Opioid Risk Assessment:
Eating the Elephant One Bite at a Time

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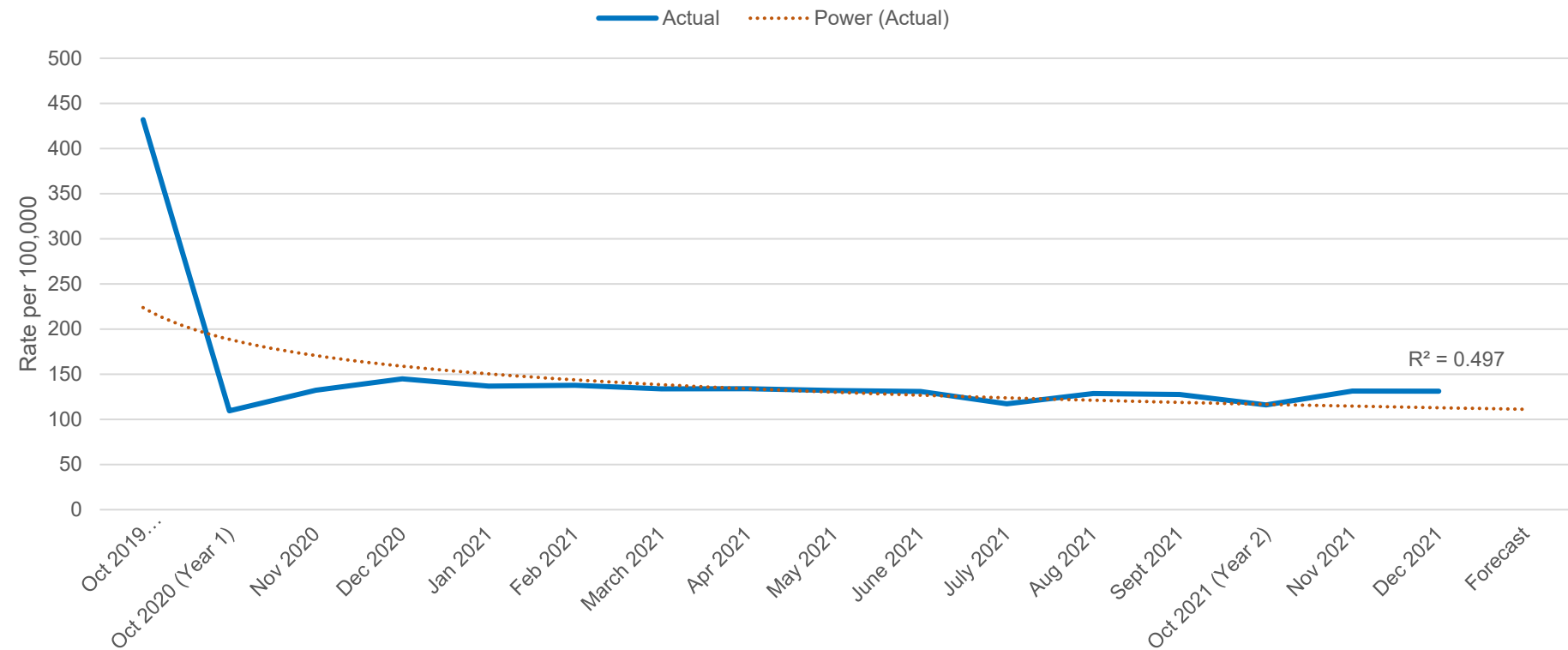Vice President, Pharmacy Informatics, CyncHealth

April 22, 2022

# Measure 1.1: Decrease opioid related overdose deaths by 7%

Numerator: Number of deaths with ICD-10 underlying cause-of-death codes X40–44 * 100,000

Denominator: Number of beneficiaries in target communities

	Baseline **Nov 2018 - Oct 2019**	**Year 1** **Nov 2019 - Oct 2020**	**Year 2** **Nov 2020 - Oct 2021**	**Latest Available Data** **Jan 2021 - Dec 2021**
Target	Baseline	0.5% Decrease	2% Decrease	4% Decrease
Threshold		429.92	423.44	414.80
Rate Per 100,000	432.08	109.52	116.15	131.33
Numerator	1805	521	566	603
Denominator	417746	475705	487314	459148

