

 NaryxCare™

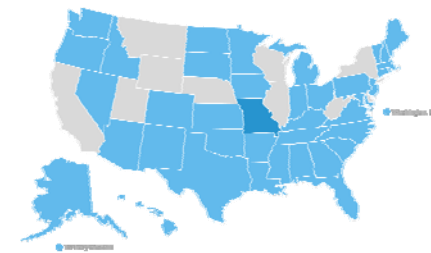
Solution Overview

## Overview

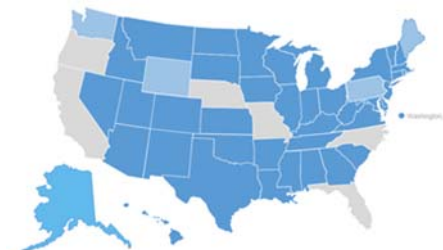
- Appriss Health
- Substance Use and Opioid Trends
- NarxCare Overview
- Live Demo

# Appriss Health

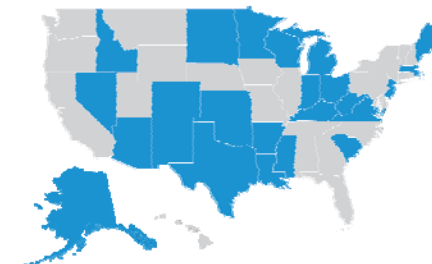
Software provider for **42 of 52 PDMPs** in U.S.



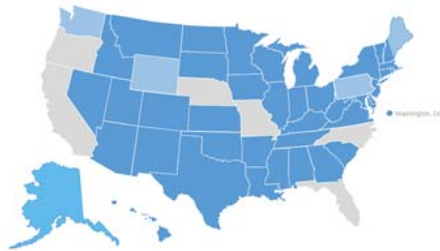
Software provider for **PMP Interconnect** – national data sharing platform



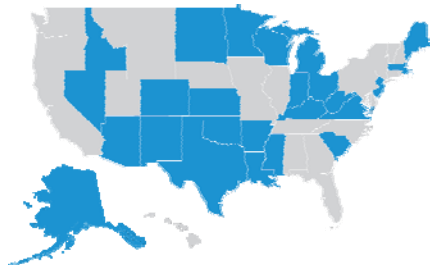
Provider of **PMP Gateway** – managed service for integration of real-time, multi-state data into health IT systems



# Appriss Health

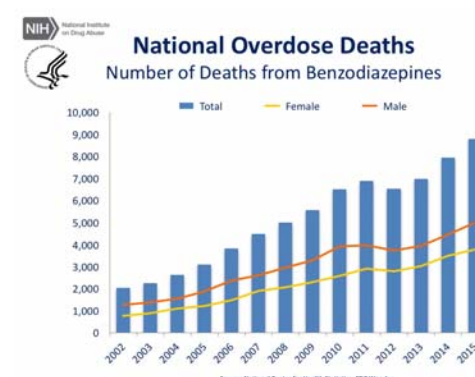
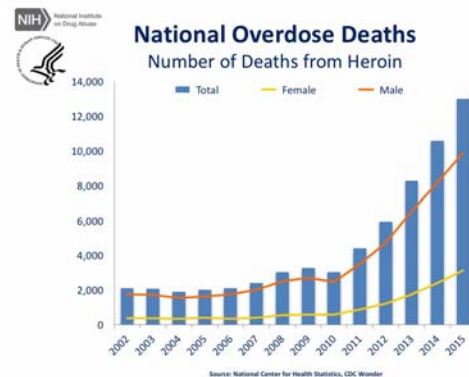
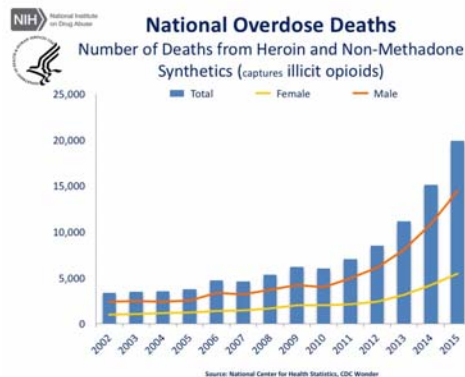
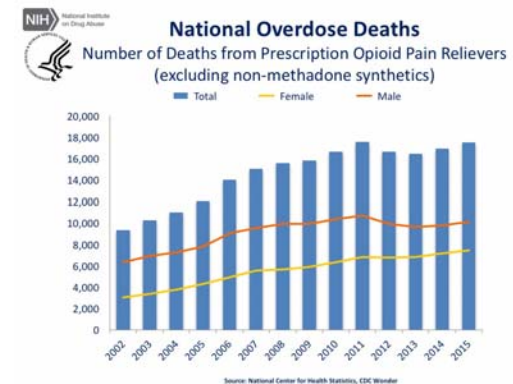
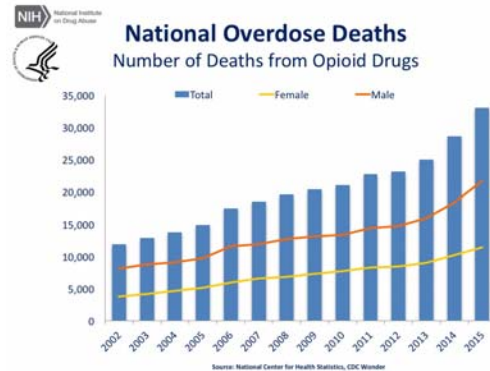
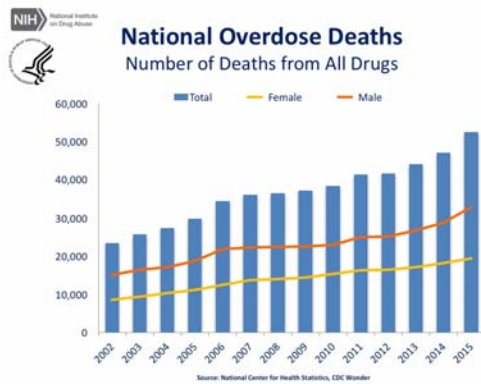


