



Maryland Situation Update on Coronavirus disease (COVID-19) for Long Term Care

Maryland Department of Health

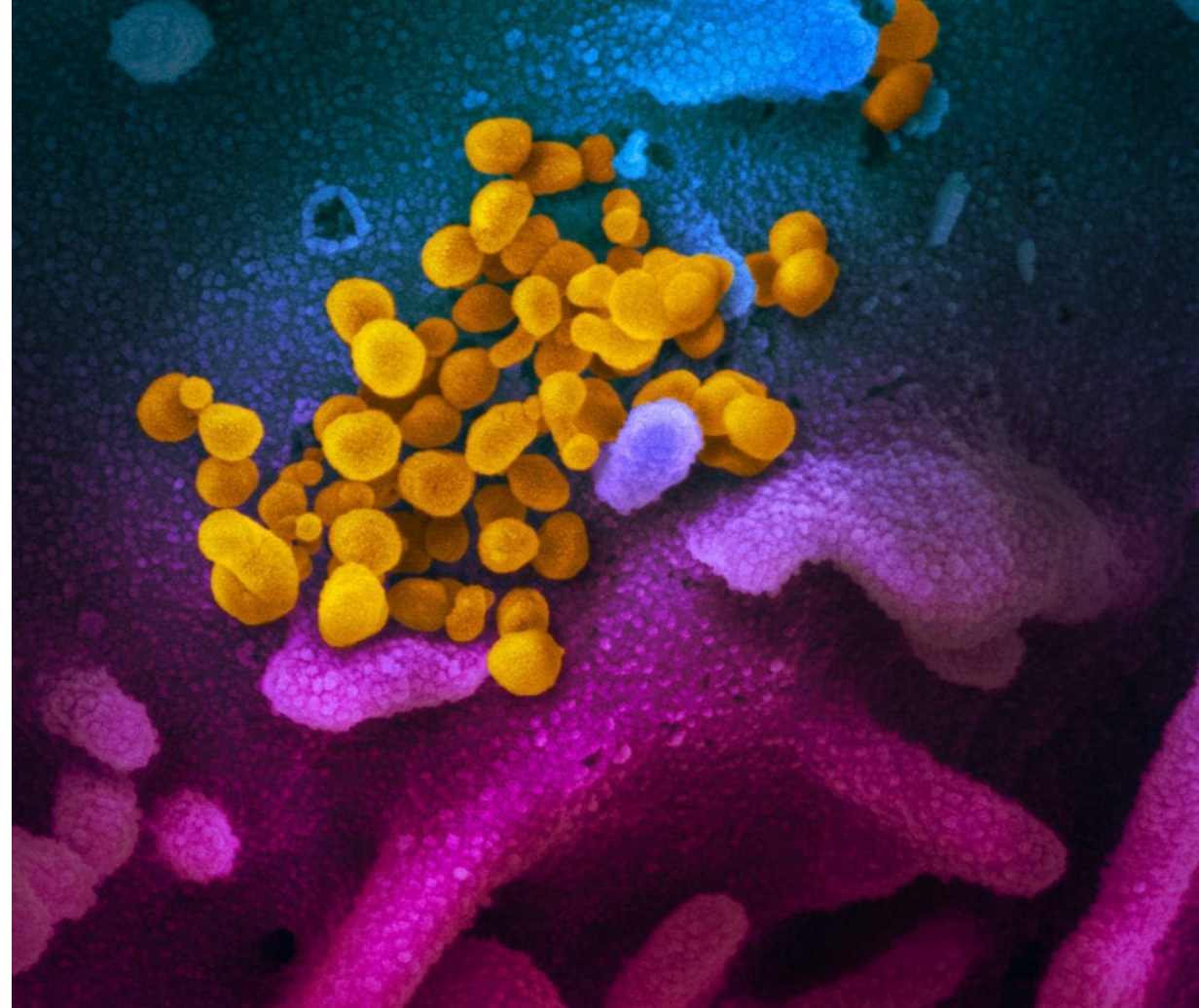
Infectious Disease Epidemiology and Outbreak Response Bureau

