## Clinical Laboratory COVID-19 Response Call

Welcome and Introductions

Jasmine Chaitram, CDC Division of Laboratory Systems

Performance Evaluation of Commercially Developed Serology Tests

Michele Owen, CDC Laboratory Task Force

Updates and Responses to Submitted Questions on Diagnostics and Testing

Tim Stenzel, U.S. Food and Drug Administration (FDA)

Additional CLIA Guidance for Testing Laboratories

Karen Dyer, Centers for Medicare & Medicaid Services (CMS)

COVID-19 Response – Hospital System on the Front Lines

James (Jim) Crawford, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell Health, Lake Success, New York

Nebraska's Public Health Laboratory Response

Peter Iwen, Nebraska State Public Health Laboratory

Reporting Testing Data to CDC

Jasmine Chaitram, CDC Division of Laboratory Systems

Laboratory Biosafety Update for COVID-19

Bill Arndt, CDC Division of Laboratory Systems

# To Ask a Question

- Using the Webinar System
  - Click the Q&A button in the Zoom webinar system
  - Type your question in the Q&A box
  - Submit your question
  - Please do not submit a question using the chat button

 For media questions, please contact CDC Media Relations at media@cdc.gov.

## CDC Laboratory Task Force – COVID-19 Testing

CDC guidance on specimen collection and transport for COVID-19 testing

https://www.cdc.gov/coronavirus/2019-ncov/lab/guidelines-clinical-specimens.html

CDC guidance on evaluating and testing persons for coronavirus disease

https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-criteria.html

## **CDC Laboratory Task Force – COVID-19 Testing**

For laboratories using the CDC EUA assay, please contact <a href="mailto:respvirus@cdc.gov">respvirus@cdc.gov</a> for laboratory testing guidance.

## Food and Drug Administration (FDA)

COVID-19 Emergency Use Authorization (EUA) Information: <a href="https://www.fda.gov/medical-devices/emergency-situations-medical-devices/emergency-use-authorizations">https://www.fda.gov/medical-devices/emergency-situations-medical-devices/emergency-use-authorizations</a>

COVID-19 Frequently Asked Questions: <a href="https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/coronavirus-disease-2019-covid-19-frequently-asked-questions">https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/coronavirus-disease-2019-covid-19/coronavirus-disease-2019-covid-19-frequently-asked-questions</a>

COVID-19 Updates: <a href="https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization#2019-ncov">https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization#2019-ncov</a>

## **Food and Drug Administration (FDA)**

COVID-19 Diagnostic Development: <a href="mailto:CDRH-EUA-Templates@fda.hhs.gov">CDRH-EUA-Templates@fda.hhs.gov</a>

Spot Shortages of Testing Supplies: 24 hour support available

- 1. Call 1-888-INFO-FDA (1-888-463-6332)
- 2. Then press star (\*)

## Centers for Medicare and Medicaid Services (CMS)

## CLIA Laboratory Guidance During COVID-19 Memo and FAQs:

https://www.cms.gov/medicareprovider-enrollment-and-certificationsurveycertificationgeninfopolicy-and-memos-states-and/clinical-laboratory-improvement-amendments-clia-laboratory-guidance-during-covid-19-public-health

## FAQs Only

https://www.cms.gov/medicare/quality-safety-oversight-general-information/coronavirus

