Health IT Advisory Council

April 18, 2019



Agenda

Agenda Item	Time
Welcome and Call to Order	1:00 pm
Public Comment	1:05 pm
Review and Approval of Minutes – March 21, 2019	1:10 pm
Announcements	1:15 pm
Outcomes of Medication Reconciliation Hackathon	1:20 pm
Use Case Factory™ Primer	1:35 pm
Update on SUPPORT Act (HR 6, Section 5042) Planning	1:55 pm
Health Equity Data Analytics Project Update	2:05 pm
Wrap-up and Meeting Adjournment	3:00 pm

Welcome and Call to Order

Public Comment

(2 minutes per commenter)

Review and Approval of:

March 21, 2019 Meeting Minutes

Announcements

Outcomes of Medication Reconciliation Hackathon

Tom Agresta, MD, MBI

Medication Reconciliation Hackathon

Key Points, Lessons Learned & Next Steps

Thomas Agresta MD, MBI
Professor and Director Medical Informatics
Family Medicine – University of Connecticut SOM



Background Why a MED REC Hackathon?

- Medication Errors are common and many are related to incorrect med lists
- Getting A Correct Medication List is Complicated
 - Technology helps and hurts
 - ePrescribing
 - No more handwritten prescriptions
 - Introduces unintended errors, difficulty with de-prescribing
 - Health Information Exchange
 - Tools to consolidate medication lists from several sources
 - Yet interoperability between systems is limited
 - Information & Cognitive Overload
- New Interoperability guidance from CMS and Office of National Coordinator
- Connecticut has a perfect eco-system to try and introduce creative change

The Office of Health Strategy **Medication Reconciliation Hackathon Presented by UConn** Health

Date: April 5th & 6th 2019

Attendees: 84

- Prescribing clinicians
- **Pharmacists**
- Analysts
- **Informaticians**
- Software engineers
- Developers & programmers
- Students in medicine, pharmacy & engineering
- Patient advocates





















Intended Outcomes

Clinical & Admin Workgroup

- Define problem further
- Describe Some Functional Requirements
- Describe Components of User interface
- User-Centered Design

Technical

- Interoperability Standards
- FHIR experience
- Develop simple prototype for each Med Rec scenario
- Meet a few functional requirements
- Gain experience working multidisciplinary teams

Key Points & Lessons Learned

Agreed Common Elements across groups for Med Rec:

- Accessible (2)
- Confidence (2)
- Indication (2)
- Interoperability across sources
- Accountability
- Simple
- Timely
- Relevance

- Interest and buy-in is high
- Limited prior experience using the FHIR protocol to gather data from a multitude of sources.
- Unique opportunity for the HIE Entity to message about the problems / and potential opportunities for solutions about medication reconciliation
- There were no major "ah-hah" moments regarding the best path forward.

Next Steps based on Hackathon work

- 1. Publish a White Paper (UConn Health)
- 2. Use Business and Functional Requirements to build a Use Case for Health Information Exchange Medication Management Service (HIE Entity)
- 3. Structure the set of recommendations to help design technical infrastructure (UConn AIMS)

Reminder: Presentation at AMIA

Acceptance to present at the American Medical Informatics Association (AMIA) Clinical Informatics Conference, May 2, 2019

Promoting medication safety through a multi-stakeholder state group in CT: Improving Deprescribing by use of the CancelRx messaging standard

