

Maximizing Health Information Exchange Health Information in a Podiatric Practice

APRIL 14, 2023

HIE

Exchange

About the Maryland Health Care Commission (MHCC)

WHO WE ARE

 Independent State regulatory agency

WHAT WE DO

▶ Increase the use of data among policymakers, payers, providers, purchasers, and patients to improve the quality, affordability and outcomes of health care delivered in the State

HOW WE HELP

Provide timely and accurate information to policymakers, payers, purchasers, providers, and the public on the availability, cost, and quality of health care services

+ 🗱

AGENDA

- Overview of Health Information Technology Landscape
- A Podiatrist's PerspectiveCRISP Overview







- Health information technology (health IT) consists of:
 - Electronic health record (EHR): electronic version of a patient's health record
 - Health information exchange (HIE): secure exchange of electronic health information
 - Telepodiatry: delivery of podiatry services using telecommunications and related technologies

MHCC's Role in HIE



- Enabling CRISP to serve as a health data utility (HDU) to support the electronic exchange of clinical, non-clinical, administrative, and public health data to support advanced care delivery, bolster population health, and expand public health reporting
- As the principal regulator of HIEs in Maryland, MHCC maximizes privacy and security of health care data while promoting the use of electronic health information
- Harmonizing HIE efforts to ensure that they adhere to privacy and security policies and contribute to the State's health care and public health objectives

Value of Heath IT in Podiatry



- Comprehensive management of health information
- Increase administrative efficiencies
- Reduce duplication and waste
- Streamline practice processes

Drivers for Prioritizing Heath IT



- Value-based care is accelerating and increasing the need for different providers to exchange patient information
- Health IT is foundational to value-based care
- ▶ Federal and State policies establish programs promoting health IT

Maryland's HDU



- During the 2022 session, the Maryland General Assembly passed Chapter 296 (House Bill 1127) *Public Health - State Designated Exchange - Health Data Utility* requiring the State-Designated HIE to operate as an HDU for certain purposes
 - Effective October 1, 2022
 - A robust and secure infrastructure for health data that serves as a foundation for knowledge and innovation
 - Requires CRISP to make certain information available to providers and health officials to advance disease control and health equity
 - Tasks MHCC with developing supporting regulations

HDU Importance to Maryland



- A catalyst to improve health care delivery and public health statewide
 - Reduces current information fragmentation to better serve different patient populations
- Combines data to enhance data and support inclusive and equitable decision making
 - Aggregating data provides more knowledge and opportunity to better estimate the magnitude of problems, develop appropriate and timely interventions, and better monitor the effectiveness of interventions over time
- Supports interstate data sharing

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The Podiatry learning network builds awareness and provides education on a range of topics including health information technology, cybersecurity, and alternative care delivery models for podiatric practices.



Network

Podiatry

Remote Patient Monitoring in a Podiatric Practice

March 2022

The webinar focuses on best practices for selecting remote patient monitoring (RPM) technologies, navigating the payer reimbursement process, and implementing RPM in a podiatric practice.

THE FUTURE OF WEARABLES IN CARE DELIVERY habits.10,10

How RPM Benefits Patients

Center

A wide range of patient data, physiological (e.g., vitals, respiration rate, blood glucose levels) and subjective (e.g., well-being, pain level, satisfaction with health, access to healthy food), can be collected using RPM technology. This data can be used to manage a variety of medical conditions, including diabetes, heart disease, dementia, substance abuse, mental health, and weight gain and loss.8 Availability and monitoring of physiological and subjective data on a frequent basis provides valuable information about patients' health trends and lifestyles and improves quality of care.9 Health trends based on RPM data may provide a more accurate and holistic picture of the patient's health, compared to one-time results administered at a provider's office.¹⁰ Access to real-time data also assists in more timely and effective interventions as providers understand what may be abnormal for a particular patient and quickly decide if clinical support is needed.¹¹

More research on the validity and utility of wearables is needed; however, some studies show that wearables help increase patient engagement and give providers more insight into their patients' health and wellness outside of their regularly scheduled visits.^{16,17} Use of wearables can be particularly beneficial for patients with chronic conditions (e.g., diabetes, COPD, cardiovascular disease) who need help cultivating healthy diet, exercise, sleep, and lifestyle



The Health Data Utility Framework - A Guide to Implementation (Framework) released in March 2023 is available as a PDF and in an interactive web-based format. The Framework provides guidance on the structure and implementation of HDU models to support multi-stakeholder needs across care and service settings by functioning as a health data. resource for treatment, care coordination, quality improvement, and community and public health purposes.

► <u>Telehealth Virtual Resource</u> Health Data Utility

Resources

MHCC Podiatry Learning







A PODIATRIST'S PERSPECTIVE

CRISP

Chesapeake Regional Information System for our Patients

How I use it and why you should!

Mikel D. Daniels, DPM, MBA, FACFAS, FAPWCA, FASPS, WCC



As a physician in Maryland, it is important to be aware of the benefits of using CRISP to improve care coordination, reduce medical errors, increase efficiency, and improve patient outcomes. If you are not already using CRISP, I encourage you to learn more about it and consider incorporating it into your practice.





Definitions

CRISP is a non-profit health information exchange (HIE) that connects healthcare providers throughout Maryland and the District of Columbia, allowing them to securely share patient information and improve care coordination.

•An Electronic health information exchange (HIE) allows doctors, nurses, pharmacists, other health care providers and patients to appropriately access and securely share a patient's vital medical information electronically—improving the speed, quality, safety and cost of patient care.

