

2021 QI Residency

January 14, 2022
Tamara Stepanek, RN, MSN



Objectives:

- Translate population health promotion and continuum of care activities
- Defend resource needs to leadership to improve quality
- Distinguish quality initiatives impacting reimbursement

What does a Health Information Exchange do?

- Supports Coordination of Care
- Improve Patient Care
- Ease Burden on Providers and Quality Professionals
- Create Healthier Communities





Noun or a Verb?



Four Levels of Interoperability (Data Level)

- **Foundational (Level 1):** Establishes the inter-connectivity requirements needed for one system or application to securely communicate data to and receive data from another
- **Structural (Level 2):** Defines the format, syntax and organization of data exchange including at the data field level for interpretation
- **Semantic (Level 3):** Provides for common underlying models and codification of the data including the use of data elements with standardized definitions from publicly available value sets and coding vocabularies, providing shared understanding and meaning to the user
- **Organizational (Level 4):** Includes governance, policy, social, legal and organizational considerations to facilitate the secure, seamless and timely communication and use of data both within and between organizations, entities and individuals. These components enable shared consent, trust and integrated end-user processes and workflows

(Healthcare Information and Management Systems Society (HIMSS))

Lessons from Covid



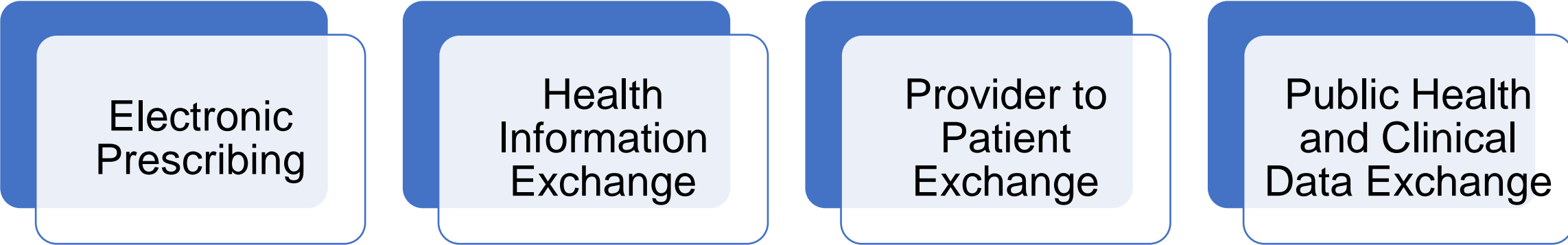
Ideal Transitions and Coordination of Care



Federal Policies supporting Interoperability

- (2004) Office of the National Coordinator for Health Information Technology (ONC) Standards
- (2009) Health Information Technology for Economic and Clinical Health (HITECH) Act
- (2016) 21st Century Cures Act

Hospital Interoperability 2021



Electronic
Prescribing

Health
Information
Exchange

Provider to
Patient
Exchange

Public Health
and Clinical
Data Exchange

Initial Funding Goals for Health Information Exchanges to where we are today

1

Create and implement up-to-date privacy and security requirements for HIE

2

Coordinate with Medicaid and state public health programs to establish an integrated approach

3

Monitor and track meaningful use (Now Promoting Interoperability) HIE capabilities in their state

4

Set strategy to meet gaps in HIE capabilities

5

Ensure consistency with national standards

Population Health Tools offerings by an HIE



Health Information Exchange (HIE)

- Clinical records: vitals, labs, imaging, & reports
- Event notification
- Secure messaging



Social Determinants of Health (SDOH)

- Closed-loop referrals
- Resource directory



Collaborative & Foundation

- Academics & research



Public Health

- Electronic Lab Reporting
- Syndromic surveillance
- COVID-19 dashboards & contact tracing



Analytics & Population Health

- NCQA Certified Quality Measures (QCDR, eCQM, MIPS, HEDIS)
- Utilization & quality dashboards



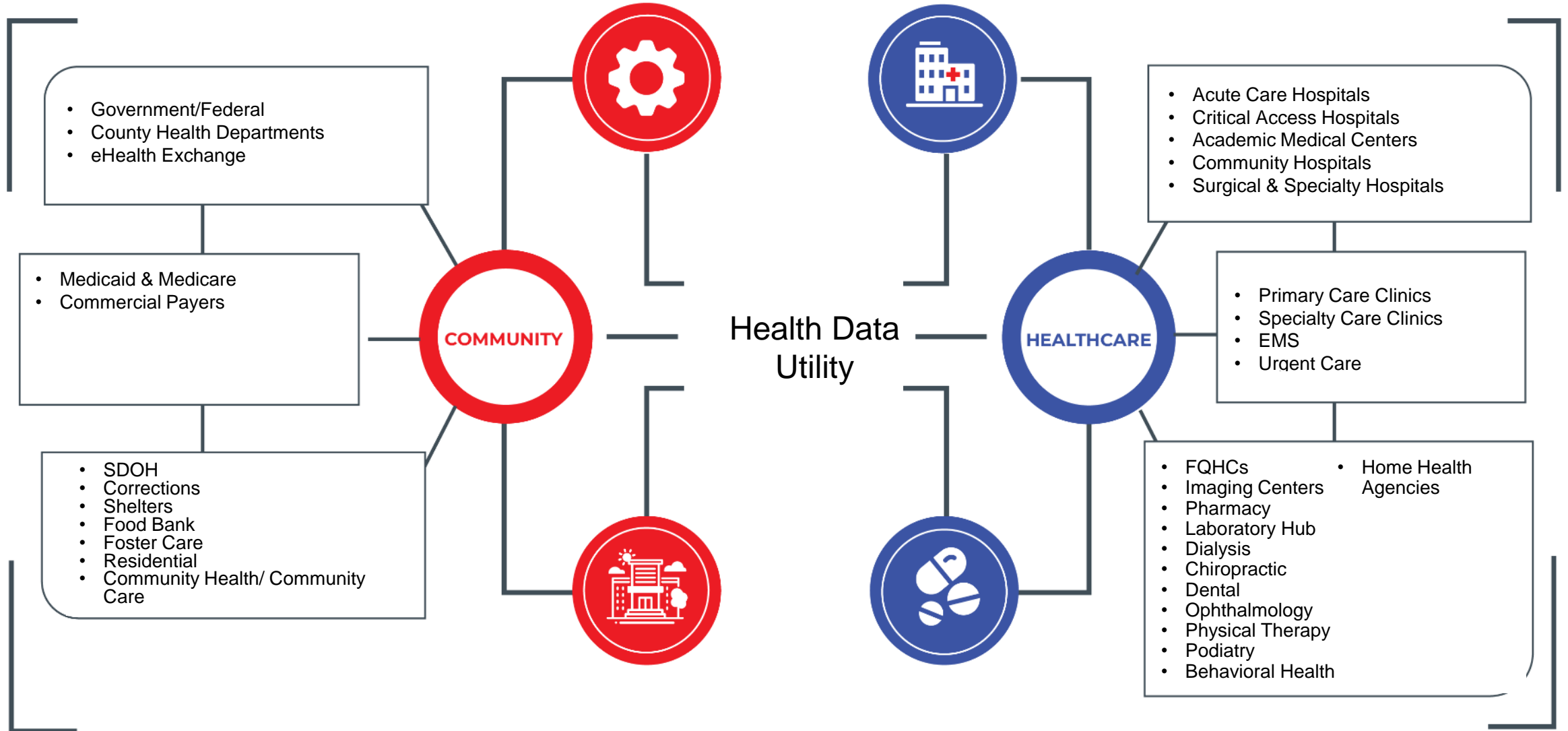
Prescription Drug Monitoring Program (PDMP)

- Medication history
- Controlled substance tracking

The Clinical Viewer



COMMUNITY DATA POINTS



Four Levels of Interoperability

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Tools to build the HIE



The Foundation

HL7 V2

- ADT - Admissions/Discharge/Transfer
- LAB - Laboratory Feed
- RAD - Radiology Feed
- TRN - Transcription Feed (reports, dictations, etc.)