Use Case Factory™ Primer

Sabina Sitaru

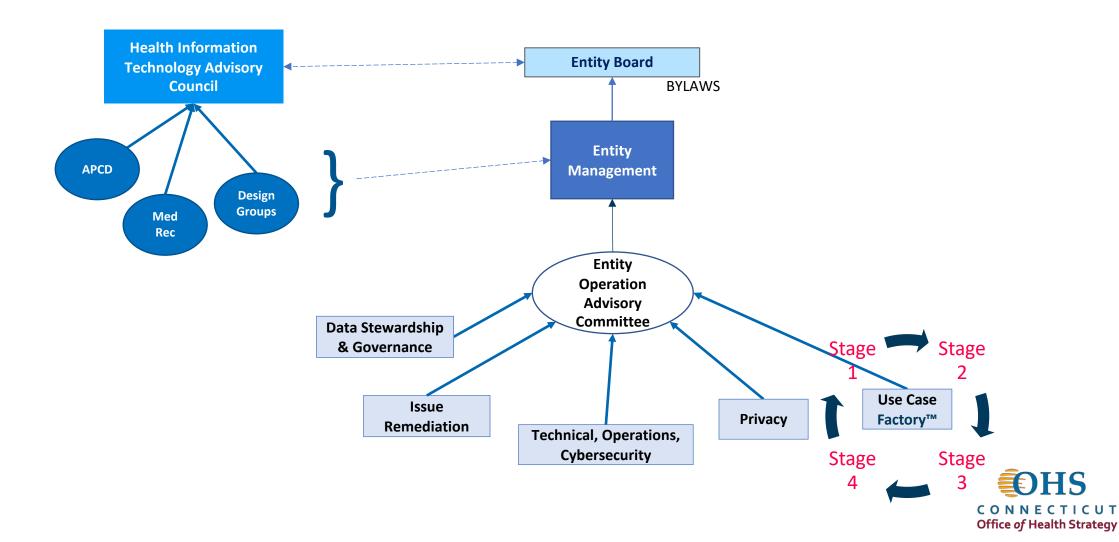
The Use Case Factory™

- A framework modeled after a Michigan best practice
- It creates a standardized process for introducing and maturing different use case offerings of the HIE
- Follows Health IT Advisory Council identified high priority use cases included in the Trust Framework for initial HIE rollout
- The pending IAPD funding request has adequate resources for us to adopt this process framework

Health IT Advisory Council Identified Priority Use Cases

eCQM	Procurement and imple	ementation		
200000 0				
IIS (Submit/Query)	Implementation and in	tegration with Public Health Reporting;	procurement	
Longitudinal Health Re		ange, CareQuality, and CommonWell es (e.g. master person index and health p	provider directory)	
Public Health Reporting		erage/expand AIMS lata elements, onboarding, and technica	l assistance	
Clinical Encounter Aler		unctional requirements ting (including leverage existing assets)		
Image Exchange	Finalize business and fu	unctional requirements		
	Wave 2 Use Cases and Assoc	ciated Tasks		
	Medical Reconciliation	Implement program for process	s re-design and supporting technology	
	MOLST / Advance Directives		isk Force and Advisory Committee for assessn value of a complimentary AD Registry	nent of
	MOLST / Advance Directives Patient Portal		value of a complimentary AD Registry	nent of ure Use Cases
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	Patient Portal	technology value-add and the v Plan for rollout after implement	Fut Bundle Management Care Coordination: Care Plan Sharing Care Coordination: Referral Management	Lab Results Delivery Life Insurance Underwriting Medical / Lab Orders
	Patient Portal	technology value-add and the v Plan for rollout after implement	Fut Bundle Management Care Coordination: Referral Management Care Coordination: Transitions of Care	Lab Results Delivery Life Insurance Underwriting Medical / Lab Orders Medical Orders / Order Management
	Patient Portal	technology value-add and the v Plan for rollout after implement	Fut Bundle Management Care Coordination: Care Plan Sharing Care Coordination: Referral Management Care Coordination: Transitions of Care CHA Dose Registry	Lab Results Delivery Life Insurance Underwriting Medical / Lab Orders Medical Orders / Order Management Opioid Monitoring and Support Services
	Patient Portal	technology value-add and the v Plan for rollout after implement	Fut Bundle Management Care Coordination: Care Plan Sharing Care Coordination: Referral Management Care Coordination: Transitions of Care CHA Dose Registry Disability Determination	Lab Results Delivery Life Insurance Underwriting Medical / Lab Orders Medical Orders / Order Management Opioid Monitoring and Support Services Patient-generated Data
	Patient Portal	technology value-add and the v Plan for rollout after implement	Fut Bundle Management Care Coordination: Care Plan Sharing Care Coordination: Referral Management Care Coordination: Transitions of Care CHA Dose Registry Disability Determination eConsult	Lab Results Delivery Life Insurance Underwriting Medical / Lab Orders Medical Orders / Order Management Opioid Monitoring and Support Services Patient-generated Data Research and Clinical Trials

