

The Office of the National Coordinator for
Health Information Technology



Public Health – EHR Vendors Collaboration Initiative
Webinar

*Update on Pregnancy Status in EHR, per recommendations from
the Federal Advisory Task Force and Combating Drug Addiction
and the Opioid Crisis: Role of Prescription Drug Monitoring
Programs (PDMP) in Preventing Prescription Opioid Misuse*

December 18, 2017

Putting the **I** in Health **IT**
www.HealthIT.gov

<https://www.cdc.gov/ehrmeaningfuluse/public-health-ehr-vendors-collaboration-initiative.html>



Meaningful Use

Meaningful Use
Introduction
Calendar
Connect with Others -
CDC Meaningful Use ListServ
Meaningful Use Community -
Public Health - EHR Vendors Collaboration Initiative
Joint Public Health Forum & CDC Nationwide
Meaningful Use (MU) Public Health (PH) Reporting Requirements Task Force
Community of Practice (CoP)
ELR Task Force +
Jurisdiction Meaningful Use Websites
S & I Framework
Reportable Conditions Knowledge Management System
External Links



[CDC](#) > [Meaningful Use](#) > [Connect with Others](#) > [Meaningful Use Community](#)

Public Health - EHR Vendors Collaboration Initiative



In Focus

Special Session # 7-Zika Virus Disease Update

Coming Up! Special Session # 7: Zika Virus Disease Update for Electronic Health Record (EHR) Vendors, Health Information Technology Developers, Public Health, and Clinical Healthcare Partners on Nov 2, 2016 1:00 PM- 2:00 PM EDT

Please pre-register for the webinar by clicking the link below:

<https://attendee.gotowebinar.com/register/3504905897385264131>

Abstract

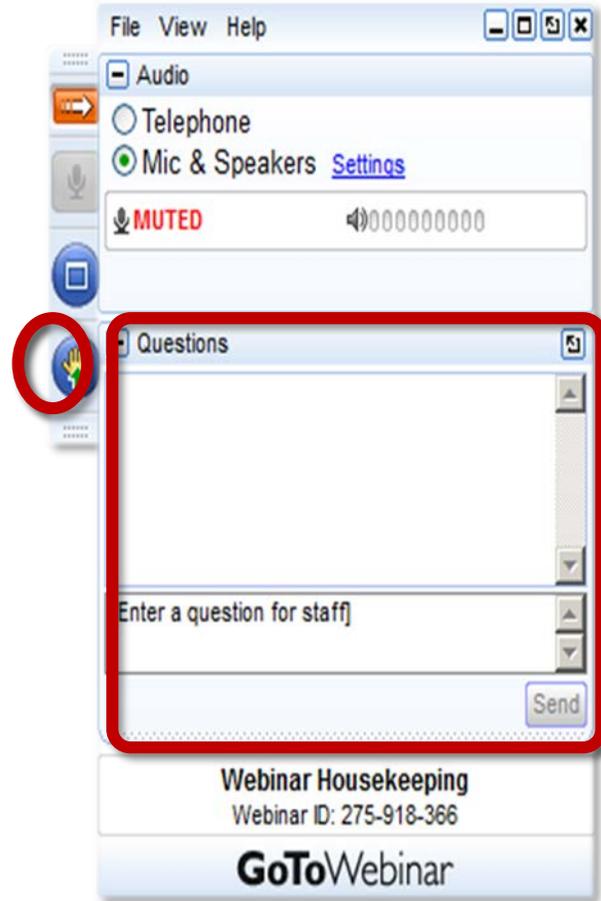
This webinar will be focused on the recommendations around Ask at Order Entry (AOE)* for pregnancy status in Zika virus (ZIKV) laboratory test orders with the possibility of a broader discussion on the capture of pregnancy status in electronic health records, per the clinical workflow and an update on the algorithm for ZIKV risk assessment in pregnant women, based on the latest Centers for Disease Control and Prevention (CDC) guidelines.

Terms explained-

* Ask at Order Entry (AOE)-Some tests, such as microbiology cultures and those that determine heavy metal ion concentration, require additional

Question and Answer Session

How to submit or ask questions for the panel members?



Submit or Ask Questions

- Submit your text question and comments using the Question Panel
- Please raise your hand to be unmuted for verbal questions.

Agenda

- Update on Pregnancy Status in EHR, per recommendations from the Federal Advisory Task Force
- Combating Drug Addiction and the Opioid Crisis: Role of Prescription Drug Monitoring Programs (PDMP) in Preventing Prescription Opioid Misuse
 - **Wesley Sargent, Health Scientist on the Prescription Drug Overdose (PDO) Health Systems Team** in CDC's Division of Unintentional Injury Prevention (DUIP)
 - **Craig Berberet** is the Illinois Prescription Monitoring Program Administrator at the Illinois Department of Human Services
 - **Stanley Murzynski**, Illinois Prescription Monitoring Program
 - **Lindsey Ferris**, Chesapeake Regional Information System for our Patients (CRISP)
- Discussion/Q&A
- Proposed Next Steps



Public Health Task Force Recommendations Update

December 2017

Rachel Abbey, Public Health Analyst, ONC



Brief Background

- In December 2016 the Health IT Policy Committee and Health IT Standards Committee launched a Public Health Task Force to specifically make recommendations to better assist in the standardization of pregnancy status data, [clinical decision support in health IT systems](#), [and case management in public health settings](#)—which are important components to addressing many public health challenges
- May 2017 the Health IT Policy Committee and Health IT Standards Committee presented the National Coordinator the final recommendations of the Public Health Task Force
- This updates outlines the steps ONC, CDC and other stakeholders are doing to move some of the recommendations forward

Charge 1: Capturing Pregnancy Status

- Disseminate the prioritized data elements identified by the Task Force related to pregnancy status
- Promote “Ask on Order Entry” for transmission via ELR to capture pregnancy status for tests for reportable diseases where pregnancy status is relevant
- Publish pregnancy data standards in ONC’s Interoperability Standards Advisory (ISA)
- Explore ways for the patient (individual) to electronically self-report pregnancy status and other related data and electronically share that data with the provider’s EHR

Proposed next steps:

- ONC staff will work with the CDC and the Council of State and Territorial epidemiologists (CSTE) to publish the pregnancy data standards, created in March 2017 by the Public Health Task Force, in ONC’s ISA. **COMPLETED 10/25/2017:** <https://www.healthit.gov/isa/representing-patient-pregnancy-status>
- ONC will continue to work on pilots funded by the HHS IDEA Lab project for Ask on Order Entry for transmission via ELR to capture pregnancy status for tests for Zika.
- ONC will continue to work with CMS to promote the use of 90/10 Medicaid funding for successful pilot projects.