•Avoid readmissions

•Avoid medication errors

Improve diagnoses

•Decrease duplicate testing



Benefits of CRISP

- **1. Health Information Exchange (HIE):** CRISP allows us to securely share patient information, including medical history, lab results, and medication lists.
- 2. Patient Record Lookup: This service allows us to access patient records from other healthcare organizations that participate in CRISP.
- **3.** Alerts and Notifications: CRISP provides real-time notifications when your patients receive care at other organizations.
- **4. Public Health Reporting:** CRISP supports public health reporting, allowing us to report communicable diseases and other public health issues to the appropriate authorities.

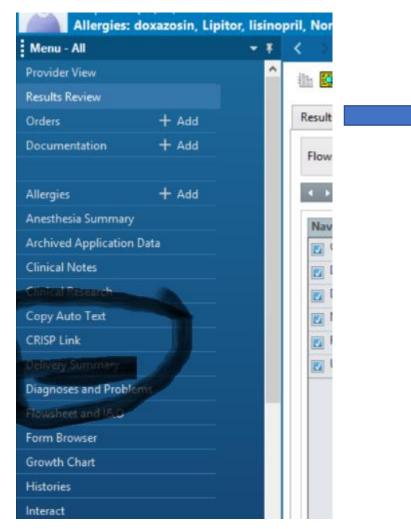


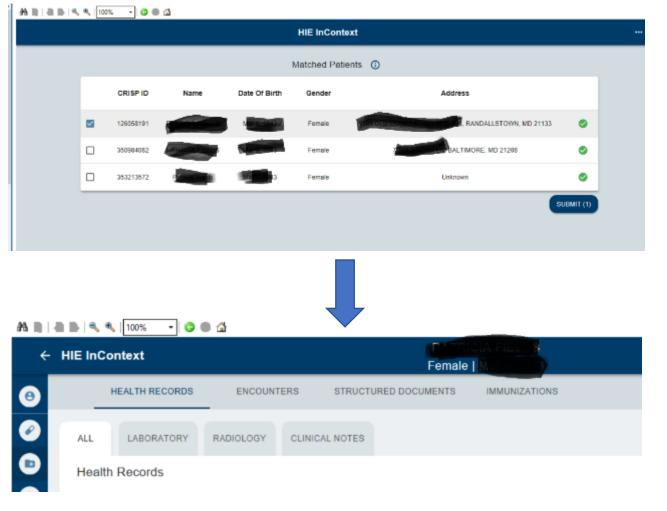
Benefits of CRISP

- 1. Improved care coordination: With CRISP, we have access to a patient's medical history, medication lists, lab results, and more, regardless of where they received care. This allows providers to make more informed decisions and provide better care for their patients.
- 2. Reduced medical errors: CRISP helps reduce medical errors by ensuring that providers have accurate and up-to-date information about a patient's health status, medications, and allergies.
- **3. Increased efficiency**: With CRISP, we can access patient information quickly and easily, without having to spend time tracking down records from other providers or organizations. This can help save time and improve overall efficiency.
- **4. Improved patient outcomes**: By improving care coordination and reducing medical errors, CRISP can help improve patient outcomes and overall health.



Where do I find CRISP?







Where do you find CRISP?





Clinical Data

As dirical information is preased and shared with CRISP, it is made accessible in near real time to participating health care providers i wough the CRISP tools. Provide shave the avility to accurdy look upper ant information the capit like in some CRISP tooks relations date. From parts performed disaky it in a very care in a time to the part of tare.

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Overview

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www.crisphealth.org/

Where do I find CRISP?

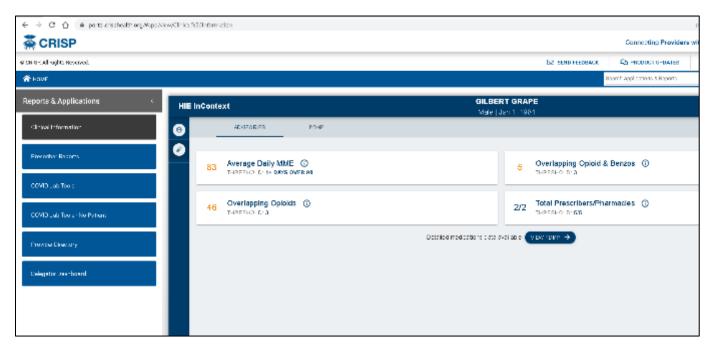
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www.crisphealth.org/



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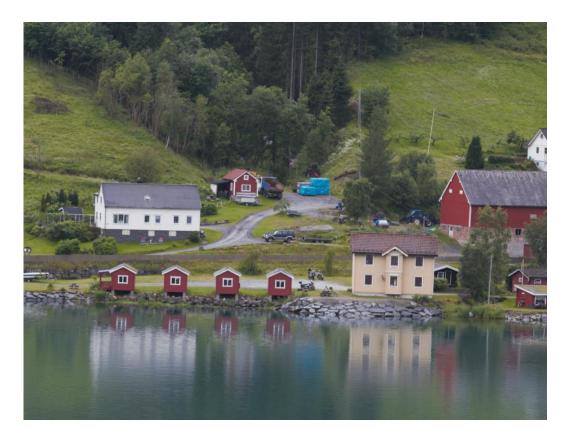
How does it help me?