May 7, 2020

Call Agenda

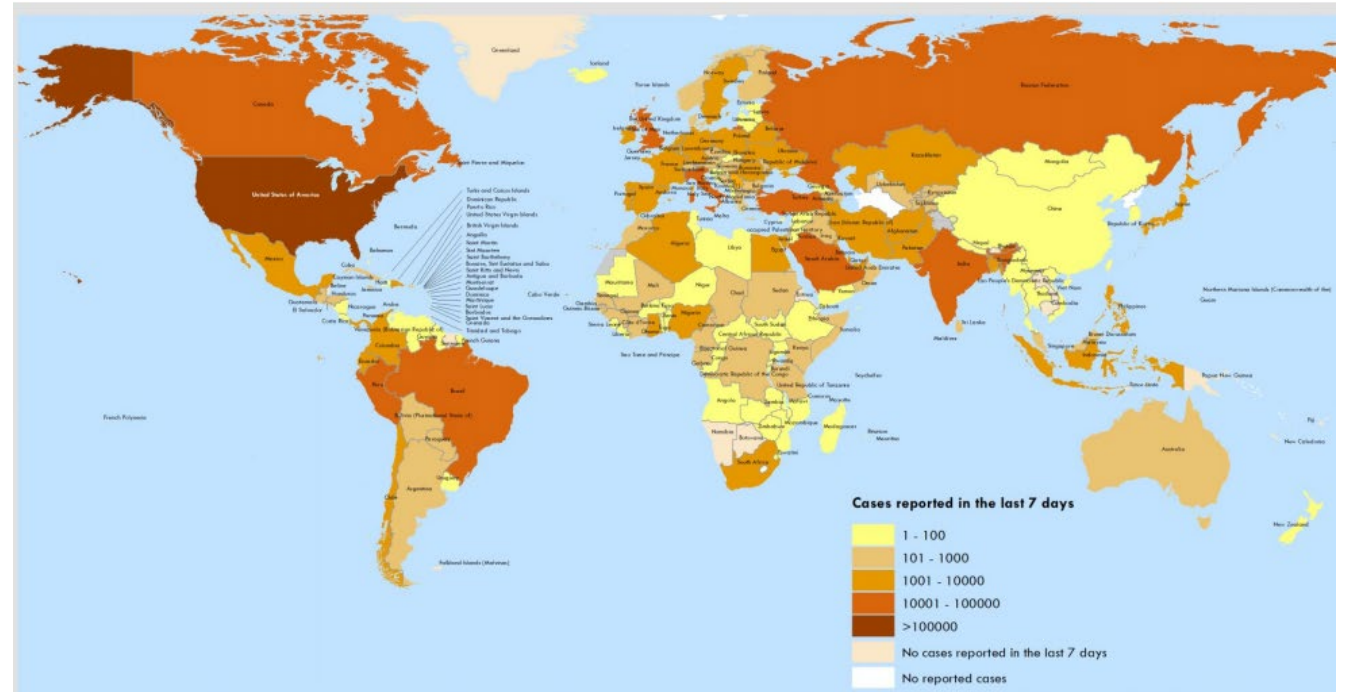
- Review current situation of COVID-19
- Specimen Collection Refresher
- General Updates
- Town Hall

Picture Courtesy of NIAID-RML



Worldwide: Confirmed COVID-19 Cases

- Cases
 - Total: 3,588,773 cases
 - Past 24 hrs: 71,463
- Deaths
 - Total: 247,503
 - Past 24 hrs: 4,102



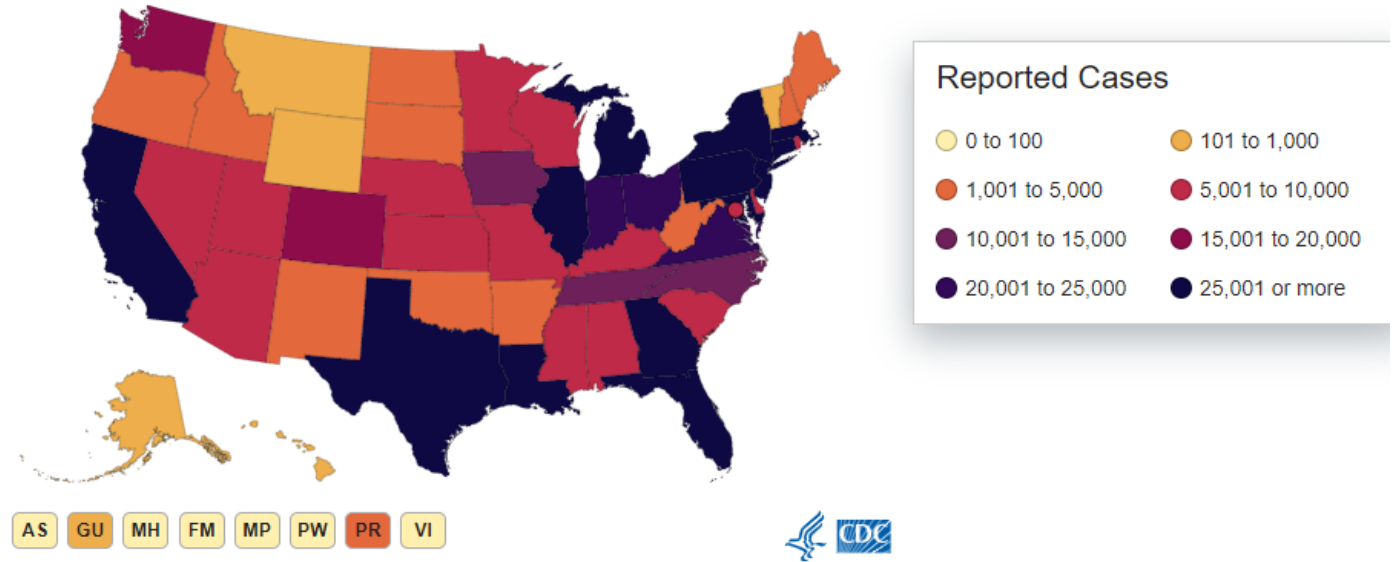
Data current as of May 7, 2020

Source: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports> accessed May 7 2020

United States: Confirmed COVID-19 Cases

- Total Cases: 1,193,813
 - New 22,393
- Total deaths 70,802
 - New 2,523
- Total Jurisdictions:55

21 states report more than 10,000 cases of COVID-19.