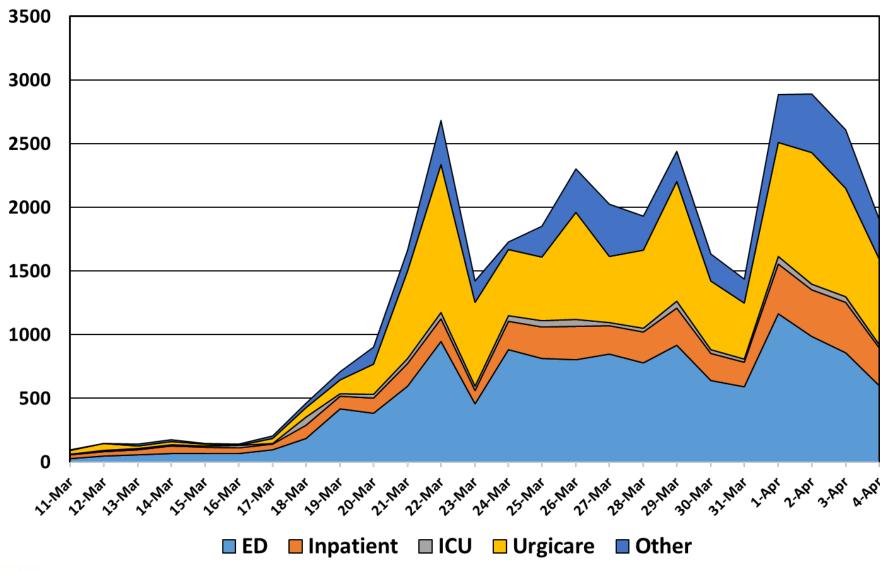
#### Center for Surveillance, Epidemiology, and Laboratory Services