HL7 V3 CCDA

- Continuity of Care Documents

MSH|^~\&|MESA_ADT|XYZ_ADMITTING|iFW|ZYX_HOSPITAL|||**ADT^A04**|103102|P|**2.4**|||||||
EVN||200007010800|||200007010800
PID||583295^^^ADT1||DOE^JANE||19610615|M-||2106-3|123 MAIN STREET^^GREENSBORO^NC^27401-1020|GL|(919)379-1212|(919)271-3434~(919)277-3114||S||PATID12345001^2^M10|123456789|9-87654^NC
NK1|1|BATES^RONALD^L|SPO||||20011105
PV1||E||||5101^NELL^FREDERICK^P^^DR|||||||V1295^^^ADT1|||||||200007010800|||||||
PV2||^ABDOMINAL PAIN
OBX|1|HD|SR Instance UID||1.123456.2.2000.31.2.1|||||F|||||
AL1|1|^PENICILLIN|PRODUCES HIVES~RASH
AL1|2|^CAT DANDER
DG1|001|I9|1550|MAL NEO LIVER, PRIMARY|19880501103005|F||
PR1|2234|M11|111^CODE151|COMMON PROCEDURES|198809081123
ROL|45^RECORDER^ROLE MASTER LIST|AD|CP|KATE^SMITH^ELLEN|199505011201
GT1|1122|1519|BILL^GATES^A
IN1|001|A357|1234|BCMD||||132987
IN2|ID1551001|SSN12345678

Four Levels of Interoperability

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(Healthcare Information and Management Systems Society (HIMSS))



USCDI v2

(U.S. Core Data for Interoperability)

- Assessment and plan of treatment
- Care Team members
- Clinical Notes
- Goals
- Health concerns
- Immunizations
- Laboratory
- Medications
- Patient Demographics
- Problems
- Procedures
- Provenance
- Smoking Status
- Unique device identifier
- Vital signs

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(Healthcare Information and Management Systems Society (HIMSS))

Clinical Viewer


Demographics

ZZZTESTPT, EIGHTZ
03/02/1944 - 77 Yrs - Female

MME Alert Last 7-days
Average daily MME: 127
days daily MME over 90: 7
Highest daily MME: 140

Multiple Provider Alert Last 180-days
Pharmacies: 4
Prescribers: 4

Opioid/Benzo Overlap Last 45-days
Yes



Chartbook

Encounters

Demographics

Demographics

Insurance

Support Contacts

Conditions

Allergies

Medications

Documents

Diagnostic Studies

Lab Results

Vital Signs

Immunizations

Patient Details

Title

Prefix

MS.

Surname

ZZZTESTPT

Given Name

EIGHT

Middle Name

Z

Suffix

Gender

F

Date of Birth

03/02/1944

Age

77

Driving License

Preferred Language

EN

Translator Required

Inactive MRNs

4156787-NM

4153673-NM

Address Details

Address

DO NOT MAIL

City

OMAHA (OMAHA)

State

NE

Post Code

68198

Country

USA

Home Telephone

(999) 9999999

Business Phone

+1 (402) 5523019

Mobile Phone

(712) 2102745

Email

ankrueger@nebraskamed.com

Local Doctor Details

GP Name

NORTHWEST, ONEWORLD

Clinical Details

Blood Type

Additional Demographics

Race

White

Marital Status

Married

Religion

LUTHERAN MIS

Date of death

Deceased Time

Location Of Death

Declared Deceased By

MRN

Last Update Date

11/18/2021

Last Update Time

17:53

Last Update Hospital

Nebraska Medicine

Last Update User

NELSON, CYNDI

Encounters

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Prescribers: **4**

Opioid/Benzo Overlap Last 45-days

Yes

...

Awaiting results from: **PDMP (Done), XCADocuments (Done)**

Refresh

Chartbook

Encounters

Demographics

Conditions

Allergies

Medications

Documents

Diagnostic Studies

Lab Results

Vital Signs

Immunizations

Admission	Visit Description	Reason for Visit	Discharge Destination	Start Date	End Date	Treating Care Provider	Care Provider	Facility	Location
Emergency	Emergency	HEADACHE, VOMITING	Home or Self Care	10/31/2021	10/31/2021	Thomas F Cheatle	⋮	Nebraska Methodist Health System	Jeannie Edmundson Hospital
Elective	Outpatient	CHRONIC THORACIC BACK PAIN	Home or Self Care	09/01/2021	11/30/2021	Andrew E Huff	⋮	Nebraska Methodist Health System	Jeannie Edmundson Hospital
Outpatient	PC EST ACUTE			08/03/2021		MICHAEL W GUZMAN	⋮	Catholic Health Initiatives	VVMC
Elective	Outpatient	CERCVICALGIA	Home or Self Care	07/30/2021	07/30/2021	Andrew E Huff	⋮	Nebraska Methodist Health System	Jeannie Edmundson Hospital
Elective	Inpatient	FORMER SMOKER		06/24/2021		Kevin N Sheppard	⋮	Nebraska Methodist Health System	Jeannie Edmundson Hospital

Diagnosis

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Opioid/Benzo Overlap Last 45-days
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Chartbook

Encounters

> Demographics

Conditions

Diagnoses

Current Problems

Historical Problems

Allergies

> Medications

Documents

Diagnostic Studies

Lab Results

Vital Signs

Immunizations

Diagnoses [Across All Episodes]

≡ Date, Diagnosis

Episode No	Diagnosis	Facility	Status	Code	Date
HSgenerated85476AG	Activity, physical games generally associated with school recess, summer camp and children	Nebraska Medicine	Active	Y93.6A	
989998	Activity, physical games generally associated with school recess, summer camp and children	Beatrice Community Hospital & Health Center	Active	Y93.6A	
989998	Acute posthemorrhagic anemia	Nebraska Medicine	Active	D62	
HSgenerated85476AG	Acute upper respiratory infection, unspecified	Great Plains Health	Active	J06.9	
989998	Anemia, unspecified	Nebraska Medicine	Active	D64.9	
989998	Basal cell carcinoma of skin, unspecified	Great Plains Health	Active	C44.91	
989998	Basal cell carcinoma of skin, unspecified	Mary Lanning Healthcare	Active	C44.91	
989998	Basal cell carcinoma of skin, unspecified	Beatrice Community Hospital & Health Center	Active	C44.91	
HSgenerated85476AG	Chest pain, unspecified	Beatrice Community Hospital & Health Center	Active	R07.9	
989998	Contact with and (suspected) exposure to other viral communicable diseases	Nebraska Medicine	Active	Z20.828	
HSgenerated85476AG	Cough, unspecified	Great Plains Health	Active	R05.9	
HSgenerated85476AG	COVID-19	Nebraska Medicine	Active	U07.1	
989998	COVID-19	Nebraska Medicine	Active	U07.1	
HSgenerated85476AG	Disease of intestine, unspecified	Great Plains Health	Active	K63.9	

Allergies

ZZZTESTPT, EIGHTZ 03/02/1944 - 77 Yrs - Female		MME Alert Last 7-days Average daily MME: 127 # days daily MME over 90: 7 Highest daily MME: 140		Multiple Provider Alert Last 180-days Pharmacies: 4 Prescribers: 4		Opioid/Benzo Overlap Last 45-days Yes			
Chartbook		Allergies							
Encounters									
Demographics									
Conditions									
Allergies									
Medications									
Documents									
Diagnostic Studies									
Lab Results									
Vital Signs									
Immunizations									


Documents

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Chartbook

Encounters

> Demographics

> Conditions

Allergies

> Medications

Documents

Diagnostic Studies

Lab Results

Vital Signs

Immunizations

Documents

Some documents are unable to be launched in the browser, therefore leverage the local device to display. Follow your organization's technical safeguard protocols.

Doc Type	Document	Source	Facility	Entered Location	Date	Details	Episode No
DOC	TELEPHONE EN	KATHERINE C PULLEN	Nebraska Medicine		03/11/2021 14:07		HSgenerated85476AG
PR	PROGRESS	FEDJAA ROCHLING	Nebraska Medicine		03/11/2021 13:45		HSgenerated85476AG
DOC	ERRONEOUS EN	FEDJAA ROCHLING	Nebraska Medicine		03/11/2021 13:45		HSgenerated85476AG
DOC	NURSE TRIAGE	KATHERINE C PULLEN	Nebraska Medicine		03/11/2021 00:00		HSgenerated85476AG
DOC	NURSE TRIAGE	KATHERINE C PULLEN	Nebraska Medicine		03/11/2021 00:00		HSgenerated85476AG
DOC	TELEPHONE EN	BRANDY L HERTZIG	Nebraska Medicine		03/10/2021 13:40		HSgenerated85476AG
DOC	TELEPHONE EN	ALYSSA R SHARP	Nebraska Medicine		03/10/2021 10:03		HSgenerated85476AG
DOC	TELEPHONE EN	MORGAN D MOODY	Nebraska Medicine		03/10/2021 07:39		HSgenerated85476AG
DOC	TELEPHONE	MORGAN D MOODY	Nebraska Medicine		03/10/2021 00:00		HSgenerated85476AG
PR	PROGRESS	ALISON A DELIZZA	Nebraska Medicine		03/09/2021 09:57		HSgenerated85476AG
DOC	DOCUMENTATIO	ALISON A DELIZZA	Nebraska Medicine		03/09/2021 00:00		HSgenerated85476AG

Chartbook

Encounters

Demographics

Conditions

Allergies

Medications

Documents

Documents

Date, Activity Time

Some documents are unable to be launched in the browser, therefore leverage the local device to display. Follow your organization's technical safeguard protocols.