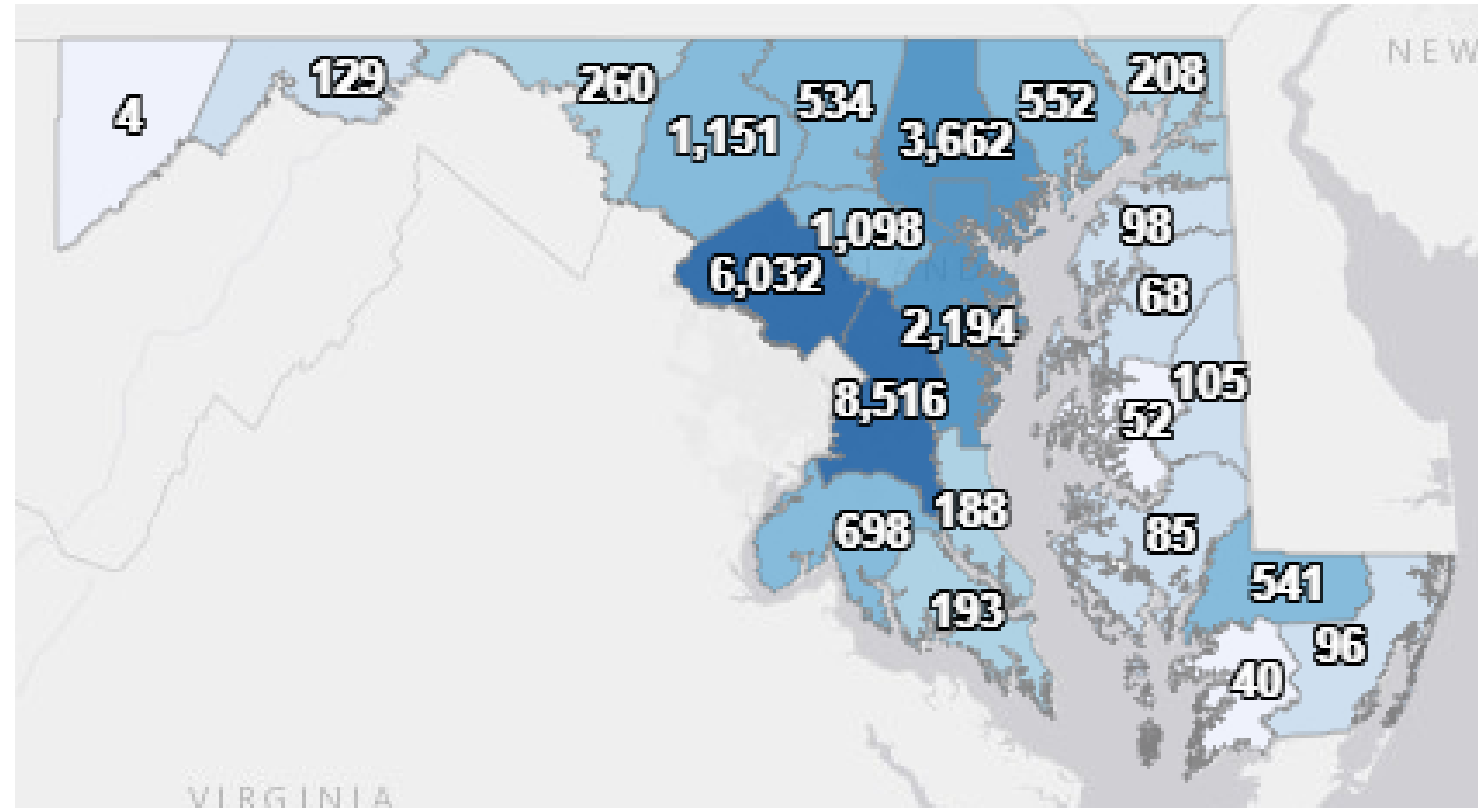


Data current as of 5/6

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html> accessed 5/7

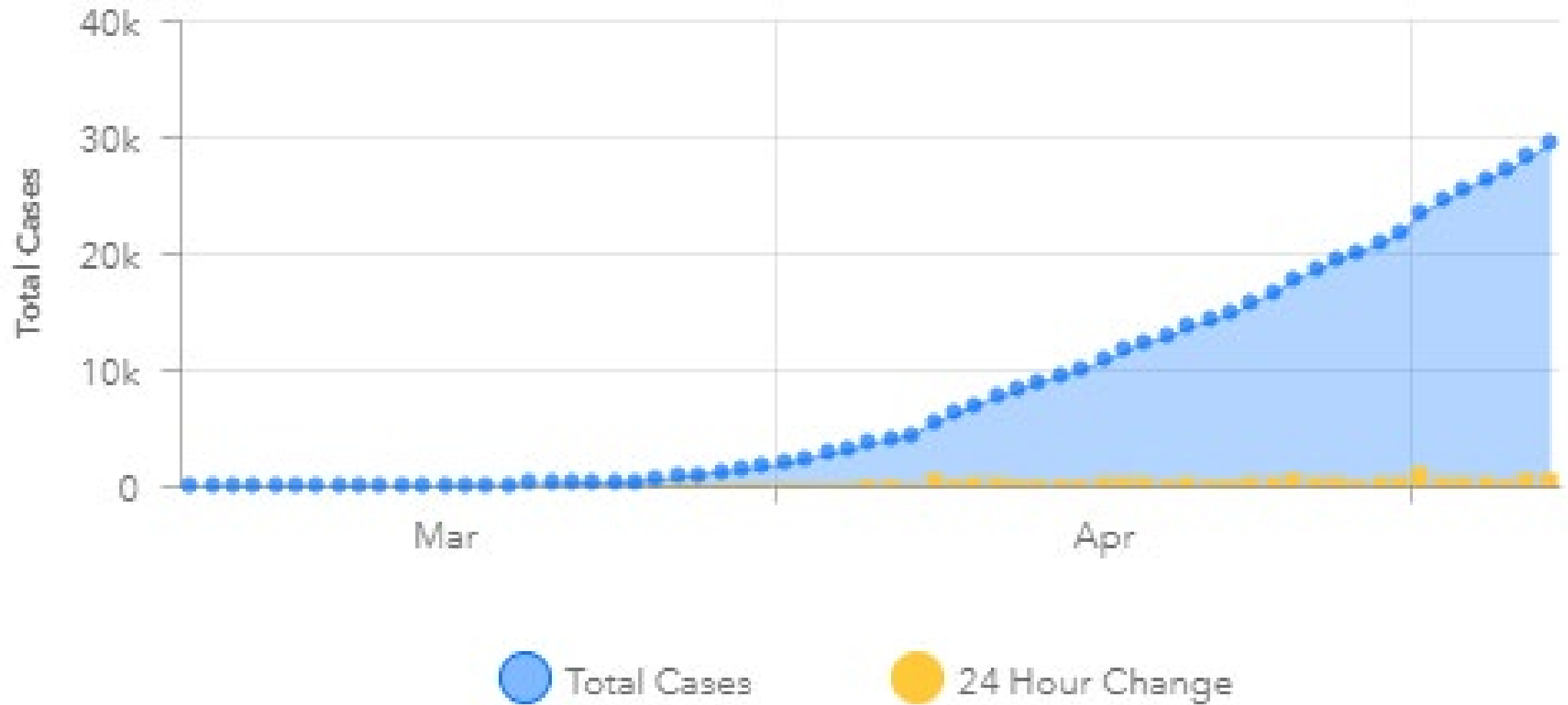
Maryland: Confirmed COVID-19 Cases

- Confirmed cases: 29,374