Charge 2: Sending and Sharing Pregnancy Status

- Promote that pregnancy status be transmitted for Zika and other reportable conditions (including chronic reportable conditions) where pregnancy status is relevant
- In the short term, expand the use of ELR to transmit pregnancy status to public health for Zika and other reportable conditions; while Ask on Order Entry is the preferred method to capture pregnancy status, promote the use of specific prenatal Zika test to indicate pregnancy status
- Publish the pregnancy data standards for transmission in the ONC Interoperability Standards Advisory
- Encourage state and local jurisdictions to leverage existing public health authority to require transmission of pregnancy status in accordance with state and local laws
- Promote the use of ONC's Interoperability Proving Ground (IPG) as a mechanism to share information on public health interoperability projects

Proposed next steps:

- ONC will continue to work with CDC and provide technical guidance on recommendations associated with Charge 2.

Charge 3: Clinical Decision Support

- Follow demonstration projects that have shown how CDS from public health can be incorporated into EHRs (e.g., RCKMS) to identify best practices for future recommendations
- Explore sharing of CDS implementations across provider locations by promoting the use of Agency for Healthcare Research and Quality (AHRQ)'s CDS Connect, a web-based repository, as a mechanism to share information on public health interoperability projects related to CDS
- In the short term, encourage the use of CDS to improve access to human readable guidance and to identify patients at risk
- Explore mechanisms to enable consumers to identify and document their own risks including travel, pregnancy status and pregnancy intention and to share this data with their providers (e.g., myhealthfinder APIs)
- Explore the use of open APIs for CDS (e.g., CDS Hooks to deliver CDS to EHRs)

Proposed next steps:

- ONC will continue to work with CDC to provide technical guidance on recommendations associated with Charge 3.
- As part of the Digital Bridge electronic case reporting implementations, CDC will work with CSTE and State and local public health departments to provide condition-specific clinical follow-up information in human readable format to clinicians in the Reportability Response.

Charge 4: The Electronic Initial Case Report (eICR)

- Incorporate Charge 1 recommendations for collection and sharing of pregnancy status into the eICR
- Leverage current work from existing eCR projects (e.g. Digital Bridge) to promote best practices and standards for reporting pregnancy status with the initial case report as well as follow up and case management
- Explore the use of new or maturing standards such as Structured Data Capture and SMART on FHIR as methods for eCR
- Promote the use of ONC's Interoperability Proving Ground (IPG) as a mechanism to share information on public health interoperability projects related to eCR

Proposed next steps:

- ONC will continue to work with CDC and provide technical guidance on recommendations associated with Charge 4.
- ONC will collaborate with other stakeholders (e.g., Digital Bridge and Argonaut Project) on the use of technologies - including mature and emerging standards such as SMART on FHIR—to support ongoing data exchange between healthcare settings and the public health community.
- CDC will work to include pregnancy data elements in the eICR. The current eICR Release 1.1 includes the data elements of pregnancy status (Y/N/UKN) and estimated delivery date that are available in the C-CDA Release 2 standard.
- CDC will work through the HL7 Public Health and Emergency Response Working Group to explore and encourage the additional data elements identified by the Public Health Task Force be added to the C-CDA or will develop a public health specific template for these pregnancy details. These updates will be published in an updated version of the eICR Implementation Guide.

Wesley Sargent

Health Scientist on the Prescription Drug Overdose (PDO) Health
Systems Team in CDC's Division of Unintentional Injury Prevention
(DUIP)

Illinois PMP Integration Solution and Efforts

Craig Berberet and Stan Murzynski

Automated Connection

- Service that incorporates PMP information directly into an electronic health record system, pharmacy system or medication management system
- Smooth Clinical Workflow
 - Little to no human interaction
 - No logons to the PMP website
- Direct connections to each healthcare facility

Meaningful Use

- In Modified State 2 and MU3 Public Health Agencies are tasked with:
 - Declaring readiness to accept data from providers
 - Register Providers
 - Establish testing and validation process (onboard)
 - Acknowledge providers that submit data successfully

Meaningful Use

- Illinois PMP Designated Specialized Registry
 - Meaningful Use Stage 2 (E.H.R. Incentive Program)
 - If a PMP declares itself a registry ready to accept data
 - Integration with an E.H.R.
 - Illinois E.H.R. Medicaid Incentive Program
 - Eligible Hospitals and Eligible Professionals receive Medicaid and Medicare Incentive Payments for connecting to specialized registries
 - Obvious incentive to connect to the PMP
 - IL PMP received approval in March, 2016

Automated Connection - Connection Options

- E.H.R. Vendor Adapter
 - Developed by Illinois PMP and vendor, Logicoy
 - Act like add-ons to current E.H.R. versions
 - EPIC, Cerner, AllScripts and other large vendors
 - Facility can license the adapter rather than developing connection from scratch
 - Easily adaptable and scalable
- Self-developed Connection
 - Hospital I.T. teams can develop connection without licensing an adapter

Automated Connection – Request Options

- Admission, Discharge, Transfer Requests
 - Requests are triggered to PMP as soon as patient presents to emergency department (no human interaction)
 - Ambulatory Clinic setting
- Tab Requests
 - Requests are made by a user click on a tab within the E.H.R. system much like an internet browser tab
 - Hospital and clinic setting
- Group Requests
 - Requests can be run the night before patient appointments
 - Office setting

PMIX Architecture

- First Standard utilized by PMP for data transfer
- Not the best for hospital Data transfer
- Utilizes SOAP Protocol
 - Older Protocol, more use

NCPDP Architecture

- Built for prescription data transfer through medical community
- Standard Utilized by EPIC
- Uses REST Protocol

Illinois Prescription Monitoring Program

401 North 4th Street

Springfield IL 62702

Phone (217)-685-0426

Fax (217) 557-7975

URL: <https://www.ilpmp.org>

Date: 2016-04-26

Time: 14:48:58

Dear Clinician:

This is a current report from the Illinois Prescription Monitoring Program database of recently dispensed prescriptions of controlled substances for:

DALE DOBACK (DOB: 1966-12-26)

You may find this information useful for making decisions about the care of this patient.