Doc Type	Document	Source	Facility	Entered Location	Date	Details	Episode No
TH	Physical Therapy Evaluation and Treatment Acute	MD Liz Rodriguez	Regional West Medical Center	Regional West Medical Center	10/07/2021 13:25		7338832
HP	Pre Hospital Care Report		EMS ImageTrend	Valley Ambulance Services, Inc.	10/05/2021 08:45		2628493-20211005

Clinician

Doc Type Pre Hospital Care Report

Document Pre Hospital Care Report

External Id

Status Available for patient care

Notes Pre-Hospital Patient Care Report Summary

Valley Ambulance Services, Inc.

EMS Unit Call Sign: Valley

Incident Date/Time: 10/05/2021 08:45 AM

Destination Arrival Time: 10/05/2021 09:00 AM

Destination Patient Transfer of Care Time: 10/05/2021 09:00 AM

Unit En Route Date/Time: 10/05/2021 08:46 AM

Unit Arrived on Scene Date/Time: 10/05/2021 08:49 AM

Unit Left Scene Date/Time: 10/05/2021 08:59 AM

Unit Back in Service Date/Time: 10/05/2021 09:00 AM

Call Number: 9fac52b6d14641c3b14ec72c30dbbc2f

Crew Member ID: 4857, 2797

Incident Number: 15593

Gender: F
Initial Patient Acuity: Lower Acuity (Green)
Advance Directives: None

Primary Impression: Altered mental status, unspecified
Secondary Impression: Altered mental status, unspecified
Complaint Reported By Dispatch: Stroke/CVA
Patient Chief Complaint:
ALTERED MENTAL STATUS Duration:30 Minutes
Destination: Regional West Med.Ctr. - Hospital

Medical History:
ICD-10 Code: I48.91, I10
Description: Unspecified atrial fibrillation, Essential (primary) hypertension

Procedures And Treatments:
Procedure: Not Recorded

Patient Vitals:

Date And Time: 10/05/2021 08:59 AM
BP: SBP (Systolic Blood Pressure) - 155, DBP (Diastolic Blood Pressure) - 84
Pulse: 55, SAO2: 94
Resp: 19, Resp Effort: Normal
ECG: Not Recorded
Responsiveness: Alert
Glasgow Scores: Eye - 3, Verbal - 4, Motor - , Total Score -

Exams:

Date And Time: 10/05/2021 08:51 AM

Skin: Normal, Dry, Warm

Head: Deformity, (Exam Finding Not Present) , Pain, (Exam Finding Not Present)

Neck: Tracheal Deviation-Left, (Exam Finding Not Present) , Tracheal Deviation-Right, (Exam Finding Not Present) , JVD, (Exam Finding Not Present) , Deformity, (Exam Finding Not Present) , Pain, (Exam Finding Not Present)

Face: Deformity, (Exam Finding Not Present) , Pain, (Exam Finding Not Present)

Pelvis: Deformity, (Exam Finding Not Present) , Pain, (Exam Finding Not Present)

Abdomen:

Abdominal Assessment Finding Location - Generalized

Abdomen Assessment - Pain, (Exam Finding Not Present) , Deformity, (Exam Finding Not Present)

Back And Spine:

Back and Spine Assessment Finding Location - Back-General

Back and Spine Assessment - Pain, (Exam Finding Not Present) , Deformity, (Exam Finding Not Present) , Pain with Range of Motion, (Exam Finding Not Present)

Extremity:

Extremity Assessment Finding Location - Ankle-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Pulse-Normal, Sensation-Normal

Extremity Assessment Finding Location - Ankle-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Pulse-Normal, Sensation-Normal

Extremity Assessment Finding Location - Foot-Dorsal-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Foot-Dorsal-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Arm-Upper-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Arm-Upper-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Hip-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Hip-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Leg-Upper-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Leg-Upper-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Leg-Lower-Left

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal

Extremity Assessment Finding Location - Leg-Lower-Right

Extremity Assessment - Deformity, (Exam Finding Not Present) , Edema, (Exam Finding Not Present) , Motor Function-Normal, Pain, (Exam Finding Not Present) , Sensation-Normal, Pulse-Normal
Mental Assessment: Confused
Neuro Assessment: Strength-Normal, Strength-Symmetric, Speech Normal, Speech Slurring, (Exam Finding Not Present)

Injury Information:
Trauma Center Criteria: Not Recorded
Injury Risk Factor: Not Recorded
Narrative:
VALLEY DISPATCHED FOR A FEMALE, POSS. STROKE.
UPON ARRIVAL OF LOCAL CARE FACILITY, PT IS NOTED TO BE SITTING IN HER WHEELCHAIR, PT IS NOTED TO BE SITTING IN THE UPRIGHT POSITION, PT IS NOTED TO BE PINK, WARM AND DRY. PT IS NOTED TO BE CONFUSED.
PT RN STATED THAT THE PT IS NOTED TO BE CONFUSED, AND THAT SHE HAS BEEN SINCE THE RN STARTED HER SHIFT THIS AM. RN STATED THAT WHEN SHE LEFT LAST NIGHT AT 1800 THE PT WAS NORMAL PER HER BASELINE.
PT WAS NOTED TO NOT BE RESPONDING TO VERBAL STIMULI, PT WAS UNABLE TO FOLLOW COMMANDS, RN STATED THAT THE PT IS USUALLY ABLE TO FOLLOW COMMANDS, AND IS ABLE TO COMMUNICATE. PT WAS NOT RESPONDING TO ANY QUESTIONS. PT WAS NOTED TO HAVE INTERFERENCE THAT WAS AUDIBLE ORIGINATING FROM HER HEARING AIDS. PT HEARING AIDS WERE REMOVED, PT HEARING AIDS WERE NOTED TO BE SCREECHING, AND HEARING AIDS REMAINED IN PT POSSESSION. PT WAS ASSISTED TO HER FEET X2, AND PLACED ON EMS STRETCHER, PT IS NOTED TO BE IN POSITION OF COMFORT, PT IS PLACED IN THE FOWLERS POSITION. PT WAS TAKEN TO THE AMBULANCE WHERE BASELINE VITALS WERE OBTAINED, THERE WAS NO TRAUMA NOTED TO THE PT, PT PUPILS WERE NOTED TO BE PEARL. PT WAS TRANSPORTED TO RWMC FOR FURTHER EVALUATION OF SYMPTOMS, PT STATUS REMAINED UNCHANGED THROUGHOUT TRANSPORT. PT CARE AND REPORT WAS HANDED OVER TO RN IN RM 4. PT SIGNATURE WAS OBTAINED FROM THE PT RN DUE TO PT MENTAL STATUS.
MAYSE-NRP

This is an abbreviated summary of the original pre-hospital patient care report documented by emergency medical services. For clinical decision making please refer to the official patient care report.

Activity Date	10/05/2021	Activity Time	08:45
Transcription Date	10/05/2021	Transcription Time	15:24
Authorization Date		Authorization Time	
Last Update Date	10/05/2021	Last Update Time	15:25

Diagnostics

ZZZTESTPT, **EIGHTZ**
03/02/1944 - 77 Yrs - Female

MME Alert Last 7-days
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Multiple Provider Alert Last 180-days
Pharmacies: 4
Prescribers: 4

Opioid/Benzo Overlap Last 45-days
Yes



Chartbook

Encounters

> Demographics

> Conditions

Allergies

> Medications

Documents

Diagnostic Studies

Lab Results

Vital Signs

Immunizations

Diagnostic Studies

Collection Date

Some documents are unable to be launched in the browser, therefore leverage the local device to display. Follow your organization's technical safeguard protocols.

