

### Maternal Child Health Task Force

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#### **Regional Health Information Exchange**

(HIE) serving Maryland and the District of Columbia, and collaborating with Delaware, Northern Virginia, Pennsylvania, and West Virginia



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





#### Mission

We will enable and support the healthcare community of Maryland and our region to appropriately and securely share data in order to facilitate care, reduce costs, and improve health outcomes.

### **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.



#### 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:
  - o Identify patients who could benefit from services
  - o Measure performance of initiatives for QI and program reporting
  - Coordinate with peers on behalf of patients who see multiple providers
- 4. PUBLIC HEALTH SUPPORT: Partnerships with Maryland MDH, District of Columbia DHCF, and West Virginia through the WVHIN
- 5. PROGRAM ADMINISTRATION: Technical and administrative support for Care Redesign Programs





Data source or attribute	#
Live hospitals	91
Live clinical data feeds	261 (lab, rad, ADT, CCD)
Live ENS practices	+1,000
Long-term and post- acute care facilities	170
Standalone labs and radiology centers	16
Unique patients in index	+16 million
Patient searches	+400,000/mo
Encounter alerts sent	+2,500,000/mo

Service	Typical Week
Admit, Discharges from Hospitals and Ambulatory	4,159,212
Laboratory Reports Received	964,712
Received Transcriptions/Reports	236,335
Received Radiology Reports	163,407
Encounter Notifications Sent	852,411
InContext Requests for HIE Registry data	470,060
Delivery of Registry into EMRs	311,040
InContext Requests for PDMP Data	369,580
Delivery of PDMP Data into EMRs	95,540
Patients Searched	61,489
Patients searched in ULP Portal	41,403
Patients searched from an EMR	13,606
Images Viewed	176
New data sent to MPI	1,833,000



## **Unified Landing Page (ULP)**



- The CRISP Unified Landing Page is a single platform in which multiple CRISP services can be accessed
- Users can now have access to many CRISP Services with just one username and password
- Currently, Clinical Query Portal and PDMP are available.
- Other services are gradually being added.

# Unified Landing Page Patient Search

<b>CR</b>	SP Unified Land Page	ed ling p <sup>m</sup> <b>HOME PDMP Q</b>	QUERY PORTAL WIDGET	QUERY PORTAL	PATIENT CARE SNAPSHOT CRS-DC CENSUS VIEW	FAQ	CRAIG BEHM (SIGN OUT)
earch Portlet V2							
New Search Patient Se	arch						
Last Name(Re greape	quired)		i <b>rst Name(Required)</b> gilbert		Date Of Birth(Required)01011984		PATIENT SEARCH
Gender: ●Mal	e •Female	Z	ïpCode		<b>SSN</b> 300K-30K-3000X		
Patient Searc							
FIRST	LAST	DATE OF BIRTH	CRISP ID	GENDER	ADDRESS	MATCH SCORE	INCLUDE
Gilbert	Grape	01/01/1984	31131416	Female	4145 Earl C Adkins dr River, WV 26000	🛉 Very Likely	
GILBERT	GREAPE	01/01/1984	32201444	Male	414501 EARL RIVER, WV 26000	🛉 Very Likely	
GILBERT	GRAPE	01/01/1984	32208305	Male		🛉 Likely	
GILBERT	GRAPE	01/01/1984	79548754	Male	WICHITA, KS 67203	🛉 Likely	
GILBERT	GRAPE	01/01/1984	79601301	Male	, 67203	🛉 Likely	
							SEARCH APPS



View of critical patient data, including care teams, care alerts, and prior visits, with customizable widgets