Coding Based on Medical Decision Making

	Straightforward 99202/ 99212	Low 99203/ 99213	Moderate 99204/ 99214	High 99205/ 99215							
Problem	1 self-limited or minor problem	 2 or more self-limited or minor problems, OR 1 stable chronic illness, OR 1 acute, uncomplicated illness 	 1 or more chronic illness with exacerbation, progression, or side effects for treatment, OR 2 or more stable chronic illnesses, OR 1 undiagnosed new problem with uncertain prognosis, OR 1 acute illness with systemic symptoms 	 1 or more chronic illness with severe exacerbation, progression, or side effects of treatment, OR 1 acute or chronic illness posing a threat to life or bodily function 							
Data	Minimal or none	Limited: Must meet the requirement of at least 1 of 2 categories Category 1: Test and documents, any combination of 2 from the following: • Review of prior external note(s) from each unique source • Review of the result(s) of each unique test • Ordering of each unique test Category 2: Assessment requiring an independent historian(s)	Must meet at least 1 of 3 categories: Category 1: Any combination 3 of 4 below: • Review of prior external note(s) from each unique source • Review of the result(s) of each unique test • Order each unique test • Assessment requiring an independent historian(s) Category 2: Independent interpretation of tests performed by another physician Category 3: Discussion of management or test interpretation with external physician/other qualified health care provider not separately reported	Must meet at least 2 of 3 categories: Category 1: Any combination 3 of 4 below: • Review of prior external note(s) from each unique source • Review of the result(s) of each unique test • Order each unique test • Assessment requiring an independent historian(s) Category 2: Independent interpretation of tests performed by another physician Category 3: Discussion of management or test interpretation with external physician/other qualified health care provider not separately reported							
Risk	Minimal risk of morbidity from additional diagnostic testing or treatment	Low risk of morbidity from additional diagnostic testing or treatment	Prescription drug management; diagnosis or treatment significantly limited by social determinants of health	 Examples only: Drug therapy requiring intensive monitoring for toxicity Decision regarding not to resuscitate or de-escalate care due to poor prognosis 							
	Final decision based on 2 out of the 3 elements at the same level or higher 2/2										

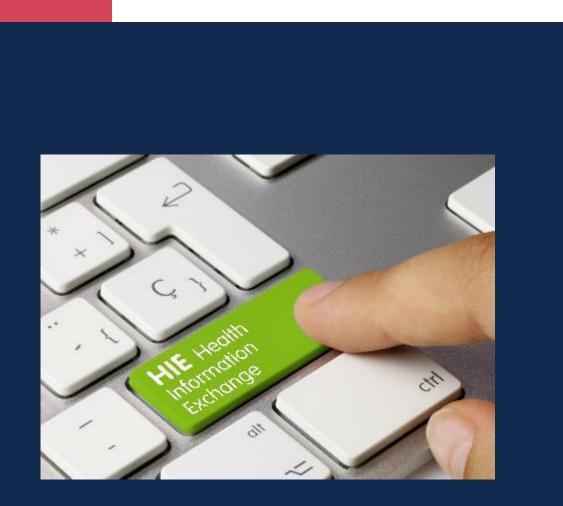


Thank you!



Questions? Email: <u>drmdaniels@wetreatfeet.com</u>







CRISP OVERVIEW



State-Designated HIE Overview and Services

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



State Designated Health Information Exchange (HIE) serving Maryland, and in affiliation with the HIEs in West Virginia, the District of Columbia, Connecticut, Alaska, and Virginia.

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



Guiding Principles

- Begin with a manageable scope and remain incremental.
- 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.

Implementation Timeline

First Steps

CRISP begins at a meeting between John Erickson and the CIOs of Maryland's three largest hospital systems, asking how to make medical records for seniors available when they visit the hospital.

2006

Utilizing Services

Every hospital in Maryland is connected. Clinicians begin using the Query Portal, and the team develops the Encounter Notification Service.

2010

Supporting Partnerships

The initial research use case goes live. Program Administration to support care redesign programs begins and patient-level Medicare claims become available. The InContext app goes live in Epic. CRISP partners with the West Virginia Health Information Exchange (WVHIN) to share infrastructure.

2016

Health Data Utility

Real-time hospital utilization reports are launched, COVID testing reports and notifications are introduced, immunization tools go live, and new data types are shared through the HIE. The Insights data lake and analytics are leveraged extensively.

2022

2008

Getting Connected

CRISP is named Maryland's designated statewide HIE through a competitive process and the first provider organizations connect. The HSCRC awards a grant and CRISP wins federal Regional Extension Center funding.

Expansion

2012

Claims-based reports are produced, the Prescription Drug Monitoring Program and Health Benefits Exchange provider directory go live, the first Washington D.C. hospital connects, and health plans begin accessing records through a specialized portal, and CRISP begins routing CCDAs at hospital discharge.

2014

Essential Infrastructure

2018

DC Medicaid claims data is made available. New open source HIE stack is implemented (June) first county EMS are connected (Oct) CRISP begins responding to national network queries. Connecticut's HIE, Connie, partners with CRISP.

2020



1. POINT OF CARE: Clinical Portal & InContext Information

- Search for your patients' prior health records (e.g. labs, radiology reports, etc.)
- Determine other members of your patient's care team
- View external records in a SMART on FHIR app inside your EHR

2. CARE COORDINATION: Encounter Notifications

- Be notified when your patient is hospitalized in any regional hospital
- Enhance workflows across multiple care settings and teams