Study	Document Link	Report	Status	Collection Date	Facility	Location	Episode No
CT CHEST		Report	Final	09/19/2018 05:11	Great Plains Health	Great Plains Health	156979070

Diagnostic Report Detail

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CT CHEST (219_t2)

[Order Details](#)

Specimen Collection Date 09/19/2018
Specimen Collection Time 05:11
Ordering Clinician MOLINA-PALLETE, GUIDO (2752_t179)

Last Update Date
Last Update Time
Result Status Final
Filler Number 5855786
Receiving Location Great Plains Health
Age at Time of Test 74 Years

Result

EXAM: CT CHEST
INDICATION: painChest wall pain
COMPARISON: None.
TECHNIQUE: Downtime test

FINDINGS: Downtime test
THORAX: Downtime test

ABDOMEN: Downtime test

IMPRESSION: Downtime test

Lab Studies

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Chartbook	Lab Results by Date							
Encounters	Order	Trend	Result 1	Result 2	Result 3	Result 4	Result 5	>
> Demographics	Type and Screen		11/16/2021 12:00					
> Conditions								
Allergies	URINE CULTURE		11/15/2021 08:00	10/26/2021 08:10	09/02/2021 08:00	07/29/2021 08:09	07/29/2021 08:08	
> Medications								
Documents	BETA 2 MICROGLOB/BLD		11/03/2021 06:00	10/28/2021 12:00	09/10/2021 06:00			
Diagnostic Studies								
Lab Results	CBC AND PLT WITH DIFF		11/03/2021 05:00					
Vital Signs								
Immunizations	STABLE HGB A1C		11/03/2021 05:00	05/04/2021 05:00				
	TB INTERFERON AG		10/22/2021 08:00	04/29/2021 09:01	02/12/2021 11:01	02/12/2021 10:01	02/11/2021 00:00	
	AEROBE/ANAEROBE CULT		09/23/2021 08:00					

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Order Start Date	09/02/2021
Order Start Time	08:00
Ordering Clinician	FEY, PAUL (35871)
Specimen	UCLN
Specimen Collection Date	09/02/2021
Specimen Collection Time	08:00
Specimen Received Date	09/02/2021
Specimen Received Time	12:37

[Order Details](#)

Cumulative

Result Date	
Result Time	
Result Status	Corrected
Placer ID	
Last Update Date	
Last Update Time	
Age at Time of Test	77 Years

Test Item	Flag	Value	Units	Reference Range	Test Item Status	Comments	Sensitivities	Message Flag	Observation Time	Performed At
SPECIMEN SOURCE XXX		Urine Clean Catch			Final				09/02/2021	Nebraska Medicine
ANNOTATION COMMENT IMP		None			Final				09/02/2021	Nebraska Medicine
MICROORGANISM/AGENT XXX		Enterococcus faecalis			Corrected			Abnormal	09/02/2021	Nebraska Medicine
Report Status		09/02/2021 Final			Final				09/02/2021	Nebraska Medicine
ORGANISM		Enterococcus faecalis			Final	Enterococcus faecalis			09/02/2021	MICROBIOLOGY
BACTERIAL SUSC PNL ISLT MIC		MIC			Final				09/02/2021	MICROBIOLOGY
AMPICILLIN SUSC ISLT		<=2			Final		S		09/02/2021	MICROBIOLOGY
VANCOMYCIN ISLT MIC		<=0.25			Final		S		09/02/2021	MICROBIOLOGY
DAPTOMYCIN ISLT MIC		<=0.25			Final		S		09/02/2021	MICROBIOLOGY

Medication History

ZZZTESTPT, **EIGHTZ**
03/02/1944 - 77 Yrs - Female

MME Alert Last 7-days
Average daily MME: 622
days daily MME over 90: 7
Highest daily MME: 622

Multiple Provider Alert Last 180-days
Pharmacies: 4
Prescribers: 5

Opioid/Benzo Overlap Last 45-days
Yes



Awaiting results from: **NSIIS (Done)**

[Refresh](#)

Chartbook

Encounters

> Demographics

> Conditions

Allergies

Medications

Current Medications

Historical Medications

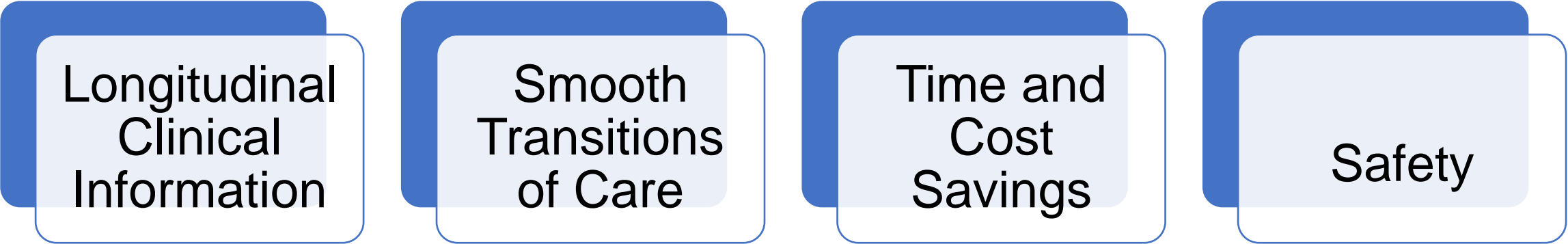
Documents

Diagnostic Studies

Lab Results

Species	RxGov Patient ID	Date Filled	Drug Name	Quantity Dispensed	Generic Drug	Prescriber	Pharmacy	Date Written	Days Supply	Refills	Payment Type	Details
Human	989998	12/15/2021	Compound incl. LORazepam 1 MG TABS, Banophen 25 MG CAPS, Lecithin Organogel GEL	30	Compound incl. Lorazepam, Diphenhydramine HCl, Premium Lecithin Organogel Base	zzEIGHT zzPrescriber	zzTest Pharmacy 1	10/16/2021	4	0/32	Private Pay (Cash, Charge, Credit Card)	⋮
Human	989998	12/15/2021	Compound incl. fentaNYL Citrate 1600 MCG LPOP	180	Compound incl. Fentanyl Citrate	zzEIGHT zzPrescriber	zzTest Pharmacy 1	12/15/2021	30	0/0	Private Pay (Cash, Charge, Credit Card)	⋮
Human	989998	12/08/2021	Compound incl. LORazepam 1 MG TABS, Banophen 25 MG CAPS, Lecithin Organogel GEL	30	Compound incl. Lorazepam, Diphenhydramine HCl, Premium Lecithin Organogel Base	zzEIGHT zzPrescriber	zzTest Pharmacy 1	10/17/2021	4	1/32	Private Pay (Cash, Charge, Credit Card)	⋮
Human	989998	12/04/2021	Compound incl. LORazepam 1 MG TABS, Banophen 25 MG CAPS, Lecithin Organogel GEL	30	Compound incl. Lorazepam, Diphenhydramine HCl, Premium Lecithin Organogel Base	zzEIGHT zzPrescriber	zzTest Pharmacy 1	10/17/2021	4	2/32	Private Pay (Cash, Charge, Credit Card)	⋮
Human	989998	12/01/2021	Compound incl. fentaNYL Citrate 1600 MCG LPOP	180	Compound incl. Fentanyl Citrate	zzEIGHT zzPrescriber	zzTest Pharmacy 1	12/01/2021	30	0/0	Private Pay (Cash, Charge, Credit Card)	⋮

The Value



Longitudinal
Clinical
Information

Smooth
Transitions
of Care

Time and
Cost
Savings

Safety

Key to Clinician Adoption

Interoperable,
Frictionless Experience

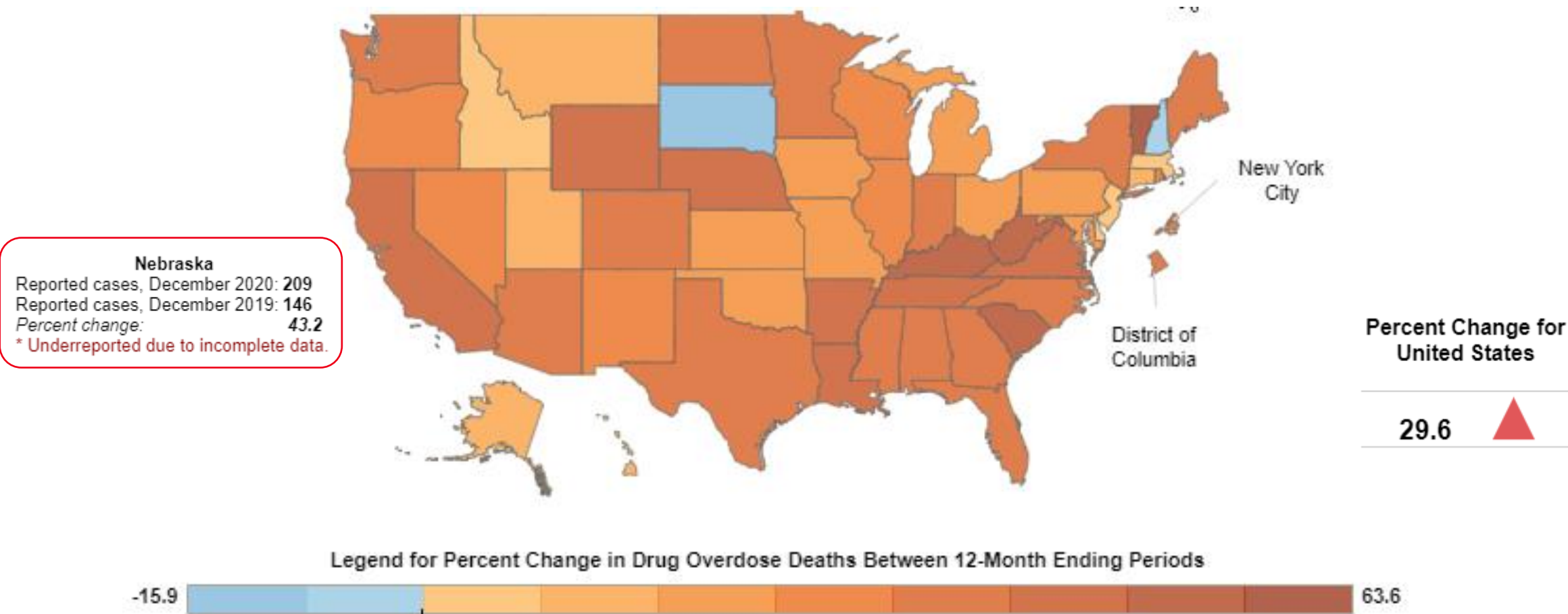


Questions?