	apshot Ibert Grape Gender: H	lale Date of Birth: 01-01-	1984											Prof	
Patient Demo	graphics				Encounters From ADT										
0	Gilbert Grape		4145 Earl C Adkins Or River, WV 26000		Lemergency	Inpatient 🔵 (	outpatient								
Gender	Male	D.O.B.	01-01-1964												_
C	(111)-222-3334	8													
Clinical Docur	nents														
Dote V		Description	II V	8			•								
09/04/2028		Summary of Care	Meritus				-								
06/26/2018		Summary of Care	Meritus			Apr .	iul	Oct	Jan	Apr	Jul Iut		Jan	Apr	4
06/28/2018		Summary of Care	Maritus		2018				2019	21210 Torr		1	2020		
06/26/2018		Summary of Care	Meritus		00000	)		03	1/11/2019	to -	04/11/2019		Apply Clear		
06/20/2018		Summary of Care	Meritus		Date	Source			t Type	Reason		agnosis		Discharge Disposition	
06/20/2018		Summary of Care	Maritus		4	N A		41 V		11 ¥	11 V		11 3	1	
08/20/2018		Summary of Care	Maritus		02/13/2015	Maritus N	edical Center	Inpati	ient A01	Difficulty breathing	49	3.2	C	Nscharged to home	
08/20/2018		Summary of Care	Maritus		05/20/2018	Meritus N	edical Center	Dutps	atient A04	Hedication manage	nent 20	0.00	5	Discharged to home	
				14.	06/20/2018	Meritus N	edical Center	0,00	atient ADA	Annual physical	25	181	10	Sischarged to home	
Care Alerts					03/19/2018	Shady Gr	ove Adventist Hospital	inpati	lent A03	Pneumonia	25	7.01	ć	Nachwiged to SNF	
Date V	U V	Description			03/13/2018	Shady Gr	ove Adventist Hospital	inpati	lent A01	Preumonia	28	7.01	1	Discharged to SNF	
04/04/2019	ENSLABOBLYW,	health insurance company history of frequent ED hos services, and transportatio in AbsoluteCARE by calling	In have been trying to reach this patient, wh I We are AbsoluteCARR, a local primary care on a soliton to advanced primary care and pone of us (Monday - Friday between the off ide as soon as feasibly possible. Thank you! -0430).	office specializing in adults with a social work, behavioral health ices. Help get this patient enrolled (se hours of 3am - Spm), and we will	Care Team										
04/01/2019	MINC	Patient is due for colonoso	copy	1	Participant		Participa	nt							
02,01/2019	UNINS	Patient's daughter helps m meds or with questions.	nanage medications and care. Please call he	r at 410-354-5215 if adding any	Name	Program V	Phone T		Enroll Date	Disenroll Date	IT V	ti ⊽	Manager	Care Manager	r Phon
01/20/2019	SAH		rced an overdose even on 2019-01-20 20:30 i		One Health Quality Allians	# AC0	410-543-8	949	01/01/2018	12/31/2018	John Smith				
		T40.2X1A (Poisoning by ot)	her opioids, accidental (unintentional), initia		Lisa Rubin MD	Transitional Care Pr	ogram 410-897-3	292	02/19/2019	03/19/2019	John Smith	tinda	Jones	410-756-1234	_
					lai Martinal funtam		We sta		03-08-2017		John Smith	Li i i la			

## Prescription Drug Monitoring Program (PDMP)

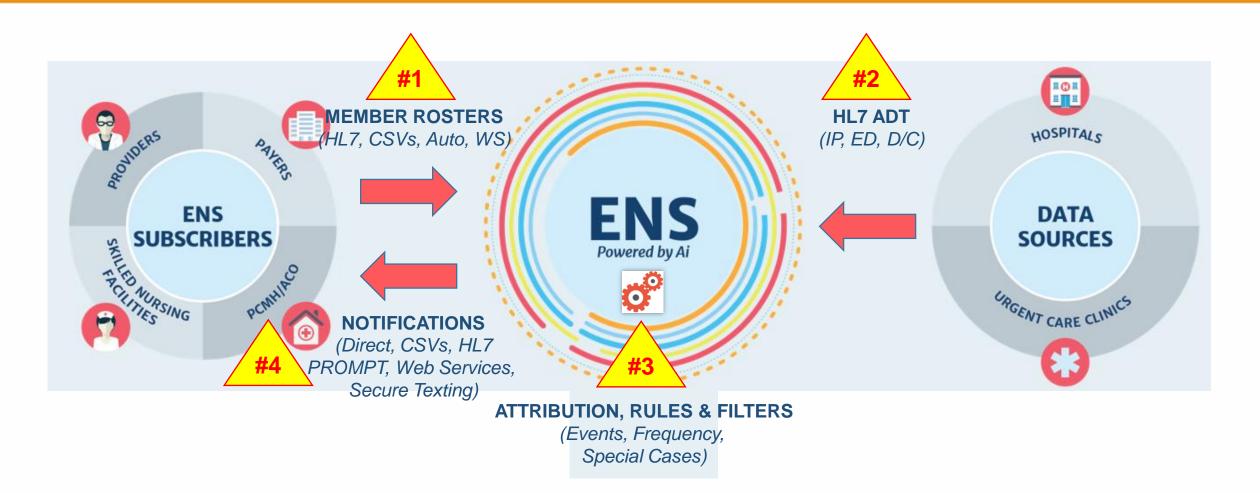
- Dispensed controlled dangerous substances from Maryland and surrounding states
- Results can be sorted by date, prescribers, and other items
- Mandate requiring search before prescribing opioids or benzodiazepines