- **44 PDMPs** have agreed to share data
- **40 PDMPs** actively sharing
- **6 million** transactions per month



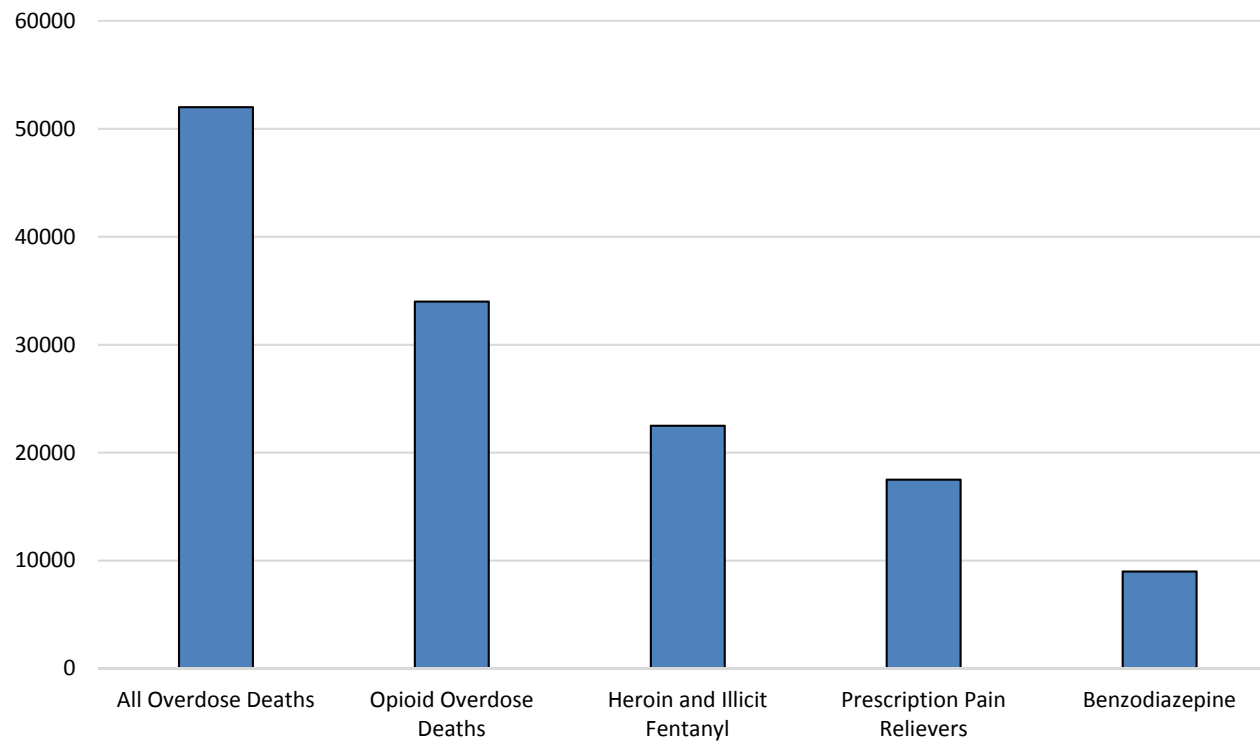
- Integrating multi-state data and analytics into workflow in **26 states** in real-time
- More than **1,000** Kroger pharmacies integrating multi-state data and analytics
- **18 million** transactions per month nationwide