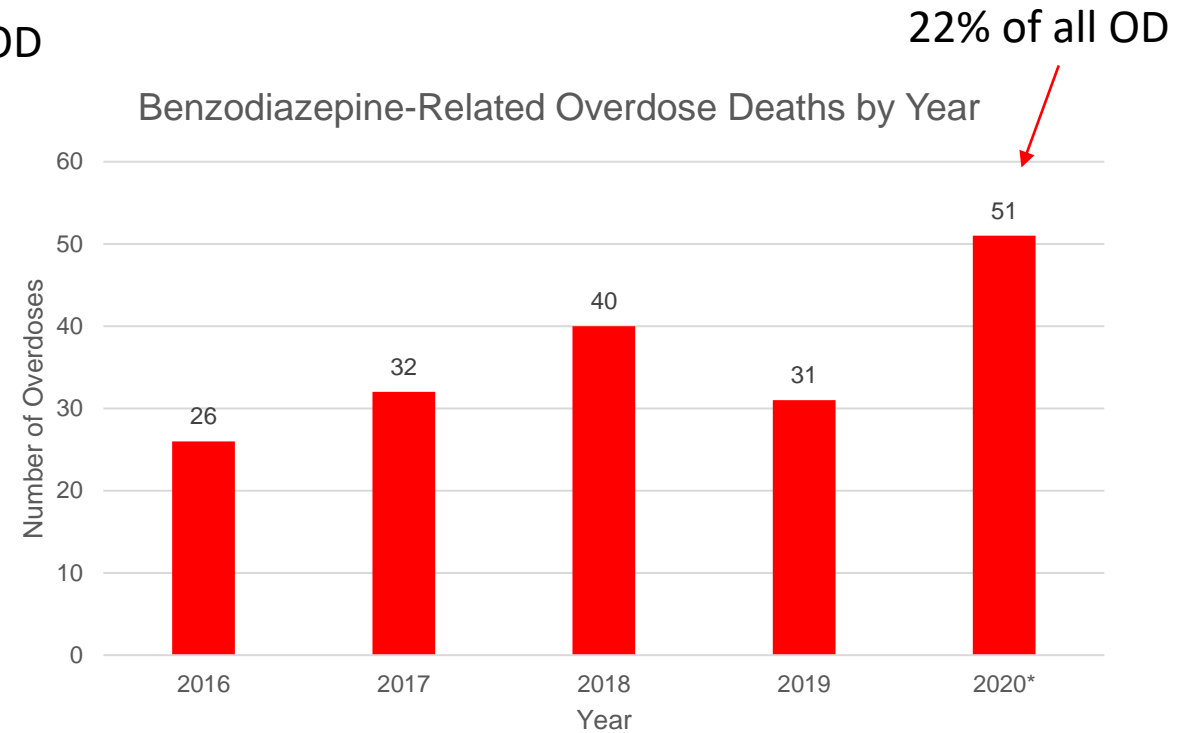
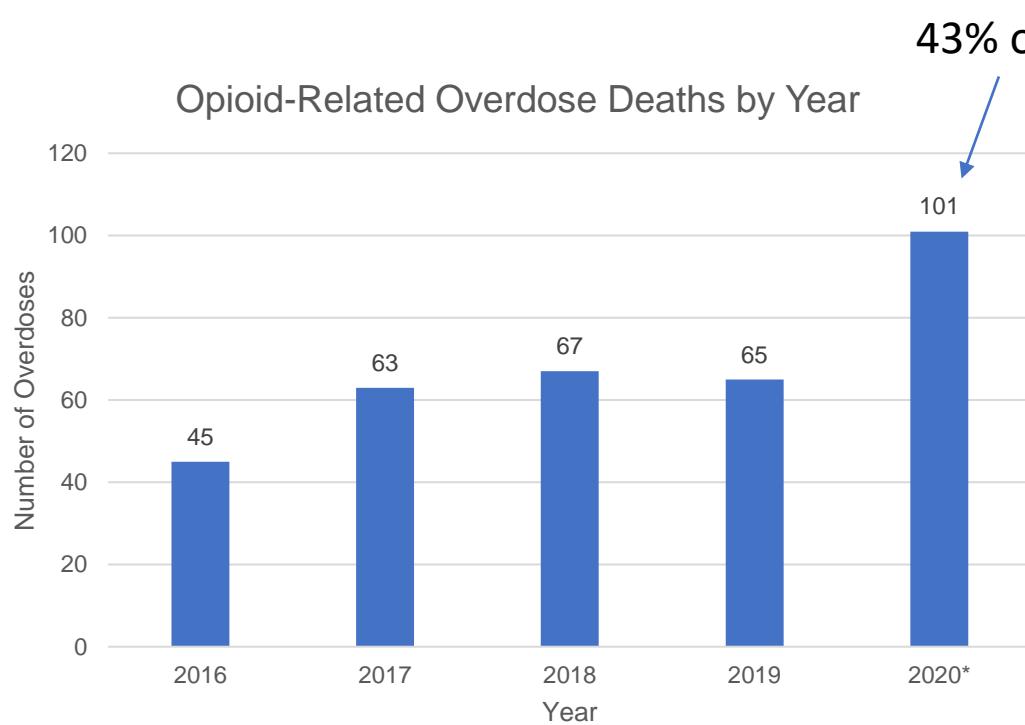
Prescription Drug Monitoring Program



Percent Change in Reported 12 Month-ending Count of Drug Overdose Deaths, by Jurisdiction: December 2019 to December 2020



Nebraska Drug-Related Overdose Deaths 2016 - 2020



* 2020 provisional data

**Combating the opioid crisis:
Multi-faceted approach**



Prevention



Education



**Treatment/
recovery**



**Identification/
monitoring**

Drugs Monitored by PDMP

Updated July 2019

Legend:

- Schedules II-V Only (15)
- Schedules II-V and Drugs of Concern (26)
- Schedules II-IV Only (9)
- Schedules II-IV and Drugs of Concern (2)
- All Prescription Drugs (1)

** Missouri has not enacted state legislation to establish a PDMP*

Drugs Monitored by PDMP

Updated July 2019

Legend:

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Drugs Monitored by PDMP

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** Missouri has not enacted state legislation to establish a PDMP*



NATIONAL DRUG CONTROL STRATEGY

A Report by the
Office of National Drug Control Policy

JANUARY 2019

Special Communication | April 19, 2016

CDC Guideline for Prescribing Opioids for Chronic Pain—United States, 2016

FREE

Deborah Dowell, MD, MPH¹; Tamara M. Haegerich, PhD¹; Roger Chou, MD¹

¹Division of Unintentional Injury Prevention, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, Atlanta, Georgia

JAMA. 2016;315(15):1624-1645. doi:10.1001/jama.2016.1464.

ABSTRACT

Importance Primary care clinicians find managing chronic pain challenging. Evidence of long-term efficacy of opioids for chronic pain is limited. Opioid use is associated with serious risks, including opioid use disorder and overdose.

Objective To provide recommendations about opioid prescribing for primary care clinicians treating adult patients with chronic pain outside of active cancer treatment, palliative care, and end-of-life care.

Process The Centers for Disease Control and Prevention (CDC) updated a 2014 systematic review on effectiveness and risks of opioids and conducted a supplemental review on benefits and harms, values and preferences, and costs. CDC used the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) framework to assess evidence type and determine the recommendation category.