		ISF		PDMP DEA SELF-AUDIT F	REPORT	PATIENT CAR	E SNAPSHO	OT QUERY PO	ORTAL CA	LIPR CENSU	S VIEW PAT	TENT SNAPS	нот
										F.			EHM
	rch > Modify Criptio		Monito	oring Program		🝼 Maryla	nd	Inters	State (WV, VA, I	DC, DE, PA) <u>Discla</u>	<u>imer</u>	New S	Search
CRISP ID	LAST NAME 👫	FIRST NAME	DATE OF BIRTH	DRUGS DISPENSED 🚺	DATE FILLED 🚦	QUANTITY DISPENSED	DAYS SUPPLY	PRESCRIBERS	DATE WRITTEN 👫	PHARMACIES	REFILLS REMAINING	PAYMENT METHOD	PDMP STATE
151672388	GRAPE	GILBERT	01/01/1984	PROMETHAZINE VC-CODEINE SYRUP	04/18/2015	80	2	TERESA GORE   🚺	04/18/2015	WALGREEN CO 🕖	0	COMMERCIAL INSURANCE	MD
151672388	GRAPE	GILBERT	01/01/1984	HYDROCODON-ACETAMINOPHEN 5-325	08/27/2015	10	1	MARY SMITH 🚺	08/27/2015	HAPPY HARRY'S INC.	0	COMMERCIAL INSURANCE	MD
151672388	GRAPE	GILBERT	01/01/1984	OXYCODONE-ACETAMINOPHEN 5- 325	05/27/2015	20	3	MARY SMITH 🚺	05/27/2015	HAPPY HARRY'S INC.	0	COMMERCIAL INSURANCE	MD
151672388	GRAPE	GILBERT	01/01/1984	PROMETHAZINE VC-CODEINE SYRUP	02/27/2015	300	10	HENRY ARAKAKY	02/27/2015	HAPPY HARRY'S INC.	0	COMMERCIAL INSURANCE	MD
151672388	GRAPE	GILBERT	01/01/1984	HYDROCODON-ACETAMINOPHEN 5-325	06/12/2015	30	2	FREDERICK LOHR	06/12/2015	HAPPY HARRY'S INC.	0	COMMERCIAL INSURANCE	MD
							5	FREDERICK LOHR	06/09/2015	HAPPY HARRY'S		COMMERCIAL	

## Health Records – Labs, Radiology, Clinical Notes

₩C	RISP Unified HOME F	PDMP QUERY PORTAL CALIPR PATIENT SNAPSHOT	PROMPT HEALTH RECORDS				User Guide Ggant HELP	SHEENA PATEL 👩
Testpatien	it, Medium							
Male   05 Jul 1982 ( EID 187967778	26 V)							Details ~
HEALTH RECORD								🖶 Print
Laboratory	(Radiology) (Transcriptions)							
Q Search			Observation					*
Date + 1	Description / Category + *	Facility Name / Provider - *	Reported	Name	Value / Ref. Range	Interpretation	Status	
	Basic Metabolic Panel BMP	University of Maryland Medical Center 19/24/48429 XEVIN DOUNDRY	2019-01-02	2951-2 Sodium Level	135.0 mmol/L 136 - 145	Below low normal	Finat	
2019-01-02 19-00	Complete Blood Count CBC	University of Maryland Medical Center 1912448424 KEVIN COUNDRY	2019-01-02 19:00	2823-3 Potassium Level	4.5 mmol/L 3.5 - 5.1		Final	
2019-01-02 19:00	_Electronic GFR GFR	University of Maryland Medical Center 1912448424 KEVIN COUNDRY	2019-01-02 19:00	2075-0 Chloride Level	100.0 mmoUL 98.+107.		Final	
	Glucose POC Glucose POC	University of Maryland Medical Center 12/50/33410 Marcella Wognas	2019-01-02 19:00	2028-9 CO2	30.0 mmol/L 21-30		Final	
	Glucose POC Glucose POC	University of Maryland Medical Center 1215033410 Marcella Woman	2019-01-02 19:00	33037-3 Anion Gap	6.0 4 - 16		Final	
and the second second second	Glucose POC Glucose POC	University of Maryland Medical Center 1215033410 Marceta Wazniak	2019-01-02 19:00	2339-0 Glucose Level	220.0 mg/dL 70 - 99	Above high normal	Final	
1989477	Glucose POC Glucose POC	University of Maryland Medical Center 1215033410 Marcelta Wozniak	2019-01-02 10:00	3094-0 BUN	19.0 mg/dL 7 - 17	Above high normal	Final	
I HILLSON AND A REAL	Glucose POC Glucose POC	University of Maryland Medical Center 1215033410 Maryland Medical Center	2019-01-02 19:00	2160°0 Creatinine	0.53 mg/dL 0.52 - 104		Final	
United to the	LAB Glucose POC Glucose POC LAB	University of Marytand Medical Center 12/50/33410 Marotia Wozniak	2019-01-02 19:00	17861-6 Calcium Level	8.6 mg/dL 8.6 - 10.2		Final	
<b>2</b> 019-01-01 19:00	Glucose POC Glucose POC LAB	University of Maryland Medical Center 12/50/33410 Marcella Wosniak						
2019-01-01 10:00	Glucose POC Glucose POC LAB	University of Maryland Medical Center 12/5033410 Marcella Wushak						
<b>2</b> 018-12-31 19:00	Glucose POC Glucose POC LAB	University of Maryland Medical Center 1255033410 Marcella Viozniak						
► 2018-12-31 19:00	Glucose POC Glucose POC LAB	University of Meryland Medical Center 1215033410 Marcella Wozniek						
2018-12-31	Glucose POC Glucose POC	University of Maryland Medical Center						