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Measure 1.1.3: Decrease opioid adverse events, including deaths, by 7% for Medicare FFS high-risk and behavioral health risk patients

R² = 0.4742
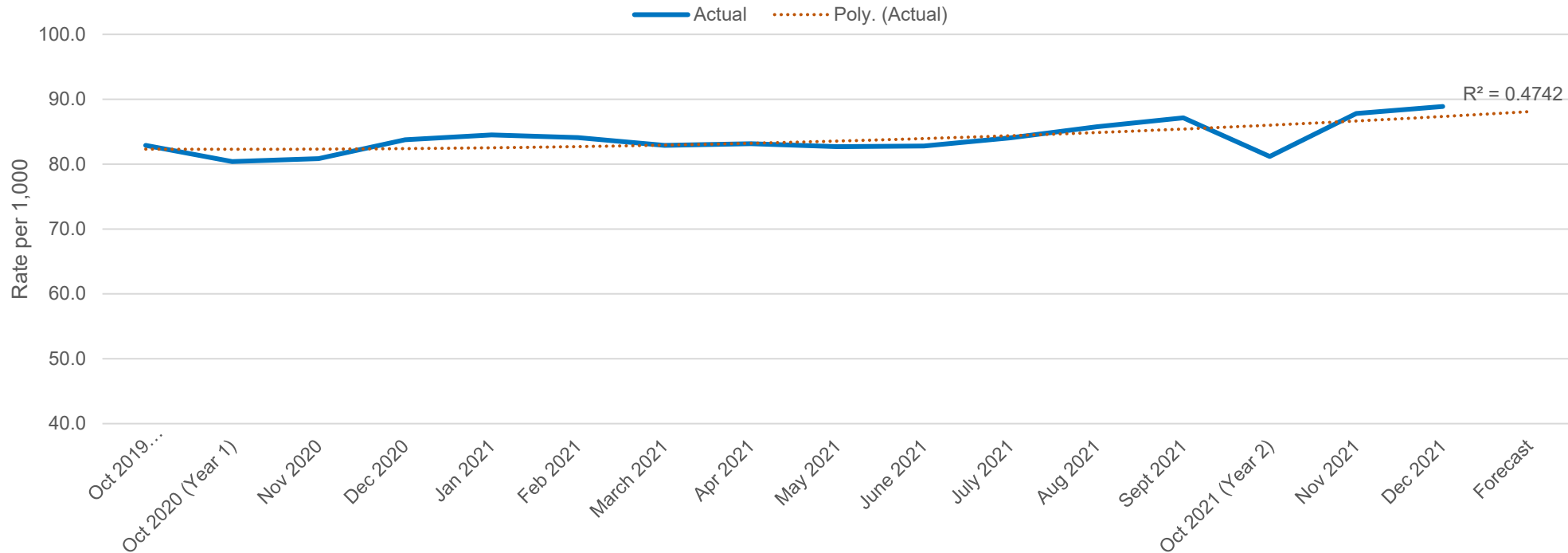
	Baseline Nov 2018 - Oct 2019	Year 1 Nov 2019 - Oct 2020	Year 2 Nov 2020 - Oct 2021	Latest Available Data Jan 2021 - Dec 2021
Numerator:	Utilization of ED, OBS and inpatient hospitals with ICD-10 codes indicating opioid adverse drug events by high-risk Medicare beneficiaries			
Denominator:	Number of high-risk Medicare beneficiaries *1000 person years			

	Baseline Nov 2018 - Oct 2019	Year 1 Nov 2019 - Oct 2020	Year 2 Nov 2020 - Oct 2021	Latest Available Data Jan 2021 - Dec 2021
Target	Baseline	0.5% Decrease	2% Decrease	4% Decrease
Threshold		85.97	84.67	82.94
Rate Per 1,000	86.40	80.44	81.19	88.89
Numerator	2735	2448	2103	2371
Denominator	31656	30431	25903	26674

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Series Learning Objectives

1. Understand the current status and trends of opioid use disorder (OUD) and substance use disorder (SUD)

2. Describe best practices for opioid risk assessments (ORA), including universal screening and harm reduction

3. Gain awareness of electronic health record (EHR)-related tools and resources for real-life application

4. Learn to leverage internal and external data to guide care and improve outcomes

5. Incorporate use of prescription drug monitoring programs/prescription drug programs (PDMPs/PMPs) for safe patient prescribing and prescriber self-assessment

Kevin Borcher, PharmD
Vice President, Pharmacy Informatics
CyncHealth

WHAT IS A PDMP?