A NATIONAL GOVERNORS ASSOCIATION TOOLKIT



State Strategies to Improve the Use of Prescription Drug Monitoring Programs to Address Opioid and other Substance Use Disorders

PAIN MANAGEMENT

BEST PRACTICES



PAIN MANAGEMENT BEST PRACTICES INTER-AGENCY TASK FORCE REPORT

Updates, Gaps, Inconsistencies, and Recommendations

FINAL REPORT

PDMP Expansion

- A Prescription Drug Monitoring Program (PDMP) is a proven means to increase accountability in opioid prescribing practices and prevent patients from receiving opioids and other controlled medications that may have adverse interactions with opioids from multiple providers.
- In some states where PDMP checking is optional, providers report difficulty using their PDMP due to lack of integration with electronic health records (EHR) which interrupts workflow and can result in decreased use.
- Providers also cite lack of interstate data-sharing and concerns about patient confidentiality as reasons not to use the PDMP. In those cases where states' integration services are made available, the service can be costly.



NATIONAL DRUG CONTROL STRATEGY

A Report by the
Office of National Drug Control Policy

JANUARY 2019

e-Prescribing Measure

Quality Payment PROGRAM

Merit-Based Incentive Payment System (MIPS) Promoting Interoperability Performance Category Measure 2020 Performance Period

Objective:	e-Prescribing
Measure:	Query of Prescription Drug Monitoring Program (PDMP) For at least one Schedule II opioid electronically prescribed using CEHRT during the performance period, the MIPS eligible clinician uses data from CEHRT to conduct a query of a PDMP for prescription drug history, except where prohibited and in accordance with applicable law.
Measure ID:	PI_EP_2

Definition of Terms

Prescription – The authorization by a MIPS eligible clinician to a pharmacist to dispense a drug that the pharmacist would not dispense to the patient without such authorization.

Permissible Prescriptions – All drugs meeting the current definition of a prescription as the authorization by a clinician to dispense a drug that would not be dispensed without such authorization and may include electronic prescriptions of controlled substances where creation of an electronic prescription for the medication is feasible using CEHRT and where allowable by state and local law.

Opioids – Schedule II controlled substances under 21 CFR 1308.12, as they are recognized as having a high potential for abuse with potential for severe psychological or physical dependence.

PDMP – an electronic database that tracks prescriptions of controlled substances at the State level.



Who Reports information to PDMPs?

Pharmacies

- In-state
 - Mail order
- Nebraska VA

Physicians

With a pharmacy license

Veterinarians

(Controlled substances only)

PDMP

Highlights

- Dispensers must submit data
- All dispensed drugs reported on at least a daily basis
- Providers and pharmacists can:
 - Access PDMP patient reports
 - Authorize delegates
- Alignment with federal policy (SUPPORT Act)
- Patient safety tool

Functionality

- Delegate management
- Enhanced reporting
- Share PDMP data with other states
- Clinical workflow integration

What needs to be reported to the PDMP?

- **Patient:** name, address, gender, DOB, phone, identifier
- **Pharmacy:** name, address, DEA/NPI
- **Prescription:** date issued, date filled, name of drug (NDC), strength, quantity, payment type
- **Prescriber:** name, DEA/NPI

Accessing PDMP Data in Nebraska



Prescribers



Pharmacists

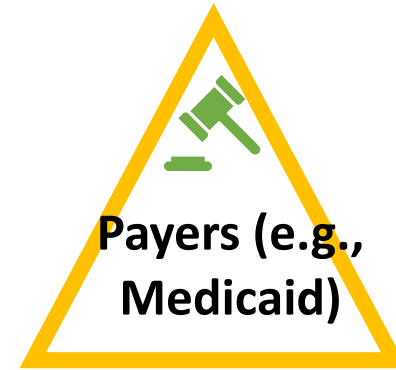


Delegates

- Nurses
- Pharmacy technicians



**Law
enforcement**



**Payers (e.g.,
Medicaid)**

Reporting all dispensed prescriptions

Required reporting as of Jan. 1, 2018

Comprehensive medication history

Patient safety tool

- Allows clinicians to make better informed decisions
- Identify potential drug interactions, allergies and medications from multiple prescribers and pharmacies
- Provides a valuable resource for unprecedented emergencies
- Tool for medication reconciliation

Patient queries

Patient Query

Patient Query Query History

☒ Search any first and last name combinations ⓘ

First Name ⓘ Last Name ⓘ DOB




Species ⓘ
☒ All
☐ Human
☐ Non-Human

Additional States to Query:

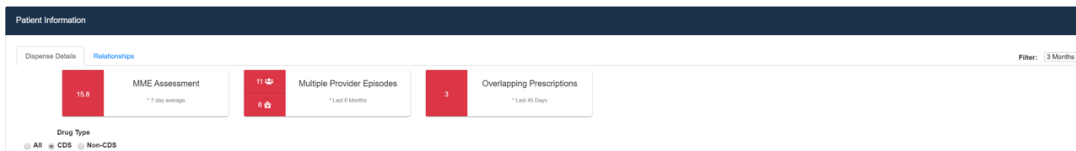
Asterisk (*) can be used as a wildcard to broaden searching

Check other states!

Species Indicator

Patient Results							
Display All	Species	Name	Identifier	RxGov Patient Id	Gender	Date of Birth	Address & Phone
<input checked="" type="checkbox"/>		+ Clark Joseph Kent	Social Security Number: XXX-XX-8789	271	M	1/1/00	12 Smallville St., Smallville, ne, 68001 4021234567 Butler
<input checked="" type="checkbox"/>		+ Fido Kent	Social Security Number: XXX-XX-8789	271	M	1/1/00	12 Smallville St., Smallville, ne, 68001 4021234567 Butler
<input checked="" type="checkbox"/>		Kent Clark	Unique System ID: 454545	283	M	1/1/00	123 Planet St., Metropolis, NE, 68111 4022222222

Patient query – CS/non-CS split view







Dispenses





Combined View

Split View

Controlled Substance Dispenses

	Species	RxGov Patient ID	Date Filled	Drug Dispensed	Quantity Dispensed	Prescriber	Dispenser	Date Written	Date Sold	Days Supply	Refill Number	Refills Authorized	State	Payment Type
+ 2		2682	02/20/2020	Hydrocodone-Acetaminophen (HYDR/Oodone-Acetaminophen) 7.5-300 MG TABS	100 Each	Howser, Doogie 9991112225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	02/19/2020		10	0	0	Nebraska	Commercial Insurance
		2682	02/19/2020	Oxycodone HCl (oxyCODONE HCl) 10 MG TABS	50 Each	Crusher, Beverly 9991111225	Kevin's Pharmacy, 322 E 22nd Street, Fremont, NE, 68025, 4025599992, Dodge	02/15/2020	02/19/2020	8	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)
		2682	02/18/2020	Alprazolam (ALPRAZolam) 1 MG TABS	90 Each	Bailey, Miranda 9991111285	Newbie Pharmacy, 6303 Dodge Street, Omaha, NE, 68114, 4025599992, Douglas	02/18/2020	02/19/2020	30	0	0	Nebraska	Commercial Insurance
		2682	02/12/2020	Hydrocodone-Acetaminophen (Vloosin) 5-300 MG TABS	180 Each	House, Gregory 9991111235	Hometown Pharmacy, 2500 California Plaza, Omaha, NE, 68176, 4025599992	02/10/2020	02/18/2020	30	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)

Non-Controlled Substance Dispenses

	Species	RxGov Patient ID	Date Filled	Drug Dispensed	Quantity Dispensed	Prescriber	Dispenser	Date Written	Date Sold	Days Supply	Refill Number	Refills Authorized	State	Payment Type
+ 2		2682	12/08/2019	Simvastatin (Simvastatin) 40 MG TABS	60 Each	Howser, Doogie 9991112225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	12/07/2019	12/09/2019	30	3	6	Nebraska	Commercial Insurance
		2682	12/07/2019	Esomeprazole Magnesium (Nex/UM) 40 MG CPDR	30 Each	House, Gregory 9991111225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	12/07/2019	12/07/2019	30	0	0	Nebraska	Commercial Insurance
		2682	12/07/2019	Bumetanide (Bumetanide) 1 MG TABS	30 Each	House, Gregory 9991111225	Newbie Pharmacy, 6303 Dodge Street, Omaha, NE, 68114, 4025599992, Douglas	12/07/2019	12/07/2019	30	0	0	Nebraska	Commercial Insurance
+ 2		2682	12/07/2019	Warfarin Sodium (Warfarin Sodium) 5 MG TABS	10 Each	McCoy, Leonard 9991111225	Out Of Town Pharmacy, 535 E Broadway, Council Bluffs, IA, 51503, 7125599932, Pottawattamie	12/05/2019	12/07/2019	5	0	0	Nebraska	Commercial Insurance