Use Case Governance Model



Uses Cases are:

- Data sharing scenarios with defined purpose, type of data exchanged, and interactions between systems
- Includes business, technical, and legal framework for sharing the data

Use Case Components:



Business Requirements Document
Implementation Guide
Use Case Summary
Use Case Exhibit
Onboarding Documentation



Benefits of Use Case Factory™ Approach

✓ Aligns Priorities

 Agile multi-stage gate methodology that enables prioritized and systematic data sharing among stakeholders

✓ Promotes Transparency

- Continuous stakeholder input throughout use case lifecycle
- Common trust framework

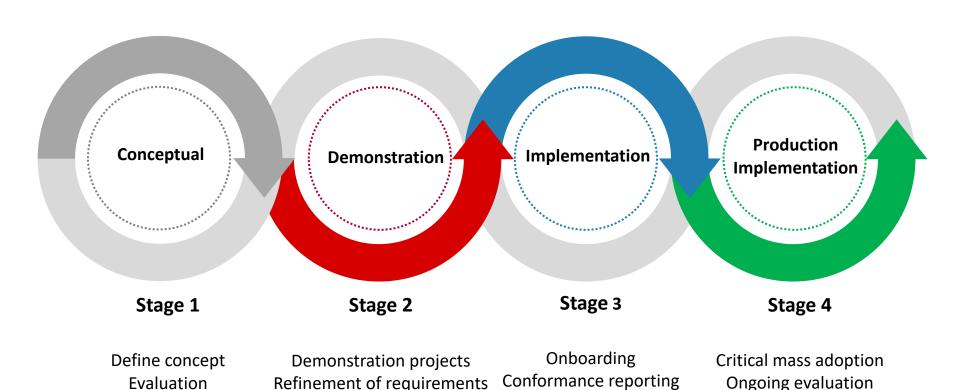
√ Facilitates Consistency

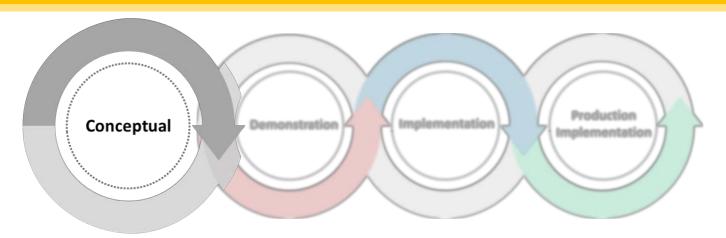
Standard mechanism to define purpose, requirements, and costs

✓ Operationalizes Use Cases

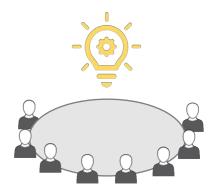
 Demonstration projects, test environments, and refinement of logistical, legal, and financial requirements







- ✓ Genomic Medicine
- ✓ Medication Reconciliation



Workshop identify and prioritize data sharing ideas



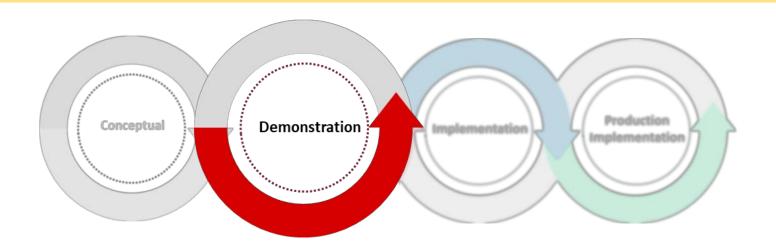
White Paper frame opportunities and associated issues (legal, financial, etc.)



