



South Carolina Department of Health and Environmental Control

Prescription Monitoring Program Bureau of Drug Control

Objectives:

- Review South Carolina's Prescription Monitoring Program (SC PMP)
- Describe the architecture of an integration with SC PMP
- Discuss the impact of integration on PMP usage
- Describe the benefits of technology to providers

WHAT IS SCRIPTS?

- **C II- CIV** prescriptions dispensed in SC are uploaded daily by the dispensing pharmacy/practitioner to Appriss (our vendor).
- An authorized user (practitioner/pharmacist/delegate) logs into the **SCRIPTS** database and queries their patient.
- The practitioner/pharmacist uses the **SCRIPTS** report to make informed healthcare decisions. The user will verify any data on the report, if necessary.

SCRIPTS features:

- Over 60 million records in SCRIPTS
- MED (MME) on SCRIPTS patient report
- Patient summary at top of SCRIPTS report
- Prescriber can look up their own prescribing history (My RX)
- Access data from 34 other states

Appropriate uses of SCRIPTS

- New patient encounter
- Monitoring compliance
- Avoiding therapeutic duplication or drug interactions
- Coordination of care

8 Evidence Based Practices*: Increasing prescriber utilization of PDMPs

1. **Prescriber use mandates:** Requiring a prescriber to view a patient's PDMP data
2. **Delegation:** Allowing prescribers to designate someone on staff
3. **Unsolicited reports:** Proactively sending communications from PDMP staff
4. **Data timeliness:** Uploading information into the database
5. **Streamlined enrollment:** instituting automatic PDMP registration
6. **Educational and promotional initiatives:** to promote the program, including prescriber training
7. **Health information technology (IT) integration:** Combining PDMP data with other data
8. **Enhanced user interfaces:** Implementing user-friendly technologies

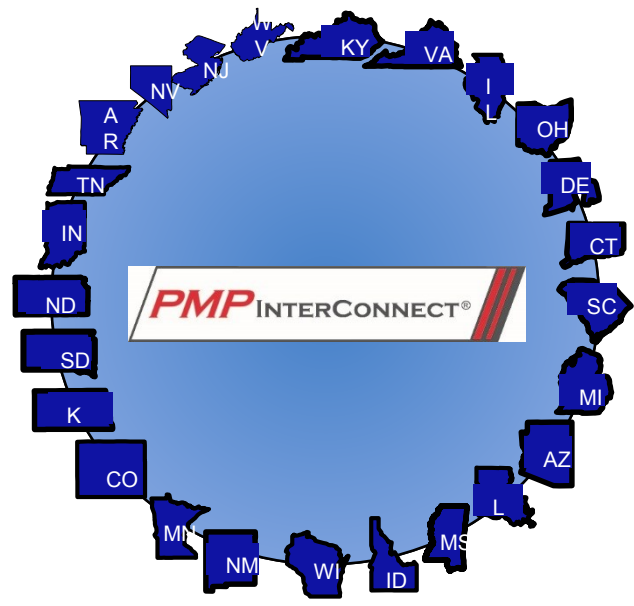
Our Goal

Place prescription monitoring data into the clinical workflow of prescribers and pharmacists in an effort to improve medical care in SC.

- In 2012 South Carolina joined the PMP InterConnect to facilitate interoperability and interstate data sharing between state PMPs.
- Currently sharing data with 34 states.



PMP Gateway: A Health IT Connectivity Platform for PMP Data



Pharmacists



Prescribers



Health Exchanges

PMP/EHR INTEGRATION

- PMP tab within EHR
 - bypass extra sign on
 - stay within clinical workflow
 - no need to enter patient information

- Patient name works off exact match
 - might not return all results
 - Use PMP Aware for further research

Facilities Currently Integrated

1. Palmetto Health
2. Lexington Medical Center
3. MUSC
4. Doctors Care
5. Kroger
6. Rx Care Plus Pharmacies
7. SCHIEx- for DMH
8. GHS - agreement