Patient queries – clinical safety alerts

Patient Information

Dispense Details

Relationships

15.8

MME Assessment

* 7 day average

11

Multiple Provider Episodes

* Last 6 Months

3

Overlapping Prescriptions

* Last 45 Days

Drug Type

All

CDS

Non-CDS

Controlled Substance Disposes

	Species	RxGov Patient ID	Date Filled	Drug Dispensed	Quantity Dispensed	Prescriber	Dispenser	Date Written	Date Sold	Days Supply	Refill Number	Refills Authorized	State	Payment Type
4		271	09/10/2019	Morphine Sulfate (Morphine Sulfate (Concentrate)) 100 MG/5ML SOLN	20 Milliliters (ml)	abc, abc 4021113333	test, test st, test, NE, 68128, 1111111111, Sarpy	09/10/2019	09/10/2019	5	0	0	Nebraska	Medicare
		271	09/08/2019	Morphine Sulfate (Morphine Sulfate (Concentrate)) 100 MG/5ML SOLN	40 Milliliters (ml)	abc, abc 4021113333	test, test st, test, NE, 68128, 1111111111, Sarpy	09/08/2019	09/09/2019	5	0	0	Nebraska	Medicare
		301	09/03/2019	Morphine Sulfate (Morphine Sulfate (Concentrate)) 100 MG/5ML SOLN	40 Milliliters (ml)	abc, abc	test, test st, test, NE, 68128, 1111111111, Sarpy	09/03/2019	09/04/2019	5	0	0	Nebraska	Medicare
		301	09/02/2019	Morphine Sulfate (Morphine Sulfate (Concentrate)) 100 MG/5ML SOLN	20 Milliliters (ml)	abc, abc	test, test st, test, NE, 68128, 1111111111, Sarpy	09/02/2019		5	0	0	Nebraska	Medicare
		301	10/15/2019	Morphine Sulfate (Morphine Sulfate) 30 MG TABS	17 Each	Potter, Sherman T 9991111225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	10/15/2019	10/15/2019	17	0	0	Nebraska	Commercial Insurance
		301	10/15/2019	Oxycodone HCl (oxyCODONE HCl) 10 MG TABS	50 Each	Crusher, Beverly 9991111225	Kevin's Pharmacy, 322 E 22nd Street, Fremont, NE, 68025, 4025599992, Dodge	10/15/2019	10/15/2019	8	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)
		301	10/15/2019	Hydrocodone-Acetaminophen (Vicodin) 5-300 MG TABS	90 Each	House, Gregory 9991111235	Hometown Pharmacy, 2500 California Plaza, Omaha, NE, 68178, 4025599992, Douglas	10/15/2019	10/15/2019	30	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)

Patient query – combined view

Dispenses														
Combined View		Split View												
	Species	RxGov Patient ID	Date Filled ▲	Drug Dispensed	Quantity Dispensed	Prescriber	Dispenser	Date Written	Date Sold	Days Supply	Refill Number	Refills Authorized	State	Payment Type
+ 2		2982	02/20/2020	Hydrocodone-Acetaminophen (HYDROcodone-Acetaminophen) 7.5-300 MG TABS	100 Each	Howser, Doogie 9991112225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	02/19/2020		10	0	0	Nebraska	Commercial Insurance
		2982	02/19/2020	Oxycodone HCl (oxyCODONE HCl) 10 MG TABS	50 Each	Crusher, Beverly 9991111225	Kevin's Pharmacy, 322 E 22nd Street, Fremont, NE, 68025, 4025599992, Dodge	02/15/2020	02/19/2020	8	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)
		2982	02/18/2020	Alprazolam (ALPRAZolam) 1 MG TABS	90 Each	Bailey, Miranda 9991111285	Newbie Pharmacy, 8303 Dodge Street, Omaha, NE, 68114, 4025599992, Douglas	02/18/2020	02/19/2020	30	0	0	Nebraska	Commercial Insurance
		2982	02/12/2020	Hydrocodone-Acetaminophen (Vicodin) 5-300 MG TABS	180 Each	House, Gregory 9991111235	Hometown Pharmacy, 2500 California Plaza, Omaha, NE, 68178, 4025599992	02/10/2020	02/18/2020	30	0	0	Nebraska	Private Pay (Cash, Charge, Credit Card)
+ 2		2982	12/09/2019	Simvastatin (Simvastatin) 40 MG TABS	60 Each	Howser, Doogie 9991112225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	12/07/2019	12/09/2019	30	3	6	Nebraska	Commercial Insurance
		2982	12/07/2019	Esomeprazole Magnesium (NexIUM) 40 MG CPDR	30 Each	House, Gregory 9991111225	Test Pharmacy, 12300 W Dodge Rd, Omaha, NE, 68154, 4025599999, Douglas	12/07/2019	12/07/2019	30	0	0	Nebraska	Commercial Insurance
		2982	12/07/2019	Bumetanide (Bumetanide) 1 MG TABS	30 Each	House, Gregory 9991111225	Newbie Pharmacy, 8303 Dodge Street, Omaha, NE, 68114, 4025599992, Douglas	12/07/2019	12/07/2019	30	0	0	Nebraska	Commercial Insurance

Better sorting for medication reconciliation

Dispenses

Combined ViewSplit View

Controlled Substance Dispenses

Expand All	Species	RxGov Patient ID	Date Filled
+ 4		2639318	11/06/2021
+ 4		2639318	11/05/2021
+ 4		2639318	11/05/2021
+ 4		2639318	11/05/2021
+ 4		2639318	11/05/2021
+ 4		2639318	11/03/2021
+ 4		2639318	11/02/2021

Dispense Details

Drug Name:

Morphine Sulfate (Morphine Sulfate) 30 MG TABS

Date Written:

11/5/21

Date Filled:

11/5/21

Date Sold:

11/5/21

Quantity Dispensed:

17 Each

Days Supplied:

17

Refill Number:

0

Refills Authorized:

0

Payment Type:

Commercial Insurance

Prescriber:

zzCrusher, zzBeverly

Prescriber DEA:

ZZ1234563

Prescriber Organizations:

Dispenser:

Test Pharmacy

Dispenser DEA:

ZT3456781

Dispenser Address:

12300 W Dodge Rd

Dispenser City:

Omaha

Dispenser State:

NE

Dispenser Zip:

68154

Dispenser County:

DOUGLAS

Dispenser Phone:

4025599999

Patient First Name:

Eight

Patient Last Name:

Zzztestpt

Patient Middle Name:

Patient DOB:

03/02/1990

Patient Gender:

F

Patient Address:

8 TestingPatient Road

Patient City:

North Platte

Patient State:

NE

Patient Zip:

69101

Patient County:

lincoln

Patient Phone Number:

Patient Identifier Type:

Patient Identifier Value:

Sulfate ER) 30 MG TBCR

Hawkeye 9991115265

Broadway, Council Bluffs, IA, 51503, 7125599932, Pottawattamie

The Challenges of a Health Information Exchange

- Quality, Quality, Quality
- Interoperability standards and consistency
- Creating a frictionless experience (SSO/Workflow Integration, Smart on FHIR experience)

Questions?

