

The Michigan Automated Prescription System and Michigan

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Michigan Automated Prescription System
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The Problem- United States

 According to the CDC, between 1999 and 2017 nearly 218,000 people died in the United States from overdoses related to prescription opioids.

-Overdose deaths involving prescription opioids were six times higher in 2017 than in 1999. This included prescription opioid and illicit opioids- heroin and fentanyl.

• U.S. residents constitute less than 5% of the world population but consume 80% of the global opioid supply, and approximately 99% of the hydrocodone supply.

On average, 130 Americans die everyday from an opioid overdose.



The Problem- Michigan

- In 2015, there were 21,472,326 controlled substance prescriptions filled in Michigan.
 - 10,833,681 OF THOSE PESCRIPTIONS WERE FOR OPIOID DRUGS
- In Michigan from 2007 to 2014, the total dosage units of Schedule 2 drugs quadrupled.
 - -Approximately 180 to 745 million pills



Controlled Substance Prescriptions Filled in Michigan by Year

	Total CS prescriptions dispensed	% change from previous year
2007	17,007,858	
2008	17,400,640	2.31%
2009	17,876,684	2.74%
2010	18,954,172	6.03%
2011	19,763,680	4.27%
2012	20,991,020	6.21%
2013	20,728,216	-1.25%
2014	20,904,764	0.85%
2015	21,472,326	2.71%
2016	21,092,674	-1.77%
2017	19,943,203	-5.45%
2018	17,642,901	-11.53%



Opioid Prescriptions Filled in Michigan by Year

	Total Opioid Prescriptions Dispensed	% Change from Previous Year
2013	9,920,288	
2014	10,301,142	3.84%
2015	10,833,681	5.17%
2016	10,507,059	-3.01%
2017	9,670,789	-7.96%
2018	8,223,103	-14.97%



Commonly Abused Controlled Substances Filled in Michigan (Summary)

	Alprazolam 1 mg	Alprazolam 2 mg	Carisoprodol 350 mg	Promethazine with Codeine	
2015	41,499,216	10,227,915	13,124,785	41,758,634	
2016	39,040,420	8,618,772	10,442,641	34,803,234	
2017	34,379,472	6,939,880	7,808,190	28,579,490	
2018	27,849,498	5,118,689	4,905,115	15,971,635	
% Change from 2015 to 2016	-5.92%	-15.73%	-20.44%	-16.66%	
% Change from 2016 to 2017	-11.94%	-19.48%	-25.23%	-17.88%	
% Change from 2017 to 2018	-18.99%	-26.24%	-37.18%	-44.12%	

	Hydrocodone 7.5 mg	Hydrocodone 10 mg	Oxycodone 30 mg	Oxymorphone 40 mg
2015	107,776,175	177,326,801	16,666,622	1,165,058
2016	99,473,052	172,038,459	14,859,323	1,358,611
2017	84,705,294	151,080,925	12,306,723	1,502,544
2018	66,741,785	118,239,581	9,456,126	1,040,705
% Change from 2015 to 2016	-7.70%	-2.98%	-10.84%	16.61%
% Change from 2016 to 2017	-14.85%	-12.18%	-17.18%	10.59%
% Change from 2017 to 2018	-21.21%	-21.74%	-23.16%	-30.74%

The numbers in these tables are drug totals dispensed by number of dosage units (e.g. number of tablets, milliliters, etc.)



- In June 2015, Gov. Snyder convened a task force to "examine the recent trends, evaluate strategic options, and develop a statewide action plan by fall 2015."
- In October 2015, the Task Force, chaired by Lt. Gov. Calley, produced their report.





Task force recommendation:

"The task force recommends requiring enhanced licensing sanctions for health professionals that violate proper prescribing and dispensing practices."

In January 2016, LARA created a Pilot Program to Reduce Overprescribing.

Objectives:

- > Reduce prescription drug abuse and drug-related overdose deaths
- > Develop best practices and protocols for identifying, investigating, and taking administrative action against overprescribers
- > Determine ways to best collaborate with law enforcement and other local, state, and federal agencies.