A Prescription Drug Monitoring Program (PDMP) is an electronic database that tracks controlled substance prescriptions in a state.
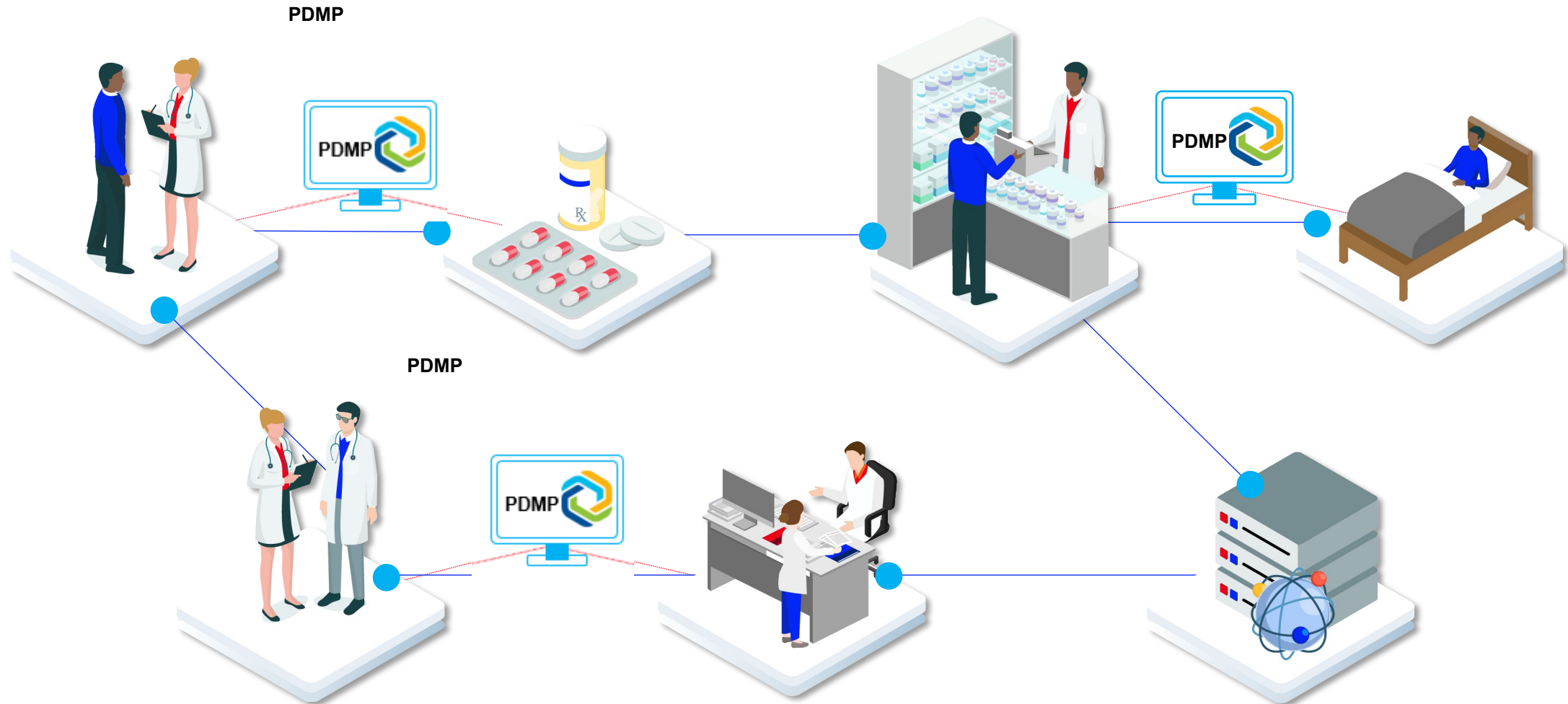
PDMP

Highlights

- Dispensers must submit data
- Dispensed controlled substances reported on at least a daily basis
- Providers and pharmacists can:
  - Access PDMP patient reports
  - Authorize delegates (designees)
- Patient safety tool

Functionality

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

DRUG OVERDOSE PREVENTION

PRESCRIPTION DRUG MONITORING PROGRAM

NEBRASKA
Good Life. Great Mission.
DEPT. OF HEALTH AND HUMAN SERVICES

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PDMP workflow process

PDMP

PDMP

Who Reports information to PDMPs?