# COVID-19 Data Northwell Health Laboratories Update April 6, 2020

James M Crawford, MD PhD jcrawford1@northwell.edu

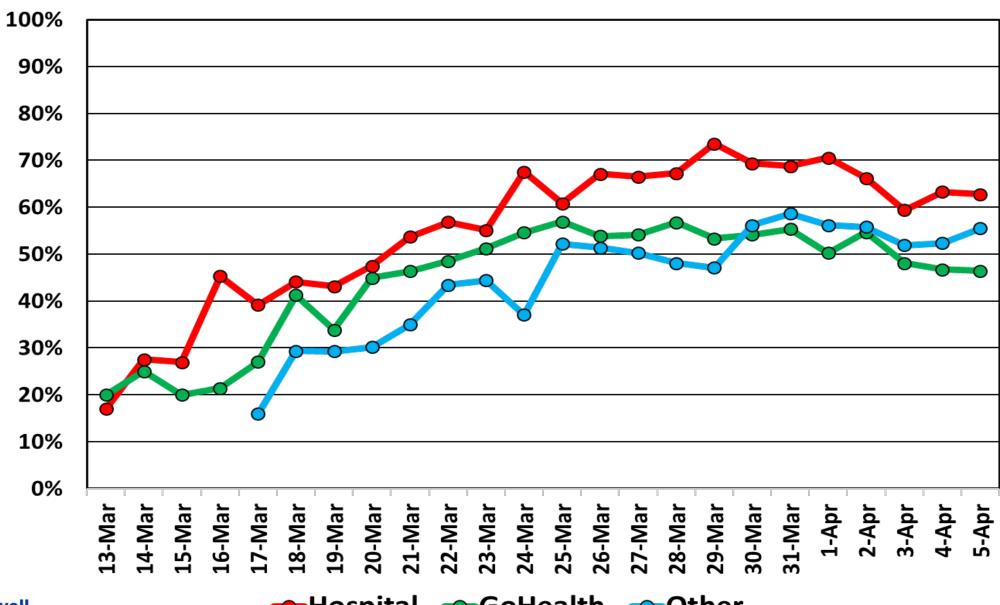


## **Daily Tests by Clinical Site**



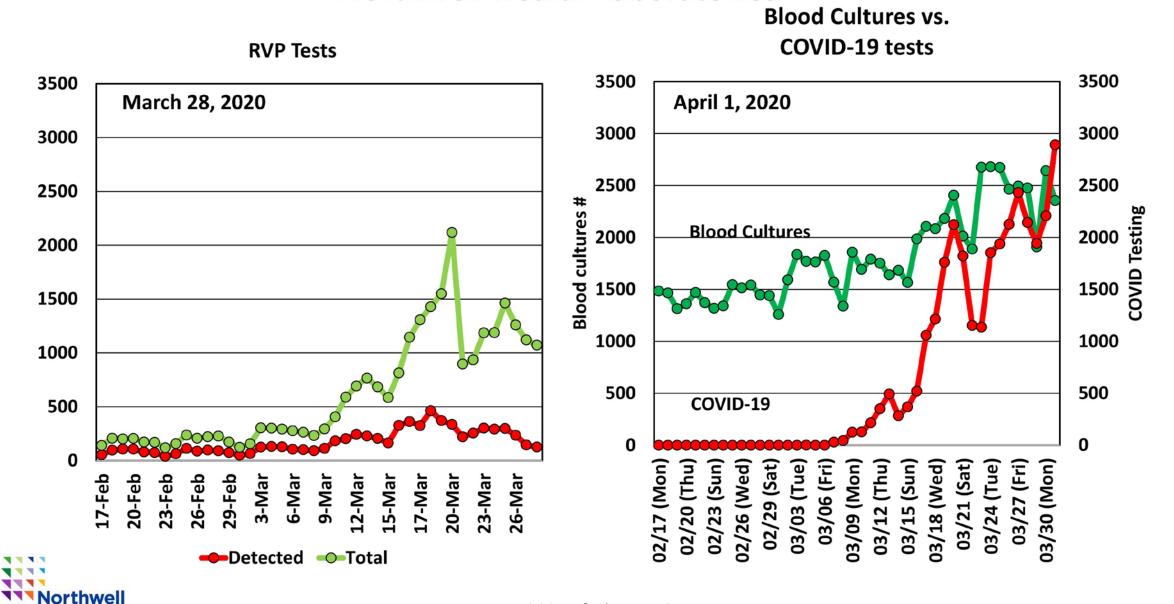


### **Northwell: COVID-19 Daily Test Positivity Rates**



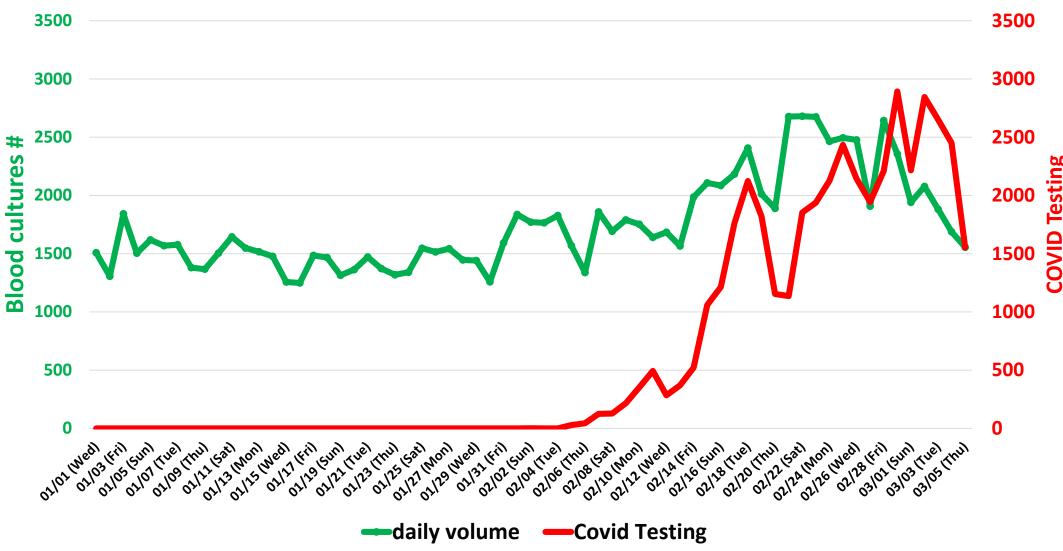


#### **Northwell Health Laboratories**



Health\*

#### Blood Culture Bottles per Day, vs. COVID-19 Test Orders





# COVID-19 Laboratory Considerations (in progress)

- Negative Predictive Value (NPV) of [COVID-19 PCR] "Not Detected"
- Serologic Testing for COVID-19 Immunoreactivity
- Point-of-Care (POC) Testing for COVID-19
- [COVID-19 PCR] Testing at Hospital Sites (vs. Core Lab)
- "Need to know" [COVID-19 PCR] testing (e.g., Pre-Surgical Testing)
- Preparing for "Convalescent Plasma"



