



CRISP

HIE COVID-19 Response Efforts

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About CRISP

Regional Health Information Exchange (HIE) serving Maryland, West Virginia, and the District of Columbia.

Vision: To advance health and wellness by deploying health information technology solutions adopted through cooperation and collaboration



Guiding Principles

1. Begin with a manageable scope and remain incremental.
2. Create opportunities to cooperate even while participating healthcare organizations still compete in other ways.
3. Affirm that competition and market-mechanisms spur innovation and improvement.
4. Promote and enable consumers' control over their own health information.
5. Use best practices and standards.
6. Serve our region's entire healthcare community.



CRISP Services

1. POINT OF CARE: Clinical Query Portal & In-context Information

- Search for your patients' prior hospital records (e.g. labs, radiology reports, etc.)
- Monitor the prescribing and dispensing of PDMP drugs
- Determine other members of your patient's care team
- Be alerted to important conditions or treatment information



2. CARE COORDINATION: Encounter Notification Service (ENS)

- Be notified when your patient is hospitalized in any regional hospital
- Receive special notification about ED visits that are potential readmissions
- Know when your MCO member is in the ED



3. POPULATION HEALTH: CRISP Reporting Services (CRS)

- Use Case Mix data and Medicare claims data to:
 - Identify patients who could benefit from services
 - Measure performance of initiatives for QI and program reporting
 - Coordinate with peers on behalf of patients who see multiple providers



4. PUBLIC HEALTH SUPPORT:

- Deploying services in partnership with Maryland Department of Health, DC Department of health, and West Virginia Bureau of Public health
- Enabling researchers to appropriately access aggregated data and manage cohort studies
- Housing the Prescription Drug Monitoring Program (PDMP) for Maryland



5. PROGRAM ADMINISTRATION:

- Making policy discussions more transparent and informed
- Supporting Care Redesign Programs

Core HIE services are incorporating COVID-19 data for existing use cases with minor enhancements

Reports are deployed with new data sources including real-time ADTs and labs

MDH relies on CRISP as a data source and technology integrator



Core HIE Use Cases

Existing CRISP feeds for hospitalizations and lab results were supplemented by a daily confirmed case file, state electronic lab reporting feed, and daily surveys to:

- Push messages to care teams through ENS
- Notify providers at the point of care through Care Alerts
- Share positive and negative lab results in Health Records
- Indicate whether a first responder came in contact with a positive patient
- Allow researchers to access de-identified data sets, and
- Enable disease investigation by linking prior hospitalization and condition information



Sample Care Alerts and Public Health Flags

Summary Handoff Imaging Viewer

CRISP InContext

CRISP InContext

Patient Name

Female Date Probable

Address

Infection Control Alerts VIEW

PDMP

No Patient Advisories

Medications

Medication Date Filled Qual

New Search > Modify Search

Patient Snapshot

Patient Name: PHACAREMDH PHACAREMDH Gender: U Date of Birth: 05-08-1969

Patient Demographics

PHACAREMDH PHACAREMDH 555 Test st south HILLS, MD 44221

Gender U D.O.B. 05-08-1969

Care Alerts

Date	Source	Description
03/27/2020	MDHCOVI D19	COVID-19 Positive: This patient was reported positive for COVID-19 by the Maryland Department of Health on 2020-03-27 13:39:08.



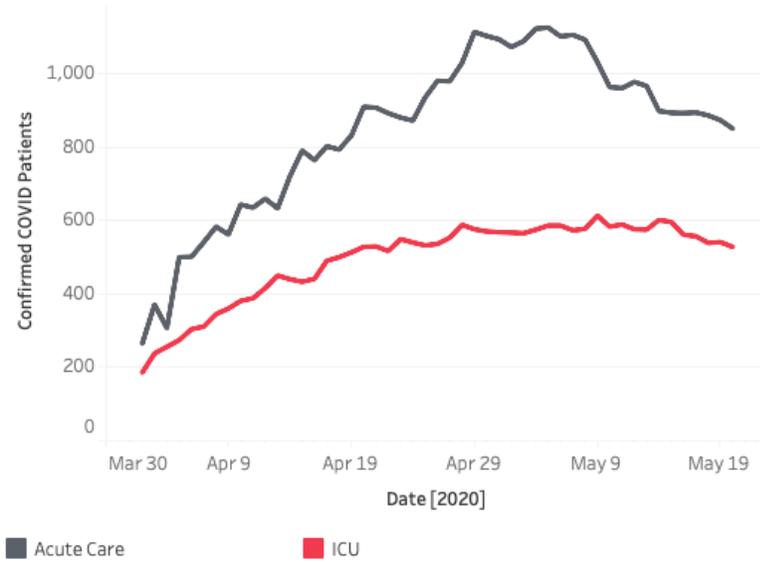
Public Health Reporting

Dashboards in CRISP Reporting Services are readily accessible by hospitals, local health departments, and state officials based on real-time data feeds and daily forms