# Substance Use and Opioid Trends



<https://www.drugabuse.gov/related-topics/trends-statistics/overdose-death-rates>

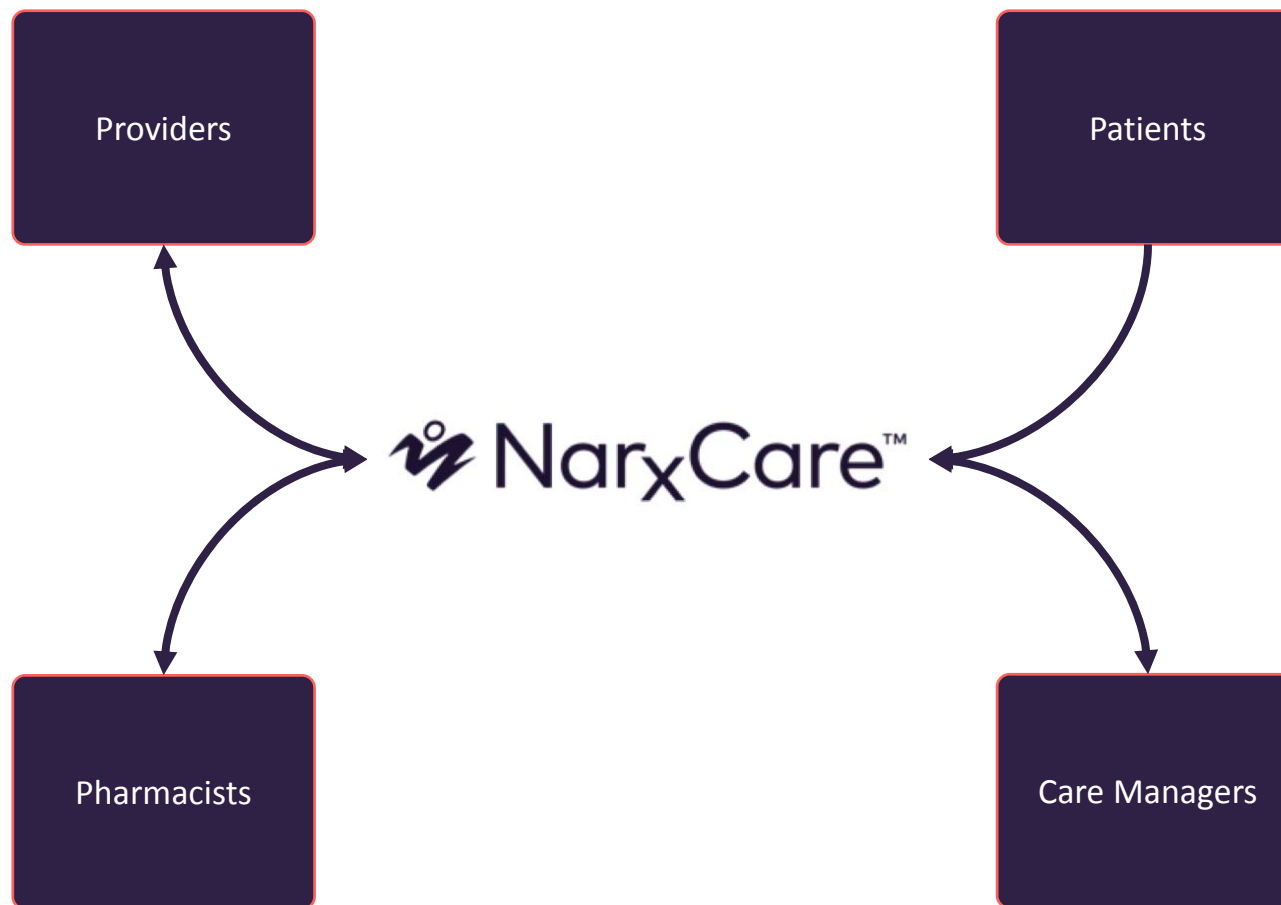
# Substance Use and Opioid Trends



## NarxCare Overview – What is it?

- NarxCare is a substance use disorder prevention and management platform that can be:
  - The default application for a state PDMP
  - Accessed with a single click from an EHR or pharmacy management system
  - Leveraged by care managers
- NarxCare supports three distinct user groups:
  - Provider
  - Patients
  - Care Teams
- NarxCare provides discrete SUD/PDMP data for incorporation into native EHR displays and decision support and includes:
  - Use scores, risk scores, alerts and more
- NarxCare is a care coordination platform that allows for P2P messaging, care notes, referrals – supporting the care of our highest at risk individuals

## NarxCare Overview – Bidirectional Information Flow





# NarxCare Overview – Application Interface

Menu > Patient Alerts (1) Messages (3)

RxSearch > Patient Request > Dorothy Sims

**Sims, Dorothy** age: 63F date: 03/17/2017 | [NARX REPORT](#) | [RESOURCES](#)

**Messages**

(12/18/2017 - 1120:15) – From OARRS Admin to Dr. Jim Huizenga: Patient suffered an overdose and recently received a prescription from you. Please review treatment history.

**Care Notes** [add note](#)

(12/22/2017 - 1340:19) – From Dr. Mike Spencer: Patient has a care plan in place. [Careplan\\_dsims.pdf](#)

