HIE Tools for Vaccinations and COVID-19 Response Efforts

February 22, 2021

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

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
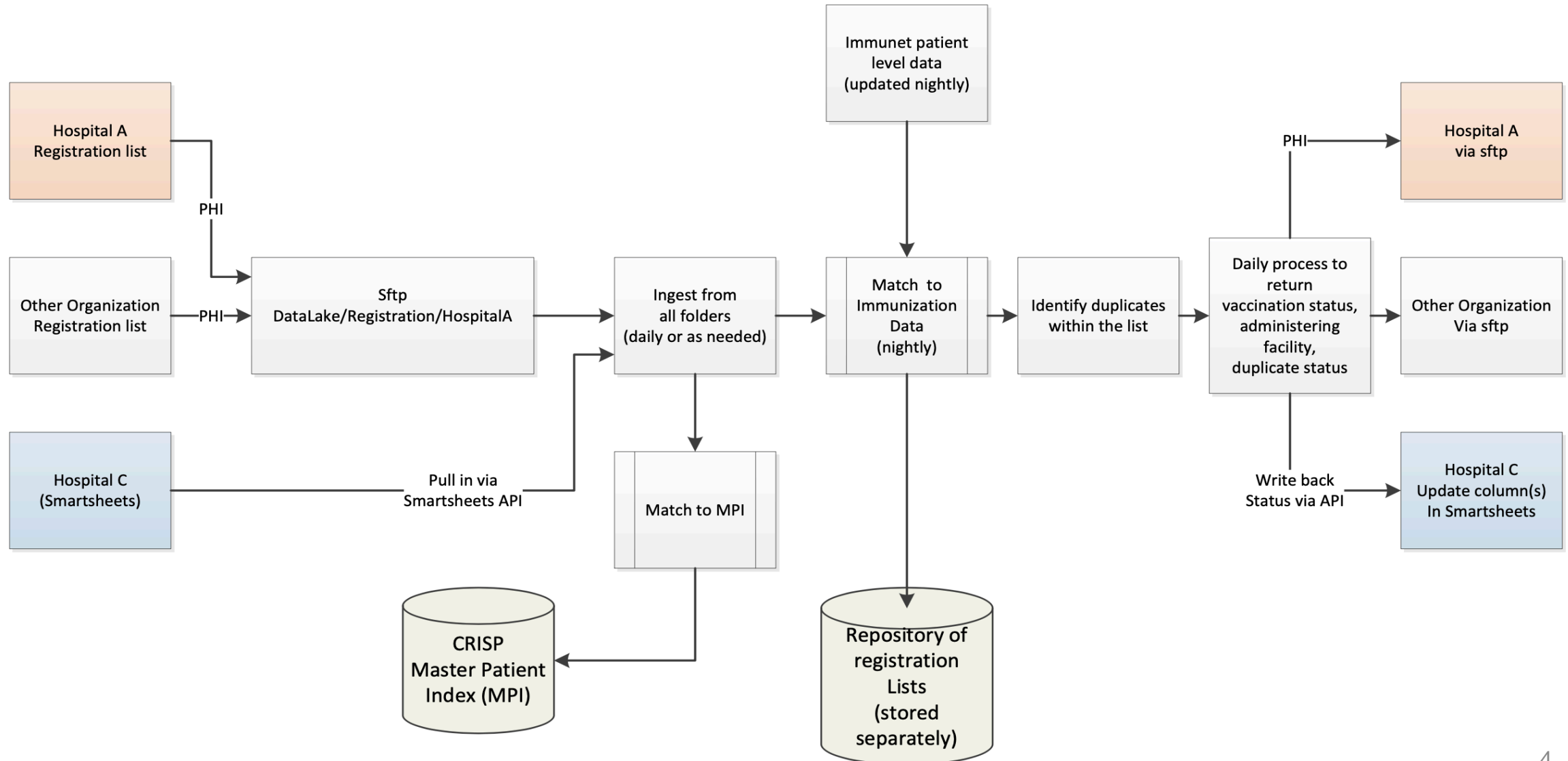
Vaccine Appointment Optimization

- **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.

