



# Prescription Drug Monitoring Program (PDMP) Overview and Strategy

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**RI PDMP**

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# RIDOH PDMP TEAM



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# RIDOH PDMP TEAM



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# RIDOH PDMP TEAM



**Special Thanks**  
**James McDonald**  
**MD, MPH**



# RI PDMP OVERVIEW

## Summary

- The Rhode Island PDMP collects data on all controlled substances (schedules II-V) and opioid agonist prescriptions that are dispensed by retail pharmacies with a controlled substance registration in Rhode Island or to Rhode Island residents.

## Data Availability

- Complete data exists from April 1, 2016 to present.
- Incomplete data exist from February 2010 to March 2016.
- 9,823 registered prescribers and delegates; 723 registered pharmacies; 1,431 registered pharmacists and delegates

## General Limitations

- This dataset only contains information for drugs that are dispensed, rather than all that are prescribed (24 hour required reporting period).
- Does not indicate if the medications were taken as prescribed.
- Does not capture in-office (as opposed to pharmacy) dispensed prescriptions (e.g. MAT)



# RI PDMP OVERVIEW

## Data Variables

Patient name, DOB, sex, address, payment type

- Prescriber name, ID
- Dispensing pharmacy name and address
- Dispenser name and ID
- Prescription information
  - Product name
  - National Drug Code (NDC)
  - Days supply
  - Refill count
  - Date written
  - Date filled
  - ICD-10 (International Classification of Disease) diagnosis code (as of 2020)



# RI PDMP OVERVIEW

## **Opioid-specific Data Variables**

- Prior opioid prescriptions
- Days on opioids
- Number of opioid prescriptions
- Provider Count
- Pharmacy Count
- Daily Morphine Milligram Equivalents (MME)
- Overlapping benzodiazepines and opioids
- Daily MME >100
- Active prescription at time of overdose



# RI PDMP SAMPLE

**Doe, John, 42M** [Refine Search](#)

[Contact the Bamboo Health Knowledge/Help Center](#)

Date of Birth:  
01/01/1980

Recent Address:  
101 Fake Street Providence, RI 02901

[View Linked Records \(2\)](#) ^

## Report Criteria

**First Name:** John  
**Last Name:** Doe  
**DOB:** 01/01/1980

## Linked Records

**Name:** John Doe  
**DOB:** 01/01/1980  
**ID:** 1  
**Gender:** Male  
**Address:** 101 Fake Street Providence, RI 02901

**Name:** John Doe  
**DOB:** 01/01/1980  
**ID:** 2  
**Gender:** Male  
**Address:** 101 Fake Street Providence, RI 02901

Report generated on **07/18/2022**. Report Date Range: 07/18/2019 - 07/18/2022

PDF Report

Share

Export v

## RX Summary

### Summary

Total Prescriptions	2
Total Private Pay	0
Total Prescribers	1
Total Pharmacies	1

### Opioids\* (excluding Buprenorphine)

Current Qty	0
Current MME/day	0.00
30 Day Avg MME/day	0.00

### Buprenorphine\*

Current Qty	0
Current mg/day	0.00
30 Day Avg mg/day	0.00



## Prescriptions

Total: 2 | Private Pay: 0

Showing 1-2 of 2 Items

View

15 Items

< 1 of 1 >

Filled	Drug	QTY	Days	Prescriber	Dispenser	PMP
09/27/2019	Oxycodone-Acetaminophen 5-325	360.00	30	Fa Doc	Rho (8953)	RI
09/07/2019	Oxycodone-Acetaminophen 5-325	30.00	30	Fa Doc	Rho (8953)	RI

[Disclaimer](#)

Showing 1-2 of 2 Items

View

15 Items

< 1 of 1 >

## Providers

Total: 1

Showing 1 Item

View

15 Items

< 1 of 1 >

Name	Address	City	State	Zipcode	Phone
Family Doctor					-

Showing 1 Item

View

15 Items

< 1 of 1 >

## Pharmacies

Total: 1

Showing 1 Item

View

15 Items

< 1 of 1 >

Name	Address	City	State	Zipcode	Phone
Rhode Island Pharmacy (8953)	1234 Rd	Providence	RI	02901	-