• In August 2016, LARA created the Drug Monitoring Section to identify, investigate, and pursue administrative action against health professionals who overprescribe, overdispense, and divert controlled substances.

-The Michigan Automated Prescription System (MAPS) was originally housed in the Drug Monitoring Section.

- Due to success and progress made, in August 2018, The Michigan Automated Prescription System became its own section: The previously established Drug Monitoring Section has since expanded and been renamed The Pharmacy and Drug Monitoring Section.
- Both sections sit within the Enforcement Division in the Bureau of Professional Licensing and work together closely.



The Enforcement Division is one of three Divisions within the *Bureau of Professional Licensing:*

- Established in July 2015
- 10 Occupational Licensing/Regulation Boards
- 24 Health Professional Licensing/Regulation Boards
- Boards are advisory and determine sanctions
- License and regulate over 758,000 individuals
- 3 Divisions: Licensing, Investigations & Inspections, Enforcement



MAPS Background

- Established in 2003, MCL 333.7333a "The department shall establish, by rule, an electronic system for monitoring schedule 2, 3, 4, and 5 controlled substances <u>dispensed</u> in this state by veterinarians, and by pharmacists and dispensing prescribers licensed under part 177 or dispensed to an address in this state by a pharmacy licensed in this state." Statute enacted in 2002.
- Contains over 100 million records
- Data maintained for 5 years
- Required reporting from:
 - Prescribers who dispense CS Schedule 2-5
 - Pharmacists (dispensers)
 - Veterinarians
- Exemption from reporting:
 - Methadone Clinics (42 CFR)
 - "The dispensing from a health facility or agency licensed under article 17 of a controlled substance by a dispensing prescriber in a quantity adequate to treat a patient for not more than 48 hours."



MAPS access

Who has access to MAPS data:

- Prescribers (MD,DO, Nurse Practitioner, Physician Assistant, Dentist, Optometrist, Podiatrist, Veterinarian, Midwife with Prescribing Authority)
- Prescriber Delegate (an individual a prescriber elects to gain access to the system on behalf of them)
- Dispensers (Pharmacist)
- Dispenser Delegate (Pharmacist Intern, Licensed Pharmacy Technician)
- Law Enforcement (Conditional upon meeting statutory limitations)
- Representative of State Board (Conditional upon meeting statutory limitations)
- Health Care Payer/Benefit Provider (Conditional upon meeting statutory limitations)
- System Administrators (Department of Licensing and Regulatory Affairs)



MAPS access

When data can be accessed:

Michigan Statute outlines appropriate uses of Electronic monitoring system data in MCL 333.7333a.

Specifically it states (4) "a person that receives data or any other report under subsection (2) containing any patient identifiers of the system from the department shall not provide it to any other person except by order of a court of competent jurisdiction"



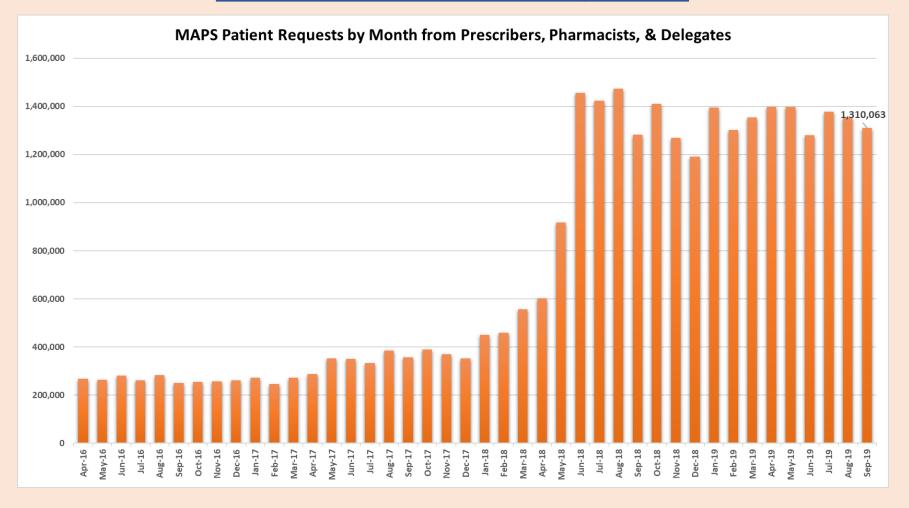
MAPS Update

- Successfully launched Appriss Health's PMP AWARxE on April 4, 2017
- Added Appriss Health's NarxCare report to MAPS on December 4, 2017
- Response times average 0.4-0.8 seconds
- Registered Users:

	As of 04/04/2017	As of 10/06/2019	Increase
Prescribers	9,156	47,623	38,467
Dispensers (Pharmacists)	3,994	8,741	4,747
Delegate Users	1,096	20,425	19,329
Law Enforcement	598	2,141	1,543
Benefit Plan Managers	29	127	98
State Board Reps.	0	53	53



MAPS – Patient Requests



*Note: Includes online requests and integration requests from MAPS (Michigan) registered users



PMP Interconnect

States Connected

- 1. Alabama
- 2. Arizona
- 3. Colorado
- 4. Connecticut
- 5. Delaware
- 6. Florida
- 7. Idaho
- 8. Illinois
- 9. Indiana
- 10. Iowa
- 11. Kansas
- 12. Kentucky
- 13. Louisiana
- 10. 2001010
- 14. Maine
- 15. Military Health System
- 16. Minnesota
- 17. Mississippi

- 18. Montana
- 19. Nevada
- 20. New Mexico
- 21. New York
- 22. North Carolina
- 23. North Dakota
- 24. Ohio
- 25. Rhode Island
- 26. South Carolina
- 27. South Dakota
- 28. Tennessee
- 29. Texas
- 30. Virginia
- 31. Washington, D.C.
- 32. West Virginia
- 33. Wisconsin

States Pending Connection

- 1. Puerto Rico
- 2. Washington State
- 3. Wyoming



Patient Reports

NarxCare Reports



MAPS - NarxCare Report

- Narx Scores and Predictive Risk Scores (overdose)
 - Scores: based on algorithms, including MMEs, number of prescribers and number of dispensers
 - ➤ Scores: Ranges from 000-999; higher scores equate to higher risk and misuse
- Red Flags

• Rx Graphs

PDMP Data



Red Flag Indicators

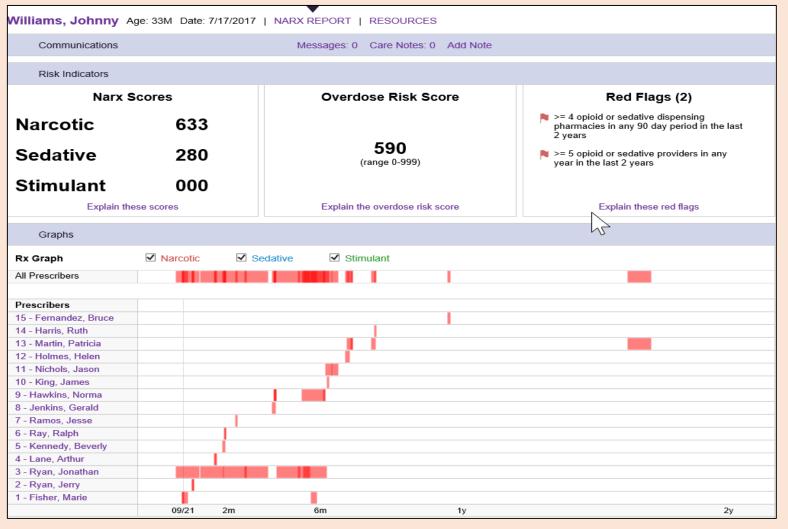
There are currently four **Red Flag** Indicators:

- More than 5 providers in any year
- More than 4 pharmacies in any 90-day period
- More than 40 Morphine Milligram Equivalent (MME) per day average and more than 100 MME total
- Combination Therapies: Opioids and Benzodiazepines

*Per CDC guidance, the MME conversion factors prescribed or provided as part of the medication-assisted treatment for opioid use disorder should not be used to benchmark against dosage thresholds meant for opioids prescribed for pain. Buprenorphine products have no agreed upon morphine equivalency, and as partial opioid agonists, are not expected to be associated with overdose risk in the same dose-dependent manner as doses for full agonist opioids. MME = morphine milligram equivalents. LME = Lorazepam milligram equivalents. mg = dose in milligrams.