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Pharmacies

In-state

Mail order

Nebraska VA

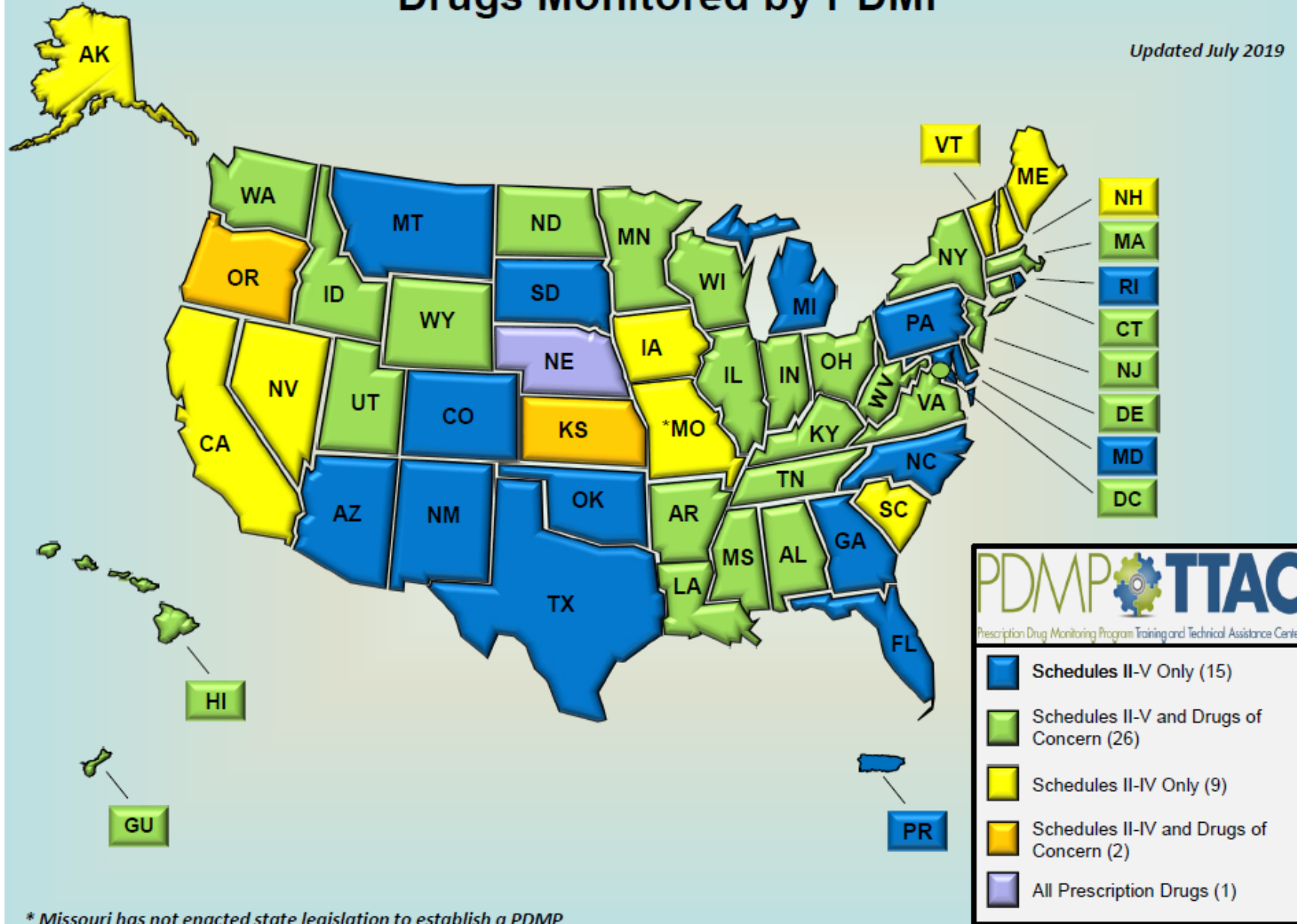**Physicians**

Veterinarians

Controlled substances only

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
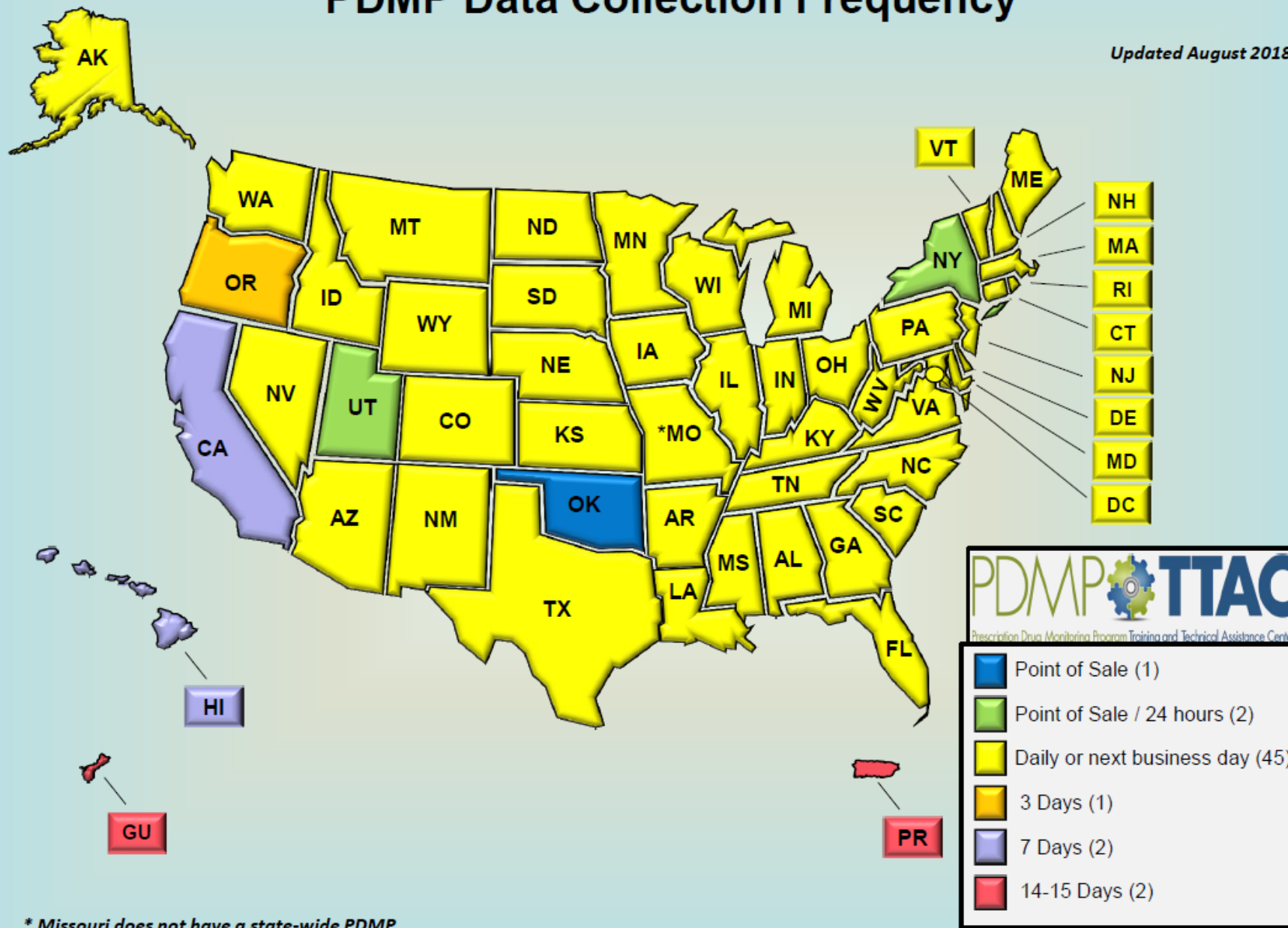- **Prescriber:** name, DEA/NPI

Drugs Monitored by PDMP

Updated July 2019

* Missouri has not enacted state legislation to establish a PDMP

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)

PDMP Data Collection Frequency

Updated August 2018

Legend:
- Point of Sale (1)
- Point of Sale / 24 hours (2)
- Daily or next business day (45)
- 3 Days (1)
- 7 Days (2)
- 14-15 Days (2)