Showing 1 Item

View

15 Items

< 1 of 1 >



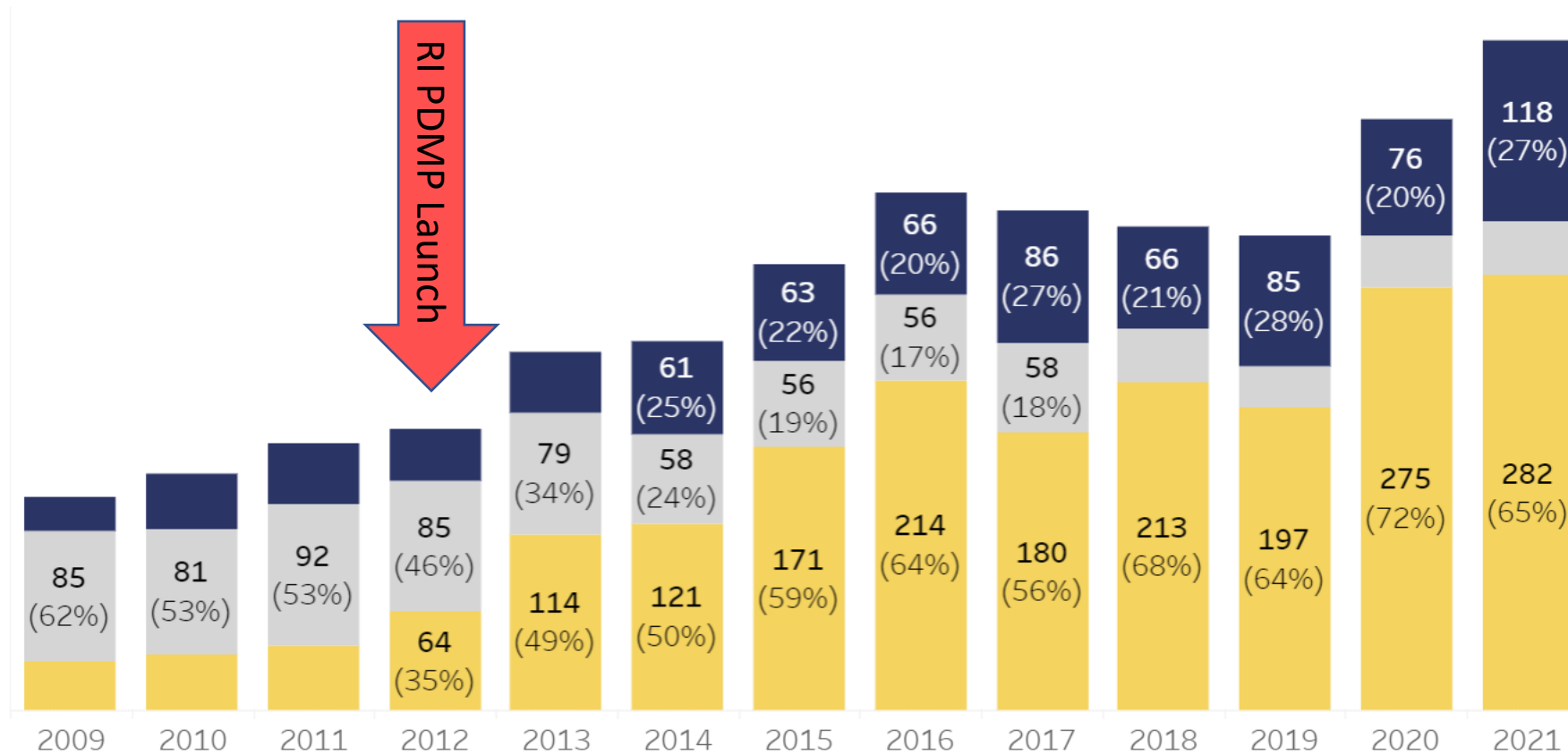
# RI PDMP MILESTONES

- 2012: Prescription Drug Monitoring Program (PDMP) established in Rhode Island
- 2014: Law passed requiring all practitioners who hold an active Controlled Substance Registration (CSR) to register for the PDMP.
- 2016: All practitioners automatically registered within the PDMP.
- 2019: Bureau of Justice Assistance (BJA) grant awarded to RIDOH
  - \$2M over 3 years
- 2020: RI requires ICD-10 codes for all controlled substance prescriptions.