3. POPULATION HEALTH REPORTS: CRISP Reporting Services (CRS)

• Use administrative and clinical data to design and measure interventions

4. PROGRAM ADMINISTRATION:

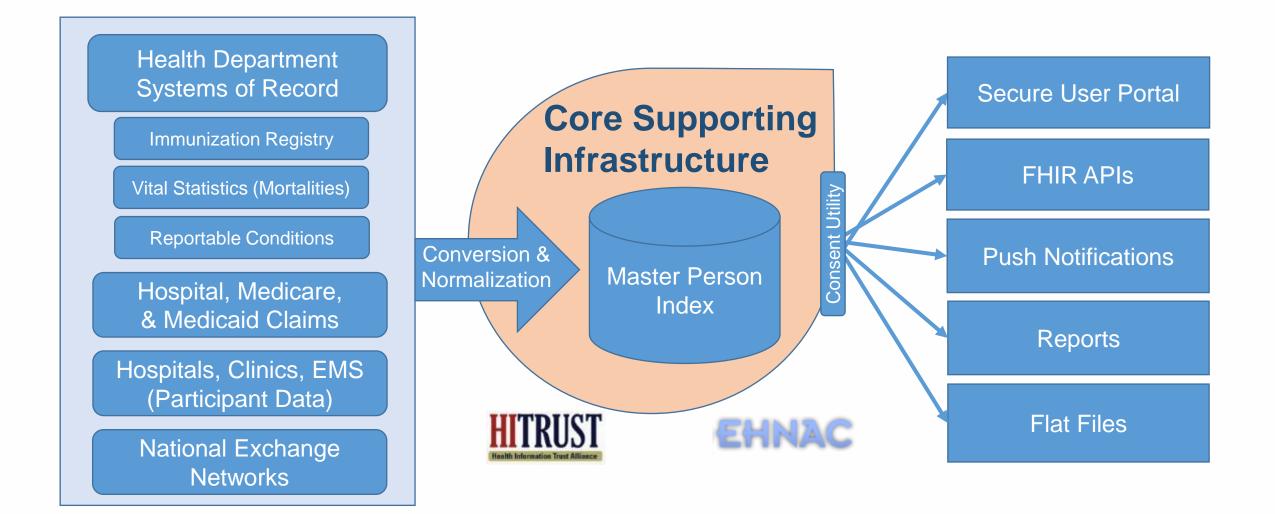
- Making policy discussions more transparent and informed
- Disseminating evidence-based best practices and technology

5. PUBLIC HEALTH DATA UTILITY:

- Deploying services in partnership with health officials
- Providing information and services to state and local health departments
- Supporting COVID-19 response efforts

Service	Typical Week
Data Delivered into EMRs	1,500,000
Patients Manually Searched	205,000
ENS Messages Sent	3.5 mil
Clinical Documents Processed	675,000
Portal Users	107,000
Live ENS Practices	1,580
Reports Accessed	2,750
Report Users	2,000







- Opt-out model gives patients the right to block electronic access to their information shared through the HIE
 - All participating providers must update Notice of Privacy Practices and make patient education materials available
 - If a patient opts out, no information will be available through the portal and notifications about hospitalizations for this patient will be blocked
 - EXCEPTION: By Maryland law, opt-outs do not apply to PDMP and select Public Health information, and this data will still be visible in a patient's record
- Annual audits and reports as required by State Designation Agreement, regulations, and best practices
 - SOC 2 Type 2
 - HIPAA & COMAR Compliance
 - Cybersecurity & Social Engineering Testing
- Adhering to industry best security standards
 - EHNAC HIE accredited since Feb. 2017
 - HITRUST certificated since Nov. 2017
- Continuous privacy monitoring





• Protenus software monitors query activity to identify potentially suspicious activity outside of a permitted use case



Prescription Drug Monitoring Program (PDMP)

&

Clinical Information



Point of Care: Prescription Drug Monitoring Program

Mission (not formally adopted):

The Maryland PDMP collects controlled dangerous substance (CDS) prescription dispensing information and enables authorized users' access to these data for the purpose of improving the health and safety of Maryland patients and the public.

Basic Description of the Maryland PDMP:

- Secure, state-wide, electronic database
- Contains Schedule II-V pharmaceutical controlled dangerous substance (CDS) Rx dispensed in Maryland
- Rx data can be disclosed for clinical, investigative and research/pub education purposes as allowed by law





Point of Care: Prescription Drug Monitoring Program

← HIE InContext					na Cadeno e Nov 16,					🧈
	ADVISORIES		PDMP							
	No Clinical Alerts									•
D CLINICAL DATA	Medications								Q III .	() =+
	Medication	State	Date ↓ Filled	Date Written	Days Supply	Quantity Dispensed	MME/Day	Prescriber	Pharmacy Name	Payment Method
SOCIAL NEEDS DATA	0XYCODONE HCI 5 M4 TABS	^B MD	2022-07-15	2022-07-15	30	60	15	HOSE PHARMACIES, INC.	WAL-MART PHARMACY 10-2279	-
DATA FROM CLAIMS	Zubsolv 8.6-2.1 MG St	JBL MD	2022-07-11	2022-07-11	15	45	-	DUNDALK PHARMACY	WAL-MART PHARMACY 10-2279	-
	Nucynta ER 150 MG T	B12 MD	2022-07-01	2022-07-01	30	90	180	WALGREEN CO.	WAL-MART PHARMACY 10-2279	-
	axyCODONE HCI 5 M TABS	G MD	2022-06-15	2022-06-15	30	60	15	MARYLAND CVS PHARMACY, L.L.C.	WAL-MART PHARMACY 10-2279	-
	ALPRAZolam 0.5 MG TABS	MD	2022-04-08	2022-04-06	30	60	-	MARYLAND CVS PHARMACY, L.L.C.	WAL-MART PHARMACY 10-2279	-
	OXYCODONE HCI 5 MM TABS	G MD	2022-02-26	2022-02-25	30	60	15	MARYLAND CVS PHARMACY, L.L.C.	WAL-MART PHARMACY 10-2279	-
	Zubsolv 8.6-2.1 MG St	JBL MD	2022-02-17	2022-02-17	15	45	-	-	WAL-MART PHARMACY 10-2279	-
	ALPRAZolam 0.5 MG TABS	MD	2022-02-07	2022-02-05	30	60	-	DUNDALK PHARMACY	WAL-MART PHARMACY 10-2279	-
	0XyCODONE HCI 5 M	g MD	2022-02-03	2022-02-03	30	60	15	-	WAL-MART PHARMACY 10-2279	-
	Zubsolv 8.6-2.1 MG St	JBL MD	2022-02-01	2022-02-01	15	45	-	WAL-MART PHARMACY 10-2279	DUNDALK PHARMACY	-
	HYDROmorphone HCI MG TABS	4 MD	2022-01-28	2022-01-28	20	120	96	WALGREEN CO.	DUNDALK PHARMACY	-
Powered by CRISP	Zubsolv 8.6-2.1 MG St	JBL MD	2022-01-14	2022-01-14	15	45	-	WAL-MART PHARMACY	DUNDALK PHARMACY	_ *