# Encounter Notification Services





Problem to solve:

<u>During pregnancy:</u> Care for pregnant women in our region can often be fragmented – FQHCs, Health Systems, PP, and others play a vital role in providing effective care. The fragmentation and the potential lack of information can lead to repetitive testing or less than optimal decision making.

Other Use Cases (less valuable/excitement per Subcommittee):

Miscarriage Management

Ectopic Pregnancy Follow-up



There are certain data and documents that are most important to make widely accessible to the region's provider community.

Further, bundling such information such that searching for it is frictionless will improve the care delivered.

- Brainstorm the most vital data elements
- Understand CRISP's current capture of such data
- For data deemed vital, seek to collect from the provider community



Data/Documents	Details
Labs	STDs- Syphilis; Chlamydia; Gonorrhea;
Imaging Results	Pregnancy-related Ultrasounds; Echocardiograms
Documents	Discharge Summaries; Admission Notes; OB Notes?
Claims	Casemix – MD; DC Medicaid claims Procedures (CPT); Medications filled (Methotrexate; others?)
Encounters	L&D events; PP? Diagnoses related to events
Care Team	Should we pull out certain subscribing organizations for view?
Continuity of Care Documents	Many hospitals; Many practices soon will be able to acquire via national information sharing networks
Problems	
Medications	



Study	Veight 🔹	LOINC	LOINC LongName
			Neisseria gonorrhoeae rRNA [Presence] in Cervix by NAA with
Gonorrhea	2 - Somewhat Essential	50388-8	probe detection
			Chlamydia trachomatis+Neisseria gonorrhoeae DNA [Presence] in
Chlamydia	1 - Essential	45068-4	Cervix by NAA with probe detection
			HIV 1 RNA [Units/volume] (viral load) in Serum or Plasma by NAA
HIV - Viral load; CD4+;	1 - Essential	62469-2	with probe detection
			Mycobacterium tuberculosis DNA [#/volume] in Unspecified
TB - skin test	2 - Somewhat Essential	53257-2	specimen by NAA with probe detection
Rubella	1 - Essential	31956-6	Rubella virus Ag [Presence] in Cervix
Hepatitis B - sAb; sAg; core antibody; DNA	2 - Somewhat Essential	39005-4	Hepatitis B virus core Ab [Presence] in Body fluid
			Hepatitis C virus RNA panel (viral load) in Serum or Plasma by
Hepatitis C - RNA	2 - Somewhat Essential	50023-1	NAA with probe detection
			Reagin Ab [Presence] in Serum by RPR / Reagin Ab [Presence]
Syphilis (VRDL and RPR) - back as far as possible. FTA-abs;	2 - Somewhat Essential	20507-0 / 5292-8	in Serum by VDRL
Rh	3 - Not Essential	34530-6	ABO and Rh group panel - Blood
beta hcg (quantitative)	3 - Not Essential	29154-2	Choriogonadotropin.beta subunit [Units/volume] in Body fluid
hcg (urinalysis)	3 - Not Essential	56497-1	Choriogonadotropin.beta subunit [Units] in 24 hour Urine
			Trichomonas vaginalis rRNA [Presence] in Cervix by NAA with
Trichomonas	1 - Essential	70166-4	probe detection
			Streptococcus agalactiae DNA [Presence] by NAA with non-
Group B Strep	2 - Somewhat Essential	85767-2	probe detection in Positive blood culture
			Herpes simplex virus 1 and 2 DNA panel - Unspecified specimen
HSV screen	3 - Not Essential	87431-3	Qualitative by NAA with probe detection



Maternal Child							
Labs: Gonorrhea POS GBS NEG HepB sAG	<u>Diagnoses:</u> Pre-eclampsia Placenta Previa Hyperemesis G	ACOG The American College of Obstetricians and Gynecologists Other					
Date Report	Source						
7/11/2018 Transvaginal Ultrasound 6/17/2018 Transabdominal Ultrasoun	St. Agnes Anne Arundel						
5/10/2017 Echocardiogram	Chase Brexton						
3/21/2017 Pregnancy Ultrasound	Anne Arundel						



- Are we on the right track?
- What other data should we consider?
- How else should we get the word out?
- Any other words of advice?



### **Thank You!**

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