**Risk Indicators**

<p><b>Narx Scores</b></p> <p><b>Narcotic</b>      <b>450</b></p> <p><b>Sedative</b>      <b>280</b></p> <p><b>Stimulant</b>      <b>000</b></p> <p style="font-size: small; text-align: center;">Explain these scores</p>	<p><b>Overdose Risk Score</b></p> <p style="text-align: center; font-size: 24px; font-weight: bold;">850</p> <p style="text-align: center; font-size: small;">(range 0-999)</p> <p style="text-align: center; font-size: small;">Explain the overdose risk score</p>	<p><b>Red Flags (3)</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">■</span> &gt;= 4 opioid or sedative dispensing pharmacies in any 90 day period in the last 2 years</li> <li><span style="color: red;">■</span> &gt;= 5 opioid or sedative providers in any year in the last 2 years</li> <li><span style="color: red;">■</span> Hx of heroin overdose (2)</li> </ul> <p style="text-align: center; font-size: small;">Explain these flags</p>
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**Rx and MME Graph**

Narcotic     Sedative     Stimulant

ALL PRESCRIBERS

Prescribers	09/21	2m	6m	1y	2y
5 - Jones, Angela					
4 - Garrett, Benjamin					
3 - Harvey, Eugene					
2 - Reid, Roger					
1 - Ward, Michelle					

Morphine MeEq/day

Per CDC guidance, the conversion factors and associated daily morphine milligram equivalents for drugs prescribed as part of medication-assisted treatment for opioid use disorder should not be used to benchmark against dosage thresholds meant for opioids prescribed for pain.

**Rx Data**

**Prescriptions**    Total Prescriptions: 24    Active MME: 0.00    Active MME/day: 0.00    30 Day Avg. MME/day: 1.00

Fill Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	MgEq	MgEq/Day	Pynt Type	PMP
04/02/2017	CLONAZEPAM 2 MG TABLET	270	90	Mi War	Kerr	1	1,080.00	-	Commercial PBM	OH
02/28/2017	HYDROCODON-ACETAMINOPHEN 5-500	30	5	Ro Rei	Rite A	0	150.00	30.00	Commercial PBM	OH