SCRIPTS USERS ACCOUNTS

2009 :	619 Prescribers	324 Pharmacists	= 943 Total
2012:	3,058 Prescribers	784 Pharmacists	= 3,842 Total
2014:	3,666 Prescribers	1,827 Pharmacists	= 5,493 Total
2015:	4,512 Prescribers	2,506 Pharmacists	= 7,018 Total
2016:	10,738 Prescribers	3,202 Pharmacists	= 13,940 Total
2017:	15,146 Prescribers	3,907 Pharmacists	= 19,053 Total

South Carolina's Integrations (2016)

Practitioners accessing PMP through Aware: 7,136

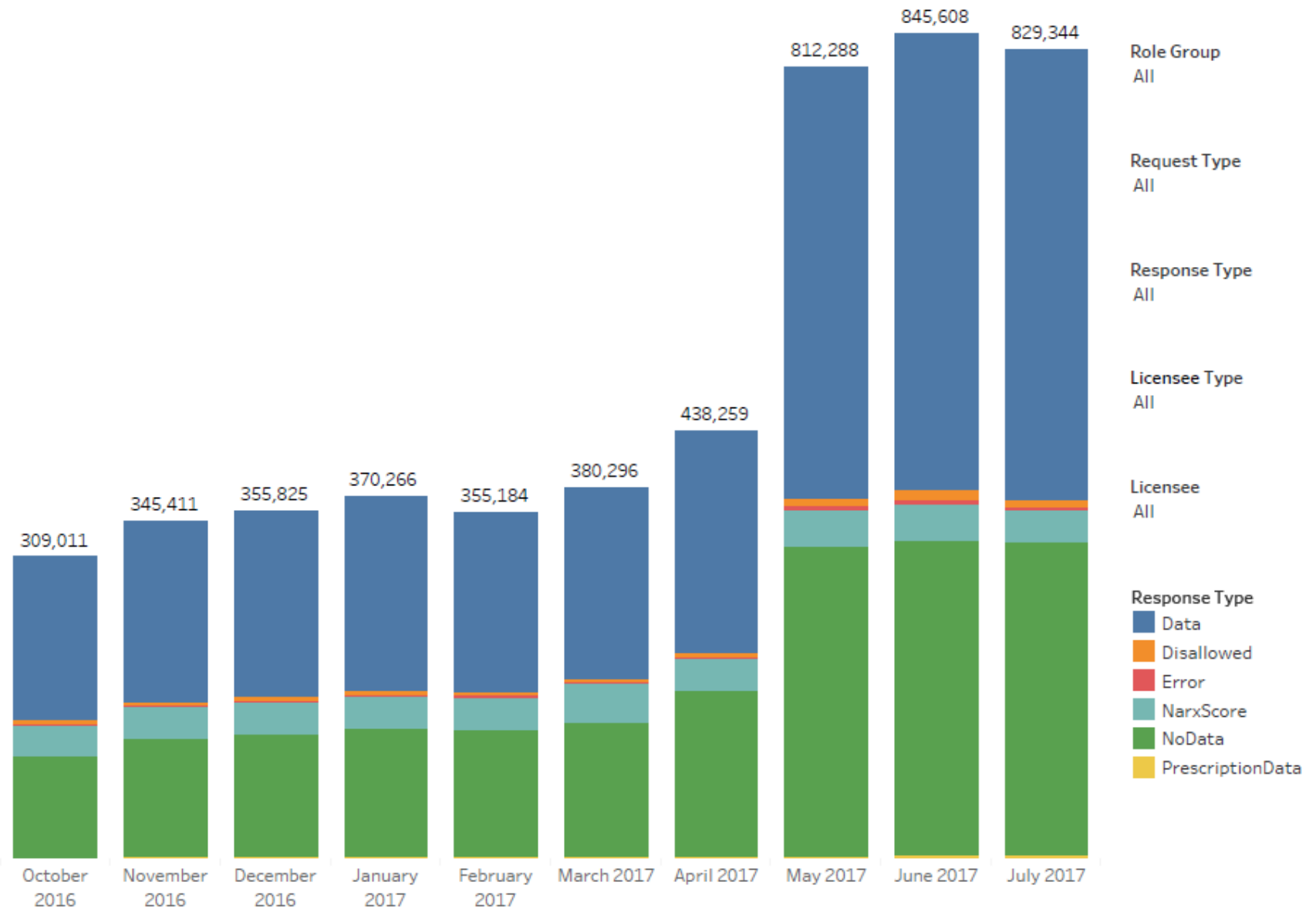
Practitioners accessing PMP through Gateway: 685

