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Leveraging HIE Data & Tools to Respond to the COVID-19 Pandemic

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Stay HIN the Know Webinar Series
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Webinar Presenter

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Webinar Objectives

- Educate on the connections and services of HealthInfoNet and the Maine HIE
- Review current access to COVID-19 laboratory results within the HIE Clinical Portal
- Preview HealthInfoNet's new COVID-19 population health reporting dashboards
- Provide information on education and training opportunities offered by HealthInfoNet

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HealthInfoNet & Maine's HIE

Overview of Connections & Services

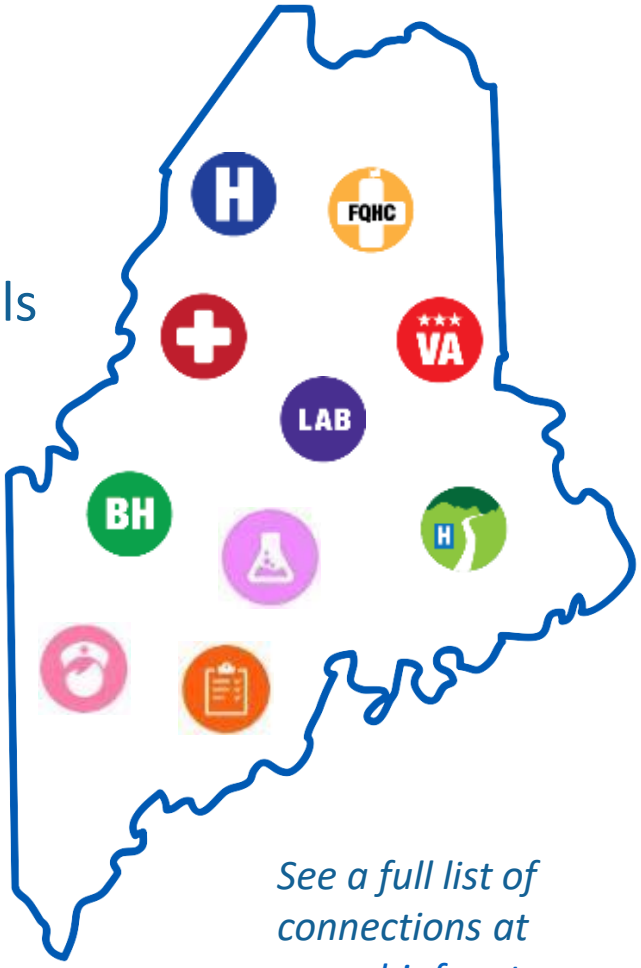
Making connections to improve patient care, quality, and safety by providing better, easier, and safer solutions.

About HealthInfoNet

- HealthInfoNet operates Maine's statewide Health Information Exchange (HIE)
  - State of Maine law governs patient informed consent requirements for HIE participation
- HealthInfoNet is an independent nonprofit organization governed by a voluntary, community-based board of directors and advisory committees
  - Our members represent medical providers, public health organizations, patients, government agencies, and businesses throughout the state
- HealthInfoNet provides a number of services to our participating provider organizations, including access to our clinical portal, real-time event notifications, public health reporting, predictive analytics and measures, and more

Maine HIE Participants

- Connected to more than 790 provider locations across Maine
- The type of providers connected include:
  - All health systems, acute care hospitals, and critical access hospitals
  - Veterans Affairs sites
  - A majority of ambulatory facilities, FQHCs
  - Some behavioral health and post acute care facilities
  - Laboratories (including NorDx, Quest, ALI, Dahl-Chase)
  - Maine EMS (ImageTrend)
  - Pharmacy datasets (SureScripts and MaineCare)



See a full list of connections at www.hinfonet.org

Maine HIE Data Sources

As we connect to sites across the state, our data warehouse is expanding to incorporate new data sources and use cases – from clinical and claims data to social determinants of health and more

Demographics

Encounters

Vital Signs

Laboratory & Microbiology Results

Radiology Reports

Adverse Reactions & Allergies

Medication History (Prescribed & FIlled)