Personas
real but fictious people used
for testing and to illustrate
value proposition

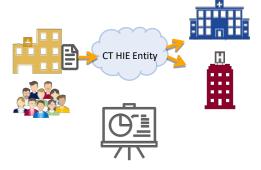


Pilot Identificationagreement among early
adopters for testing use case





Joint Application Design or Working Group define requirements and resolve technical issues



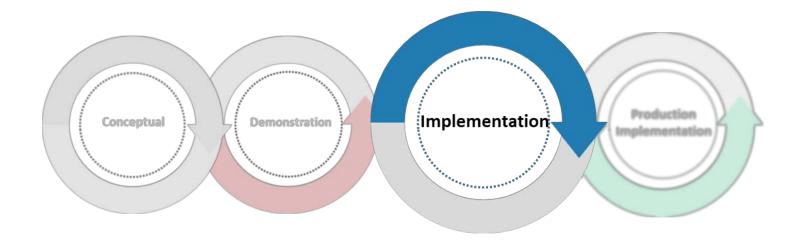
Technical Demonstration
and Evaluation
leverage synthetic data to test
and demonstrate exchange



Implementation Guide clarify technical methods to facilitate data sharing



Use Case Exhibit address data use constraints







accelerate adoption of use cases



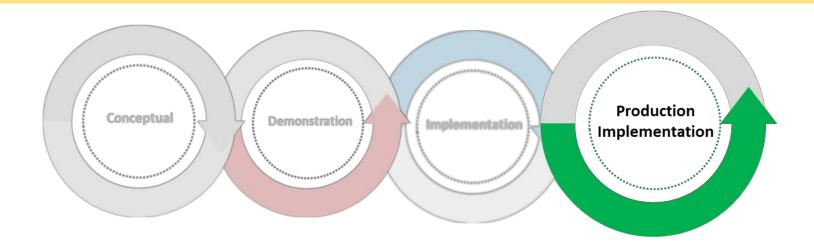
Onboarding Package explain steps to legally and technically onboard



Conformance Reporting monitor quality and integrity of data sharing

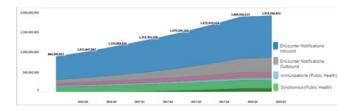


Value Assessment
illustrate value proposition to
use case participants





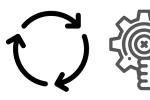
Cost Recovery Mechanism ensure sustainability of HIE Entity



Utilization Reports
track and visualize
participation and progress



Trend Analysis confirm market needs



Ongoing Evaluation assess value and effectiveness

Update on SUPPORT Act (HR 6, Section 5042) Planning

Michael Matthews

H.R.6 – SUPPORT for Patients and Communities Act

H. R. 6

One Hundred Fifteenth Congress United States of America

AT THE SECOND SESSION

Begun and held at the City of Washington on Wednesday, the third day of January, two thousand and eighteen

An Act

To provide for opioid use disorder prevention, recovery, and treatment, and for

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE: TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the "Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment for Patients and Communities Act" or the "SUPPORT for Patients and Communities Act".

(b) TABLE OF CONTENTS.—The table of contents of this Act is as follows:

Sec. 1. Short title; table of contents.

TITLE I-MEDICAID PROVISIONS TO ADDRESS THE OPIOID CRISIS

Sec. 1001. At-risk youth Medicaid protection. Sec. 1002. Health is a second protection.