 - 1,211 new
- Negative test results: 119,226
 - 3377 new
- Deaths: 1,401 + 102 probable
 - 63 new
- Hospitalized: 5,663
 - 166 new



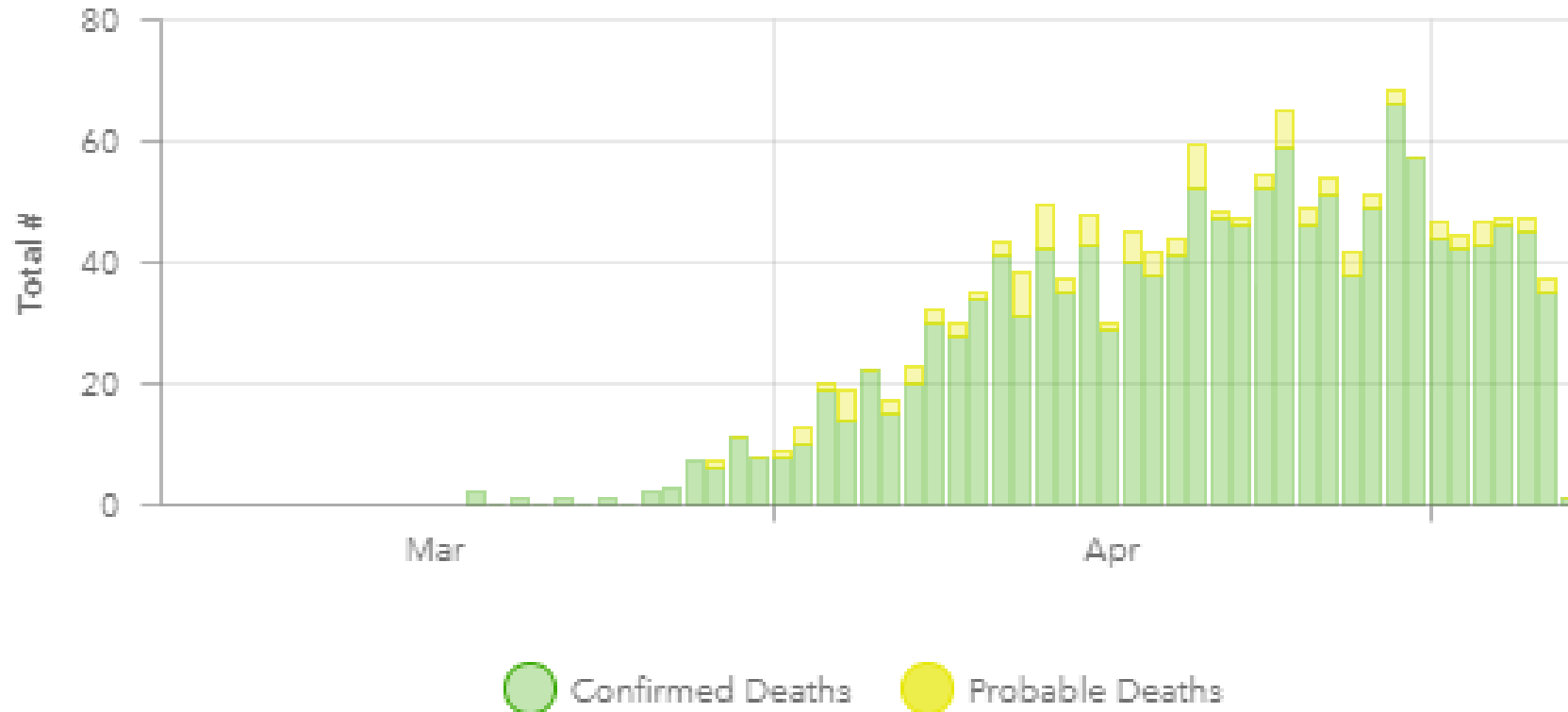
Source: <https://coronavirus.maryland.gov/>, accessed May 7, 2020