Sincerely,

IL Prescription Monitoring Program

DT Disp	Qty	Strength	Days	Drug Name	Dispenser	City	Prescriber
2015-09-13	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-08-30	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	WATSON, JOHN MD
2015-07-15	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-06-20	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-05-30	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-05-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-04-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	WATSON, JOHN MD
2015-03-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-02-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2015-01-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2014-11-01	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	WATSON, JOHN MD
2014-09-30	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2014-08-30	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty
2014-07-28	120	7.5-500/15	30	HYDROCODONE-ACETAMINOPHEN	YE OLE PILL SHOPPE	Chicago	Dr Moriarty

SMITH, JOHN MRN: 0000611814 Sex: M
 DOB: Age: 64 Years
 SSN:

PMP Patient Lookup

Last Name	First Name	Address	City	State	Postal Code	Birth Date	Sex	Date Filled	Label Name	Prescriber
SMITH	JOHN			IL			M	2015-2-3	HYDROCODON-ACETAMINOPHEN	
SMITH	JOHN			IL			M	2015-1-19	ZOLPIDEM TARTRATE	
SMITH	JOHN			IL			M	2014-12-30	GUAIFENESIN-CODEINE	



Patient Details

Last Name	SMITH
First Name	JOHN
Address	
City	
State	IL
Postal Code	
Birth Date	
Sex	M

Medication Details

Date Filled	2015-2-3
Strength	5MG-325MG
Qty / Days Supply	20/5
Payment Type	Commerical Insurance
Pharmacy	
Prescriber	
Refills	00
Org Street	

Pharmacy Details

Org State	IL
Org Zip	62896
Org Phone	(618) 937-2416
Prescriber City	DANVILLE
Prescriber State	IL
Prescription Number	142646437
Written Date	2015-2-3
Schedule	2
NDC Number	00406012305



Search Results - HYDROCODON-ACETAMINOPHEN - National Library of Medicine - PubMed Health - Microsoft Internet Explorer provided

http://www.ncbi.nlm.nih.gov/pubmedhealth/?term=HYDROCODON-ACETAMINOPHEN

U.S. National Library of Medicine - The World's Largest Medical Library

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 AHRQ (US Agency for Healthcare Research and Services)

★ Did you mean: [hydrocodone acetaminophen](#) (14 items)

About - [Hydrocodone/Acetaminophen \(By mouth\)](#)
 Treats pain. This medicine contains a narcotic pain reliever.
 Uses•Side effects•Latest evidence reviews•Research summaries for consumers•Brand names

Results: 14
[Drug Class Review: Drugs for Fibromyalgia: Final Original Report \[Internet\]](#)

Save search
 Save search as RSS

Recent Activity
 Turn Off Clear
 HYDROCODON-ACETAMINOPHEN (14) PubMed Health

Prebuilt Module (MME)

Current active MME/day based on prescription history

0

Prescriptions in past 12 months

SNC	Product Name	Dispenser	Prescriber	Date Dispensed	Disp Supply	Quantity	Strength	Conversion Factor	MME/Day
0002710001	HYDROCHLORPHIDE HCL	HEGABORCARE HICKORY HILLS	HOPVE, PETER RD	03-21-2016	2	15	6.00	4	240
0002710001	HYDROCHLORPHIDE HCL	HEGABORCARE HICKORY HILLS	HOPVE, PETER RD	03-11-2016	2	15	6.00	4	240
0002710001	HYDROCHLORPHIDE HCL	HEGABORCARE HICKORY HILLS	HOPVE, PETER RD	03-10-2016	2	15	6.00	4	240
000791996	FETIAML	HEGABORCARE HICKORY HILLS	SKORA, ELIZABETH A	03-10-2016	15	5	12.00	7.2	20
000601000	HYDROCODON ACETAMINOPHE	HEGABORCARE HICKORY HILLS	FRETZER, JOYCE N. RN	03-10-2016	2	75	10.00	1	75
000791996	FETIAML	HEGABORCARE HICKORY HILLS	SKORA, ELIZABETH A	03-10-2016	15	5	20.00	7.2	40
000791996	FETIAML	HEGABORCARE HICKORY HILLS	HOPVE, PETER RD	03-09-2016	15	5	20.00	7.2	40
0002710001	HYDROCHLORPHIDE HCL	HEGABORCARE HICKORY HILLS	HOPVE, PETER RD	03-08-2016	2	15	6.00	4	240
000601000	HYDROCODON ACETAMINOPHE	HEGABORCARE HICKORY HILLS	FRETZER, JOYCE N. RN	03-07-2016	2	75	10.00	1	75
0002710001	HYDROCHLORPHIDE HCL	HEGABORCARE HICKORY HILLS	SKORA, ELIZABETH A	02-07-2016	8	760	2.00	4	256