Diagnosis, Conditions, & Problems

Immunization Information

Documents & Social Determinants

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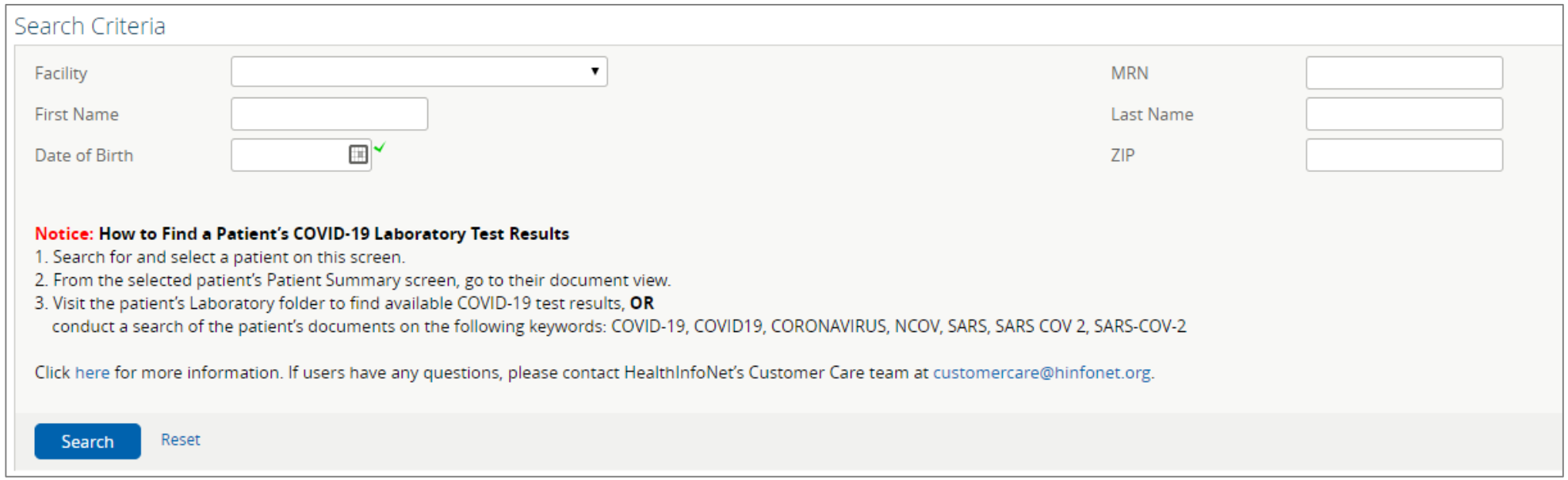
HIE Clinical Portal COVID-19 Information

Available COVID-19 Information within the Clinical Portal

Adapting and advancing as clinical workflows and needs change across the care continuum through applications of timely and actionable information.

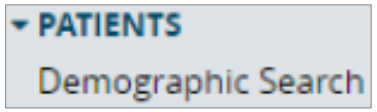
Finding a Patient's COVID-19 Test Results

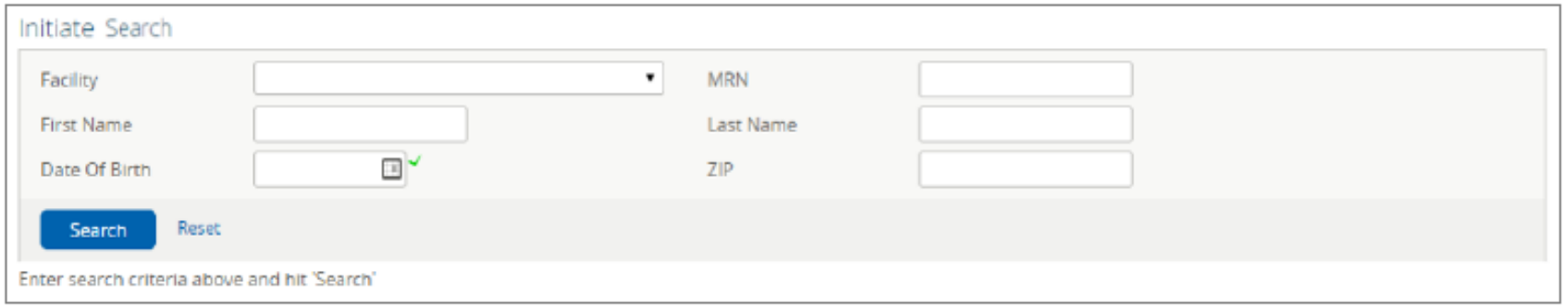
- During the COVID-19 pandemic, Clinical Portal users can find important information about their patients' laboratory test results
- Upon logging in to the Clinical Portal, users will find an alert on the Demographic Search screen providing instructions on how to access a patient's COVID-19 laboratory test results



Finding a Patient's COVID-19 Test Results (cont.)