Confirmed Cases, Total over Time



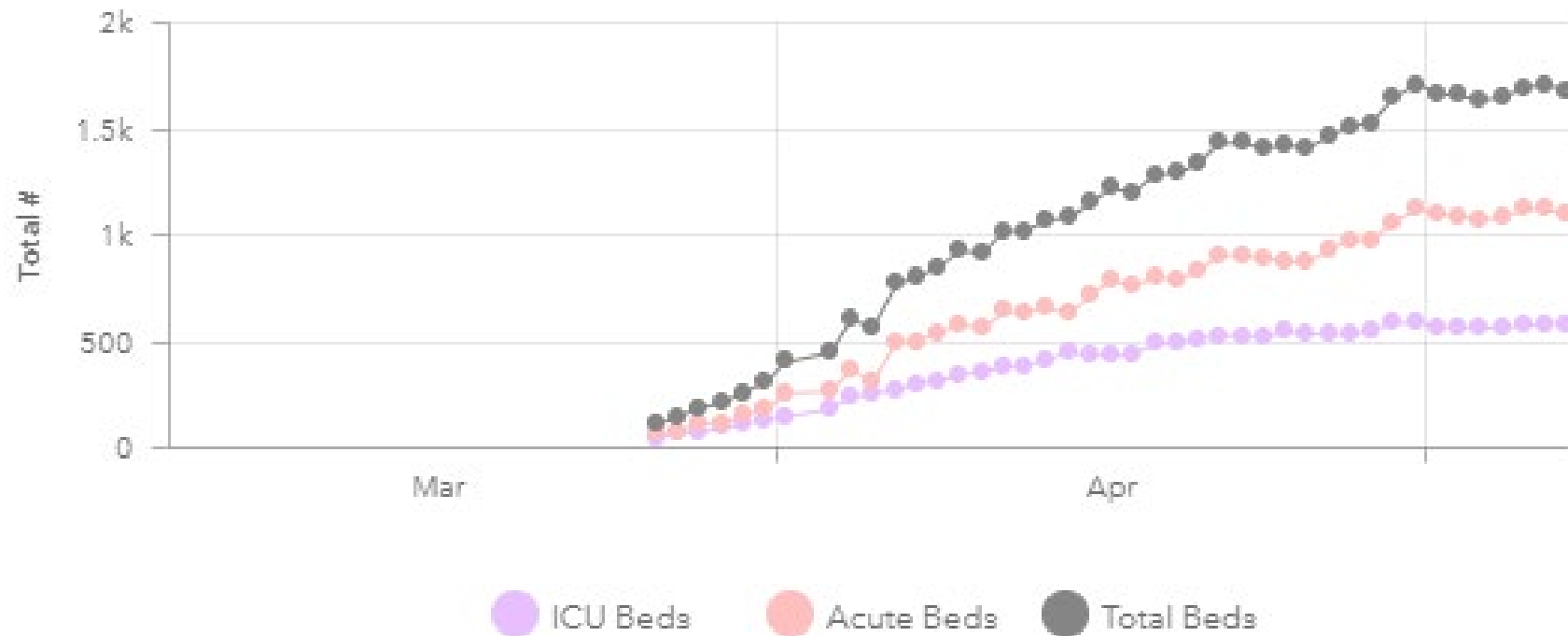
Maryland: COVID-19 Deaths

Confirmed and Probable Deaths, Totals by Date of Death



Acute care beds in use for COVID-19

ICU and Acute Hospital Beds for COVID-19, Currently in Use



Source: <https://coronavirus.maryland.gov/>, accessed May 7, 2020



Maryland Department of Health Electronic Test Ordering System for SARS-CoV2/COVID-19