Hospital A
Registration list

Other Organization
Registration list

PHI

PHI

Sftp
DataLake/Registration/HospitalA

Hospital C
(Smartsheets)

Pull in via
Smartsheets API

Immunet patient
level data
(updated nightly)

Ingest from
all folders
(daily or as needed)

Match to
Immunization
Data
(nightly)

Identify duplicates
within the list

Daily process to
return
vaccination status,
administering
facility,
duplicate status

PHI

Hospital A
via sftp

Other Organization
Via sftp

Match to MPI

Write back
Status via API

Hospital C
Update column(s)
In Smartsheets

CRISP
Master Patient
Index (MPI)

Repository of
registration
Lists
(stored
separately)

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
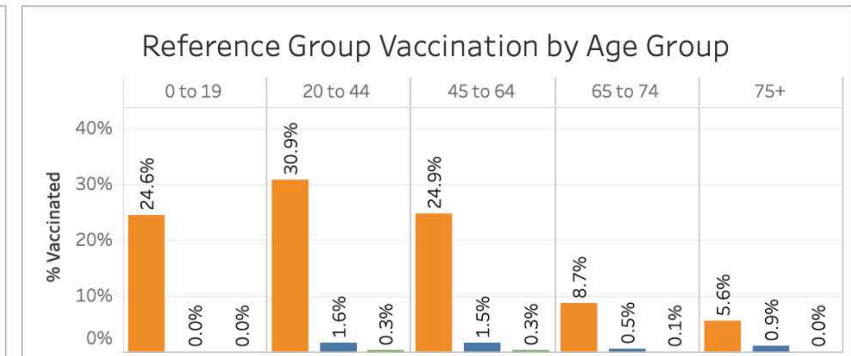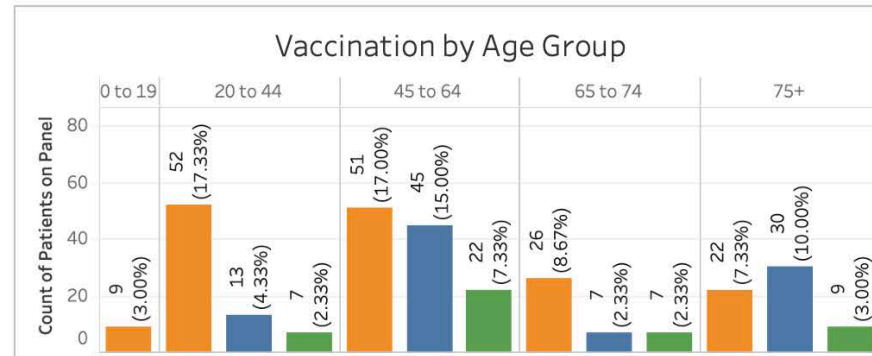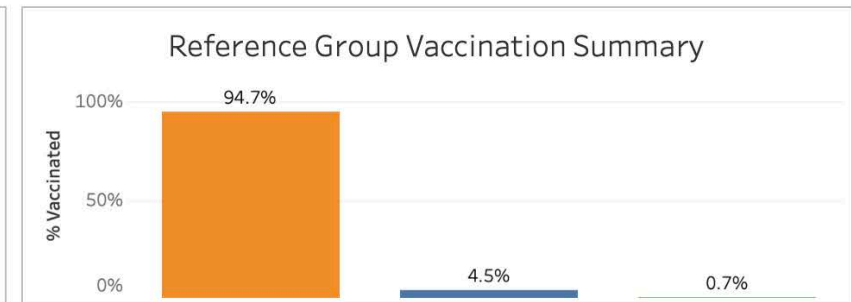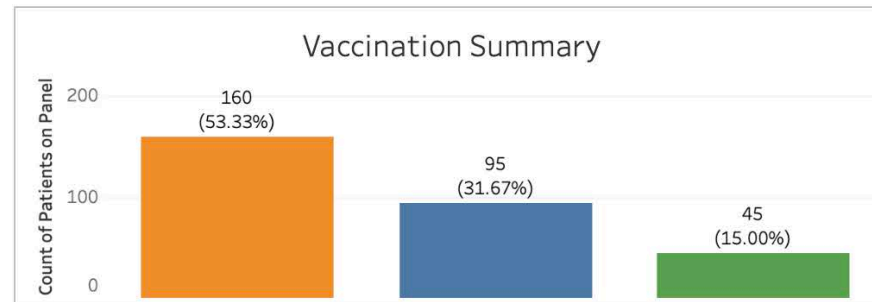
Vaccine Tracking Service – Patient List

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

Monoclonal Referral Queue

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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