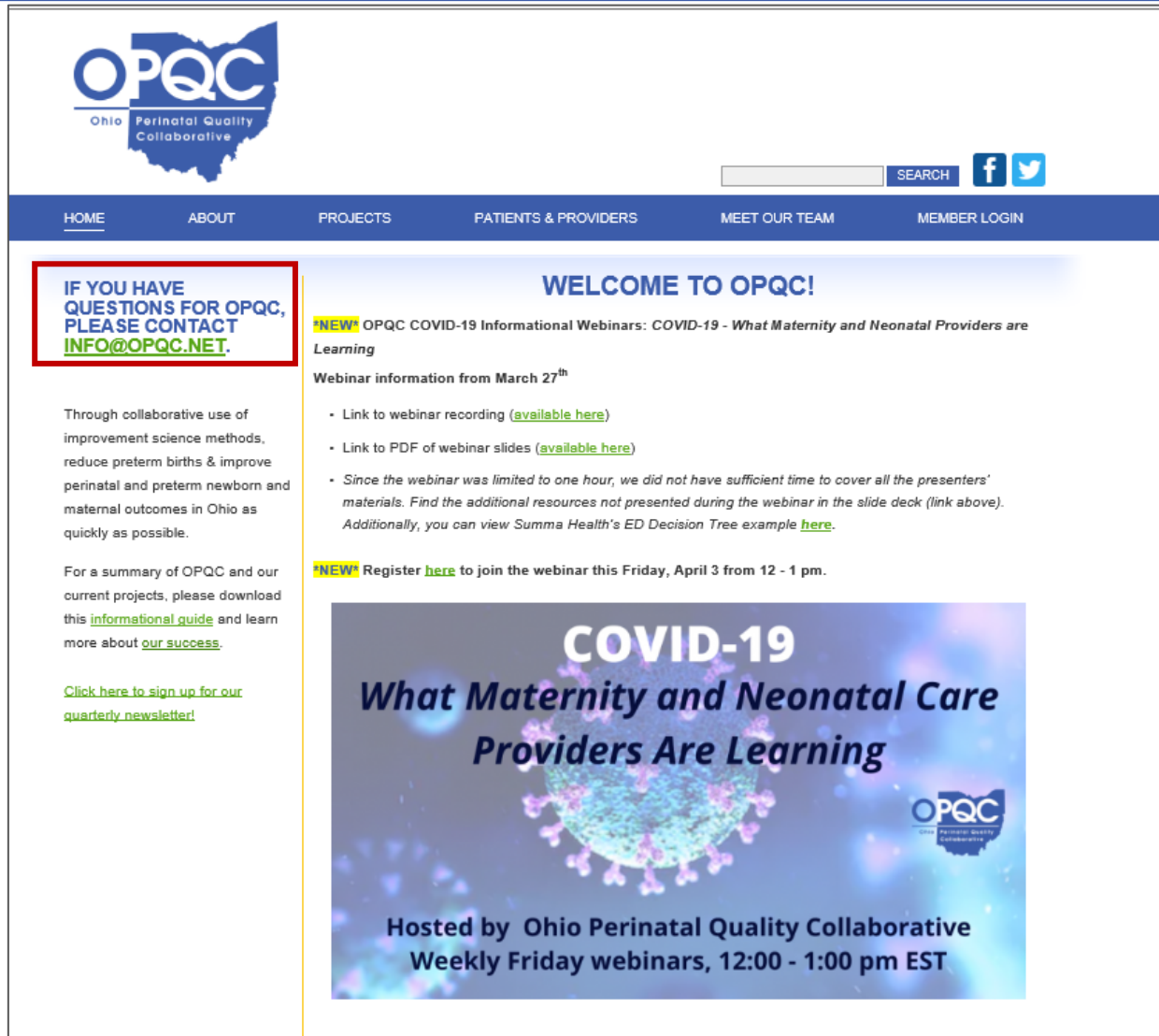
Goal: Care of the critically ill COVID+ pregnant patient (case study) including use & benefit of simulation and debriefing

April 2020						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Contact information for today's presenters

- Dr. Mike Marcotte: michael_marcotte@trihealth.com
- Ryan Everett: Ryan.Everett@ohiohospitals.org
- Dr. Jim Greenberg: James.Greenberg@cchmc.org
- Kay Smith: kay.smith@promedica.org
- Susan Ford: susan.ford@UHhospitals.org
- info@opqc.net

Updated Resources on OPQC Website



The screenshot shows the OPQC website homepage. At the top left is the OPQC logo (Ohio Perinatal Quality Collaborative). To its right is a search bar and social media icons for Facebook and Twitter. Below this is a navigation menu with links for HOME, ABOUT, PROJECTS, PATIENTS & PROVIDERS, MEET OUR TEAM, and MEMBER LOGIN. The main content area features a 'WELCOME TO OPQC!' heading. A red-bordered box on the left contains the text: 'IF YOU HAVE QUESTIONS FOR OPQC, PLEASE CONTACT INFO@OPQC.NET.' Below this, there are two paragraphs of text: one about collaborative use of improvement science methods to reduce preterm births, and another about downloading an informational guide. A green link 'Click here to sign up for our quarterly newsletter!' is also present. The main content area continues with a 'NEW!' announcement for COVID-19 informational webinars, including a list of links to recordings and slides, and a note about the webinar's duration. Below this is another 'NEW!' announcement to register for a webinar on Friday, April 3, from 12-1 pm. At the bottom of the main content area is a large graphic for the COVID-19 webinar, titled 'COVID-19 What Maternity and Neonatal Care Providers Are Learning', hosted by OPQC. The graphic includes the OPQC logo and the text 'Hosted by Ohio Perinatal Quality Collaborative Weekly Friday webinars, 12:00 - 1:00 pm EST'.

The OPQC website has a list of information and resources that will be updated regularly:
<https://opqc.net/>

Contact us:
info@opqc.net

Take care out there

It takes a village...



Ohio Children's Hospital Association
Saving, protecting and enhancing children's lives



The OPQC QI projects are funded by the Medicaid Technical Assistance and Policy Program (MEDTAPP) and administered by the Ohio Colleges of Medicine Government Resource Center. The views expressed in this meeting are solely those of the authors and do not represent the views of state or federal Medicaid programs.