Rebecca Abelman

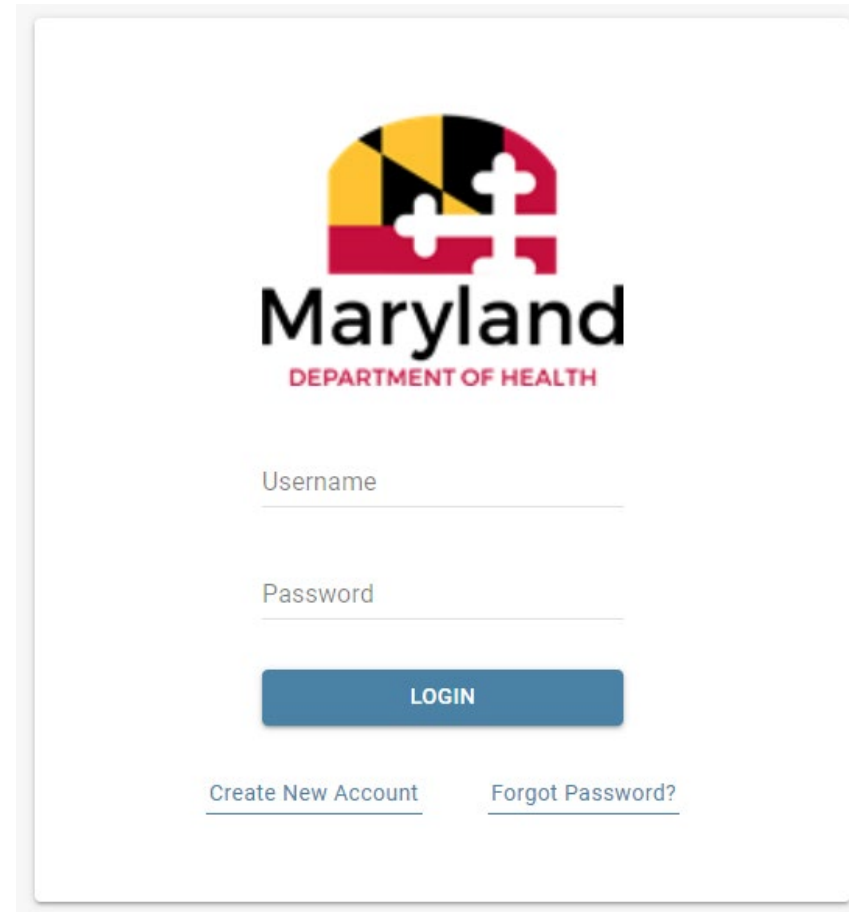
5/7/2020

Features of the Electronic Test Ordering System

- The Lab Web Portal (LWP) offers many features to improve the test ordering process and report receipt of COVID-19:
 - Streamlined electronic test requisitions
 - Printable requisitions to submit with specimens
 - Real-time syncing with the MDH Laboratory Information Management System (LIMS) for specimen tracking
 - Final Report/Result viewing and downloading directly on the LWP
 - Email notifications of available results
 - Batch entry for high volume submitters
- **Overall, implementation of the LWP decreases turn-around times**

A quick tour of the LWP

Individuals/Laboratories will be given secure logins



The screenshot shows a login interface for the Maryland Department of Health. At the top is the department's logo, which features a stylized cross and the colors of the Maryland state flag. Below the logo, the text "Maryland" is written in a large, bold, black font, with "DEPARTMENT OF HEALTH" in a smaller, red, all-caps font underneath. The login form consists of two input fields: "Username" and "Password", each with a horizontal line for text entry. Below these fields is a blue rectangular button with the word "LOGIN" in white, all-caps text. At the bottom of the form, there are two links: "Create New Account" and "Forgot Password?", both underlined and in a small, blue font.

Main Dashboard

The screenshot displays the main dashboard for the Maryland Department of Health. The top navigation bar includes the Maryland logo, a 'Dashboard' menu icon, and the user name 'REBECCA ABELMAN' with a settings gear icon. The dashboard features three key metrics: '0 PENDING REVIEW', '4 PUBLISHED REPORTS' (with a progress bar at 0% viewed), and '0 NEW ORDERS'. A left sidebar contains navigation options: 'Dashboard', 'Incomplete Orders', 'In Transit', 'All Specimens', 'ORDER TESTS', and 'VIEW REPORTS'. Callouts identify 'ORDER TESTS' as 'Online Test Ordering' and 'VIEW REPORTS' as 'View Final Results'. A settings gear icon is labeled 'Account Settings: Manage password and modify notifications'. A red-bordered inset shows the 'Forms' page with a callout for '2019 Novel Coronavirus', which is described as opening into 'COVID-19 LWP Online Requisition'.

COVID-19 LWP Online Requisition Form

Required fields in red

SPECIMEN INFORMATION

Submitting Facility Specimen ID

State PHL Specimen ID

Collection Date *

04/14/2020 08:00 am



Onset Date



Specimen Type *

Nasopharyngeal swab Oropharyngeal swab Nasopharyngeal and Oropharyngeal swab Sputum

Other

Test *

2019Novel Coronavirus

Approved Investigation Code

Include outbreak number if known (2020-###)

SUBMITTING FACILITY/PUBLIC HEALTH DEPARTMENT REQUESTOR (POINT-OF-CONTACT)

Submitting Facility *

LWP test facility



Select your facility

Last Name

First Name

Fill out your contact information

Phone

14

Investigation Id

Email

STATE HEALTH DEPARTMENT CONTACT

Select the state health department epidemiologist

Name



HEALTH CARE FACILITY (SPECIMEN COLLECTION SITE)

Select the facility where collections occurred via search or add a new facility

Facility Name *



Point-of-Contact

Test Request Authorized by

Indicate authorizing physician who ordered the test

Last Name *

First Name *

Title *



PATIENT DEMOGRAPHICS

Patient demographics opens into separate window (see next page)

Last Name *



Testing Priority Level and other comments *

Include MDH COVID-19 Testing Priority Codes (and any additional information if needed)

COVID-19 LWP Online Requisition – Patient Demographics

The screenshot shows a web application interface for COVID-19 LWP Online Requisition. The main form is titled "2019 Novel Coronavirus" and is for user "REBECCA ABELMAN". The form includes fields for Address, City (BALTIMORE), Point-of-Contact, Last Name, Phone, Clinical Lab ID (CLIA Num), Test Request Authorized, and PATIENT DEMOGRAPHICS. A modal window titled "Add new patient" is open, containing the following fields and options:

- SS# (last 4 digits):
- Last Name * (with a red asterisk)
- First Name * (with a red asterisk)
- Middle Name
- Date Of Birth * (with a red asterisk) and MRN
- Gender: Male Female Transgender Transgender M-F Transgender F-M Unknown
- Race: American Indian or Alaska Native Black or African American Asian White Native Hawaiian or Other Pacific Islander Other
- Ethnicity: Declined to Specify Hispanic or Latino Not Hispanic or Latino Other Unavailable Unknown
- Address

Buttons for "CLOSE", "CLEAR", and "SUBMIT" are located at the bottom right of the modal. A red box highlights the text "Include as much patient information as possible" at the top of the modal.