Prescription Searches through Aware vs Gateway:

Aware: 2,612,483

Gateway: 2,212,051

PDMP Integration Request/Responses by Response Type





Contact Us

Christie Frick, RPh, PMP Director

Tracie Paschall, CPhT, Program Coordinator

803-896-0688

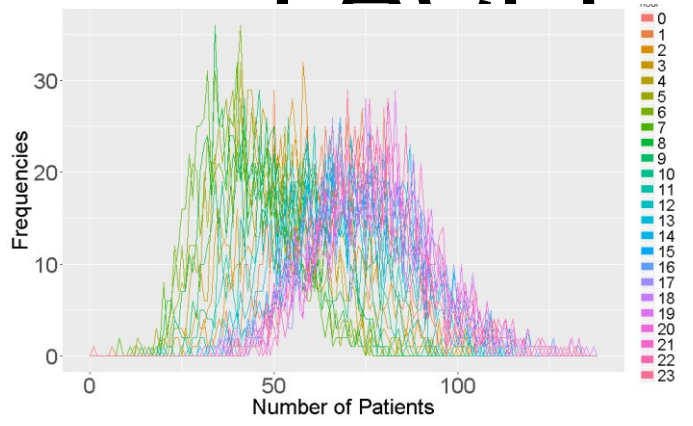
scripts@dhec.sc.gov

www.dhec.sc.gov/scripts



Tripp Jennings, MD, FACCFP

Informatics
ValueBased
ClinicalUtilization
EmergencyMedicine
Strategy Payor Policy
BusinessIntelligence
DataAnalytics
Healthcare
Telehealth



Emergency







- Menu
- Emergency View
- Results Review
- Diagnosis and Problems
- Orders + Add
- Documentation + Add
- Allergies + Add
- Exchange - HIE View
- Histories
- Immunizations
- MAR Summary
- Medications + Add
- Notes
- Form Browser
- Patient Information
- Transcription

100% [Icons]

ED Summary X Quick Orders - ED X Workflow X Discharge X + [Icons]

Triage Documentation

Selected visit

No results found

Patient Information

Primary Physician:	No results found
Admitting Physician:	No results found
Last Visit:	No results found
▶ Emergency Contact (0)	

CSSRS Score & General Info (0)

Selected visit

No results found

Measurements and Weights (0)

Visits (1)

Procedure History (0)

All Visits

No results found

Consolidated Problems

All Visits

Classification: All

Prescription Drug Monitoring (PMP) Last 2 years

Disclaimer: PMP Gateway, NARxCHECK, and NarxCare rely upon data provided by state P...

000	000	000
Narcotics	Sedatives	Stimulants

View Drug Report

Vital Signs +

Last 48 hours for all visits

No results found

VisualDx

Selected Visit

visualdx Differential Builder

Search VisualDx

This is not a complete list of patient information. Only values with VisualDx links are shown.

Dx Diagnoses (0)

Medications (0)

Medications +

Last 24 hours for all visits

- ▲ Scheduled (0)
- ▲ Continuous (0)
- ▲ PRN/Unscheduled Available (0)
- ▶ Administered (0) Last 24 hours
- ▲ Suspended (0)
- ▶ Discontinued (0) Last 24 hours

Outstanding Orders (0)

Last 48 hours for the selected visit

No results found

Diagnostics (0)

Last 1 months for all visits

No results found

New Order Entry +

Inpatient Discharge Prescription No health plans found.

⚠ You are currently viewing a discharged patient. Any order you place will apply to this encounter.