- Data feeds for hospital visits (Admission/Discharge/Transfer feeds) and lab results are shown in new visualizations
- Hospital and Skilled Nursing Facility capacity and other data collected through mandated submission forms; CRISP is automating data entry as much as possible and including the information in new dashboards and enabling centralized federal reporting

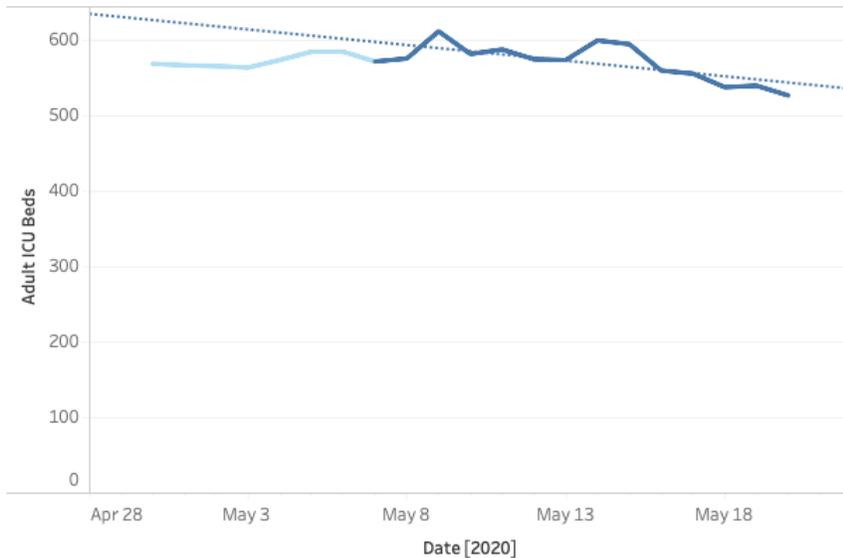
Hospitalized COVID-19 Patients

Number of COVID-19 Positive Patients in Acute Care and ICU



Adult ICU Beds Occupied by Confirmed COVID-19 Patients

14 Day Trend



14-Day ICU Beds Occupied Percent Change:

-8.57%

Change in ICU Beds Occupied from Previous 14 Days:

-3.69 ICU Beds Occupied Per Day

7-Day ICU Beds Occupied Percent Change:

-12.00%

Change in ICU Beds Occupied from Previous 7 Days:

-10.32 ICU Beds Occupied Per Day

14-Day Daily Percent Change

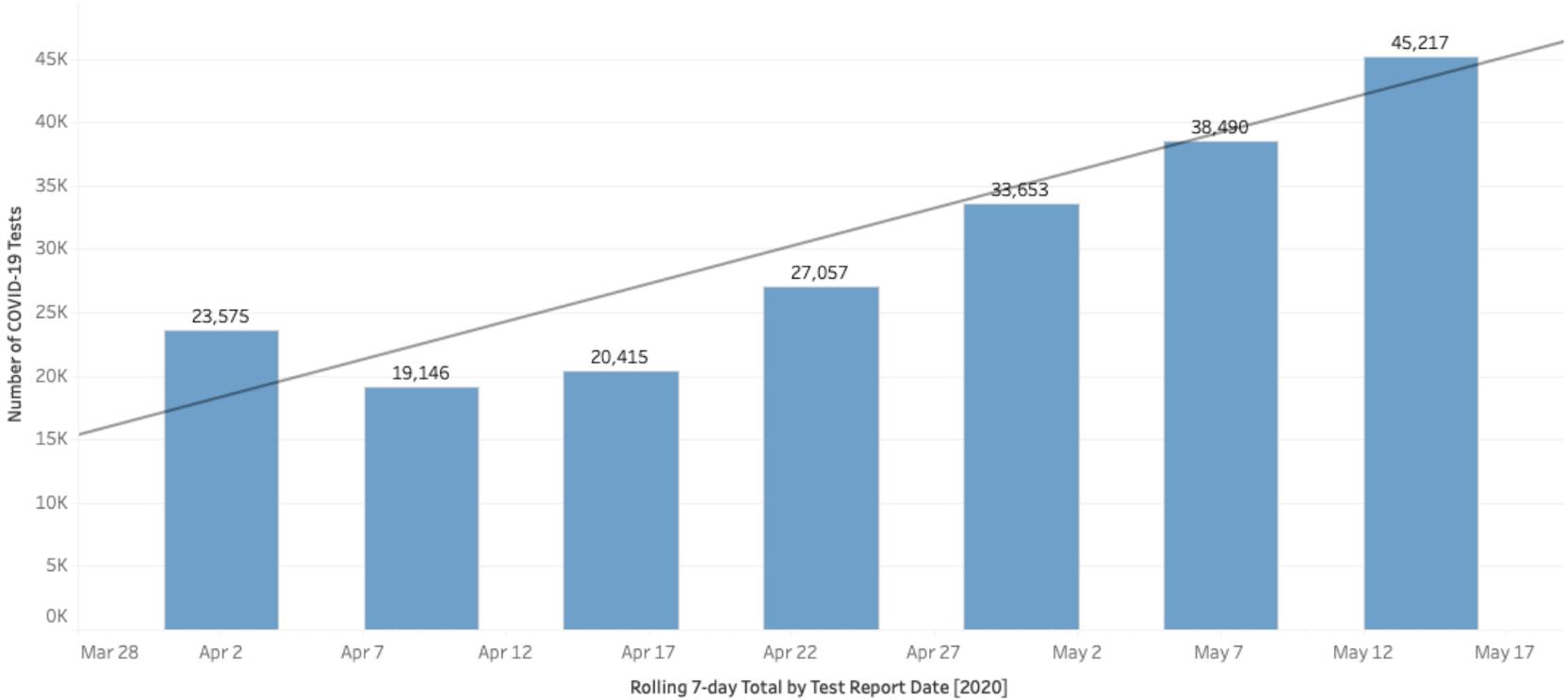
May 20, 2020	-8.57%
May 19, 2020	-6.46%
May 18, 2020	-4.73%
May 17, 2020	-1.74%
May 16, 2020	1.13%
May 15, 2020	3.88%
May 14, 2020	4.10%
May 13, 2020	3.31%
May 12, 2020	3.75%
May 11, 2020	3.38%
May 10, 2020	4.44%
May 9, 2020	6.91%
May 8, 2020	6.97%
May 7, 2020	8.46%