- 2022: Launch of Prescriber Report module



# PDMP AND OPIOID DATA

Overdose Deaths by **Drug Type**, 2009 to 2021



Note: Data updated biannually

Note: Counts may not add to annual totals due to missing case information

Note: Prescription medications include prescription opioids such as oxycodone, hydrocodone, and benzodiazepines. Illicit drugs include substances such as heroin, illicit fentanyl, and cocaine.

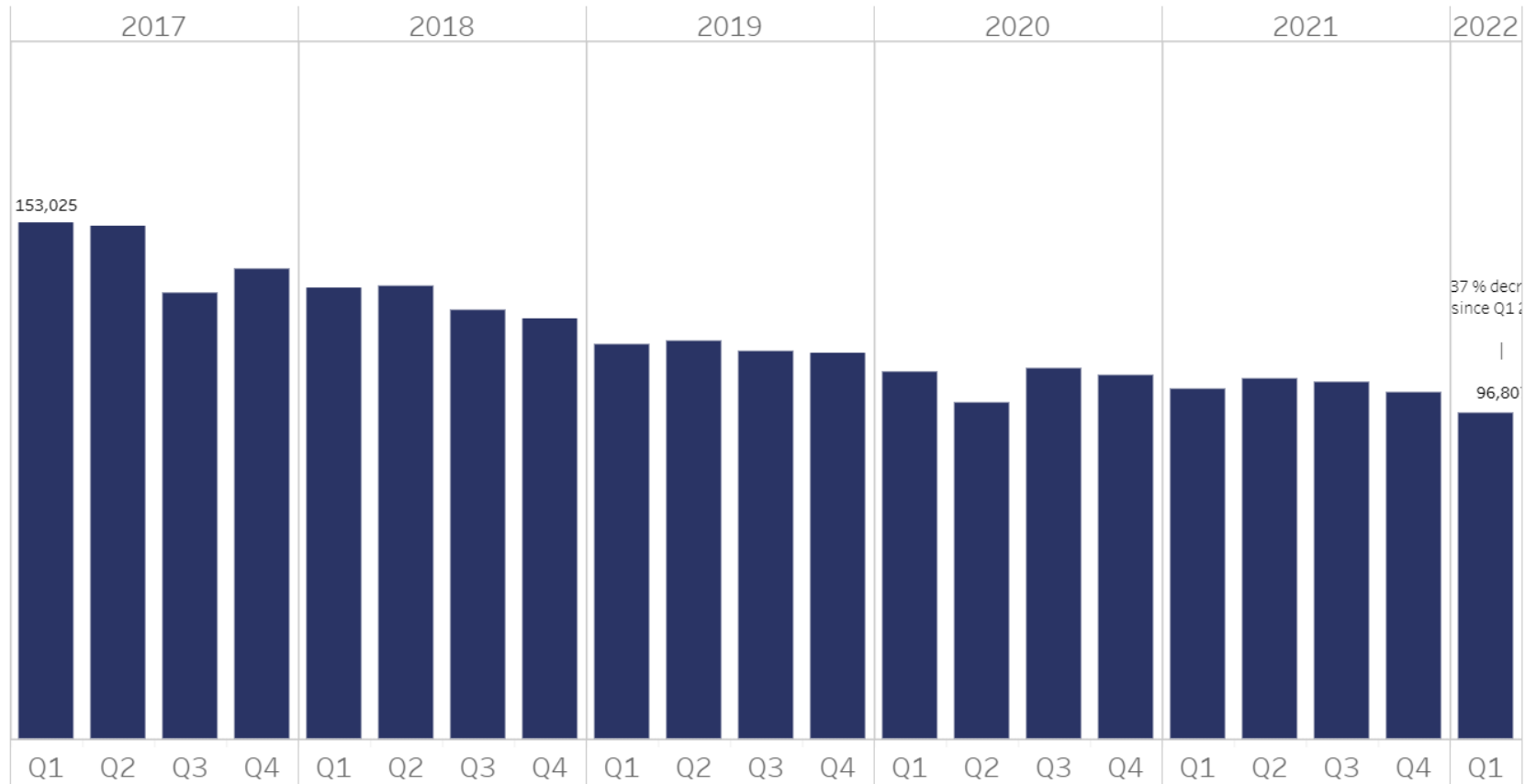
■ Combination      ■ Prescription Drugs      ■ Illicit Drugs