In addition to the PDMP data, common PDMP advisories are available to support providers:

- Average Daily MMEs
- Overlapping Opioids and Benzodiazepines
- Overlapping Opioids
- Total Prescribers & Pharmacies

ADVISORIES PDMP		
52 Average Daily MME () THRESHOLD: 1+ DAYS OVER 90	0	Overlapping Opioid & Benzos () THRESHOLD: 3
30 Overlapping Opioids () THRESHOLD: 3	4/1	Total Prescribers/Pharmacies () THRESHOLD: 5/5
Detailed medicati	ons data available	



		HIE InContext					
MEDICATION MANAGEMENT		GILBERT GRAP					
CLINICAL DATA	e Male	😨 Jan 1, 1984	🥑 Probable				
CARE COORDINATION	1145 Earl C Adkins Dr. River, WESTMINSTER, WV 26000	No Infection Control Alerts		 •	Next of Kin	VIEW	
SOCIAL NEEDS DATA	ADVISORIES PDMP		_	_	_	_	^
DATA FROM CLAIMS							
HIE PORTAL	93 Average Daily MME ① THRESHOLD: 1+ DAYS OVER 90	5 Overlapping Opioid & Ben THRESHOLD: 3	xos ()		MMC (2020		
	14 Overlapping Opioids ① THRESHOLD: 3	2/2 Total Prescribers/Pharmac	es ()			ave experienced a controlled sub-	stance related event
	Detailed medication	ns data available VIEW PDMP ->			Clin	nical Alerts (j	1
						3 (2019-07-25) ent may have expe	erienced a cont

Powered by CRISP

Patient may have experienced a controlled substance related event on 2019-07-25 at Bon Secours Hospital. Discharge Diagnosis: T40.2X1A (Poisoning by opium, intentional, initial) (Patient may have experienced an overdose even on 2019-01-20 20:30 at BSB.). Admit Reason: Overdose on Controlled Dangerous Substance. There is no longer a training requirement to obtain a waiver to prescribe buprenorphine for treatment of OUD; please visit Maryland Addiction Consultation Services (https://www.marylandmacs.org/New-HHS-Practice-Guidelines/) for more information.



Clinical Information



Patient data includes:

- Labs
- Radiology Reports+Image (where available)
- Clinical Notes
- Immunizations
- Structured Documents (CCDAs)
- All data can be printed/downloaded

HIE I	nContext				Gilbert Grape her Jan 1, 1984				<i>🖉</i>
Θ	H	EALTH RECORDS	ENCOUNTERS STRUCTURED D	DOUMENTS IMMUNIZATI	DNS				
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•	۵	2023-02-14	Washington Adventist Hosp	ital	XR Chest 1 View	1234567890 Naiclsyhp6 Znaiclsyhp6			
		2023-02-14	Washington Adventist Hosp	ital	CBC	99986 PHYSICIAN TEST			
		2023-02-14	Washington Adventist Hosp	ital	ED Note-Physician	G0163 Naicisyhp8 Znaicisyhp6			
		2023-02-14	Washington Adventist Hosp	ital	Progress Note-Physician	G0163 Naicisyhp8 Znaicisyhp6			
		2023-02-14	Washington Adventist Hosp	ital	History and Physical	O0163 Nalcisyhp6 Znalcisyhp6			
		2023-02-01	Shady Grove Adventist Hos	pital	ED Note-Physician	G0163 Naicisyhp6 Znaicisyhp6			
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		2023-02-01	Shady Grove Adventist Hos	pital	History and Physical	G0163 Naicisyhp6 Znaicisyhp6			



Available Information:

Lab Results, including cultures

Benefits:

- Historical data
- More complete patient history

HIE InContext			GILBER'	T GRAPE			
8	HEALTH RECORDS	CBC 99986 PHYSICIAN TEST Date Collected: 2023-02-14				*	×
8 8	Health Records	Notes	No notes available fo	or this record.		^	
() () ()	2023-02-14 2022-05-18 2022-05-18	Observations Reported (ET)	Name	Result	Range	Status	
	2022-05-18	2023-02-14 13:03	HGB BLD-MCNC	15.00 g/dL	13.70 - 17.50	final	
	2022-05-18	2023-02-14 13:03	Platelets.reticulated NFr Bld Auto	1.00 %	0.00 - 3.00	final	
	2022-05-18	2023-02-14 13:03	MCH RBC QN AUTO	28.20 pg	25.70 - 32.20	final	
	2022-05-18	2023-02-14 13:03	WBC NRBC COR NO. BLD AUTO	6.20 ×10(3)/mcL	4.20 - 9.10	final	
	2020-09-07	2023-02-14 13:03	RBC NO. BLD AUTO	4.55 ×10(6)/mcL	4.63 - 6.08	final	
	2020-09-06	2023-02-14 13:03	HCT VFR BLD AUTO	40.00 %	40.10 - 51.00	final	
	2020-09-05	2023-02-14 13:03	MCV RBC AUTO	90.00 fL	79.00 - 92.20	final	