Search New Order

Risk Indicators

Narx Scores Narcotic 000 Sedative 000 Stimulant 000 Explain these scores	Overdose Risk Score 000 (range 0-999) Explain the overdose risk score	Red Flags (0) Explain these red flags
---	--	---

Graphs

Rx Graph **Narcotic** **Sedative** **Stimulant**

Prescribers	09/21	2m	6m	1y	2y

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: 0 Active MME: 0.00 Active MME/day: 0.00 30 Day Avg. MME/day: 0.00

Fill Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	MgEq	MgEq/Day	Pymt Type	PMP

Providers Total Providers: 0

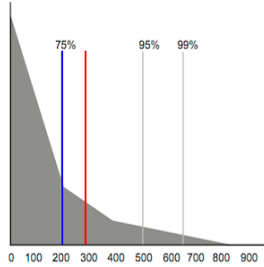
Name	Address	City	State	Zipcode	DEA

Pharmacies Total Pharmacies: 0

Name	Address	City	State	Zipcode	DEA

NARCOTIC 290
SEDATIVE 200
STIMULANT 000

>2 mos >6 mos >1 year



NARxSCORES can range from 000 to 999. The first two digits represent the composite percentile risk based on an overall analysis of prescription drug use. The third digit represents the number of active prescriptions. The distribution of scores in the population is such that approximately 75% fall below 200, 95% fall below 500 and 99% fall below 650. The information on this report is not warranted as accurate or complete. This report is based on the search criteria supplied and the data entered by the dispensing pharmacy. For more information about any prescription, please contact the dispensing pharmacy or the prescriber. NARxSCORES and Reports are intended to aid, not replace medical decision making. None of the information presented should be used as sole justification for providing or refusing to provide medications.

Rx Graph

Narcotic Sedative Stimulant



Prescribers

- 7 - DOCTOR, BAD
- 6 - HEADACHE, BRENDA
- 5 - DOC, OHIO
- 4 - DOC, GOOD
- 3 - FAMILYDOC, CANDIC
- 2 - PILL, JOHN
- 1 - HOSPITAL, FAKE

Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	MgEq	MgEq/Day	Pymt Type	PMP
09/09/2015	HYDROCODON-ACETAMINOPHEN 5-325	15	4	BA DOC	Real C	0	75.00	18.75	Comm Ins	KS
09/02/2015	GUAIFENESIN W/COCAINE SYRUP	120	4	FA HOS	DrugWa	0	36.00	9.00	Comm Ins	KS
08/28/2015	HYDROCODON-ACETAMINOPHEN 5-325	15	4	JO PIL	Real C	0	75.00	18.75	Comm Ins	KS
08/24/2015	GUAIFENESIN W/COCAINE SYRUP	60	4	FA HOS	Real C	0	18.00	4.50	Comm Ins	KS
08/19/2015	HYDROCODON-ACETAMINOPHEN 5-325	10	3	BR HEA	DrugWa	0	50.00	16.67	Comm Ins	KS

Providers Total Providers: 7

Name	Address	City	State	Zipcode	DEA
DOC, GOOD					G00006406
DOC, OHIO					O00017120
DOCTOR, BAD					8D4135326
FAMILYDOC, CANDICE					CF0726200
HEADACHE, BRENDA					BH0012221
HOSPITAL, FAKE					FH00005769
PILL, JOHN					JP3187588

Pharmacies Total Pharmacies: 6

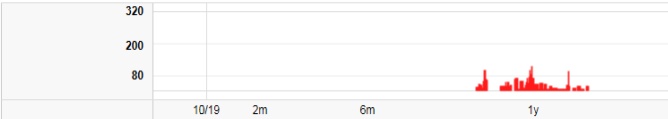
Name	Address	City	State	Zipcode	DEA
DrugWarehouse	9878 ANY STREET	COLUMBUS	OH	43215	HO0777889
Fake Chain Store 1	123 FAKE STREET	COLUMBUS	OH	43215	HO1109796
Fake Chain Store 2	365 MARLARKY LN	DAYTON	OH	44567	HO1565778
PillsNStuff	64569 BLUE ST	CLEVELAND	OH	44123	HO2055879
Real Chain Store 1	897 LIKELY ST	WORTHINGTON	OH	43080	HO2097994
Real Chain Store 2	987 ORANGE RD	GROVE CITY	OH	43123	HO2973750