Source: Prevent Overdose RI



# PDMP AND OPIOID DATA

Number of Opioid Prescriptions Dispensed, 2017 to 2022



**Note:** Data updated quarterly

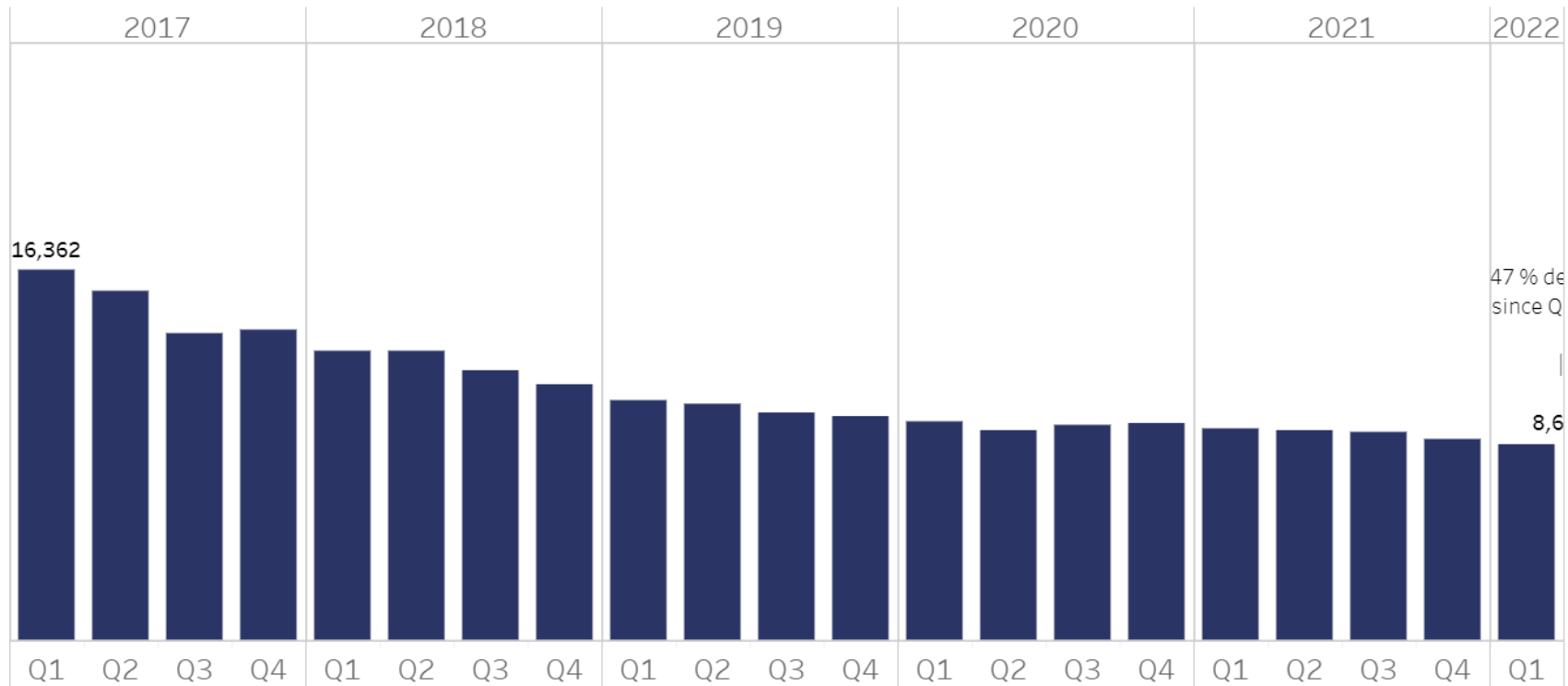
**Note:** Prescriptions for buprenorphine medication-assisted treatment for opioid use disorder are excluded from this measure.