MME/day based on new prescription

0

New Prescription

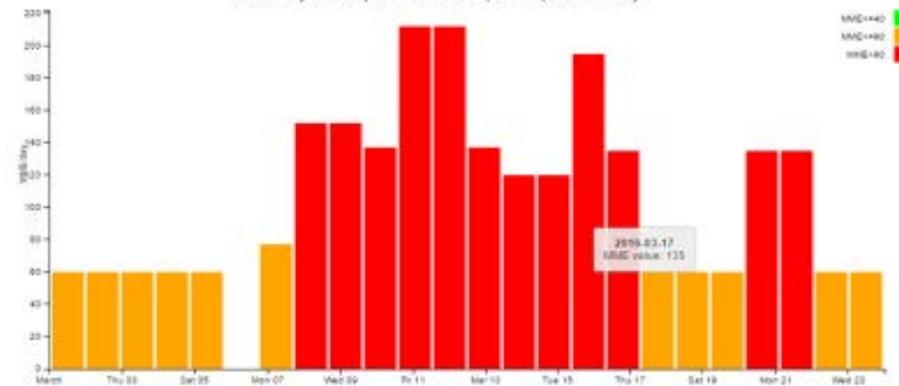
Go Back

Time: 2017-04-26 14:56:07

Name: NORMA WOOD

Date of Birth: 1957-04-20

MME/day in the past based on prescription history

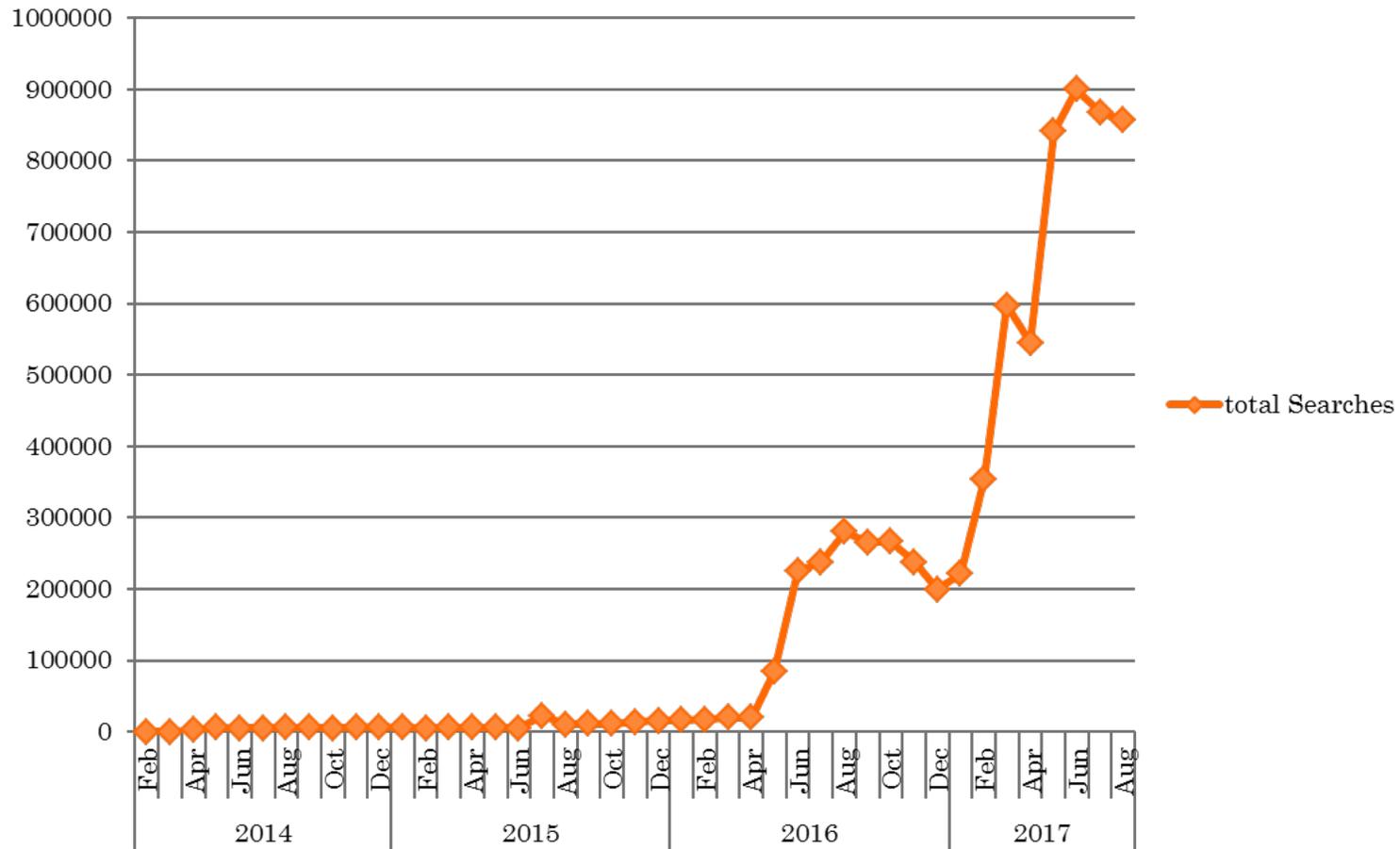


Potential Issues



- Lack of understanding
- Limited resources at hospital
- IT priorities and hesitation
- No PMP user support
- Nurses and other patient care providers couldn't have access until Heroin Crisis Act was passed