Data Analysis

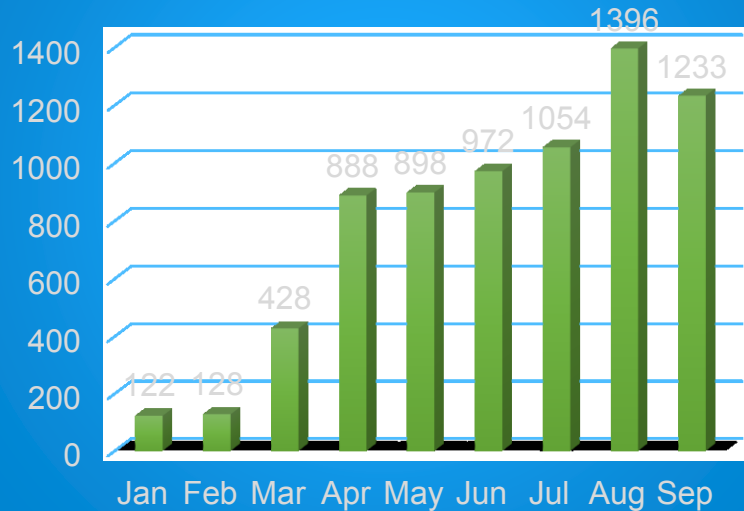
Prescriptions Total Prescriptions: 39 Active MME: 0.00 Active MME/day: 0.00 30 Day Avg. MME/day: 0.00

Fill Date	Drug	Qty	Days	Prescriber	Pharmacy	Refill	MgEq	MgEq/Day	Pymt Type	PMP
12/18/2015	GUAIFENESIN W/COCAINE SYRUP	90	5	FA HOS	Fake C	0	27.00	5.40	Comm Ins	KS
12/16/2015	HYDROCODON-ACETAMINOPHEN 5-325	15	4	JO PIL	Fake C	0	75.00	18.75	Comm Ins	KS
12/16/2015	DIAZEPAM 5 MG TABLET	12	12	JO PIL	Fake C	0	6.00	-	Comm Ins	KS
12/12/2015	OXYCODONE-ACETAMINOPHEN 5-325	15	3	CA FAM	Real C	0	112.50	37.50	Comm Ins	KS
12/11/2015	OXYCODONE-ACETAMINOPHEN 5-325	12	12	GO DOC	Real C	0	90.00	7.50	Comm Ins	KS
12/10/2015	HYDROCODON-ACETAMINOPHEN 5-325	40	4	JO PIL	Fake C	0	200.00	50.00	Comm Ins	KS
12/08/2015	DIAZEPAM 5 MG TABLET	60	30	OH DOC	PillsN	0	30.00	-	Comm Ins	KS
11/23/2015	ACETAMINOPHEN/COD #3 TABLET	12	3	CA FAM	Real C	0	54.00	18.00	Comm Ins	KS
11/19/2015	ACETAMINOPHEN/COD #3 TABLET	16	4	CA FAM	Real C	0	72.00	18.00	Comm Ins	KS
11/17/2015	HYDROCODON-ACETAMINOPHEN 5-325	12	3	FA HOS	Fake C	0	60.00	20.00	Comm Ins	KS
11/16/2015	ACETAMINOPHEN/COD #3 TABLET	10	2	JO PIL	Real C	0	45.00	22.50	Comm Ins	KS
11/15/2015	ACETAMINOPHEN/COD #3 TABLET	8	2	BR HEA	Real C	0	36.00	18.00	Comm Ins	KS
11/13/2015	HYDROCODON-ACETAMINOPHEN 10-325	5	2	CA FAM	DrugWa	0	50.00	25.00	Comm Ins	KS
11/10/2015	DIAZEPAM 5 MG TABLET	60	30	OH DOC	PillsN	0	30.00	-	Comm Ins	KS
					Real C	0	225.00	56.25	Comm Ins	KS
					DrugWa	0	150.00	37.50	Comm Ins	KS
					Real C	0	60.00	5.00	Comm Ins	KS
					DrugWa	0	45.00	22.50	Comm Ins	KS
					Real C	0	75.00	18.75	Comm Ins	KS
					Real C	0	3.60	0.30	Comm Ins	KS
					Real C	0	67.50	16.88	Comm Ins	KS
					Real C	0	200.00	50.00	Comm Ins	KS
					Real C	0	3.60	0.30	Comm Ins	KS
					DrugWa	0	90.00	30.00	Comm Ins	KS
					Real C	0	4.50	1.12	Comm Ins	KS
					Real C	0	6.00	-	Comm Ins	KS
					DrugWa	0	300.00	30.00	Comm Ins	KS
					Real C	0	112.50	28.12	Comm Ins	KS
					DrugWa	0	75.00	25.00	Comm Ins	KS
					Real C	0	60.00	5.00	Comm Ins	KS
					PillsN	0	60.00	20.00	Comm Ins	KS
					PillsN	0	36.00	6.00	Comm Ins	KS
					Real C	0	60.00	5.00	Comm Ins	KS
					DrugWa	0	75.00	75.00	Comm Ins	KS