The LWP Requisition

- Once completed, the LWP generates a PDF requisition form
- This form needs to be printed and included with the specimen (in the place of a standard MDH requisition)
- The Order ID (OIDMD#) barcode is scanned by the MDH laboratory and corresponding information is automatically populated into the LIMS

Maryland Department of Health Laboratories Administration
 1770 Ashland Avenue, Baltimore, MD 21205
 (443) 681-3800
MDPH.L.ARLN@maryland.gov

2019Novel Coronavirus Screening Requisition



Order ID: **OIDMD200000473**

Specimen Information	
Submitting Facility Specimen ID:	State PHL Specimen ID:
Collection Date: 4/16/2020	Onset Date:
Specimen Type: Nasopharyngeal and Oropharyngeal swab	Test 2019Novel Coronavirus
Specimen Type Other:	

Approved Investigation Code:

Submitting Facility /Public Health Department Requestor (Point-of-Contact)	
Public Health Department: ELR.TEST	
Name:	Email:
Phone:	
Investigation ID (eg. Outbreak code):	

State Health Department Contact	
Name:	Email:
Phone:	Fax:





Health Care Facility (Specimen Collection site)			
Facility Name: ELR.TEST			
Address:			
City:	State:	Zip Code:	
Point-of-Contact:		Email:	
Phone:			
Clinical Lab ID (CLIA Number):	Facility Type:	Other:	
Test Request Authorization by: zoidberg, j	Title: CNM		

Patient Demographics			
SS#:			
Last Name: ETORtest	First Name: First		
Date of Birth: 01/23/1980	Gender: Female		
Race: Black or African American	Ethnicity: Unavailable		
Mrn:			
Address:			
City:	State:	Zip Code:	
Phone:			

Testing Priority Level and other comments:
a

Specimen tracking on the LWP

- Under “All Specimens” tab, you can view all COVID-19 specimens from your facility. This included specimens in transit to the lab, received by the lab and in processing, and released samples with final reports.
- Additionally, since the LWP portal is linked to the LIMS, **you can view results of COVID-19 samples submitted prior to the use of the LWP**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PORTAL ID ↗	STATUS ↗	PATIENT NAME ↗	PATIENT DOB ↗	COLLECTED ↗	SUBMITTED ↗	HEALTH CARE FACILITY ↗
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OIDMD200000473	ReceivedInLab	ETORtest_First	01/23/1980	04/16/2020 03:46 pm	04/16/2020	ELR_TEST
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		OIDMD200000008	Released	ETORtest_Four	06/06/1919	04/08/2020 12:00 am	04/10/2020	ELR_TEST
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		OIDMD200000007	Released	ETORtest_Three	05/27/2000	03/30/2020 12:00 am	04/10/2020	ELR_TEST
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		OIDMD200000002	Released	ETORtest_First	01/23/1980	04/10/2020 02:55 pm	04/10/2020	ELR_TEST
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		OIDMD200000001	Released	ETORtest_First	01/23/1980	04/10/2020 02:33 pm	04/10/2020	LWP TEST FACILITY

PDF icon indicates report available – click to download Final Reports

Real-time specimen tracking information

View Reports

The screenshot shows the Maryland Department of Health LIMS interface. The user is logged in as REBECCA ABELMAN. The 'Unread Reports' tab is active, showing 4 unread reports. The 'VIEW REPORTS' button in the left sidebar is circled in red. The main content area displays a table of test results with columns for LIMSACCESSIONID, PATIENTNAME, PATIENTDATEOFBIRTH, DATECOLLECTED, DATERECEIVED, and OUTCOME. Each row includes a checkbox for selection and a PDF icon for viewing the report.

<input type="checkbox"/>	LIMSACCESSIONID	PATIENTNAME	PATIENTDATEOFBIRTH	DATECOLLECTED	DATERECEIVED	OUTCOME
<input type="checkbox"/>	A20035482	ETORtest, First	01/23/1980	04/10/2020 02:33 pm	04/09/2020 03:25 pm	Positive for 2019-nCoV.
<input type="checkbox"/>	A20035483	ETORtest, First	01/23/1980	04/10/2020 02:55 pm	04/09/2020 03:25 pm	Positive for 2019-nCoV.
<input type="checkbox"/>	A20035506	ETORtest, Three	05/27/2000	03/30/2020 12:00 am	04/09/2020 04:16 pm	Positive for 2019-nCoV.
<input type="checkbox"/>	A20035507	ETORtest, Four	06/06/1919	04/08/2020 12:00 am	04/09/2020 04:16 pm	Inconclusive for 2019-nCoV.

- The “View Reports” tab specifically generates a list of unviewed Final Reports.
- You can view each PDF Final Report individually or check the boxes on the left-hand side of each specimen to download multiple reports at a time.

Batch Ordering on the LWP

- Batch ordering is available in the LWP either directly on the portal or via Excel import

MD COVID 2 CATEY DOMINGUEZ

Batch Upload / MD COVID

ADD ROW COPY LAST REMOVE SELECTED IMPORT FROM FILE RESET COLUMNS

	SPECIMEN INFORMATION					State Health Department Contact	Submitting Facility/Pu...	HEALTH CARE FACILITY
<input type="checkbox"/>	Submit...	Tests *	Collection Date *	Specimen Ty...	If Other, specify	Name *	Submitter *	Facility Name *
<input type="checkbox"/>	123	2019Novel Coronavirus	03/31/2020 12:00 am	Nasopharyngeal swab		<input type="text"/>	ALARCON, M.D., C.	Mars University
<input type="checkbox"/>	456	2019Novel Coronavirus	04/09/2020 12:00 am	Other	NOSTRIL	<input type="text"/>	ALARCON, M.D., C.	Mars University

RESET SUBMIT

Implementation Strategies

- Local Health Departments
 - Training local epis
 - Direct contact with facilities for outbreak testing
 - Utilize batch order to create line lists that import directly in LWP
- Long-term care facilities
 - Performing their own investigations
 - Outbreak testing on behalf of the state
 - Utilize the batch order excel sheet

How do I gain access to the LWP?