Automated Connection Utilization





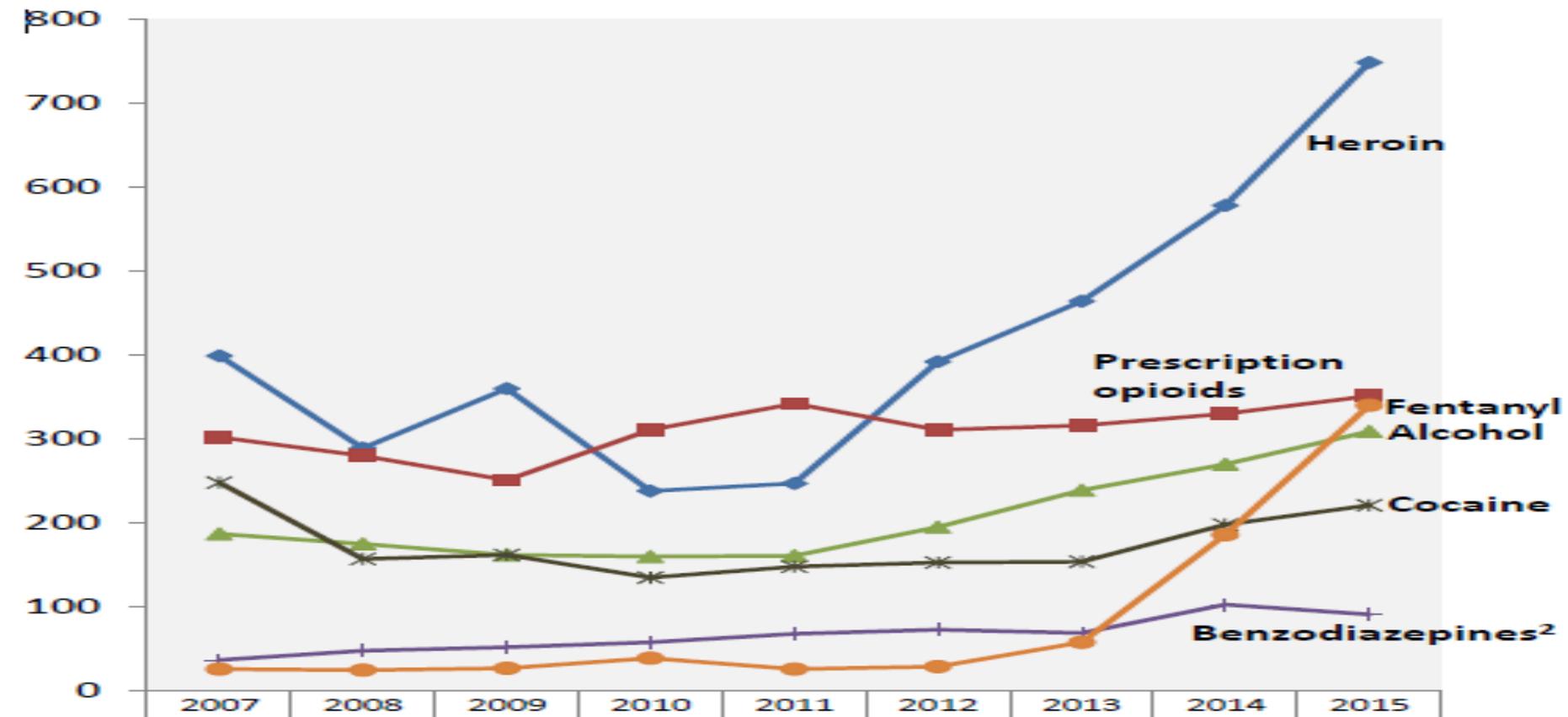
CHESAPEAKE REGIONAL INFORMATION SYSTEM FOR OUR PATIENTS

CRISP & Maryland PDMP Integration

CRISP
Lindsey Ferris
Program Director, HIE Projects

7160 Columbia Gateway Drive, Suite 230
Columbia, MD 21046
877.952.7477 | info@crisphealth.org
www.crisphealth.org

Unintentional Drug & Alcohol Overdose Deaths in Maryland, 2007-2015



PDMP Background/CRISP Involvement

• PDMP Background

- Established in law, 2011
- Regulations adopted, 2012
- Dispenser reporting required, 2013
- Under the Maryland Department of Health (MDH) Behavioral Health Administration (BHA)
- Program goals:
 - Assist with reducing non-medical use, abuse and diversion of prescription drugs
 - Increase confidence in prescribing/dispensing decisions
 - Promote balanced use of prescription data that preserves clinical decision making



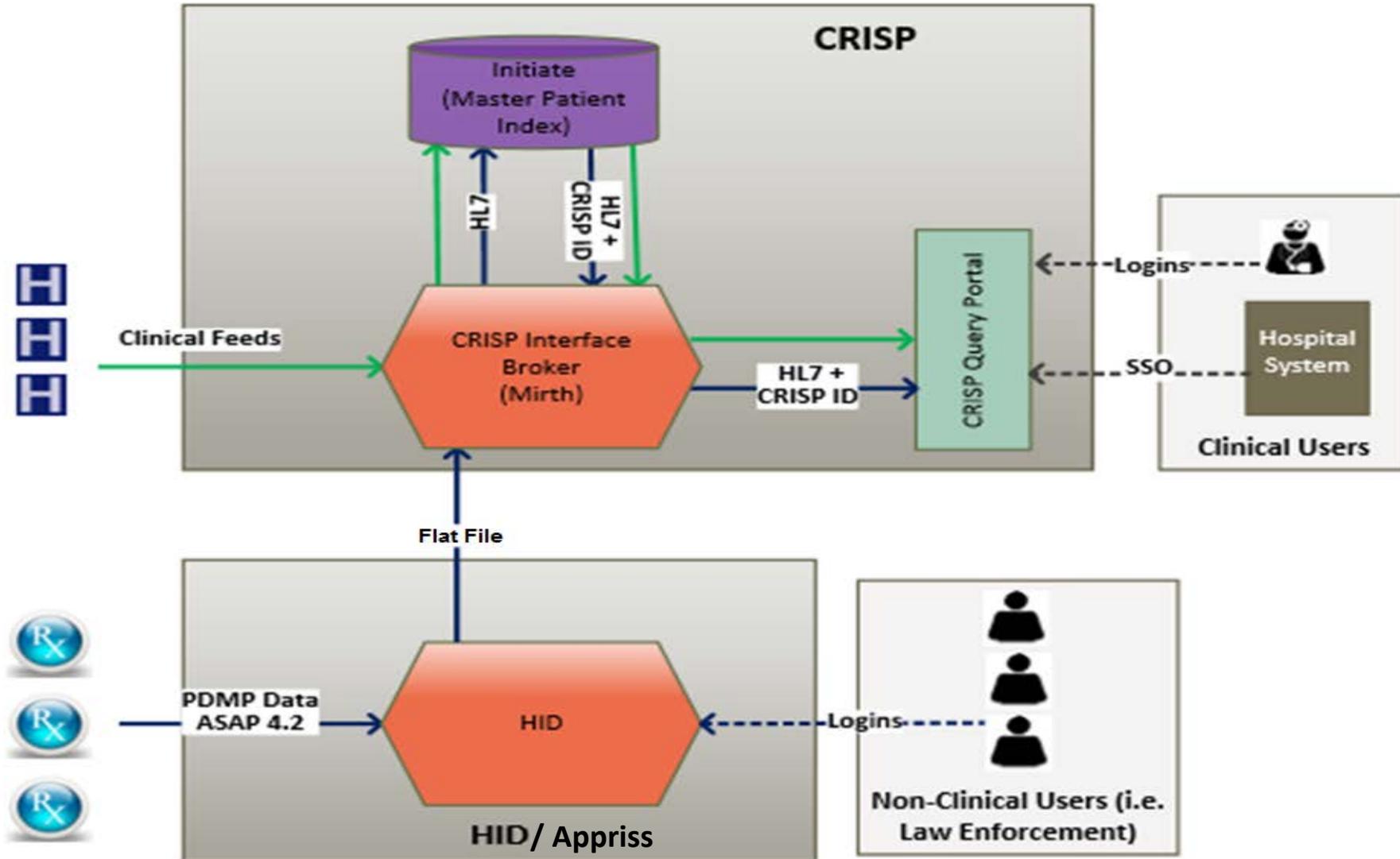
CRISP Involvement

- Serves as underlying technology for official Maryland PDMP
- Credentialing and access point for clinical providers
- Provides advanced patient matching
- Allows for PDMP data to be viewed alongside HIE data
- Contracted with PDMP vendor for collection of data from dispensers (Appriss/Health Information Designs)