Available Information:

- Radiology Reports
- Diagnostic Quality Images from all MD hospitals and over a dozen outpatient radiology centers

Benefits:

- Comparison images
- Reduce duplicative imaging

HIEI	nContext	GILBERT GRAPE			
8	ALL LABORATORY	XR Chest 1 View 1234567890 Naicisyhp6 Znaicisyhp6 Date Collected: 2023-02-14	٥	<u>+</u>	×
8	Health Records	Test results for Josh CLINICAL HISTORY: . COMPARISON: None. TECHNIQUE: Portable 1 view Chest X-Ray. FINDINOS:			
Ø	Date Collected ↓ 2023-02-14	Lungs/Pleura: The lungs are clear and expanded. There is no demonstrated pleural abnormality. Heart/Mediastinum: Normal size heart. Bones: Normal. Lines/tubes: None.			
	2023-02-01	Other: Normal. IMPRESSION: Normal examination of the chest. ***** Final ***** Dictated: 02/14/2023 1:00 pm			
	2022-05-18 2022-05-18	Signed By: Lester , Elizabeth Signed (Electronic Signature): 02/14/2023 1:00 pm			
	2022-05-18				



Available Information:

- Clinical Notes
 - D/C Notes
 - Progress Notes
 - H&Ps
 - Consult Notes
 - And more!

Benefits:

- Improved medical history
- Enhanced care coordination

HIE InContext		GILBERT GRAPE						
	HEALTH RECORDS	Progress Note-Physician G0163 Naicisyhp6 Znaicisyhp6	ŧ	×				
	Date Collected	Date Collected: 2023-02-14						
	2023-03-16							
	2023-02-14	*** Image not supported for this						
	2023-02-14	White Oak Medical Center output type ***						
	2023-02-14	11890 Healing Way Silver Spring, MD 20904-						
	2023-02-01	Patien GRAPE , GILBERT TESTPATIENT t						
	2023-02-01	MRN: (wa)08247059 Location Test WO; 9970; 01						
	2023-02-01	FIN: 47349267 Admit/Disc 2/14/2023 / h.						
	2022-12-30	DOB/Age/Sex 1/1/1984 39 years Male Attending Znaicisyhp6, Naicisyhp6						
	2022-12-20	Progress Notes Document Name: Progress Note-Physician						
	2022-12-02	Document Status: Auth (Verified)						
Ĩ	2022-09-14	Performed By: Abebe , Meskerem (2/14/2023 12:18 EST) Authenticated By: Abebe , Meskerem (2/14/2023 12:18 EST)						
1	2022-08-26	Readmission Risk: LOW (02/11/2023.22:30) History/Review of Systems						
	2022-06-17	test Objective						
1	2022-05-21	Vitals & Measurements Measurements T. 36.5C(Oral) HR. 78(Apical) BP 130 /81						
	2022-05-05	Antibiotics No Active Anti-Infectives						
1	2022-05-05	Inpatient Medication Orders						
	0000 01 00	No qualifying data available						



HIEI	nContext				t Grape an 1, 1984				ø
Θ	CARE TEAM	CARE ALERTS	REFERRAL HISTORY	ADVANCE DIRECTIVES					
0	Care Team							٩	Ŧ
	Source			Care Program 🔸	Provider	Role	Start Date	Last Updated	
0	YMCA of Metro Washington			ENS_YMCAMWSH	Dr. Smith	Primary Care Physician	2021-10-04	-	
	YMCA of Metro Washington			ENS_YMCAMWSH	Cash	Care Manager	2021-10-04	-	
0	wic			ENS_WICORG	Cash	Care Manager	2021-07-15	2021-07-15	
	WIC			ENS_WICORG	Dr. Smith	Primary Care Physician	2021-07-15	2021-07-15	
	St. Agnes Referrals			ENS_STAGREF	Dr. Smith	Primary Care Physician	2021-10-04	_	
	St. Agnes Referrals			ENS_STAGREF	Cash	Care Manager	2021-10-04	-	
	Medstar Family Choice Referra	ls		ENS_MSFCREF	Dr. Smith	Primary Care Physician	2021-10-04	-	
	Medstar Family Choice Referra	lis		ENS_MSFCREF	Mouse	Care Manager	2021-10-04	-	
	LifeBridge Health Referrals			ENS_LIMOCL	Cash	Care Manager	2021-07-29	2021-07-29	
	LifeBridge Health Referrals			ENS_LIMOCL	Dr. Smith	Primary Care Physician	2021-07-29	2021-07-29	
	Lifebridge Food Project			ENS_LBFOODPR	Dr. Smith	Primary Care Physician	2021-10-04	-	
	Lifebridge Food Project			ENS_LBFOODPR	Cash	Care Manager	2021-10-04	-	

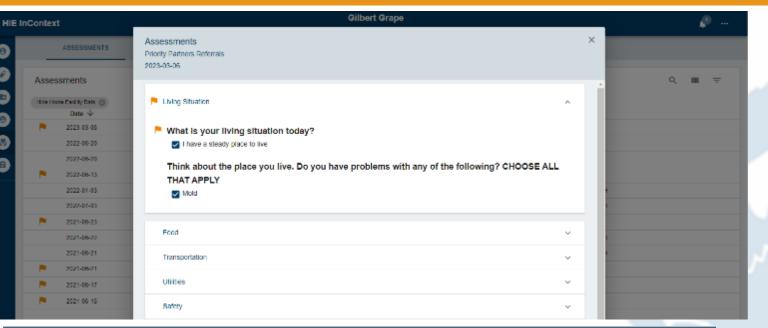
Patient data includes:

- **Care Team** Who else has a treatment relationship with the patient?
- **Care Alerts** Is there critical information I should know about the patient?
- **Referral History** Has the patient been referred to any CBOs or other programs (ex. DPP)?
- **Advance Directives** Does the patient have advance care planning documents completed via AD Vault?