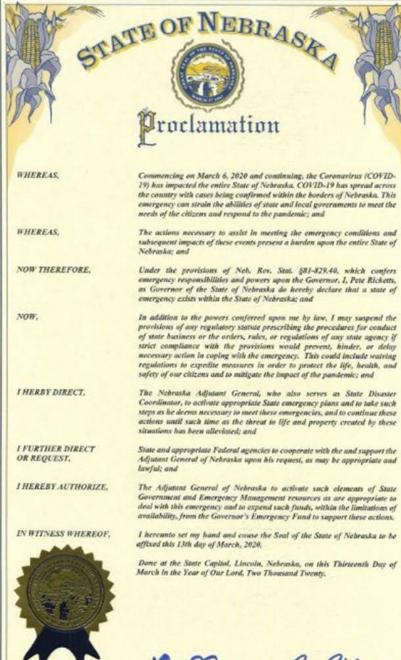
#### Center for Surveillance, Epidemiology, and Laboratory Services

Nebraska's Response to COVID-19



# Timeline of Important Events

	12-01-19	First human case of nCoV (Wuhan, China)		
	01-22-20	Repatriation of Americans from China to NQU in Omaha		
	-began validation of the WHO assay			
	01-29-20	Discussion to repatriate 250 individuals to Omaha		
	01-30-20	WHO declared nCoV a PH emergency of International Concern		
	02-02-20	Omaha designated as one of four sites for federal quarantine		
	02-06-20	US declared nCoV a National PH Emergency		
	02-07-20	NPHL ordered the nCoV 2019 EUA from IRR		
	02-08-20	57 people arrived in Omaha for federal quarantine		
	-Re	ceived the EUA		
	02-09-20	Completed the verification process for the EUA		
	02-17-20	Received 14 people from the Diamond Princess		
-12/14 positive for nCoV				
	-2 a	admitted to the Nebraska Biocontainment Unit		
	03-13-20	Governor declared a State of Emergency in Nebraska		



ATTEST:



# Federal Quarantined Travelers



# Federal Quarantined Travelers

14 Diamond Princess travelers quarantined Medium 21 days (range 14d to 33d)

Day 1 12/14 NP+ 7/14 OP+

Day 10 9/14 NP+ 2/14 OP+

Serial testing, 3 negative specimens before released

Total 205 specimens 100 Negative

77 Positive

28 Inconclusive

# Group Testing of Pooled Specimens

Iwen, Peter C



Pete Ricketts

STATE OF NEBRASKA

P.O. Box 94848 \* Lincoln, Nebroda 68589 4848.

Phone- (102) 471-2214 • pere richette/cichrodox gov-

Sent: To:

From:

Feldblyum, Tamara «Tamara Feldblyum@fda.hhs.gov»

Friday, March 27, 2020 6:38 AM Hinrichs, Steven H. Sapsford, Kim E. U. U. (CDRH)

Iwen, Peter C: Goldberg, Brittany RE New EUA for bridging to CDC EUA

March 24, 2020

Dr. Jeffrey P. Gold, Chancellor University of Nebraska Medical Center 987400 Nebraska Medical Center Omaha, NE 68198-7400

Dear Dr. Gold:

I write in response to your March 24, 2020, letter concerning the conservation of reagents used for COVID-19 testing at the Nebraska Public Health Laboratory. I give my full authorization to explore and proceed with all reasonable measures to expand testing at this time.