Sec. 1002. Health insurance for former foster youth.
Sec. 1003. Demonstration project to increase substance use provider capacity under

Sec. 1003. Demonstration project to increase substance use provider capacity under the Medicaid program.
 Sec. 1004. Medicaid drug review and utilization.
 Sec. 1005. Guidance to improve care for infants with neonatal abstinence syndrome and their mothers; GAO study on gaps in Medicaid coverage for pregnant and project of the substance use disorder.
 Sec. 1006. Medicaid health homes for substance-use-disorder Medicaid enrollees.
 Sec. 1007. Carriag recovery for infants and bables.

Sec. 1007. Caring recovery for infiants and babies.

Sec. 1008. Peer support chancement and evaluation review,
Sec. 1009. Medicaid substance use disorder treatment via telehealth.
Sec. 1010. Enhancing patient access to non-opioid treatment options.
Sec. 1011. Assessing barriers to opioid use disorder treatment.
Sec. 1012. Help for moms and babies.
Sec. 1013. Securing lexibility to treat substance use disorders.
Sec. 1014. Medicaid aduly and report on MAT utilization controls under State.

Sec. 1014. MACFAC study and report on MAI utilization controls under State Medicaid programs.

Sec. 1015. Opioid addiction treatment programs enhancement.

Sec. 1016. Better data sharing to combat the opioid crisis.

Sec. 1017. Report on innovative State initiatives and strategies to provide housing-

Sec. 1017. Report on innovative State initiatives and strategies to provide nousing-related services and supports to individuals struggling with substance use disorders under Medicaid.

Sec. 1018. Technical assistance and support for innovative State strategies to pro-vide housing related supports under Medicaid.

TITLE II-MEDICARE PROVISIONS TO ADDRESS THE OPIOID CRISIS

Sec. 2001. Expanding the use of telehealth services for the treatment of opioid use disorder and other substance use disorders. Comprehensive screenings for seniors.

Sec. 2002. Comprehensive screenings for seniors.
Sec. 2003. Every prescription conveyed securely.
Sec. 2004. It is a series of securely series of secure to select the series of series.
Sec. 2004. It is a series of series of series of series of series of series of series.
Sec. 2005. Medicare coverage of certain services furnished by opioid treatment pro-

Sec. 2006. Encouraging appropriate prescribing under Medicare for victims of

- Improved access to long-term treatment
- Focus on opioid over-prescribing
- Tracking synthetic opioids
- Expansion of access to medication-assisted treatment
- **Community support services**
- Resources for research and education





SEC. 5042. MEDICAID PROVIDERS ARE REQUIRED TO NOTE EXPERIENCES IN RECORD SYSTEMS TO HELP IN-NEED PATIENTS.

PDMP Requirements

- Integrations of PDMP data into prescribing systems including EHRs
- Systems for the electronic prescription of controlled substances
- Connections of the PDMP to Medicaid
- Interstate data connections to contiguous states
- Systems or enhancements to existing systems which support the reporting, including electronic case reporting
- Medicaid Managed Care connections to the PDMP as optional,
- Persistent access for Medicaid providers to PDMP data in emergencies
- Incorporating other data elements to help inform providers