Partnership Benefits

- Advanced patient matching of PDMP data
- Ability to leverage existing credentialing/outreach processes
- Ability to leverage existing CRISP services
 - Query portal
 - Encounter Notification Service
 - Reporting Service
 - Streamlined access to data (Single Sign-On, etc.)
- New technology build in response to opioid crisis and PDMP legislative action
 - Unified Landing Page / PDMP Search

Technical Architecture



PDMP Data Embedded in CRISP Portal



Patients

Patient » Skywalker, Luke

Patient Actions

- Back to List
- Print Prescriptions

Skywalker, Luke Male 01/12/1977 (40 yrs) (CRISP ID: 16176853)
391 INDUSTRY DRIVE, BALTIMORE, MD 21117

Summary More Patient Information eHT HIE Worklist Patient Care Overview **Interstate PDMP**

Maryland Prescriptions

Date Filled	Drug Name	Quantity Dispensed	Days Supply	Prescriber	Date Written	Pharmacy	Script #	Refills Remaining	Total Refills	Payment Method	State
04/19/2017	ZOLPIDEM TARTRATE 10 MG TABLET	10	10	Prescriber, Hid Test	04/19/2017	Prescriber, HID TEST	TEST_UP	0	0	Other	MD
01/15/2017	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	01/15/2017	Dispenser, HID TEST	PROD_TEST_STATE3	0	0	Private Pay	MD
01/01/2017	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	01/01/2017	Prescriber	UCF_FIELDS_OK3	2	5	Other	MD
12/15/2016	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	12/15/2016	Dispenser, HID TEST	PROD_TEST_STATE2	0	0	Private Pay	MD
12/01/2016	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	12/01/2016	Prescriber	UCF_FIELDS_OK2	3	5	Other	MD
11/15/2016	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	11/15/2016	Dispenser, HID TEST	PROD_TEST_STATE1	0	0	Other	MD
11/01/2016	ZOLPIDEM TARTRATE 10 MG TABLET	15	15	Prescriber, Hid Test	11/01/2016	Prescriber	UCF_FIELDS_OK1	4	5	Other	MD
03/03/2016	ZOLPIDEM TARTRATE 10 MG TABLET	1	15	Prescriber, Hid Test	03/03/2016	Prescriber	TRICOREPROD3	0	0	Commercial Insurance	MD
03/03/2016	ZOLPIDEM TARTRATE 10 MG TABLET	1	15	Prescriber, Hid Test	03/03/2016	Prescriber	TRICOREPROD3	0	0	Commercial Insurance	MD

Disclaimer: These are in-state prescriptions.

Out-of-State Prescriptions

No Out-of-State Prescriptions Found

Disclaimer: These are Out-of-State Prescriptions. Please be advised that out-of-state prescriptions are matched on last name, first name, and date of birth ONLY, which could result in improper matching in some cases. CRISP encourages providers to use discretion when interpreting interstate data.

results



Technology Updates to PDMP

- Updates to support PDMP Mandates (HB 437)
- Designed PDMP database to be highly available and accessible by EHRs and other systems
 - Improved performance and responsiveness
- Created PDMP-focused platform as base for added functionality
 - Embedded in CRISP's Unified Landing Page
 - "Fuzzy" patient search
 - Multiple patient selection for consolidated PDMP view
 - Displays number of pharmacies and prescribers
 - DEA Self-Audit (in pilot)
- Increased interstate sharing within portal
 - Sharing data with WV, VA, DC, PA, CT, AR, MN
- DEA self-audit (in pilot)

Unified Landing Page/PDMP Search

- ULP will allow for single-login access to all CRISP services

Unified Landing PageHOMEPDMPHELPLINDSEY FERRIS (SIGN OUT)

New Search

Patient Search

Last Name(Required) **First Name(Required)** **Date Of Birth(Required)**

Gender: Male Female **ZipCode** **SSN**

LAST	FIRST	M.I	SUFFIX	DATE OF BIRTH	GENDER	ADDRESS	CRISP ID	MATCH SCORE	INCLUDE
SKYWALKER	LUKE			01/22/1977	MALE	300 ABELL ROAD ABELL, MD 20606	30006553	 Very Likely	<input checked="" type="checkbox"/>
SKYWALKER	LUKE			11/00/1977	MALE	1907 S COLLEGE STREET BALTIMORE, MD 21201	79293844	 Very Likely	<input checked="" type="checkbox"/>
SKYWALKER	LUKE			01/12/1977	MALE	391 INDUSTRY DRIVE AUBURN, AL 36830	16176853	 Very Likely	<input checked="" type="checkbox"/>
SKYWALKER	LUKE			06/12/1954	MALE	391 INDUSTRY DRIVE AUBURN, AL 36832	17726121	 Potential	<input type="checkbox"/>

PDMP Search

- All Maryland and out-of-state PDMP data are displayed together


[HOME](#)
[PDMP](#)


LINDSEY FERRIS
 (SIGN OUT)

New Search > Modify Search > Patient Results

Prescription Drug Monitoring Program

 Maryland

 InterState (AR, WV, PA, VA, CT, DC, MN)

New Search

CRISP ID	LAST NAME	FIRST NAME	DATE OF BIRTH	DRUGS DISPENSED	DATE FILLED	QUANTITY DISPENSED	DAYS SUPPLY	PRESCRIBERS (5)	DATE WRITTEN	PHARMACIES (2)	REFILLS REMAINING	PAYMENT METHOD	PDMP STATE
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	04/19/2017	10	10	HID PRESCRIBER, 	04/19/2017	PRESCRIBER, HID TEST 	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	04/15/2017	30	30	INC ACME 	04/15/2017	PRESCRIBER, HID TEST 	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	04/01/2017	30	30	INC ACME 	04/01/2017	PRESCRIBER, HID TEST 	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	03/22/2017	30	30	INC ACME 	03/22/2017	PRESCRIBER, HID TEST 	0	OTHER	MD
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	03/01/2017	10	10	NULL PRESCRIBER 	03/01/2017	PRESCRIBER, HID TEST 	0	COMMERCIAL INSURANCE	MD
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	01/15/2017	15	15	HID PRESCRIBER, 	01/15/2017	PRESCRIBER, HID TEST 	0	PRIVATE PAY	MD
79293844	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	01/12/2017	30	30	HID PRESCRIBER, 	01/12/2017	PRESCRIBER, HID TEST 	0	OTHER	MD

PDMP Search

- Filtering and sorting options available for each column
- Address information available for prescribers/pharmacies through info button

The screenshot displays the CRISP (Unified Landing Page) PDMP (Prescription Drug Monitoring Program) search results. The interface includes a navigation bar with 'HOME' and 'PDMP' buttons, a user profile for 'LINDSEY FERRIS', and a 'HELP' icon. The main header shows 'New Search > Modify Search > Patient Results' and 'Prescription Drug Monitoring Program' with filters for 'Maryland' and 'InterState (AR, CT, PA, WV, VA, DC, MN)'. A 'New Search' button is also present.