Thank you for all of your help.

Sincerely.

Pete Ricketts Governor

> Peter Iwen, Ph.D., D(ADMN), Lab Director, NPHL Steven H. Hinrichs, M.D., Clinical Consultant, NPHL

Non-UNMC email

Dear Dr. Hinrichs,

Taking into consideration the current shortage of testing reagents and medical supplies and the supporting information you provided, FDA will not object to your laboratory testing pools of five specimens while the positive test rate is below 10%. However, if the positive rate for SARS-CoV-2 in the testing population exceeds 10%, pooling of clinical specimens should no longer be performed at your testing site.

Best regards,

Tamara Feldblyum, M.S., Ph.D. Branch Chief, Viral Respiratory and STI Branch Division of Microbiology Devices | Office of In Vitro Diagnostics and Radiological Health Office of Product Evaluation and Quality

CDRH | Food and Drug Administration White Oak, Bldg. 66, Rm. 3106 | 10903 New Hampshire Avenue | Silver Spring, MD 20993 Ph: (301) 796-6196 Tamara Feldblyumstifda, hhs.gov



# Group Testing of Pooled Specimens

#### 24Mar – 3April

Began 24March

Pooled specimens 939

No. of pools 189

No. pools positive 50

Extraction/PCR reagents used 441

Extraction/PCR reagents saved 498 (53.0%)

#### Note:

Pooling will not work if the rate of infection exceeds 15%. Loss of sensitivity seems to be minimal (1.5 to 2.5 CTs) Splitting any pool with late CT amplification (40 to 45 CTs)

<sup>\*</sup>Predictor variables Low risk specimens vs high risk

# Number of Positive and Not Detected Tests (N = 4,618) on Nebraska Residents by Performing Laboratory - Nebraska, February-April 2020

3	Lab Status		
	Not Detected N	Positive N	Grand Total
Performing laboratory			
The Nebraska Medical Center Clinical Lab	1578	80	1658
Nebraska Public Health Laboratory	1340	103	1343
LabCorp	551	21	572
CHI/Creighton	328	26	354
Avera Laboratories	192	10	202
ARUP	141	2	143
Quest	132	10	142
Mayo	61	1	62
Focus Technology	58	1	58
PLAB	42	3	45
Other	33	6	39
Total	4356	262	4618

**Roche Cobas** 

Abbott m2000

Result to 1Apr2020



## **Biosafety Resources**

COVID-19 Information for Laboratories page:

https://www.cdc.gov/coronavirus/2019-ncov/lab/index.html

Interim Laboratory Biosafety Guidelines:

https://www.cdc.gov/coronavirus/2019-nCoV/lab/lab-biosafety-guidelines.html

Laboratory Biosafety Frequently Asked Questions:

https://www.cdc.gov/coronavirus/2019-ncov/lab/biosafety-faqs.html

Send Inquiries to: <a href="mailto:DLSInquiries@cdc.gov">DLSInquiries@cdc.gov</a>

## **CDC Information for Laboratories**

Interim Guidance for Collecting, Handling, and Testing Clinical Specimens

https://www.cdc.gov/coronavirus/2019-nCoV/lab/guidelines-clinical-specimens.html

Diagnostic Tools and Virus

https://www.cdc.gov/coronavirus/2019-ncov/lab/tool-virus-requests.html

**Emergency Preparedness for Laboratory Personnel** 

https://emergency.cdc.gov/labissues/index.asp

CDC's Laboratory Outreach Communication System (LOCS)

https://www.cdc.gov/csels/dls/locs/

## **CDC Social Media**



Facebook: <a href="https://www.facebook.com/CDC">https://www.facebook.com/CDC</a>



Twitter: <a href="https://twitter.com/cdcgov">https://twitter.com/cdcgov</a>



LinkedIn: <a href="https://www.linkedin.com/company/cdc">https://www.linkedin.com/company/cdc</a>

## **Thank You For Your Time!**

