



CRISP

HIE Tools for Vaccinations and COVID-19 Response Efforts

February 22, 2021

7160 Columbia Gateway Drive, Suite 100
Columbia, MD 21046
877.952.7477 | info@crisphealth.org
www.crisphealth.org



CRISP Services Aligned with Response Needs

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



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

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



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

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



MDH relies on CRISP as a data source and technology integrator

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



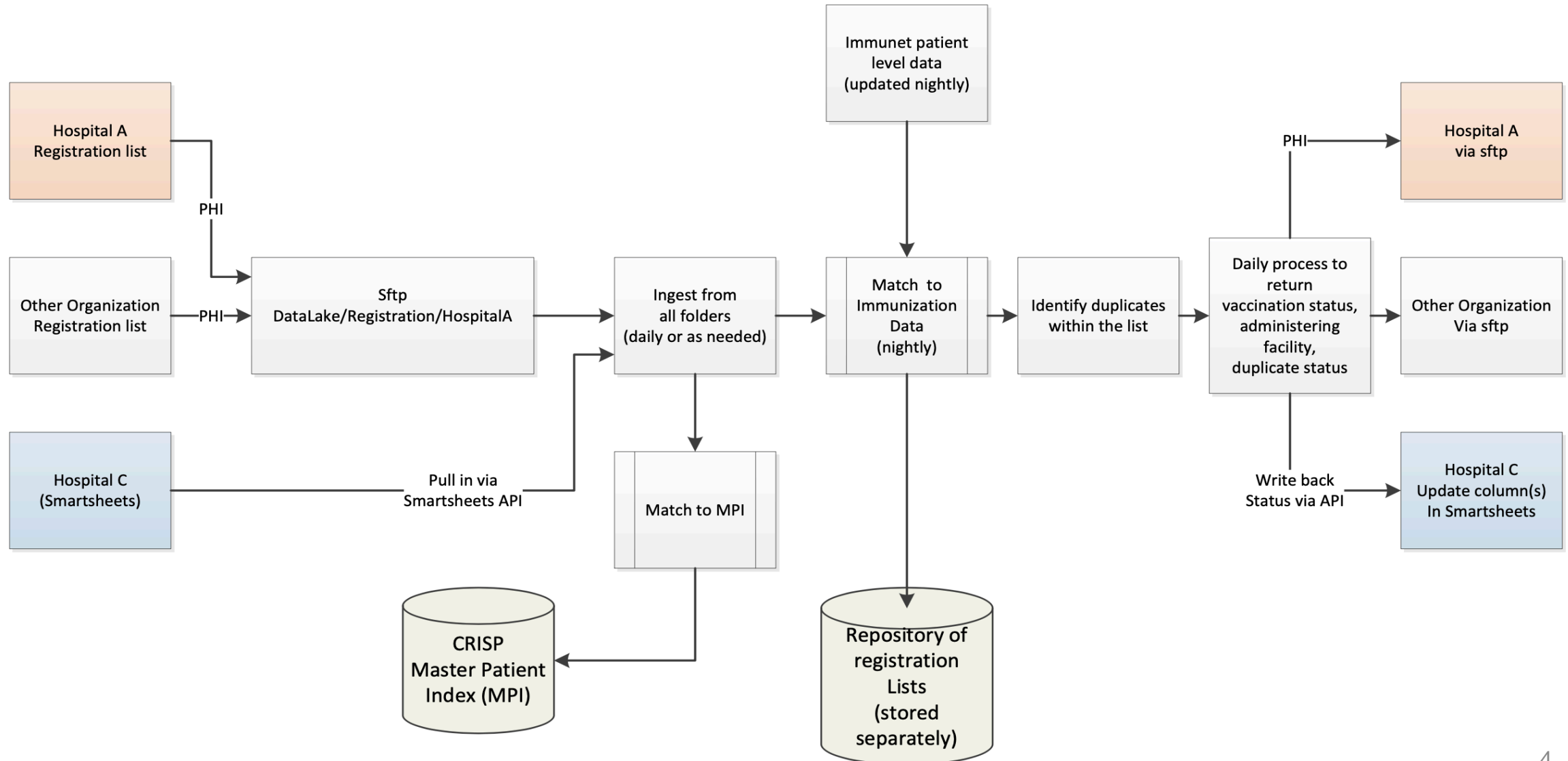
Vaccine Appointment Optimization

- **Problem Statement:** Patients are registering for vaccines at multiple administration sites. Once they receive a vaccine, they often remain on other lists.
- **CRISP Use Case:** Administration sites submit lists to the HIE on a regular basis. CRISP matches patients against immunization records to return details about who has been vaccinated.
- **Status:** Proof of concept complete at one hospital site – list of 120,000 registered patients; showed 25,000 duplicates and 40,000 already vaccinated. Working with MDH leadership to operationalize statewide.