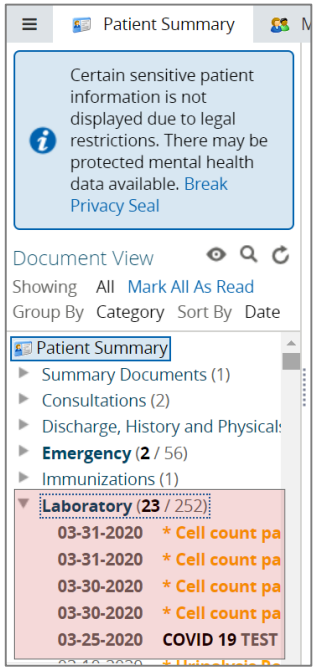
1. Search for and select a patient from the Demographic Search screen

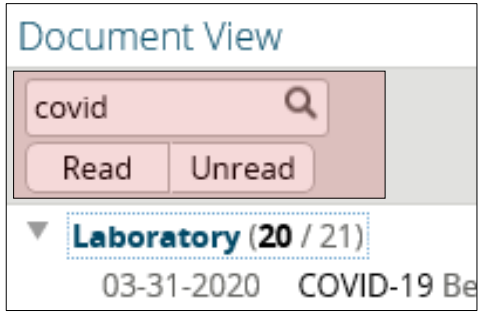




Finding a Patient's COVID-19 Test Results (cont.)

2. From the selected patient's Patient Summary screen, go to their document view and either:
   a. Visit the patient's Laboratory folder to find available COVID-19 test results, OR;
   b. Conduct a search of the patient's documents on the following keywords: COVID-19, COVID19, CORONAVIRUS, NCOV, SARS, SARS COV 2, SARS-COV-2





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HIE Reporting Dashboards COVID-19 Information

Available COVID-19 Information within Reporting Dashboards

Adapting and advancing as clinical workflows and needs change across the care continuum through applications of timely and actionable information.

COVID-19 Reporting Dashboards

- Developed a series of Tableau reporting dashboards through a collaborative process with data from HealthInfoNet and inputs from Cureous Innovations Inc., Stroudwater Associates, and the Maine Department of Health and Human Services (DHHS)
- The data used in developing the dashboards come from the provider organizations participating in the statewide HIE
- The objective of the dashboards is to report on the patient population that has been tested for or diagnosed with COVID-19 in a laboratory site located in Maine
- The audience for the dashboards are DHHS, Maine CDC, and authorized HealthInfoNet participants

COVID-19 Reporting Dashboards (cont.)

There are three (3) primary dashboards included in the first release of reporting:

1. **Cases and Utilization** – Demonstrates the utilization of the healthcare system by service type among individuals who have been tested for or diagnosed with COVID-19

2. **Positive Cases – Hospitalizations (Inpatient Encounters)** – Demonstrates the utilization and type of hospitalizations among individuals who have been tested positive for or diagnosed with COVID-19

3. **Positive Cases – Demographic Information** – Demonstrates the demographics among individuals who have been tested positive for or diagnosed with COVID-19

Reporting Efforts Next Steps

- Incorporate feedback from State Epidemiologists and health system experts in order to refine and develop additional visualizations and analyses of the HIE's COVID-19 data
- Release the current COVID-19 reporting dashboards to authorized HealthInfoNet participants, beginning with major health systems; receive feedback to inform future releases
- Connect the HIE to the Maine Health and Environmental Testing Laboratory (HETL) in order to report on a more comprehensive picture of COVID-19 cases
- Convene health system CIOs and CMIOs in a COVID-19 Taskforce to support a singular statewide data response for contact monitoring in collaboration with Maine CDC and their contact tracing efforts

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HIE Reporting Dashboards COVID-19 Information

Reporting Dashboard Demonstration

Adapting and advancing as clinical workflows and needs change across the care continuum through applications of timely and actionable information.

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Education & Training

Clinical Education Resources & Opportunities

Whether it's a training and education need, a clinical workflow question, or anything in between, there's not a problem that our team can't solve with you.

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