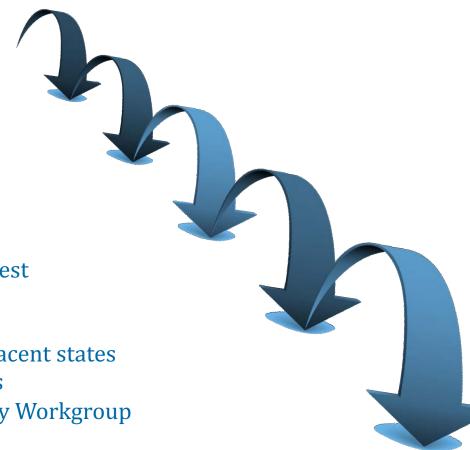
IAPD Requirements

- State has defined who are covered providers
- State has defined the "timing, manner, and form" under which a covered provider is required to check the PDMP before prescribing an individual a controlled substance.
- For providers who make a good faith effort to check a PDMP but cannot, it is recommended that the state describe what kinds of paper or electronic documentation the state may wish to review to confirm a good faith effort was made
- State's RFPs (if applicable, general sole source guidance still applies), contracts and IAPDs confirms that the system is to be a Qualified PDMP
- State facilitates <u>integration of PDMP information into</u> <u>electronic workflow of covered providers' prescribing system.</u>
- State also has described if there is a data sharing between the PDMP program and the State Medicaid agency
- State has described if they are choosing to facilitate <u>access</u> <u>between the PDMP program and any managed care entity.</u>
- State has described how they are going to ensure <u>access to PDMP</u> <u>data in the case of natural disasters</u> and similar situations



Planning Process

- Establish OHS and DCP leadership group
 - Background data gathering
 - Draft of straw man
 - Communication with CMS
- Establish multi-agency planning group
 - Review opportunities
 - Establish priorities
 - Develop recommendations for funding request
- Collaboration with other stakeholders
 - NESCSO for cross-border exchange with adjacent states
 - eHealth Exchange for national opportunities
 - Communication with Med Rec Polypharmacy Workgroup
- Review by Health IT Advisory Council
- Submit funding request to CMS





Proposed Projects

Brief Project Description

Enhanced provider workflow	 Fully fund statewide integration for initial setup and per user cost for all users, with per user cost guaranteed for 2 years Leverage CPMRS platform to provide users with real-time notification of non-fatal overdoses
Enhanced health system connectivity	 Expand Appriss Gateway integration to all health systems in CT. Implement event-driven notifications to prescribers for ED patients with overdoses of opioids or other controlled medications.
Integration with statewide HIE	 Establish bi-directional exchange with and through Statewide HIE Enhance patient and provider identity management through collaboration between CPMRS and Statewide HIE Establish connectivity with eHealth Exchange and PULSE via Statewide HIE
Expansion of interstate exchange	 Continue connectivity expansion to states not currently exchanging with CPMRS Participate in NESCSO SUPPORT Act planning process Assess use of RxCheck Hub to support interstate exchange
Administrative process efficiencies	 Enhance patient and provider identity management through collaboration between CPMRS and Statewide HIE, as above Fund FTEs for HPA I or Processing Technician to conduct administrative/technical support Establish real-time POS reporting from data submitters to the PMP Clearinghouse, including both prescribed and filled prescriptions for controlled medications
Interoperability with Medicaid	 Establish access to CPMRS by Medicaid Medical Director(s) Enhance patient and provider identity management through collaboration with CPMRS, Statewide HIE and Medicaid



Proposed Projects (continued)

Difer i Toject Description			
Support for case management and care coordination	 Establish access to CPMRS by all State agencies authorized to do so Establish access to CPMRS by VA Medical Center Establish access to CPMRS by Managed Care Organization Medical Directors Establish access to CPMRS by Medicaid Medical Director(s), as above 		
Policy alignment	 Assess and align state-level regulations and policies as needed to support high-value use cases 		
Other opportunities with state agencies	• To be discussed		





Next Steps

- Define and refine potential projects
- Funding proposal development
- Discussions with NESCSO
- Integration with Medication Reconciliation Polypharmacy Workgroup strategy and recommendations

Health Equity Data Analytics Project Update

Tekisha Everette, PhD & Mark Abraham

Health Equity Data Analytics Project Update April 18, 2019

Mark Abraham DataHaven

Karen Wang Yale ERIC





DataHaven The Twenty Fifth Year







HEDA Project Overview

Health Equity Solutions, Inc. (HES)

•Tekisha Dwan Everette, PhD, Executive Director

DataHaven

- •Mark Abraham, Executive Director
- •Shaun McGann, Project Coordinator

Yale School of Medicine: ERIC

- •Karen Wang, MD, MHS, Instructor
- •Marcella Nunez-Smith, MD, MHS, Director
- •Tara Rizzo, MPH, Deputy Director