Technical Workflow





Vaccine Tracking Service

- **Problem Statement:** As doses become more available, practices, payers, and other groups with trusted patient relationships will conduct proactive outreach to increase vaccination rates.
- **CRISP Use Case:** CRISP combines patient rosters with immunizations and presents the information in reporting tool with filters and editable notes fields.
- **Status:** Vaccine tracking service is live in production. Small group of pilot users from Maryland Primary Care Program Practices are providing feedback to CRISP.





Vaccine Tracking Service – Summary Dashboard



CRISP

VACCINE TRACKING SERVICE

Connecting **Providers with Technology** to Improve Patient Care

ENS Panel / MDPCP Practice:

Demo Panel [ENS Panel - 999999]

Apply



Help



Behm, Craig



Logout

Navigation

Practice Vaccination Reports

Vaccination Summary

Vaccination Disparities

Vaccination Timeline

Patient Navigator

Refresh

Revert

Pause

Print

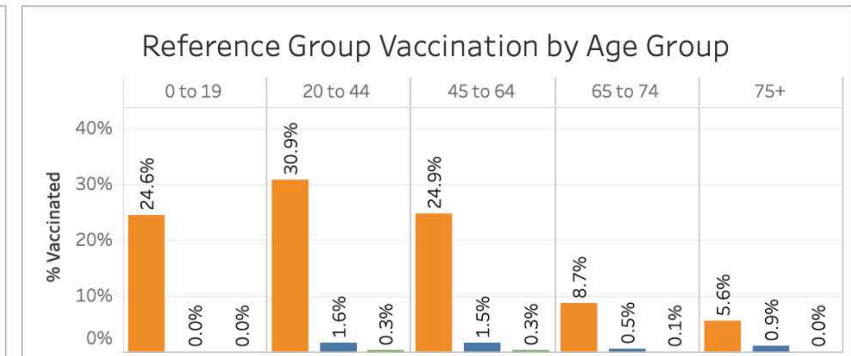
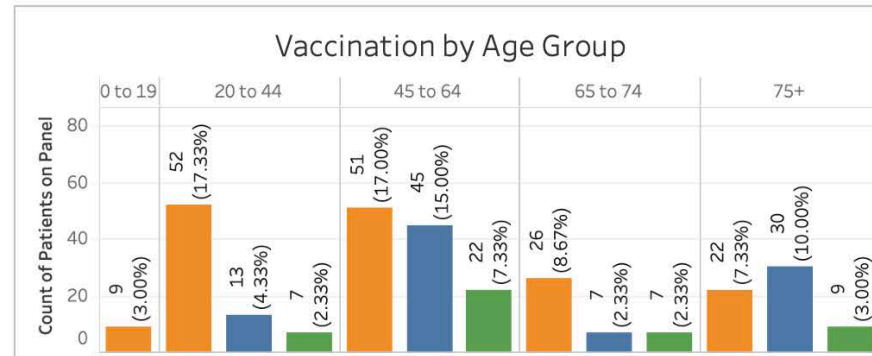
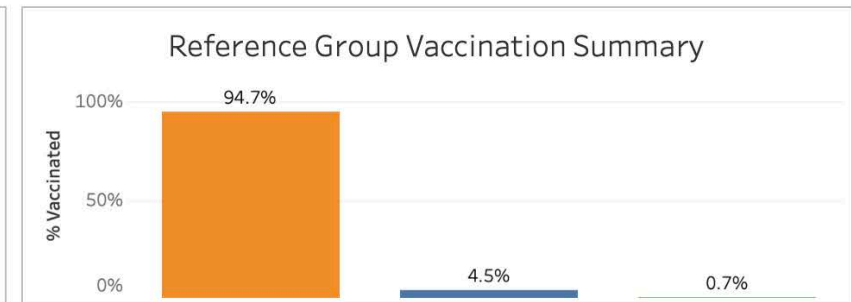
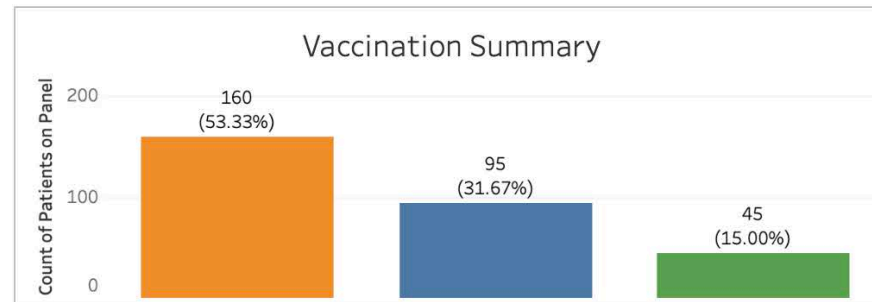
Excel