Patient data includes:

- Social Needs Assessments
- Conditions (z-codes)



E InContext		Gilbert Grape Other Jan 1, 1984				
ASSESSM	ENTS CONDITIONS					
Conditions						
Date 🗸	Source	Z-Code	Description			
2022-01-27	ARS	Z59.1	Inadequate housing			
2022-01-25	ARS	Z56.0	Unemployment, unspecified			
2021-09-30	ARS	Z60.2	Problems related to living alone			
2021-07-01	ARS	Z63.4	Disappearance and death of family member			



Care Coordination

Care Coordination: Encounter Notifications

- Real-time or batch alerts to appropriate providers based on treatment and care management relationships
- Interactive user interface within CRISP Portal or messages delivered into EHRs
- ENS subscription information

 (a patient's Care Team) is
 displayed at the point of care
 through Portal or In-Context

No	Notifications								
	Received Time 👻 Newest 👻	L	ast 180 Days 👻	潭 All Filters				Q. Sea	rch MRN or Name
	CRISP DEMO 👻 Status: All 👻							1-43 = of 43	≪ < > ⊂ ₹
	Name		MRN	Event Time	Facility	Patient Class	Event Type	Alert Type	Status
	Demo2, Panera Male, 69 years	Ē	789098762	04/25/2023 08:12 AM	MedStar Good Samaritan hospital	Inpatient	Discharge	ENS ProMPT	Not Started 👻
	Demo3, Solar Male, 68 years	Ē,	678456341	04/29/2023 12:00 PM	Labcorp	Outpatient	Test Result	COVID-19 Rule	Not Started 👻
	Demo2, Panera Male, 69 years	Ë⁄	789098762	04/02/2023 10:00 AM	Cabell Huntington Hospital	Outpatient	Registration	ENS ProMPT	Not Started 👻
	Demo, Gail Female, 70 years	Ë,	210404861	04/15/2023 04:00 PM	WV MedExpress	Outpatient	Registration	ENS ProMPT	Not Started 👻
	Demo2, Panera Male, 69 years	Ë>	789098762	04/19/2023 09:05 PM	MD NEDSS	Outpatient	Test Result	COVID-19 Rule	Not Started 👻
	Demo1, Coconut Female, 66 years	Ë>	180034567	04/12/2023 09:05 AM	MD NEDSS	Outpatient	Test Result	COVID-19 Rule	Not Started 🔻



- CRISP can now provide real-time ENS alerts that notify a patient's care team when their high-risk patients have hospital encounters for specific conditions (e.g. COVID-19, CHF, Asthma), procedures (e.g. Mammography, Joint Replacement) or key lab tests resulted (e.g. COVID-19, Pregnancy, Pre-Diabetes).
- The alerts leverage CPT, ICD10 and LOINC coding standards to identify specific healthcare events and alert the patient's care team for improved care coordination, reduced readmissions, and a better patient experience.
- CRISP alerts are delivered within a provider's workflow and are highly configurable, so users receive actionable data.

Alert Category 👻	Alert Type 👻	Description
Condition Specific	End Stage Renal Disease (ESRD)	Notification that a patient is diagnosed with End Stage Renal Disease.
Care Coordination	Readmission	Notification that a patient has a hospital readmission.
Condition Specific	Diabetic Ketoacidosis (DKA)	Notification that a patient with Diabetes has a Diabetic Ketoacidosis event.
Condition Specific	COVID-19+	Notification that a patient is diagnosed with COVID-19.
Care Coordination	Immunization Alert	Notification that a patient misses a routine immunization.
Care Coordination	Pregnancy Lab Alert	Notification that a patient has a positive pregnancy test.
Care Coordination	LANE Diagnosis Alert	Notification that a patient has an Emergency Room visit for a low-acuity condition.
Care Coordination	Death Notice	Notification that a patient has expired.
Care Coordination	Timely Follow-up	Notification that a patient with a chronic condition has had a hospital encounter.



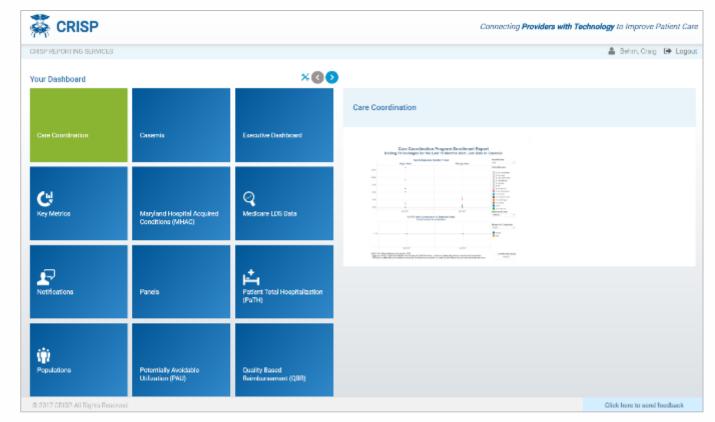
Program Administration

CRISP Reporting Services (CRS)