* Missouri does not have a state-wide PDMP

Patient Queries – Clinical Safety Alerts

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Patient Information

Dispense Details | **Relationships**

Filter: 3 Months ▼

15.8	MME Assessment * 7 day average		11 👥 6 🏠	Multiple Provider Episodes * Last 6 Months		3	Overlapping Prescriptions * Last 45 Days

Drug Type

○ All   ● CDS   ○ Non-CDS

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
— 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)

MME Assessment

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Last Updated: Apr 4 2020 7:02PM

MME Assessment: Last 30 Days

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Total Prescriptions

Show Last 30 Days	Show Last 7 Days
24.5	0.0
Average MME Per Day	Average MME Per Day

MME Alert Drill-Down

DrugDetails and DispenseID
- ● Hydrocodone-Acetaminophen 7.5-300 MG TABS (ID:6103)
- ● Morphine Sulfate ER 30 MG TBCR (ID:6111)
- ● Vicodin 5-300 MG TABS (ID:6105)
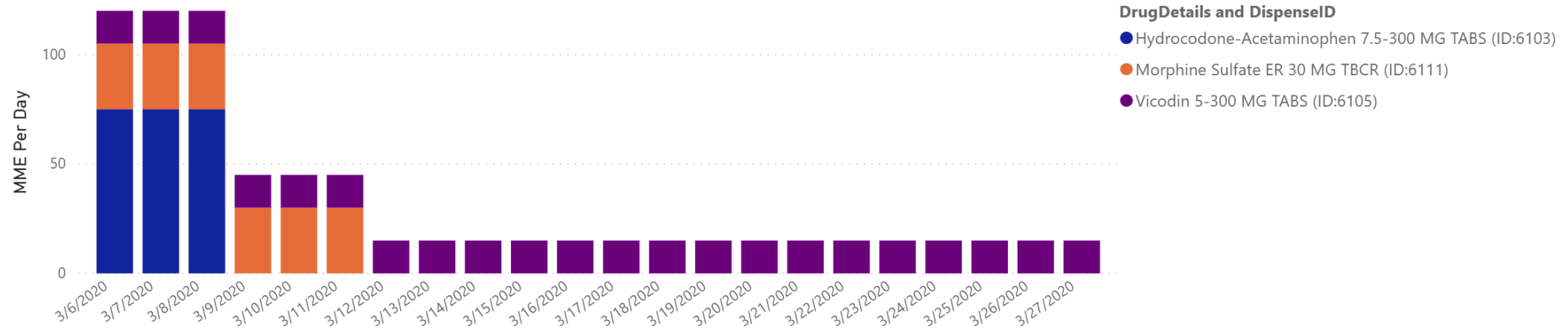
Drug Group	Drug Name	MME Per Day	Fill Date	Sold Date	Quantity Dispensed	Days Supply	Patient Full Name	Prescriber Full Name	Pharmacy
Opioids	Hydrocodone-Acetaminoph...	75.00	2/28/2020	2/28/2020	100	10	Wayne, Bruce	Grey, Meredith	Test Pharmacy
Opioids	Morphine Sulfate ER	30.00	2/27/2020	2/28/2020	14	14	Wayne, Bruce	Pierce, Hawkeye	Out Of Town Pharmacy
Opioids	Vicodin	15.00	2/27/2020	2/27/2020	90	30	Wayne, Bruce	House, Gregory	Hometown Pharmacy

Multiple Provider Episodes

Overlapping Opioid/Benzodiazepine

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Overlapping Prescriptions Alert