# NarxCare Overview – Provider (Clinical Decision) Support

- Use Scores
- Risk Scores
- Red Flags

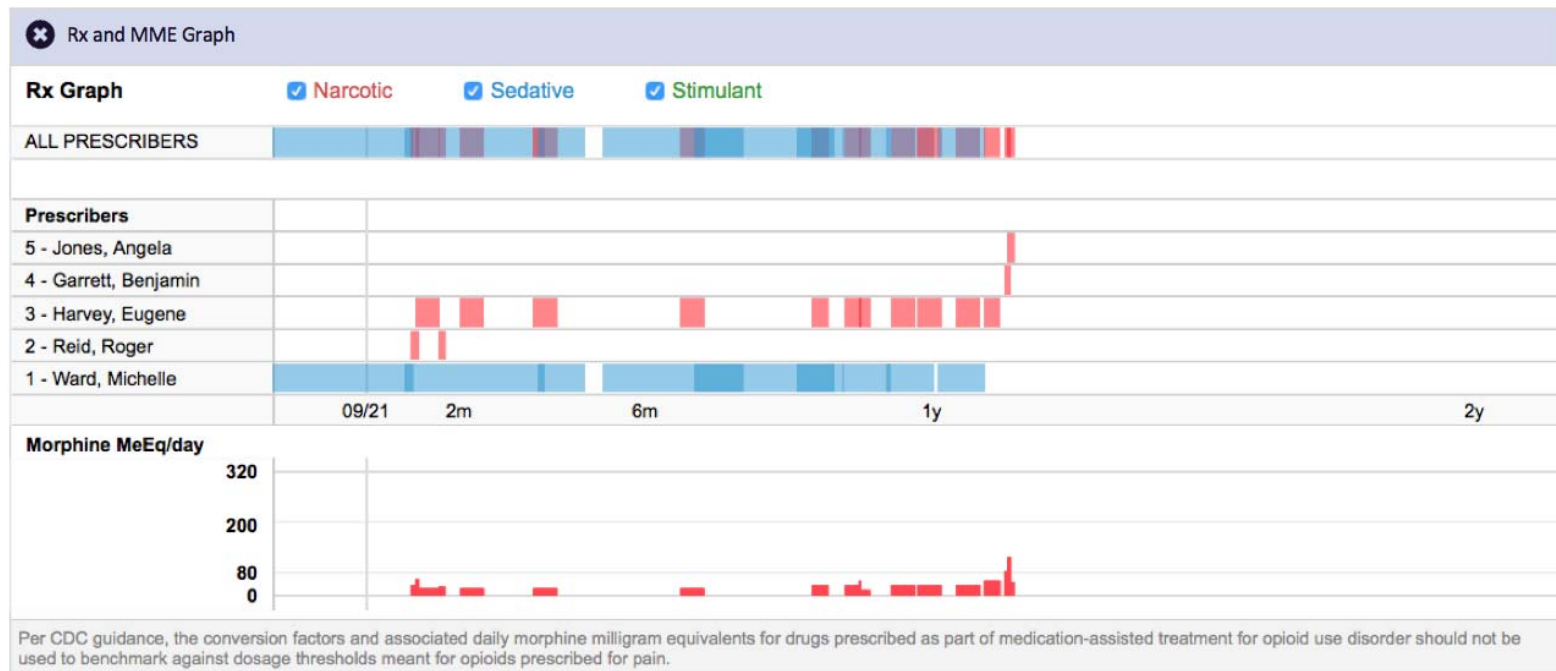
**Risk Indicators**

Narx Scores		Overdose Risk Score	Red Flags (3)
<b>Narcotic</b>	<b>450</b>	<p style="font-size: 24px; margin: 0;"><b>720</b></p> <p style="font-size: 12px; margin: 0;">(range 0-999)</p>	<p> <b>&gt;= 4</b> opioid or sedative dispensing pharmacies in any 90 day period in the last 2 years</p>
<b>Sedative</b>	<b>281</b>		<p> <b>&gt;= 5</b> opioid or sedative providers in any year in the last 2 years</p>
<b>Stimulant</b>	<b>000</b>		<p> Hx of heroin overdose (2)</p>
<a href="#">Explain these scores</a>		<a href="#">Explain the overdose risk score</a>	<a href="#">Explain these flags</a>

Cleanly integrating non-PDMP data

# NarxCare Overview – Provider (Clinical Decision) Support

## Data Visualization (Interactive)



**Rx Data**

**Prescriptions**    Total Prescriptions: 24    Active MME: 0.00    Active MME/day: 0.00    30 Day Avg. MME/day: 1.00

Fill Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	MgEq	MgEq/Day	Pymt Type	PMP
04/02/2017	CLONAZEPAM 2 MG TABLET	270	90	Mi War	Kerr	1	1,080.00	-	Commercial PBM	OH
02/28/2017	HYDROCODON-ACETAMINOPHEN 5-500	30	5	Ro Rei	Rite A	0	150.00	30.00	Commercial PBM	OH
02/15/2017	TRAMADOL HCL 50 MG TABLET	60	15	Eu Har	Meijer	2	300.00	20.00	Commercial PBM	OH