COVID-19 Vaccine Summary

Not Vaccinated 1 Dose Received Vaccinated

Reference Group

Statewide





Vaccine Tracking Service – Patient List



CRISP

VACCINE TRACKING SERVICE

Connecting **Providers with Technology** to Improve Patient Care

ENS Panel / MDPCP Practice: Demo Panel [ENS Panel - 999999] Apply

Help | Behm, Craig | Logout

- Navigation**
- Practice Vaccination Reports
 - Vaccination Summary
 - Vaccination Disparities
 - Vaccination Timeline
 - Patient Navigator

Vaccination data from ImmuNet available through **01/25/2021**
 ENS Panel Subscription data available through **01/21/2021**
 * Double click on row to edit

Filter: Not Vaccinated/1 Dose Received patients 75 and older Save Filters Clear Filters Excel Export

Patient Name	Vaccine Status	Outreach Status	Notes	First Dose Vaccine Date	Final Dose Vaccine Date	Age	Chronic Condition Count ↓	First Dose Vaccine	Final Dose Vaccine	First D Admin
SCHRADER, PAMELA	Not Vaccinated	Vaccine Hesitant	Afraid she will catch C...			88	5			
JEAN-BAPTISTE, RE...	1 Dose Received			01/03/2021		92	5	Pfizer - COVID-19, ...		Baltim
ZANARDI, CRISTIANE	Not Vaccinated	1st Dose Scheduled	Son will drive her.			88	4			
STAFFORD, ROBERT	Not Vaccinated					78	4			
BATES, TASSANA	Not Vaccinated					76	4			
SAYERS, RONALD	Not Vaccinated	Vaccine Hesitant	Worried			87	4			
BORCHERT, CAROLINE	1 Dose Received			01/08/2021		76	3	Pfizer - COVID-19, ...		Freder
WILLIAMS, MICHELLE	Not Vaccinated	Vaccine Hesitant	Afraid of catching COV...			76	3			
BLAIR, ALEXANDRA	Not Vaccinated					93	3			
CHU, AMY	Not Vaccinated					82	3			
BLAKE, SARAH	Not Vaccinated					77	3			
MATTO, SINCI	1 Dose Received			12/29/2020		81	3	Moderna - COVID-1...		JH Bay
REILLY, SINCI	1 Dose Received			01/12/2021		79	3	Moderna - COVID-1...		Montg
MARASIGAN, CHARL...	Not Vaccinated					90	2			
KILGORE, JULIE	1 Dose Received			12/22/2020		76	2	Pfizer - COVID-19, ...		MedSt
PUTNEY, EMILY	Not Vaccinated	Vaccine Hesitant	need to follow up			95	2			
MCCARTON, CECELIA	1 Dose Received			01/12/2021		79	2	Moderna - COVID-1...		Montg