Last Updated Date : 4/3/2020 3:17:22 PM

Overlapping Therapy Alert : Last 45 Days

Click to RESET to all data ● Benzodiazepines ● Opioids
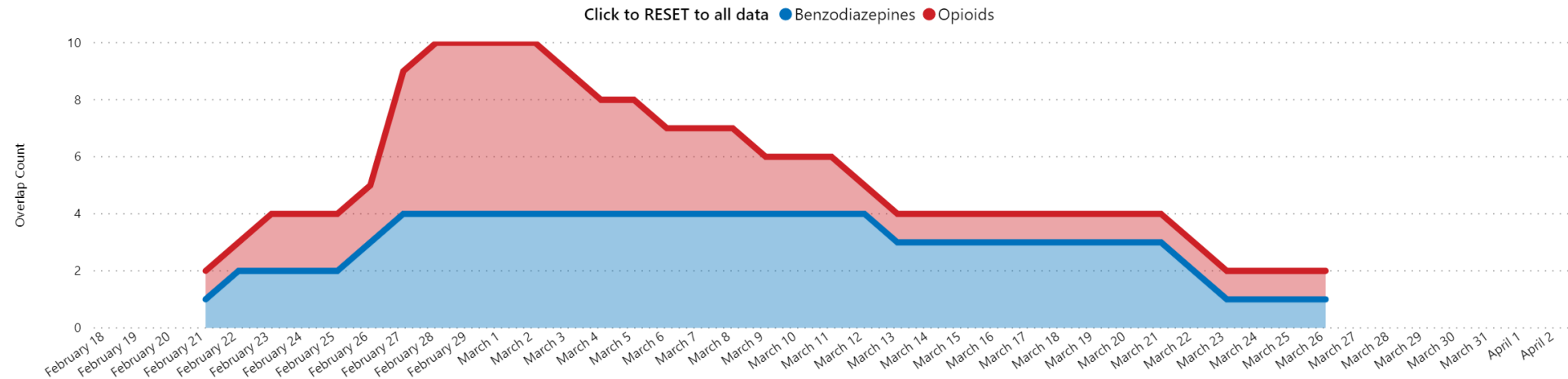
Overlapping Medications :

Category	Drug Name	Fill Start Date	Fill End Date	Sold Date	Days Supply	Quantity	Prescriber	Pharmacy
Benzodiazepines	ALPRAZolam	02/26/2020	03/26/2020	02/26/2020	30	90	Bailey, Miranda	Newbie Pharmacy
Benzodiazepines	ALPRAZolam	02/27/2020	03/12/2020	02/27/2020	15	15	Greene, Hershel	Perfect Pet Pharmacy
Benzodiazepines	Xanax XR	02/21/2020	03/21/2020		30	90	Welby, Marcus	Kevin's Pharmacy
Benzodiazepines	Xanax XR	02/22/2020	03/22/2020	02/23/2020	30	90	Rong-Bones, S.T.	Kevin's Pharmacy
Opioids	Hydrocodone-Acetaminophen	02/23/2020	03/03/2020		10	100	Howser, Doogie	Test Pharmacy
Opioids	Hydrocodone-Acetaminophen	02/28/2020	03/08/2020	02/28/2020	10	100	Grey, Meredith	Test Pharmacy
Opioids	Morphine Sulfate	02/15/2020	03/02/2020	02/15/2020	17	17	Potter, Sherman T	Test Pharmacy
Opioids	Morphine Sulfate ER	02/27/2020	03/11/2020	02/28/2020	14	14	Pierce, Hawkeye	Out Of Town Pharmacy
Opioids	OxyCODONE HCl	02/27/2020	03/05/2020	02/27/2020	8	50	Crusher, Beverly	Kevin's Pharmacy
Opioids	Vicodin	02/27/2020	03/27/2020	02/27/2020	30	90	House, Gregory	Hometown Pharmacy

Leaving in Action

Improving the way opioids are prescribed will ensure patients have access to safer, more effective chronic pain treatment while reducing opioid misuse, abuse, and overdose. Checking your state's PDMP is an important step in safer prescribing of these drugs.

WHEN SHOULD I CHECK THE PDMP?

State requirements vary, but CDC recommends checking at least once every 3 months and consider checking prior to every opioid prescription.

WHAT SHOULD I CONSIDER WHEN PRESCRIBING OPIOIDS?

High Dosage

Talk to your patient about the risks for respiratory depression and overdose. Consider offering to taper opioids as well as prescribing naloxone for patients taking 50 MME/day or more.

Multiple Providers

Counsel your patient and coordinate care with their other prescribers to improve safety and discuss the need to obtain opioids from a single provider. Check the PDMP regularly and consider tapering or discontinuation of opioids if pattern continues.

Drug Interactions

Whenever possible, avoid prescribing opioids and benzodiazepines concurrently. Communicate with other prescribers to prioritize patient goals and weigh risks of concurrent opioid and benzodiazepine use.

Questions?

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Thank you!