**Note:** On November 1, 2019, the PDMP data were revised to reflect updates to the PDMP data analysis protocol, including revised methods for removing veterinary prescriptions, matching patients, and querying drug types.



# PDMP AND OPIOID DATA

## Number of People Prescribed Overlapping Opioid and Benzodiazepine Prescriptions, 2017 to 2022



**Note:** Data updated quarterly

**Note:** On November 1, 2019, the PDMP data were revised to reflect updates to the PDMP data analysis protocol, including revised methods for removing veterinary prescriptions, matching patients, and querying drug types.

**Note:** Prescriptions for buprenorphine medication-assisted treatment for opioid use disorder are excluded from this measure.

**Note:** Data for overlapping opioid and benzodiazepine prescriptions are calculated differently by year or by quarter. Summing this quarterly data gives a higher number of people than the yearly prevention strategy metric on the Track Our Action Plan data page.



# PDMP PRESCRIBER REPORTS

Sample State

## Prescription Monitoring Program PMP Prescriber Report



Date: 9/3/2019  
Name: Sample Provider  
Role: Physician

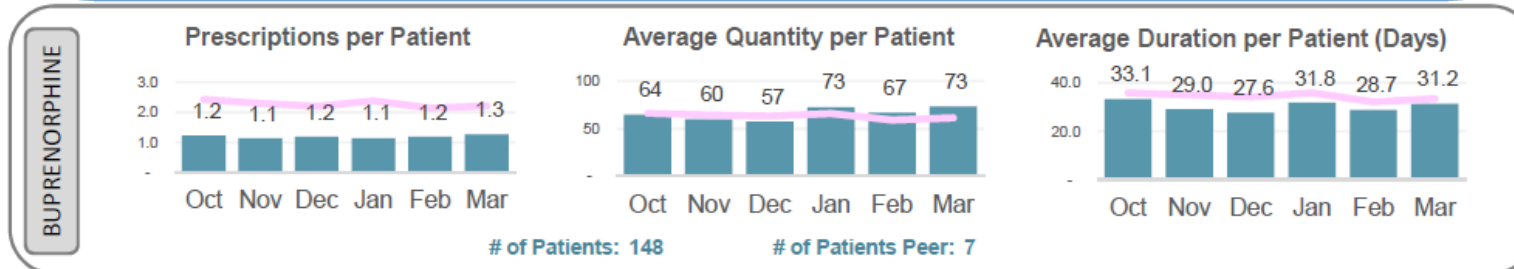
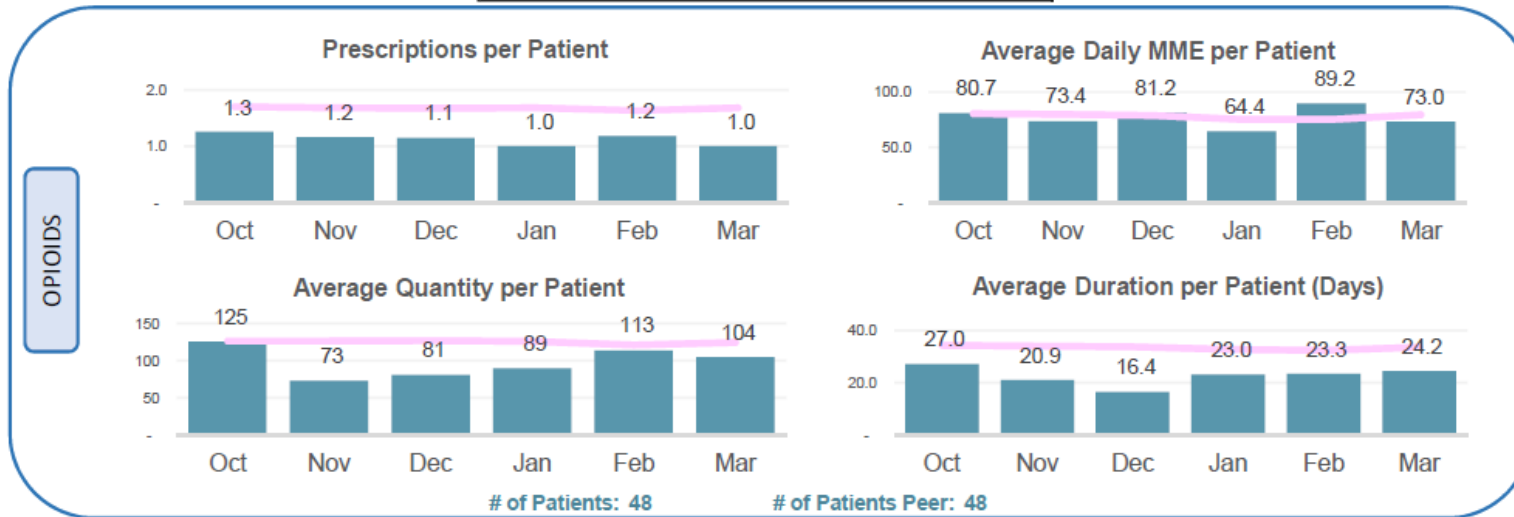
Date Covered by this Report: 10/01/2018 - 03/31/2019  
DEA #: ZZ1234567  
Specialty: Sample Specialty

Total Prescribers Within  
Your Specialty:  
1,254

### TOP MEDICATIONS PRESCRIBED

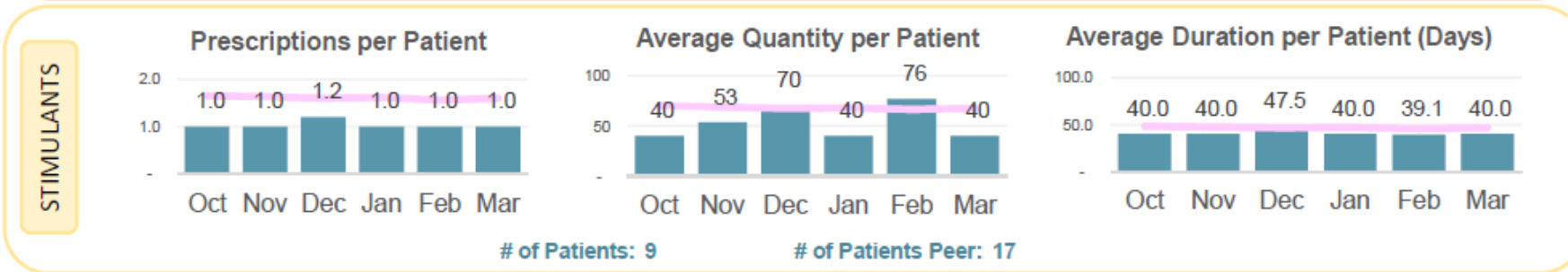
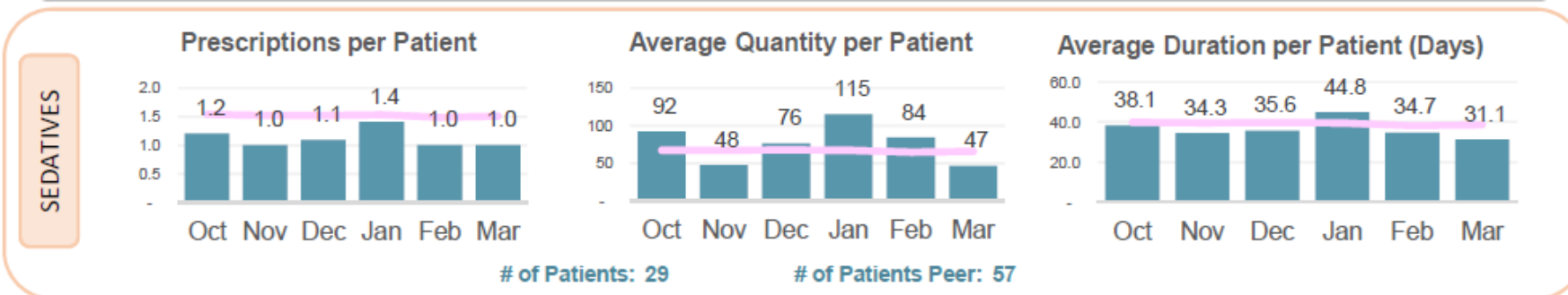
buprenorphine HCl/naloxone HCl	oxycodone HCl	gabapentin
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■ You    ✓ Peer Specialty Comparison