# NarxCare Overview – Provider (Clinical Decision) Support

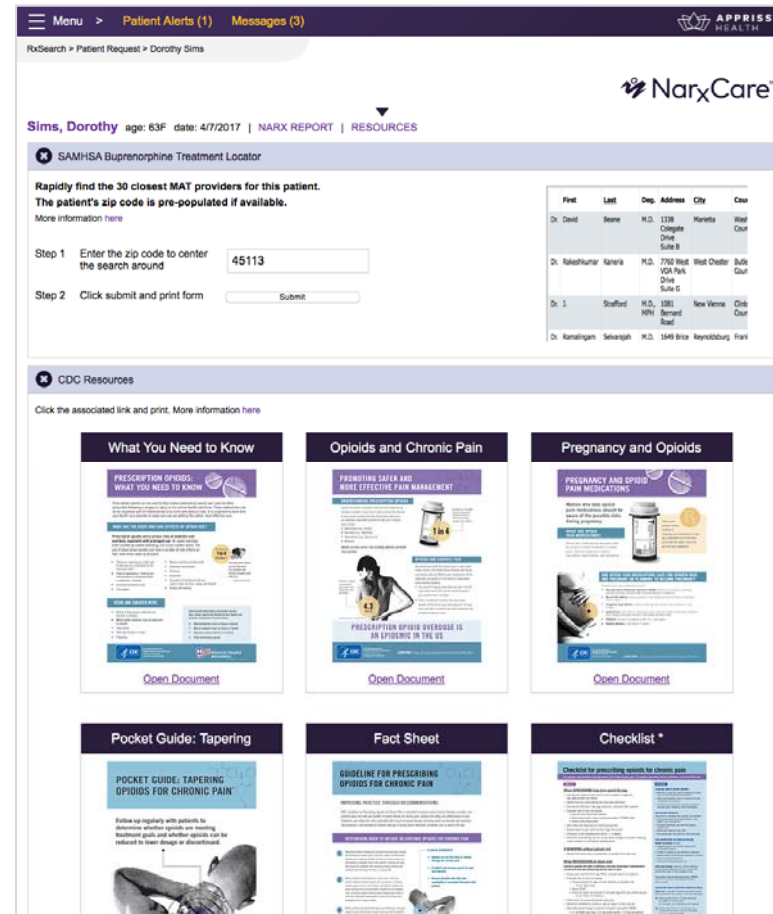
## Alerts

Alert! - Patient above 90 MME/day threshold as recommended by CDC, recommend reduction in opioid dose and consideration of pain management adjuncts. [source](#)

Alert! - Patient concurrently prescribed opioids and benzodiazepines, recommend medication review and consideration of alternative therapies. [source](#)

# NarxCare Overview – Patient Support

- Medicated Assisted Treatment locator driven off automatic zip code capture
- CDC Resources
- Will include additional functionality over time
- Can be swapped out or supplemented with state resources



The screenshot displays the NarxCare patient support interface. At the top, there is a navigation bar with 'Menu', 'Patient Alerts (1)', and 'Messages (3)'. Below this, the patient's name 'Sims, Dorothy' and age '63F' are shown, along with a date '4/7/2017' and links for 'NARX REPORT' and 'RESOURCES'. The main section is titled 'SAMHSA Buprenorphine Treatment Locator' and includes a search form with a zip code field containing '45113'. Below the search form is a table of nearby MAT providers.

First	Last	Dep.	Address	City	State
Dr. David	Beane	M.D.	1138 Copley Drive Suite B	Kanetta	West Coast
Dr. Subashumar	Kanara	M.D.	7702 West VGA Park Drive Suite G	West Chester	Delaware
Dr. J.	Stafford	M.D., RN	1381 Bernard Road	New Venna	Delaware
Dr. Karanigan	Sewers	M.D.	1949 Brice	Reynoldsburg	Ohio

Below the search form, there is a section for 'CDC Resources' with links to various documents:

- What You Need to Know
- Opioids and Chronic Pain
- Pregnancy and Opioids
- Pocket Guide: Tapering
- Fact Sheet
- Checklist \*

# NarxCare Overview – Patient Support (PEGGY)

Smith, Mike age: 44 date: 09/01/2016 [NARX REPORT](#) | [RESOURCES](#) | [PEGGY INVITE](#)

## What is Peggy?

Peggy is a mobile application that uses intelligent scripting through an SMS (texting) interface to automatically perform patient assessments using a CDC recommended PEG scale. The patient's responses are recorded on the Narx Report.