CRISP ID	LAST NAME	FIRST NAME	DATE OF BIRTH	DRUGS DISPENSED	DATE FILLED	QUANTITY DISPENSED	DAYS SUPPLY	PRESCRIBERS (5)	DATE WRITTEN	PHARMACIES (2)	REFILLS REMAINING	PAYMENT METHOD	PDMP STATE
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	03/01/2017	10	10	HID PRESCRIBER,	04/19/2017	PREScriBER, HID TEST	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	PROMETHAZINE-CODEINE SYRUP	04/15/2017	30	30	INC ACME	04/15/2017	PREScriBER, HID TEST	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	HYDROCODON-ACETAMINOPHEN 5-500	04/01/2017	30	30	INC ACME	04/01/2017	PREScriBER, HID TEST	0	OTHER	MD
79293844	SKYWALKER	LUKE	01/12/1977	TRAMADOL HCL 50 MG TABLET	03/22/2017	30	30	INC ACME	03/22/2017	PREScriBER, HID TEST	0	OTHER	MD
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	03/01/2017	10	10	NULL PRESCRIBER	03/01/2017	PREScriBER, HID TEST	0	COMMERCIAL INSURANCE	MD
16176853	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	01/15/2017	15	15	HID PRESCRIBER,	01/15/2017	PREScriBER, HID TEST	0	PRIVATE PAY	MD
79293844	SKYWALKER	LUKE	01/12/1977	ZOLPIDEM TARTRATE 10 MG TABLET	01/12/2017	30	30	HID PRESCRIBER,	01/12/2017	PREScriBER, HID TEST	0	OTHER	MD

A filter dropdown menu is open over the 'DRUGS DISPENSED' column, showing a list of drug names with checkboxes: ZOLPIDEM TARTRATE 10 MG TABLET, PROMETHAZINE-CODEINE SYRUP, HYDROCODON-ACETAMINOPHEN 5-500, and TRAMADOL HCL 50 MG TABLET. The menu includes 'SelectAll' and 'Apply' buttons.

OOCC PDMP Report

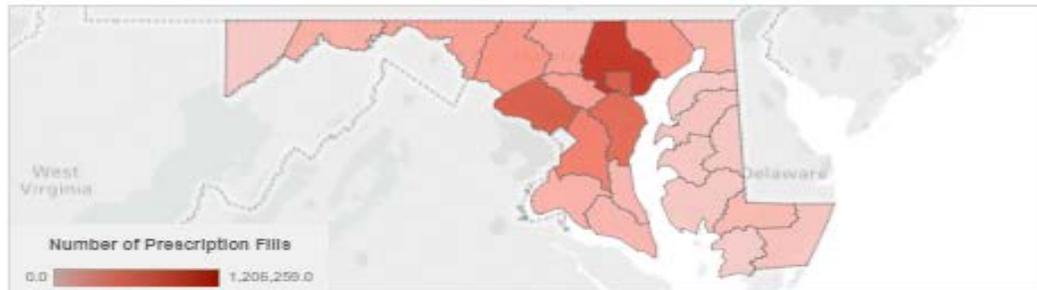
PDMP Dashboard Notes

Controlled Substance Prescribing by Drug Class and Patient Residence

Statewide Number of Prescription Fills

7796263

Number of Prescription Fills by County - 1/1/2016 through 12/31/2016



Time Period

Start

1/1/2016

End

12/31/2016

Prescribing Measure

Number of Prescription Fills

Drug Class

(All)

State

Maryland

County

(All)

PDMP Dashboard Notes

PDMP Dashboard Notes

The Maryland Prescription Drug Monitoring Program (PDMP) data includes all prescriptions containing controlled substances that are dispensed to patients in or into Maryland and reported to the PDMP under State statute. Drug dispensers include outpatient hospital and community retail pharmacies in Maryland, mail-order pharmacies dispensing to Maryland address, and healthcare practitioners who dispense from a Maryland-based practice. Statutorily exempted dispensing not found in the PDMP data include: a) Direct administration of CDS to a patient; b) Drug samples provided to a patient; c) Records from pharmacies that serve only hospital inpatients; d) Records from specialty pharmacies that are waived by the Maryland Board of Pharmacy to serve exclusively assisted living, comprehensive care, and developmental disabilities facilities; e) Dispensing by a pharmacy to hospice inpatients (if approved by DHMH for a waiver); f) Opioid treatment programs (OTPs) / methadone clinics; g) Dispensing from a veterinary clinic or hospital. Individual patients are identified using a unique patient ID assigned by CRISP after processing of PDMP records through the CRISP Master Patient Index.

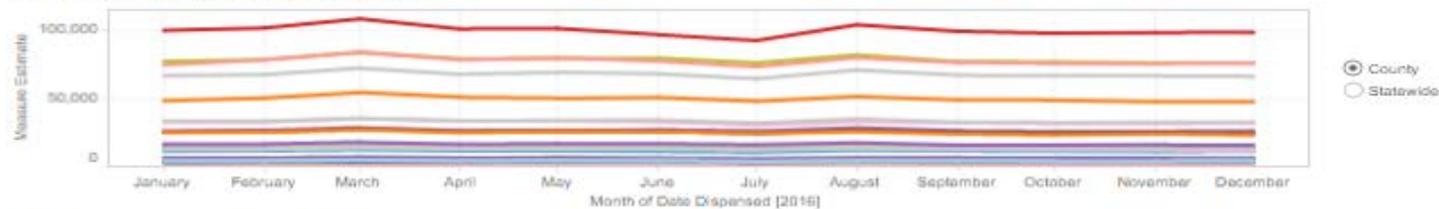
Exclusions: Patients without unique patient IDs.