Project Goals:

- •Identify vital few (2-4) health equity data elements relevant to health equity issues in Connecticut and advise UConn AIMS on incorporating elements into emerging HIE/CDAS architecture
- •Develop proposed use case(s) utilizing health equity data elements to demonstrate potential for driving predictability of and progress towards better patient health outcomes at the population level







HEDA Project Update

- Project deliverable and timeline
- Final health equity data element recommendations
- Process for reaching recommendations:
 - Landscape analysis findings
 - Provider outreach findings
- Proposed future use cases
- Next steps







Deliverable: HEDA Report

- •Section I HEDA Project Background and Role of HIEs in Promoting Health Equity
- Section II Results of Landscape Analysis and Provider/Consumer Outreach
- •Section III Recommended Health Equity Data Elements for Prioritization in Connecticut's Forthcoming Statewide HIE
- •Section IV Putting Recommended Health Equity Data Elements into Action: Recommended Use Cases
- •Section V Next Steps

Note – final version HEDA Report expected to be ready for release in June, 2019







Health Equity Data Elements - Recommendations

- Race/Ethnicity
- Address and zip code & corresponding census tractlevel neighborhood measures
- Insurance status







Discovery and Analysis: Process for Reaching Data Recommendations

Components:

- ➤ Literature Review
- ➤ Landscape Analysis
- >CT Provider Outreach
- ➤CT Consumer Outreach*



"Statewide Health Data and Analytics" presentation at DataHaven 25th Anniversary Event (Harold Shapiro photo)







^{*}Ongoing

Landscape Analysis

Landscape Analysis (National-Level)

Conducted in-depth interviews (n=12) with HIEs and healthcare data/informatics experts from across the U.S. to learn more about current efforts to utilize SDoH in HIEs

- Conducted November 2018 to February 2019
- 60-90 minute, semi-structured, telephone interviews

Interviewees:

- •Michigan Health Information Network
- HealthInfoNet (Maine)
- •Rochester Regional Health Info Organization
- •Michiana Health Information Network (Michigan/Indiana)
- •Indiana Health Information Exchange
- •San Diego Health Connect

- •CRISP (MD/DC)
- •Johns Hopkins School of Public Health
- Healthcare Access San Antonio (HASA)
- Strategic HIE Collaborative (SHIEC)
- Data Across Sectors for Health (DASH)
- •All In: Data for Community Health







Data Sources

Where do the data come from?

- Healthcare systems
- Community-based health providers (e.g. physician practices, home health, behavioral health, Emergency Medical Services)
- Public health agencies (e.g. health departments, prescription monitoring programs)
- Public and private insurance providers
- Human service agencies (e.g., Dept of Social Services, Housing Authorities, Homeless Services, Disability Services, 2-1-1)
- Publicly available data (e.g. US Census)
- Other sectors (e.g. Dept of Education, Dept of Corrections, Dept of Envi. Protection)

Elements (source)

- Geocoded residential address (EHR, claims)
- Public health/corrections/social service utilization (agencies)
- Insurance status (claims)
- Race/ethnicity, language (EHR, claims, service agencies)







Uses of HIE Data

Who:

- Patient/individual care
- Practice/system level case management (e.g. diabetes registry)
- Population health

How:

- Predictive analytics using the data to determine who is at risk (e.g. readmissions, adverse outcomes)
- Identify health and human service needs and connect to available resources







Examples of Use Cases

Health Systems

• System receives reports on whether patient participation in disease management clinics resulted in reduction in claims

Providers

- Providers receive residential lead exposure data to inform testing
- Providers and public health agency participate in closed-loop referral system

Community-Based Organizations

 Meals on Wheels receives admission/discharge data so that services are paused while clients are in the hospital

Human Service Agencies

Dept. of Transportation receives neighborhood-level information on low SES,
 chronic disease patients to inform where and how often buses should be running