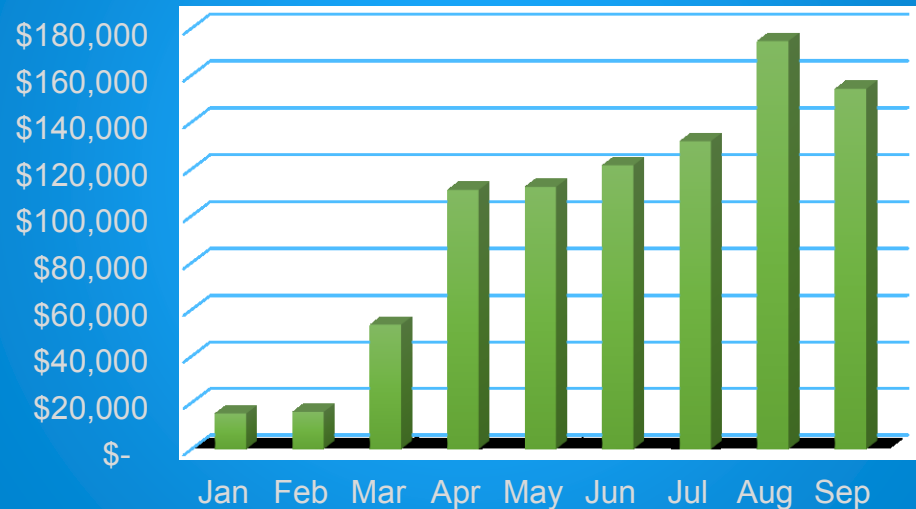
Morphine MgEq/day



Total Time Saved, in hrs (per Month)



Estimated Financial Savings (per Month)



2016 Palmetto Health

	Month	NARxCHECK Fetches	NARxCHECK Views	% Viewed	Min Saved per Search (Estimate)	Time Saved In Hours Searches	Min Saved per View (Estimate)	Time Saved In Hours Views	Total Time Saved Hours
Unique Users	Jan	27,947	733	2.6%	3	110	1.0	12	122
	Feb	28,716	765	2.7%	3	115	1.0	13	128
	Mar	70,603	2,566	3.6%	3	385	1.0	43	428
	Apr	123,967	5,325	4.3%	3	799	1.0	89	888
	May	120,016	5,387	4.5%	3	808	1.0	90	898
	Jun	115,445	5,830	5.1%	3	875	1.0	97	972
	Jul	138,969	6,323	4.5%	3	948	1.0	105	1054
	Aug	218,747	8,374	3.8%	3	1256	1.0	140	1396
	Sep	214,220	7,395	3.5%	3	1109	1.0	123	1233
673	Totals	1058630	42698	4.0%	3	6405	1.0	712	7116
2016	Annualized Projection	1,411,507	56,931						

New Features

- **NEW Overdose Risk Score (ORS)** – Predictive score
 - Based on a 2014 Ohio based study that review 1,687 unintentional overdose deaths, developed using modern data science techniques.
- Range from 000-990
- Uses more than 70 variable to create ORS.
 - Number of distinct provider visits in a specific time windows
 - Number of distinctive pharmacy visits in a specific time windows
 - MME amounts per time windows for narcotics and sedatives



*NarxCare Update
Notification sent to
Providers 8/15/17*

New Features

- **Red Flags** – *new*
 - More than 5 providers in any year (365)
 - More than 4 pharmacies in any 90 day period
 - More than 40 morphine milligram equivalent per day (40MED) average and more than 100 MME total at any time in the previous 2 years.
 - Red flag identifiers within the PMP data have been shown to predict an adverse outcome, specifically an unintentional overdose death.
 - Non-fatal overdose data will be displayed in this section of the report as well.







Christie Frick, RPh
Tripp Jennings, MD, FACEP