[watch video](#)

## How do I enroll a patient?

There are three different methods to enroll a patient:

1. Print a [personalized instruction sheet](#) and give it to the patient.

2. Send the patient an EMAIL invite

Email:

3. Send the patient a TEXT invite

Phone:

### FAQs

[Will this application SAVE OR ADD to my workload?](#)

[Can a patient communicate directly with me through the application?](#)

[Does the application make treatment recommendations?](#)

[Who can see the patient's PEG scores?](#)



- Artificially Intelligent application
- Patients easily enrolled via NarxCare
- Administers **PEG** Scale to start
  - **P**ain, **E**njoyment and **G**eneral activity graph placed on Narx Report
- Amazing opportunity to expand functionality:
  - “Amber” Alerts for mass overdose events
  - Unused medication disposal
  - Refined (AI-driven) risk assessment in real-time
  - Self-referral for MAT support
  - Peer counseling access

# NarxCare Overview – Care Team Support

## P2P Messages and Care Notes

- Just like email!

### Messages

(12/18/2017- 1120:15- From [Mike Spencer](#) to [Jim Huizenga](#): Patient suffered an overdose and recently received a prescription from you. Please review treatment history.

### Messages

(02/28/2017- 0420:19- From [Nancy Drew](#) to [Mike Roberts](#): Hello Mike. I took care of Dorothy Sims in the ED tonight and her family expressed concerns that she is running out of her medications early and buying additional meds off of the street. Thought you should know.

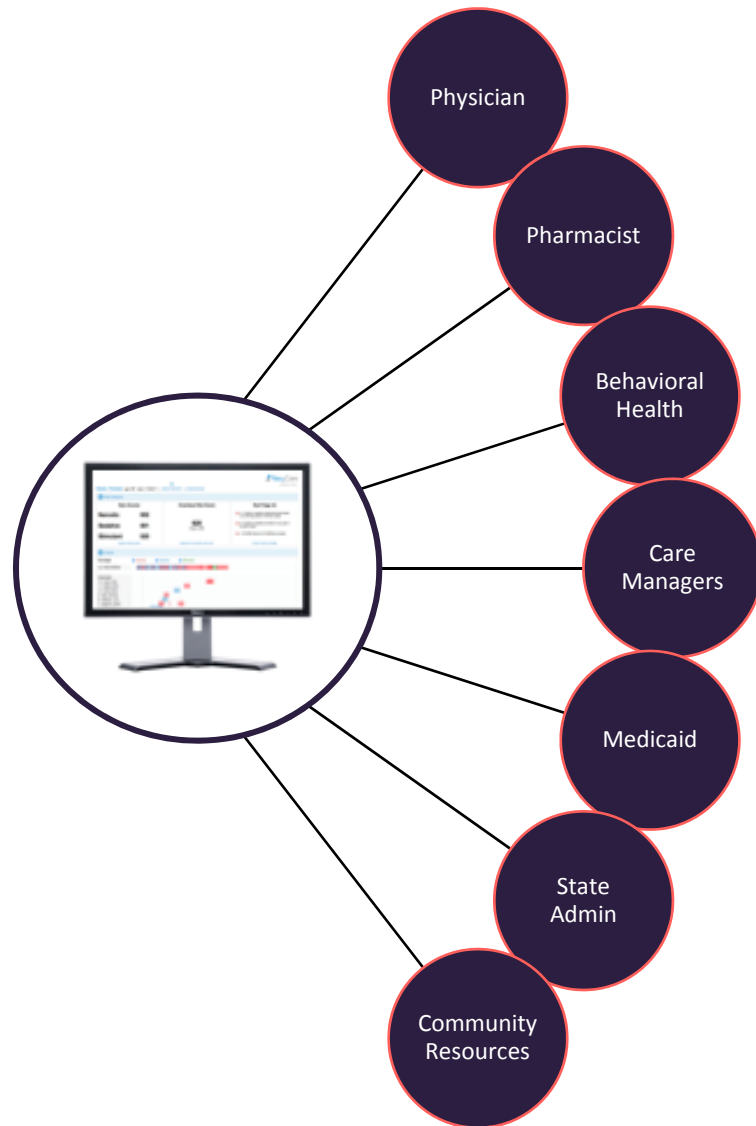
[See all...](#)