Academic Partners

• Researchers receive infant mortality data to examine disparities







Opportunities and Challenges

Drivers

- Alignment with reimbursement models (e.g. quality and costs targets that must be met for reimbursement)
- Alignment with identified health need

Data Challenges

- Completeness of data
- Accuracy of data ("quantity over quality")
- Access to data

Operational Challenges

- Institutional commitment
- Staff training and turnover
- No standardized practices (e.g. workflow, incorporation of patient report)
- Privacy and confidentiality







"Health equity is completely based on our ability to understand and operationalize the race, ethnicity, social isolation, and language data in our communities."

-HIE Director of Population Health







Provider Outreach

Targeted outreach with goal of gathering information regarding:

- •EHRs in use and their potential for interoperability and data sharing
- •SDoH data elements collected and mechanisms used to collect (EHR, information referral system, additional SDoH screener, etc.)
- Ability of provider to extract and analyze SDoH data
- •Value of SDoH data to provider (potential value propositions of HIE)

Interviewees:

- Charter Oak Health Center
- •Community Health Center Inc.
- •Community Health and Wellness Center of Greater Torrington
- Griffin Health
- Hartford HealthCare

- Northeast Medical Group
- Pequot Health
- •UConn Health
- Value Care Alliance
- •Yale New Haven Health







Provider Outreach – Lessons Learned

- •Interest in SDoH is high among providers
- Large degree of variation in collection and use of SDoH data by providers
- •Most providers are collecting some basic SDoH data elements, but use of these data elements is inconsistent
- •Utility of SDoH data elements in clinical context has yet to be established
- •Value of SDoH integration in HIE: giving providers access to numerous "touch points" of patients HIEs have key role to play in providing a more holistic picture of an individual beyond just their medical history
- •Short-term value at population/health system management level; potential long-term value at provider level (think statewide information referral system)
- •Data curation and workflow optimization are critical "data overload" and "EHR burnout" are common







Health Equity Data Use Cases

Existing Data & Measures HIE Uses Outcomes Planned Use 1 eCQMs - Cost avoidance EHR/EMR - Event avoidance Planned Use 2 **Population** - Care management Claims Health Risk mitigation Reporting Planned Use 3 - Inform policymaking & resource allocation, Other Planned Use 4 e.g., HEC funding

Added Health Equity Data

- -Race/Ethnicity
- -Neighborhood
- -Insurance Status
- -Others in future

Preliminary Proposed Use Cases using Health Equity Data integrated within the HIE:

- Asthma Progression & Treatment Effectiveness
- Cardiovascular Disease Progression & Treatment Effectiveness
- Opioid Use Progression and Treatment Effectiveness

Next Steps (May to Sept. 2019)

- •Work with UConn AIMS to test completeness and accuracy of recommended health equity data elements, and posit proxy sources or additional data sources if needed
- •Work with OHS and HITO to refine, establish, and socialize potential use cases
- •Determine feasibility of incorporating an aggregator or risk indicator index rooted in health equity

Community Health Public Health Public Health Providers Specialty Providers Health Plans Adapted from MiHIN Shared Services [1] Outpatient Care Patterns, McWilliams, J. Michael, JAMA – Apr 2014

Key Considerations:

- •What are the specific problems we're trying to solve?
- •How much time/effort would it take to acquire the needed data?
- •What data sources will HIE have access to? (legal side data sharing agreements)
- •Alignment with existing community/state/federal programs, initiatives, and resources







Questions?

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Executive Director, Health Equity Solutions
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Wrap up and Next Steps

Contacts

Health Information Technology Office:

Allan Hackney, allan.hackney@ct.gov

Health IT Office Website:

https://portal.ct.gov/OHS/Services/Health-Information-Technology

CT Health and Information Services, Inc. (pending):

Sabina Sitaru, sabina.sitaru.CTHIE@gmail.com

CT Health Information Exchange Website:

Coming Soon!