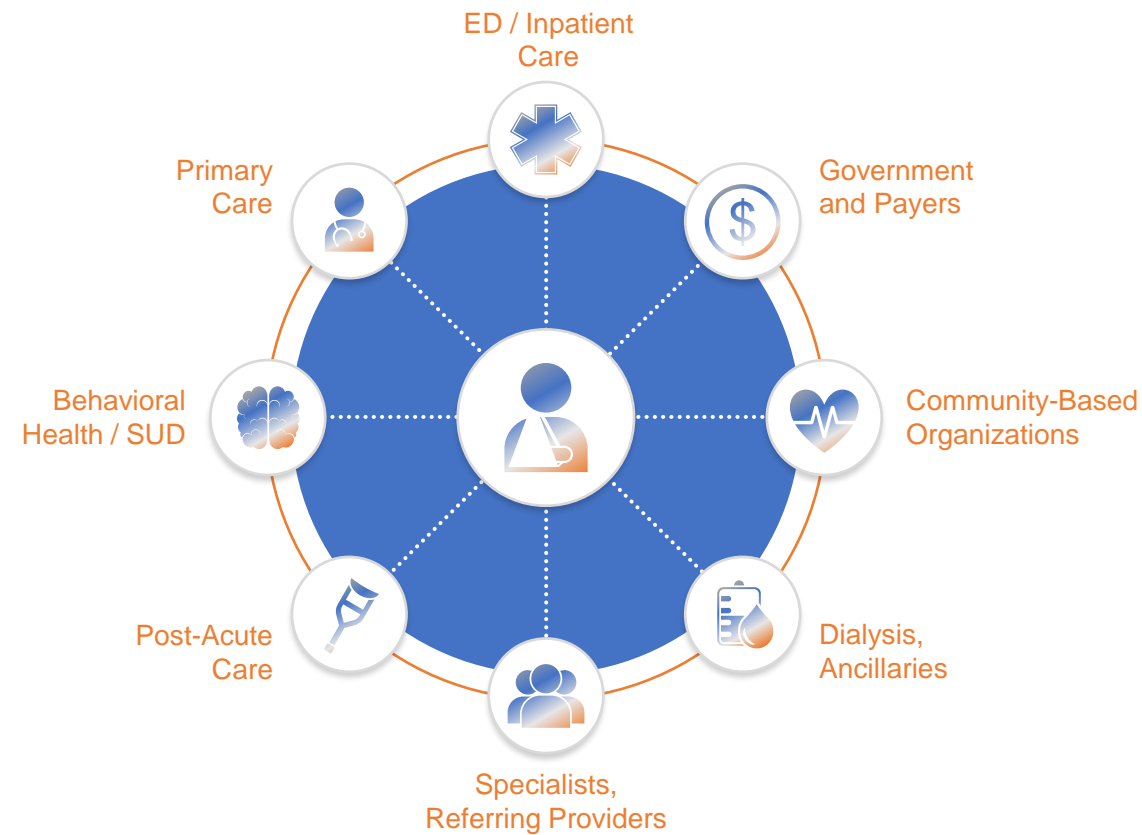


Health Data Utility Tool: Event Notification



What is Event Notification?

Event Notification is a patient identification and tracking solution that gets the right information to the right person at the point of care.



Four Levels of Interoperability

- **Foundational (Level 1):** Establishes the inter-connectivity requirements needed for one system or application to securely communicate data to and receive data from another
- **Structural (Level 2):** Defines the format, syntax and organization of data exchange including at the data field level for interpretation
- **Semantic (Level 3):** Provides for common underlying models and codification of the data including the use of data elements with standardized definitions from publicly available value sets and coding vocabularies, providing shared understanding and meaning to the user
- **Organizational (Level 4):** Includes governance, policy, social, legal and organizational considerations to facilitate the secure, seamless and timely communication and use of data both within and between organizations, entities and individuals. These components enable shared consent, trust and integrated end-user processes and workflows

(Healthcare Information and Management Systems Society (HIMSS))

Conditions of Participation (CAH/ACH)

Patient Presents
at Hospital ED or IP



Immediate

Basic demographic information and triage details about the encounter are entered into the hospital's EHR

EHR Sends Patient
Data to Event Notification
Platform



Less than two (2) minutes

Identification of the patient and cross-references the new encounter information with prior care records from all entities

Primary Care Physician
Notification via Direct
Message on file associated
with NPI



CoP

Conditions of Participation
notification

EDO – Emergency Department Optimization (ED)

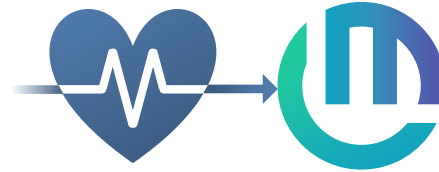
Patient Presents
at Hospital ED



Immediate

Basic demographic information and triage details about the encounter are entered into the hospital's EHR

EHR Sends Patient
Data to Event Notification
Platform



Less than two (2) minutes

Identification of the patient and cross-references the new encounter information with prior care records from all entities

ED Notification of High Risk
Issues



Risk Notification

Notification is made back to the ED via secure email, Fax or integration with EHR Trackboard of high risk issues/behaviors

Ambulatory Clinic Case Management Notifications

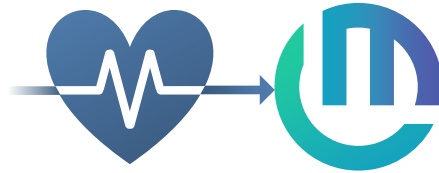
Patient Presents
at Hospital ED



Immediate

Basic demographic information and triage details about the encounter are entered into the hospital's EHR

EHR Sends Patient
Data to Event Notification
Platform



Less than two (2) minutes

Identification of the patient and cross-references the new encounter information with prior care records from all entities

Staff Notified if
Encounter Meets Criteria



Ongoing

Notifications contain relevant, actionable information about the patient, allowing the provider to positively influence patient care outcomes

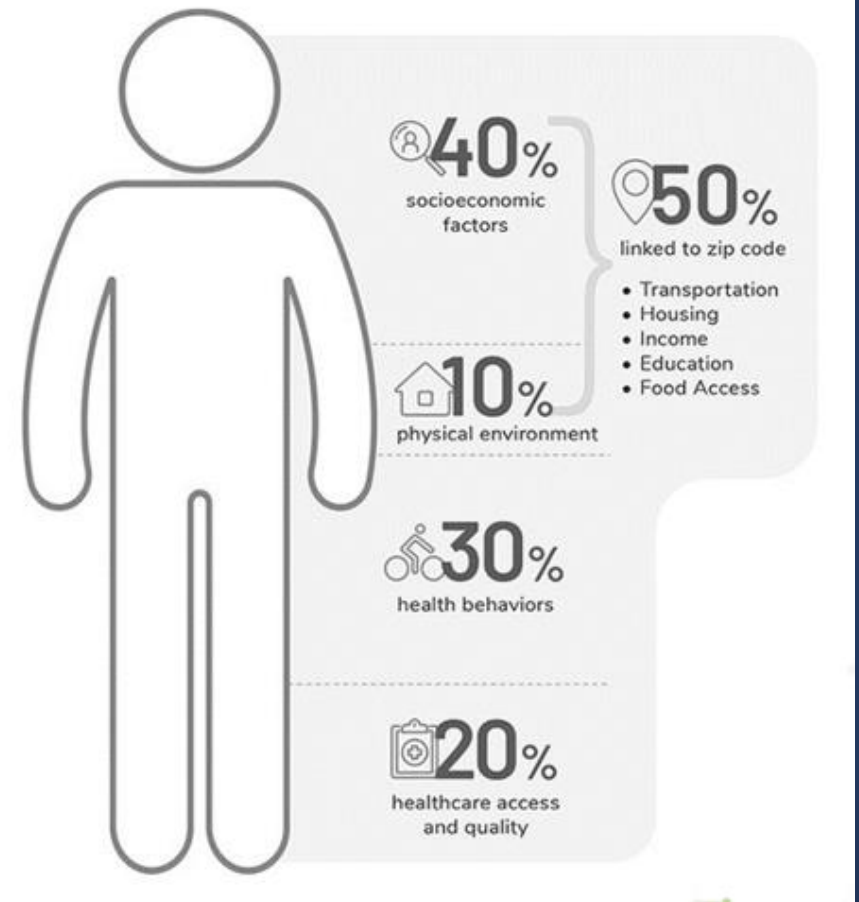
Questions?

Health Data Utility
Tool:
Social
Determinate of
Health Screening
and Referral

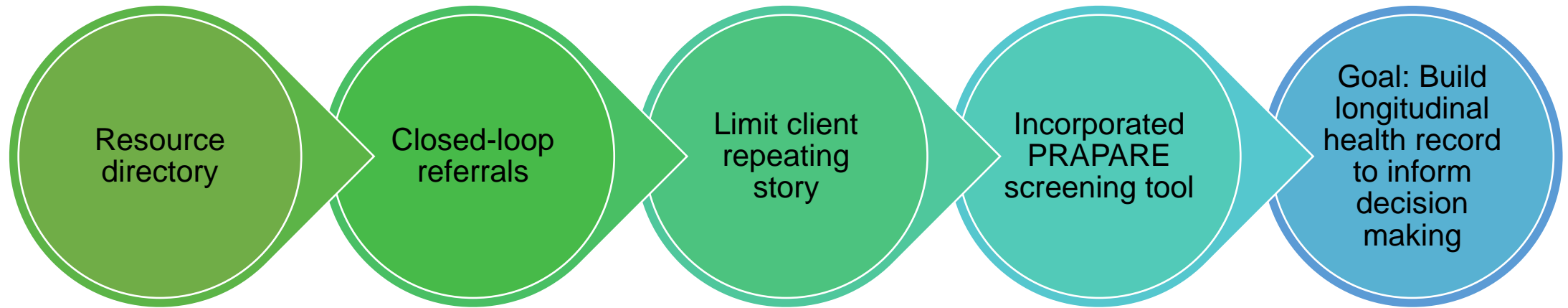


The Focus on Social Determinants

- 80% of health is determined by what happens outside of traditional healthcare (RWJF)
- National movement towards value-based care



Improving Outcomes through Proper Referral Channels



Questions?

- tstepanek@CyncHealth.org
- https://calendly.com/cynchealth_tamarastepanek