HIE COVID-19 Response Efforts

May 26, 2020

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
Service Area

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
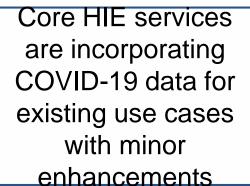   - Coordinate with peers on behalf of patients who see multiple providers
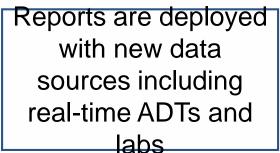
4. **PUBLIC HEALTH SUPPORT:**
   - Deploying services in partnership with Maryland Department of Health, DC Department of health, and West Virginia Bureau of Public health
   - Enabling researchers to appropriately access aggregated data and manage cohort studies
   - Housing the Prescription Drug Monitoring Program (PDMP) for Maryland

5. **PROGRAM ADMINISTRATION:**
   - Making policy discussions more transparent and informed
   - Supporting Care Redesign Programs
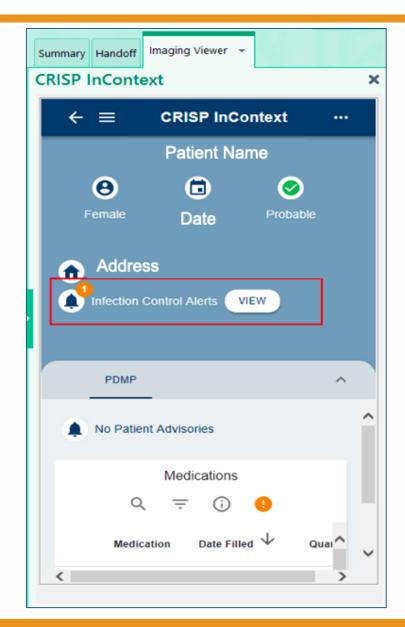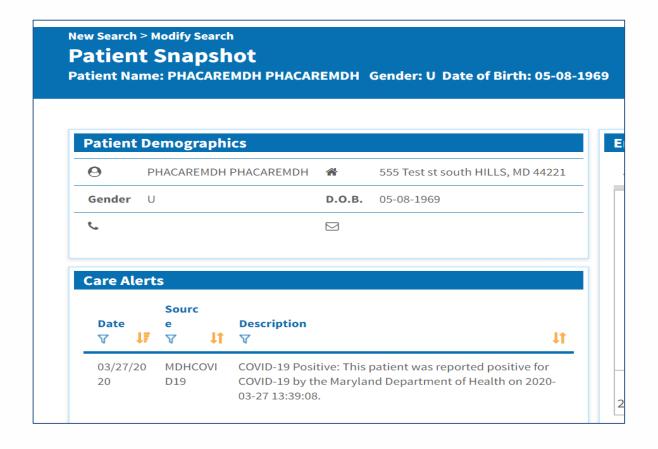
Core HIE services are incorporating COVID-19 data for existing use cases with minor enhancements

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
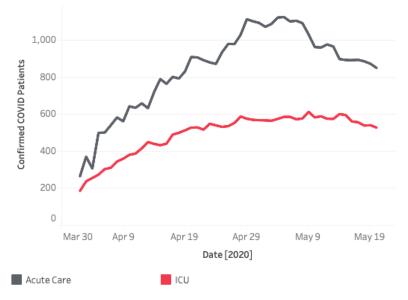
Public Health Reporting

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
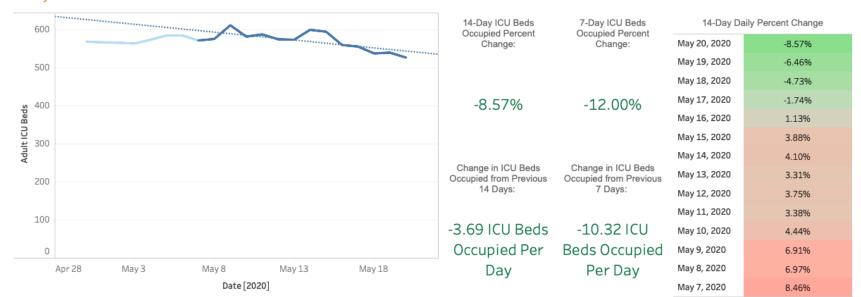
Hospitalized COVID-19 Patients

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

Legend: Acute Care (dark gray), ICU (red)

Adult ICU Beds Occupied by Confirmed COVID-19 Patients

14 Day Trend

	14-Day ICU Beds Occupied Percent Change:	7-Day ICU Beds Occupied Percent Change:
	-8.57%	-12.00%
	Change in ICU Beds Occupied from Previous 14 Days:	Change in ICU Beds Occupied from Previous 7 Days:
	-3.69 ICU Beds Occupied Per Day	-10.32 ICU Beds Occupied Per Day

14-Day Daily Percent Change

Date	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%

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

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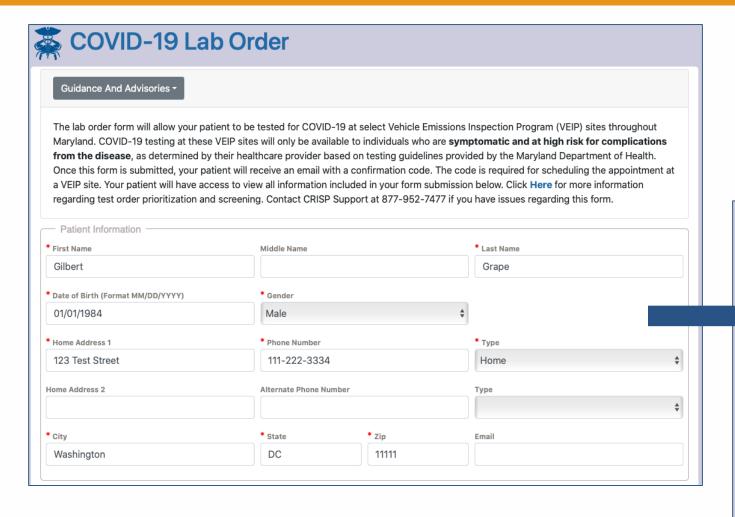
- Secure CRISP portal is accessed almost universally by physicians, became site for broad-based order entry since the testing centers are not limited to a single system or geography
- Development team repurposed a referral workflow for the orders and configured a new tool for patient self-scheduling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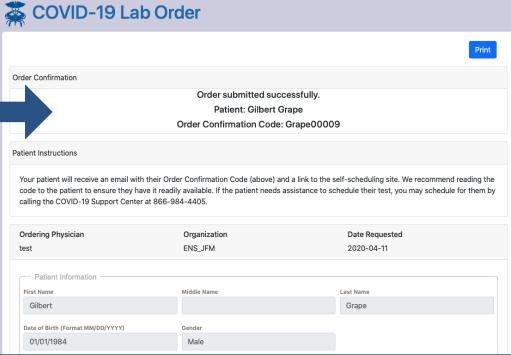
Statewide Contact Tracing

- 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

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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