# PDMP PRESCRIBER REPORTS



**AT-RISK PATIENTS**

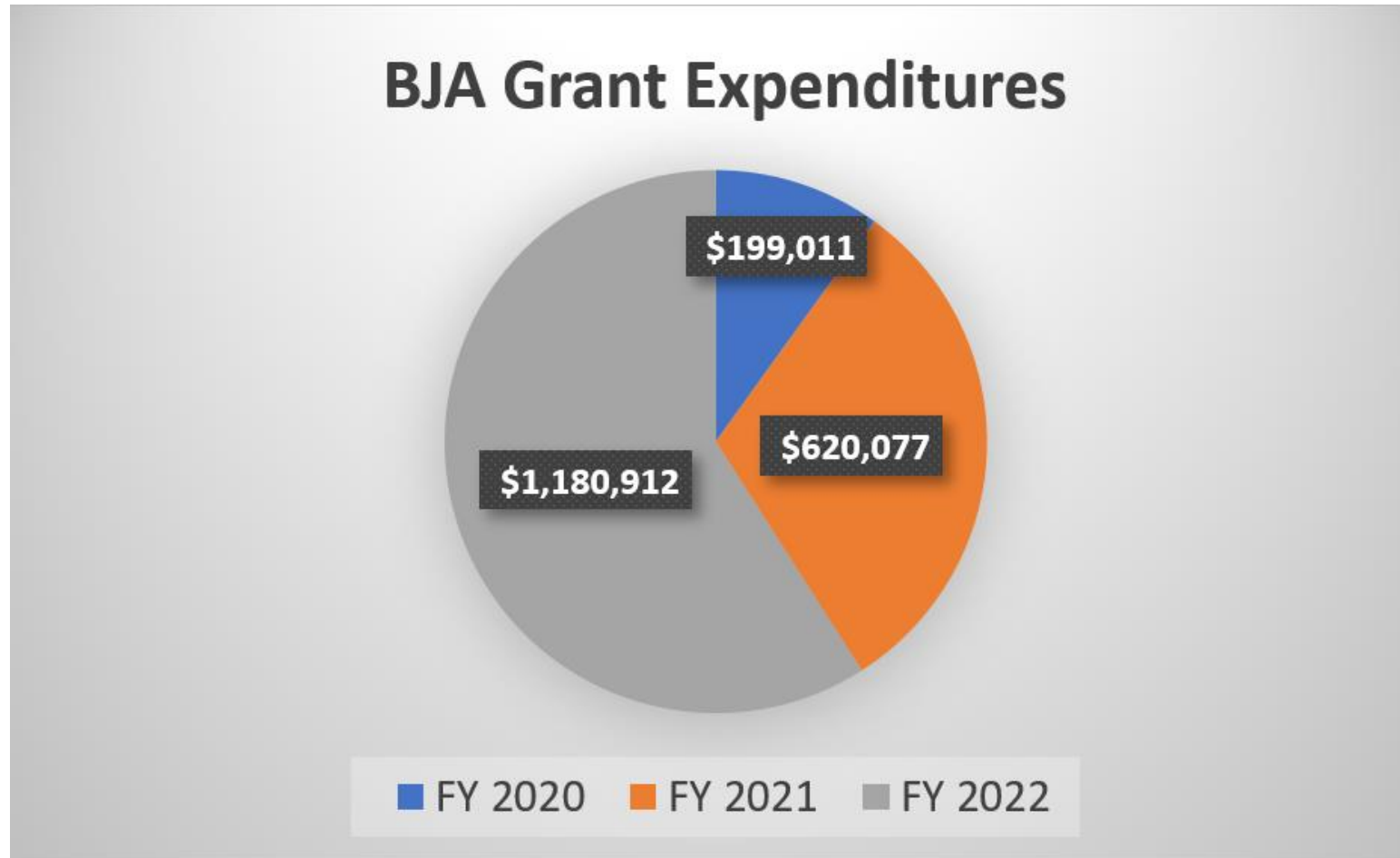
	Dangerous Combination	Multiple Providers
Benzo + Opioid	9 You	15 You + Other Prescribers
Benzo + Opioid + Carisoprodol	0 You	0 You + Other Prescribers
		Patients with 5 or more Prescribers 4
		Patients with 5 or more Pharmacies 3
		Patients Receiving Daily MME >= 90 7
		Patients Receiving Daily MME >= 120 3