Defining Drug Classes: Opioids include full opioid agonist, partial opioid agonist, and combination opioid agonist / antagonist pharmacological classes. This includes buprenorphine / naloxone combinations as well as codeine analgesics. Non-benzodiazepine sedative-hypnotics include barbiturates, gamma-Aminobutyric Acid A Receptor Agonist (e.g., zaleplon), and gamma-Aminobutyric Acid-ergic Agonist (e.g., zolpidem) pharmacologic classes (often referred to as "z-drugs"). Drug classes are identified using the CDC National Center for Injury Prevention and Control's oral morphine milligram equivalent conversion factors table.

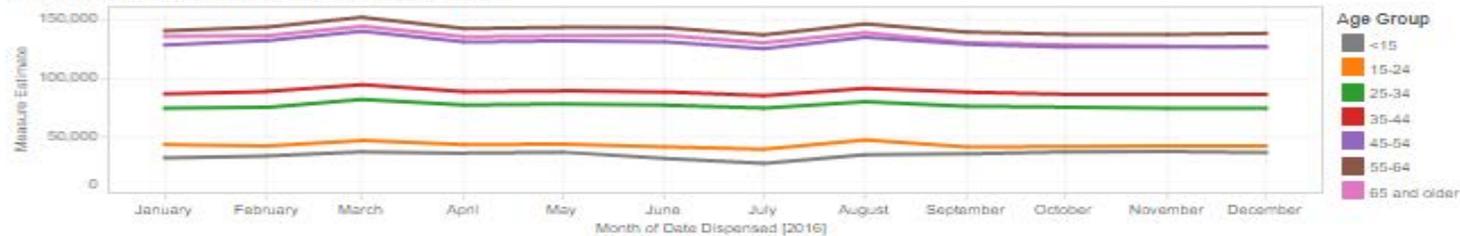
Calculating Overlapping Prescriptions: Overlapping opioid and benzodiazepine prescriptions are identified if the date dispensed for one drug is within the days' supply of the other.

Demographic Data: The 5-year zip level census estimates (2011-2016) are used for the county population/denominators. Counties are defined using HSCRC zip to county mapping. Each zip is assigned to one county only.

County Number of Prescription Fills



Number of Prescription Fills by Age Group



Streamlined Access to PDMP Data

- Increasing efforts to enable more streamlined workflows for accessing PDMP data
 - Single Sign-On and patient context passing into CRISP portal (one-click access)
 - In-context alerting (zero-click access) to PDMP within EHR
- Coming soon: PDMP data delivery into the EHR
 - Working through policy/programmatic considerations

Funding

- **PDMP State Budget & Federal Grants:**
 - Underlying PDMP infrastructure (e.g. data collection)
 - Ad hoc PDMP-specific development (e.g. PDMP Search)
- **Medicaid 90/10 Federal Funding**
 - Overarching frameworks for data delivery (e.g. ULP)
 - Deeper integration into EMR (e.g. SSO, in-context alerting)
 - Meaningful Use Public Health Reporting - PDMP

New Functionality – Coming Soon

- Delegate Dashboard
 - Prescriber and pharmacist management of delegates
 - Delegate query history
- Fatal & non-fatal overdose notifications through CRISP ENS
 - Fatal notifications based on OCME data
 - Non-fatal notifications leverages chief complaint and diagnosis information in Syndromic Surveillance and ADT feeds
 - Delivery via real-time ENS alerts & displayed within portal
- Notifications based on PDMP-patient relationship in prescription
 - Unsecure email informing registered user to log into secure portal to view alert
- PDMP “risk alerts”
 - Priority alerts (e.g. high dosage, multiple opioid prescriptions, etc.)
 - Real-time notifications through ENS and display within portals
- Prescriber insight (“report card”/benchmarking report)



Q&A/Discussion

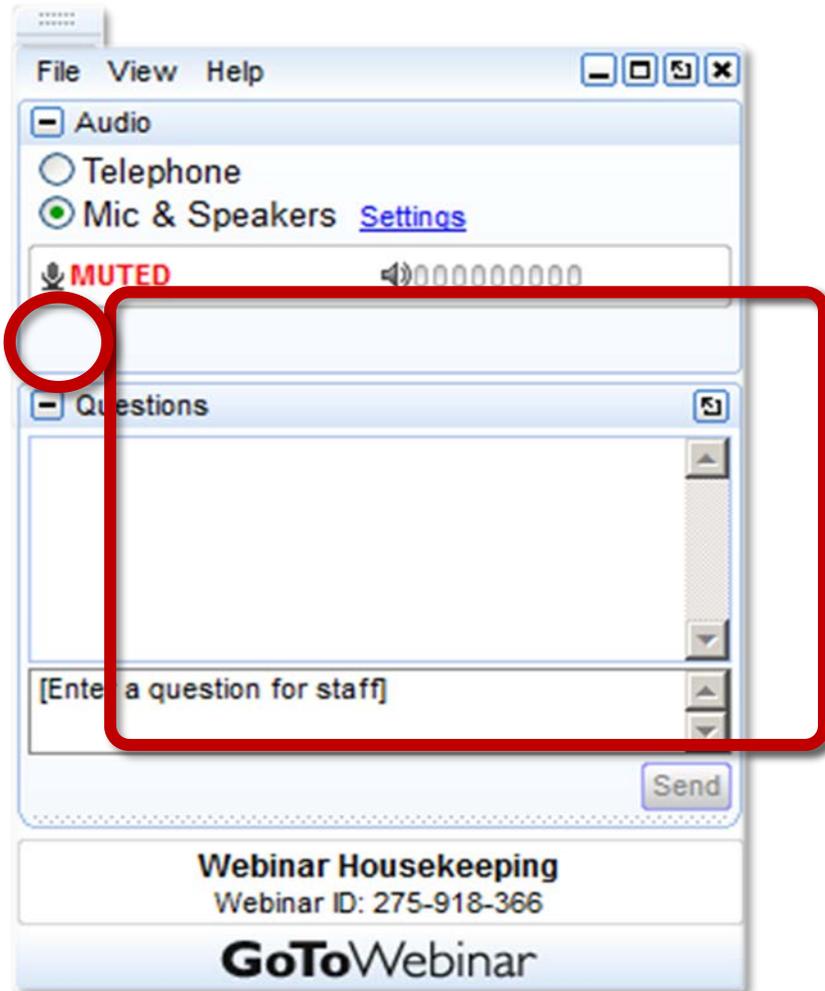
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Question and Answer Session

How to submit or ask questions for the panel members?



Submit or Ask Questions

- Submit your text question and comments using the Question Panel
- Please raise your hand to be unmuted for verbal questions.