- **Email the admin team and provide the following information:**
 - Full Name
 - Email
 - Best phone number to reach you at
 - Facility/Health Department you represent
- **MDH LWP Admin team:**
 - Catey Dominguez - catherine.dominguez@maryland.gov
 - Rebecca Abelman – rebecca.abelman@maryland.gov
 - Liore Klein - liore.klein@maryland.gov
- The LWP admin team will follow-up and send you a link to register
- The admin team is happy to provide any additional information and/or answer any additional questions

CDC Updates

Discontinuing Home Isolation, Transmission-Based Precautions, and HCP Exclusion

- Strategies
 - Symptom-based strategy
 - Time-based strategy
 - Test-based strategy
- Applies to:
 - Discontinuation of isolation for people not in healthcare settings (e.g. home)
 - Discontinuation of transmission-based precautions (TBP)
 - Return to work criteria for healthcare personnel (HCP)

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/disposition-in-home-patients.html>

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/disposition-hospitalized-patients.html>

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/return-to-work.html>

Summary of strategies

- **Symptom-based strategy**

- **10 days** after symptom onset + 72 hours fever-free + 72 hours since symptom improvement

- **Test based strategy**

- No fever + symptom improvement + 2 negative tests 24-hours apart

- **Time-based strategy**

- No symptoms ever + 10 days after 1st specimen collection

Discontinuing Home Isolation, Transmission-Based Precautions, and HCP Exclusion

- Symptomatic and COVID+ (confirmed or suspected)
 - Symptom-based strategy
 - Test-based strategy
- Asymptomatic and COVID+
 - Time-based strategy
 - Test-based strategy

Symptomatic and COVID+

- Symptom-based strategy

- At least 3 days (72 hours) have passed *since recovery* defined as resolution of fever without the use of fever-reducing medications **and** improvement in respiratory symptoms (e.g., cough, shortness of breath); **and**,
- At least **10 days** have passed *since symptoms first appeared*.

Symptomatic and COVID+

- **Test-based strategy**
 - Resolution of fever **without** the use of fever-reducing medications **and**
 - Improvement in respiratory symptoms (e.g., cough, shortness of breath), **and**
 - Negative results of an FDA EUA COVID-19 molecular assay for detection of SARS-CoV-2 RNA from at least two consecutive respiratory specimens collected ≥ 24 hours apart

Asymptomatic and COVID+

- **Time-based strategy**

- At least 10 days have passed since the date of their first positive COVID-19 diagnostic test assuming they have not subsequently developed symptoms since their positive test.
- If they develop symptoms, then the symptom-based or test-based strategy should be used.

Asymptomatic and COVID+

- **Test-based strategy**
 - Negative results of an FDA EUA COVID-19 molecular assay for detection of SARS-CoV-2 RNA from at least two consecutive respiratory specimens collected ≥ 24 hours apart.

HCP Return to Work

- Upon return to work all HCP must
 - Wear a medical mask and
 - Not work with severely immunocompromised patients until 14 days have passed after illness onset (or date of positive test for asymptomatic HCP) **and** any remaining symptoms are fully resolved.

CDC Nursing Home Guidance

- Responding to Coronavirus (COVID-19) in Nursing Homes
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/nursing-homes-responding.html>
- Testing for Coronavirus (COVID-19) in Nursing Homes
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/nursing-homes-testing.html>

CDC Nursing Home Testing Principles

- 1) Testing should not supersede existing infection prevention and control (IPC) interventions.
- 2) Testing should be used when results will lead to specific IPC actions.
- 3) The first step of a test-based prevention strategy should ideally be a point prevalence survey (PPS) of all residents and all HCP in the facility
- 4) Repeat testing may be warranted in certain circumstances.

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/nursing-homes-testing.html>

Miscellaneous

Emergency Plans

- Emergency Plan Submission to OHCQ
- MDH.NHSubmit@maryland.gov

NHSN COVID Module for LTC

- CMS Memo from 5-6-2020
 - Facilities should immediately gain access to the NHSN system
 - Registration process, including CCN or CMS number
 - First data due 11:59PM on Sunday May 17th
- Working with CRISP to use the data you are already entering for state requirements to do a bulk upload
 - More to come (soon)

Town Hall

- Are you using symptom based or test based criteria to discontinue TBP?
 - Are you using 10 days after onset/positive test, or are you using a longer time frame?

Resources

- MDH Novel Coronavirus: <http://health.maryland.gov/coronavirus>
- MDH Laboratory Coronavirus: <https://health.maryland.gov/laboratories/Pages/Novel-Coronavirus.aspx>
- NHSN COVID Module for Long Term Care: <https://www.cdc.gov/nhsn/ltc/covid19/index.html>
- CDC Coronavirus Prevention & Response in Long-term Care <https://www.cdc.gov/coronavirus/2019-ncov/healthcare-facilities/prevent-spread-in-long-term-care-facilities.html>
- CMS Coronavirus/LTC: <https://www.cms.gov/files/document/qso-20-14-nh-revised.pdf>
- CDC Guidance for Infection Control <https://www.cdc.gov/coronavirus/2019-nCoV/infection-control.html>

Questions?

Email questions to MDH.IPCOVID@Maryland.gov