Population Health: CRISP Reporting Services

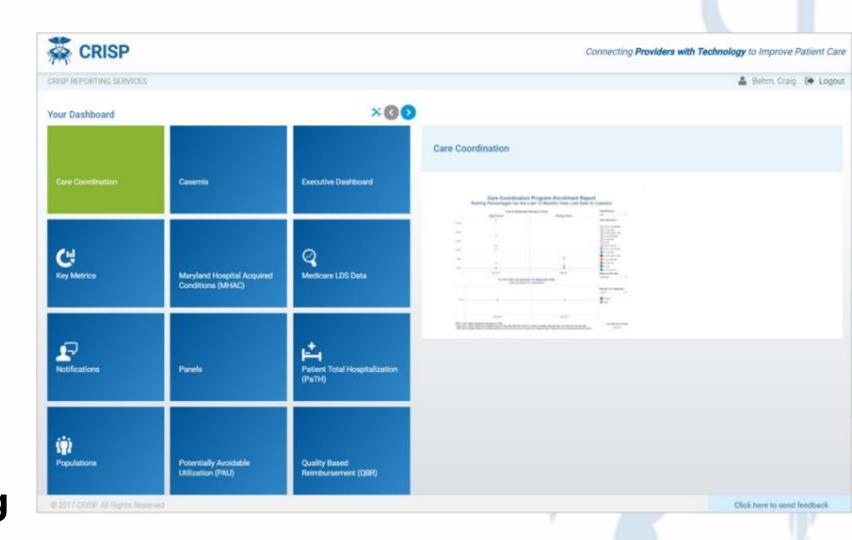
- Dashboards from administrative data to support high-needs patient identification, care coordination, and progress reporting
- Primary data sets are hospital casemix and Medicare claims and claim line feed (CCLF)
- Different levels of patient data available for hospitals based on HSCRC payment requirements and Total Cost of Care Model participation
- There are over 600 active users viewing
 85 reports over 2,000 times per month





Dashboards from casemix and Medicare data to support highneeds patient identification, care coordination, and progress reporting

Access via reports.crisphealth.org





Hospital Panel Enrollment Dashboards

Enables users with an ENS panel to monitor cost & utilization of their entire panel

Pre/Post Analysis

- Allows users to monitor utilization prior to and after an intervention
- Visit Level Pre/Post Analysis
 - Provides visit level details regarding patient hospital events



Public Health Data Utility



HB1127 requires the State-Designated HIE (CRISP) to operate as a Health Data Utility (HDU) for the State. Purposes include:

- 1. The collection, aggregation, and analysis of clinical information, public health data, and health administrative and operations data to assist the Department, local health departments, the Commission, and the Health Services Cost Review Commission in the evaluation of public health interventions and health equity;
- 2. The communication of data between public health officials and health care providers to advance disease control and health equity; and
- 3. The enhancement and acceleration of the interoperability of health information throughout the State.

Source: https://mgaleg.maryland.gov/2022RS/bills/hb/hb1127T.pdf



Services

- Enrich Data
 - Link disparate data sets
 - Use multiple sources to fill gaps
 - Improve data feeds
 - Surface key insights
- Distribute Information
 - Create visualizations
 - Control access levels
 - Push individual clinical records
 - Share analytic files
- Enable Interventions
 - Flag patients at the point of care
 - Notify appropriate end users
 - Share relationships between organizations

Value



All data becomes more useful when it is linked, normalized, deduplicated, and cleansed within a single analytics engine



User experience is enhanced and usage increases when a single entity is responsible for governance and distribution



Alignment between population level reports and actionable individual experiences is more likely to result in positive change



CRISP helps state and local systems coordinate with each other within the states, enhance the data with up-to-date demographic information, add clinical data, help communicate between states, and distribute data to downstream users.

Selected recent successes

- Secure shared COVID reporting portal for analytics
- Scalable contact tracing workflow for COVID and MPOX
- Centralized surge response through bed occupancy
- COVID state reporting
- Vaccination data to providers and downstream users (such as Baltimore City Schools for school readiness)
- Interoperability between health and other sectors
- EMS data at the point of care



CRISP is enhancing the focus on health equity through enhancing data with race/ethnicity, and building an interoperable SDOH suite of tools to help providers support their patients with social needs and connect with community providers.

Selected Recent Successes

- Race/Ethnicity enrichment for COVID testing, immunizations, etc.
- SDOH referrals between clinicians and community organizations
- Interoperability with third-party social needs vendors
- Social needs clearly visible in portal (assessments, z-codes)



- Leverage existing data feeds for **multiple use cases**
 - Hospital HL7 can be aggregated for public health dashboards
 - Medicaid claims can be shared at the point of care
 - Medicaid redetermination support
- Support collaborative governing bodies to share ideas, best practices, and recommendations
 - Groups that don't routinely interact get the opportunity
 - Diverse stakeholders can make the case to share or withhold! information
- Launch pilots by leveraging existing infrastructure and staff; expand or stop based on real-world results
 - Push suspected overdose events to a local health department to try new outreach programs
 - Try sending referrals from primary care practices to community-based organizations



Resources

Training materials, recorded webinars, and patient education flyers can be found at: <u>https://crisphealth.org/</u>



Contact Information

Sheena Patel, MD, CMPE Senior Director <u>sheena.patel@crisphealth.org</u>





QUESTIONS