Chronic Conditions



Monoclonal Antibody Infusion Referrals

- **Problem Statement:** Providers need a convenient way to refer eligible patients to alternative care sites administering monoclonal antibodies.
- **CRISP Use Case:** CRISP repurposed the referral tool created for diabetes prevention programs to create a consistent infusion site referral process.
- **Status:** Tool is live and supporting referrals to 9 sites across the state. In the past month, almost 200 referrals have been sent through CRISP.





Monoclonal Referral Form



CRISP Program Referral

Patient Information

* First Name	Middle Name	* Last Name	
GILBERT		GRAPE	
* Date of Birth (Format MM/DD/YYYY)			
01/01/1984			
* Home Address 1	* Phone Number	* Type	
4145 EARL C ADKINS DR	999-999-7777	Home	
Home Address 2	Alternate Phone Number	Type	
	999-999-9999		
* City	* State	* Zip	Email
BIRCH RIVER	WV	26000	

Referral Program

* Organization	* Programs	
Test	Monoclonal Antibody Infusion TEST for Referrals	
<p>Information about Monoclonal Antibody infusion, including Fact Sheets and Manufacturer Instructions/Package Inserts for Healthcare Providers and for Patients/Parents/Care Givers, can be found at https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization#coviddrugs (scroll to section on Drugs and Biologic Products).</p>		
* Is the patient SARS-COV2 Positive?		
Yes		
* Date Of Testing (Format MM/DD/YYYY)	* ICD-10 Diagnosis Code	
	U07.1	
* Is the patient symptomatic?	When was the symptom onset? (Format: MM/DD/YYYY)	Symptoms
Select an option		Select All That Apply
SpO2 ⓘ	* Height (inches)	* Weight (Lbs)
BMI		
* Is the patient on Chronic O2 Therapy?	* Baseline O2 flow rate	
Select an option		
* Has the patient required an increase in O2 flow rate since becoming symptomatic?		
Select an option		
* Does the patient have any of the following?		
Select All That Apply		



Monoclonal Referral Queue

Auto Reject Filter by Status
Pending (+1 other) ▼

Referrals Overview

[Look up Referral](#)

Name (last, first)	Gender	DOB	Doctor	Health Org.	Ref. Date	Referral Status ↓	Accepted Date	Programs
GRAPE, GILBERT		Jan 1, 1984	Craig Behm	CRISP Internal Users - DC Break Glass	Jan 20, 2021	<div style="border: 1px solid #ccc; padding: 2px;">Change Status Pending Accepted Rejected Completed Pending ▼</div>		0 / 0 / 1
CADENCE, ANNA		Nov 16, 1981	Samit Desai	Saint Agnes Hospital	Jan 19, 2021			0 / 0 / 1
Grape, Gilbert		Jan 1, 1984	Seth Sacher	Chase Brexton Health Care	Jan 19, 2021			0 / 0 / 1

Referrals Overview

[Look up Referral](#)

Name (last, first)	Gender	DOB	CBO	Ref. Date	Referral Status ↓	Accepted Date	Programs
GRAPE, GILBERT		Jan 1, 1984	Test	Jan 20, 2021	Accepted	Jan 20, 2021	0 / 0 / 1



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>

Craig Behm, Maryland Executive Director

Office: 410.872.0823

Cell: 410.207.7192

Email: craig.behm@crisphealth.org