Volume of Lab Results by Week of Reporting Date - COVID-19

CRISP refreshes the data daily overnight. Report totals may differ from Maryland Department of Health figures. The figures may include some non-Maryland residents. This information is intended to assist Maryland health care providers and public health leaders in understanding the progression and direction of COVID-19 testing. The data are unverified and not publicly available. Any indicator of a pending test period is an approximation by CRISP based on review of the NEDSS data.

Extraordinary volume: Results between March 31 and April 11 include specimens collected over a longer period than subsequent weeks due to the faster release of test results. See Tab 1 for trends by Specimen Collection Date.



Note: Last two days of submitted data contain incomplete data and are excluded from weekly summaries.





Technology Integration for Public Health

Maryland Department of Health Drive-Through Testing Sites

- Secure CRISP portal is accessed almost universally by physicians, became site for broad-based order entry since the testing centers are not limited to a single system or geography
- Development team repurposed a referral workflow for the orders and configured a new tool for patient self-scheduling
- HIE tools are used by 14 sites statewide for over 3,000 weekly tests and both numbers continue to increase

Statewide Contact Tracing

- Maryland Department of Information Technology and a call center contractor are providing personnel and Salesforce
- HIE sends new cases with updated demographics (primarily phone numbers) to the tracing system



COVID-19 Lab Order



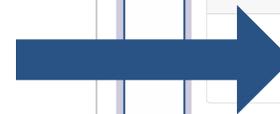
COVID-19 Lab Order

Guidance And Advisories ▾

The lab order form will allow your patient to be tested for COVID-19 at select Vehicle Emissions Inspection Program (VEIP) sites throughout Maryland. COVID-19 testing at these VEIP sites will only be available to individuals who are **symptomatic and at high risk for complications from the disease**, as determined by their healthcare provider based on testing guidelines provided by the Maryland Department of Health. Once this form is submitted, your patient will receive an email with a confirmation code. The code is required for scheduling the appointment at a VEIP site. Your patient will have access to view all information included in your form submission below. Click [Here](#) for more information regarding test order prioritization and screening. Contact CRISP Support at 877-952-7477 if you have issues regarding this form.

Patient Information

* First Name Gilbert	Middle Name	* Last Name Grape
* Date of Birth (Format MM/DD/YYYY) 01/01/1984	* Gender Male	
* Home Address 1 123 Test Street	* Phone Number 111-222-3334	* Type Home
Home Address 2	Alternate Phone Number	Type
* City Washington	* State DC	* Zip 11111
		Email



COVID-19 Lab Order

[Print](#)

Order Confirmation

Order submitted successfully.
Patient: Gilbert Grape
Order Confirmation Code: Grape00009

Patient Instructions

Your patient will receive an email with their Order Confirmation Code (above) and a link to the self-scheduling site. We recommend reading the code to the patient to ensure they have it readily available. If the patient needs assistance to schedule their test, you may schedule for them by calling the COVID-19 Support Center at 866-984-4405.

Ordering Physician	Organization	Date Requested
test	ENS_JFM	2020-04-11

Patient Information

First Name Gilbert	Middle Name	Last Name Grape
Date of Birth (Format MM/DD/YYYY) 01/01/1984	Gender Male	



Contact and Resources

Training materials, recorded webinars, and patient education flyers can be found at:

<https://crisphealth.org/resources/>

COVID-19 information is posted at:

<https://crisphealth.org/guidance>

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