### Care Notes [add note](#)

(04/16/2017- 1740:32- From [Mike Roberts](#): Patient has an opioid care plan in place. Please review when caring for patient. [CarePlan\\_D\\_Sims.pdf](#)

[See all...](#)

# NarxCare Messaging and Care Notes



Direct and universal pipes into EHRs and pharmacy management systems are PINNACLE of care coordination

Ability to exchange messages, communications, alerts, documents and other content among all parties involved in patient care

- Care coordination
  - Referral into care management
  - Exchange of problem lists, goals, care plans, pain contracts and more
- Integration and coordination of primary care with behavioral health
- Coordination of community resources
- Communication to and from PDMP administrators
- Enhancement of Medicaid population health efforts



## NarxCare Overview – Comments from the Field

- Dr. Bruce Jones
  - BCEM, FACEP
  - Emergency Department Medical Director
  
- OhioHealth System
  - 12 hospitals
  - Central Ohio
  - Tertiary Hospital → community hospitals
  
- NarxCheck and NarxCare user for many years

## NarxCare Overview – Comments from the Field

- The old days
  - lots of reading
- Advent of PDMPs
  - helpful if you knew/suspected
  - cumbersome & timely
- NarxCare
  - Game changer!!
  - Largest advancement
  - EMR dashboard; increased transparency (MVA's, chest pain)
  - Better quality care on both ends
    - High score
    - Low score

## NarxCare Overview – Comments from the Field

- NarxCare
  - NarxCheck on steroids
  - Improves awareness
  - Real stats/percentages to patients
  - Fingertip resources

# Questions?



APPRISS HEALTH NarxCare

Sims, Dorothy age: 63F date: 03/17/2017 | NARX REPORT | RESOURCES

Messages  
 [12/18/2017 - 112015] - From OARRS Admin to Dr. Jim Hulseberg: Patient suffered an overdose and recently received a prescription from you. Please review treatment history.

Care Notes add note  
 [12/21/2017 - 134019] - From Dr. Mike Spencer: Patient has a care plan in place. Careplan\_dslms.pdf

Risk Indicators

<b>Narcotic</b>	<b>450</b>	<b>Overdose Risk Score</b> <b>850</b> (range 0-800)	<b>Red Flags (3)</b> 4 opioid or sedative dispensing pharmacies in any 90 day period in the last 2 years 5 opioid or sedative providers in any year in the last 2 years No of heroin overdoses (2)
<b>Sedative</b>	<b>280</b>		
<b>Stimulant</b>	<b>000</b>		

Rx and MME Graph

Rx Graph: ALL PRESCRIBERS (Narcotic, Sedative, Stimulant)

Prescribers:  
 5 - Jones, Angela  
 4 - Garrett, Benjamin  
 3 - Harvey, Eugene  
 2 - Reed, Roger  
 1 - Ward, Michele

Morphine MME/day graph showing peaks around 200-300 MME/day.

Prescriptions Table:

Fill Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	Mg/Day	Mg/Day	Pymt Type	PMH
04/02/2017	CLONAZEPAM 2 MG TABLET	270	90	MA War	Karr	1	1,080.00		Commercial PBM	GH
02/28/2017	HYDROCODONE/ACETAMINOPHEN 5-400	30	5	Rx/Rx	Rly A	0	180.00	30.00	Commercial PBM	GH

APPRISS HEALTH NarxCare

Prescription Spreadsheets

First	Last	Dep. Address	City	State	Zip
D. Sand	Steve	N.C. 1234	Charlotte	NC	28201
D. Sandhu	Amrita	N.C. 1234	Charlotte	NC	28201
D. S.	Shelton	N.C. 1234	New York	NY	10001
D. Sandhu	Srinivas	N.C. 1234	New York	NY	10001

Pregnancy and Opioids

PRESCRIPTION SPREADSHEET FOR CHRONIC PAIN

PRESCRIPTION SPREADSHEET FOR CHRONIC PAIN

PRESCRIPTION SPREADSHEET FOR CHRONIC PAIN

Pocket Guide: Tapering

Fact Sheet

Checklist

www.apprisshealth.com/narxcare