**PDMP USAGE**

Patient Searches by You 104	Patient Searches by Your Delegate(s) 592	Your Total Patient Searches 696
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# PDMP FUNDING AND SUSTAINABILITY



BJA FY19 Grant \$2,000,000 → BJA FY22 Grant \$1,400,000





# PDMP FUNDING AND SUSTAINABILITY – BJA FY22 Grant

Goal 1: Develop PDMP upgrades in pursuit of Medicaid Enterprise Systems (MES) certification

Goal	Objective	Deliverable	Year 1				Year 2				Year 3			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Develop PDMP upgrades in pursuit of MES Certification	Achieve MES Certification status	Finalize action plan for MES Certification	X	X										
		Demonstrate Qualified PDMP status			X	X								
	Secure Medicaid Match Funding	Receive notice of Medicaid match funding						X						
		Complete MES Certification								X				
	Ensure ongoing sustainability of PDMP operation	Create continued sustainability plan									X	X	X	X









# PDMP ADDITIONAL ANALYTICS

## **PharmD Academic Detailing (PhAD) Project**

Geographical analysis of prescribing data to identify target population

- **ICD-10 Codes Project**

- Identify diagnoses associated with elevated rates of prolonged opioid use overall

## **Buprenorphine Manuscript**

Identify patients who newly initiated buprenorphine treatment for OUD

Identify patient and prescribing factors that impact long-term treatment retention

## **Pharmacy Utilization Project**

Examined PDMP utilization by RI pharmacists, factors that affect determination of PDMP utilization, barriers to utilization, and dispensing practices of controlled substance prescriptions after utilization



# PDMP ADDITIONAL ANALYTICS

## **PDMP Annual Report**

Examine prescribing patterns for opioids, benzodiazepines, and stimulants

## **Identifying optimal Buprenorphine Dosing**

Examine buprenorphine dose among patients starting buprenorphine treatment to identify whether differences exist among long-term treatment engagement and health outcomes based on doses.

## **Predicting overdose risk**

Examine whether specific demographic or prescription characteristics predict overdose risk (link to fatal overdose data)

## **Prescriber Reports**

Examine utilization and effect on prescribing behavior



**THANK YOU!**  
**QUESTIONS/COMMENTS?**