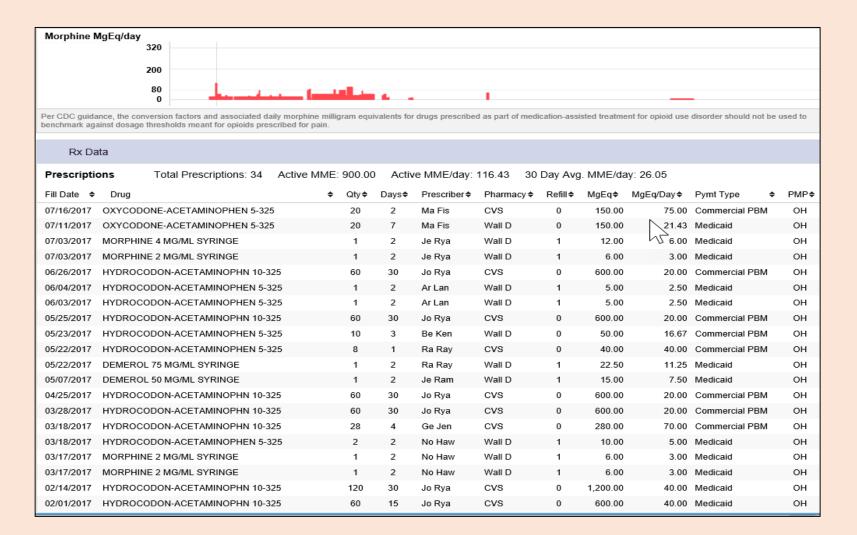


MAPS - NarxCare Report





MAPS - NarxCare Report





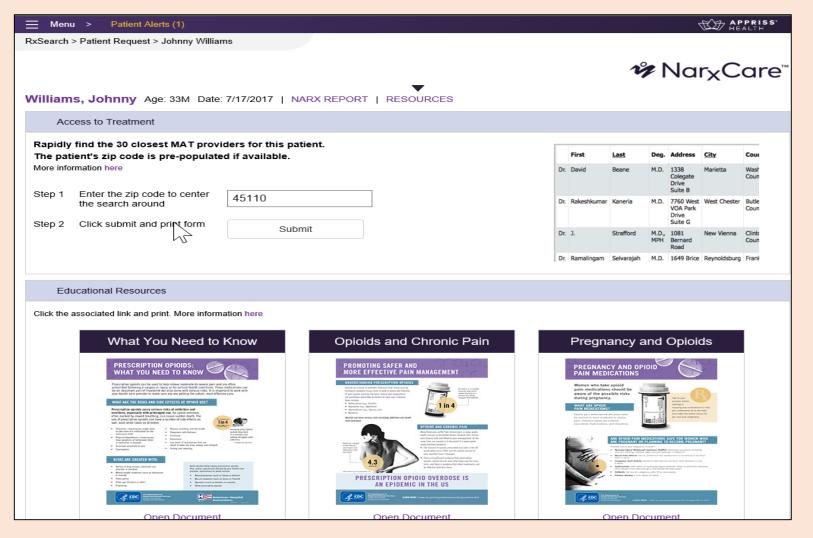
02/01/2017	HYDROCODON-ACETAMINOPHN 1	0-325	60	15	Jo Rya	CVS	0	600.00	40.00	Medicaid	ОН
01/23/2017	OXYCODONE-ACETAMINOPHEN 5	-325	60	7	Ma Fis	cvs	0	450.00	64.29	Medicaid	ОН
01/12/2017	MORPHINE 2 N S/ML SYRINGE		1	30	No Haw	Wall D	1	6.00	0.20	Private Pay	ОН
01/12/2017	MORPHINE 4 MOTAL SYRINGE		1	2	No Haw	Wall D	1	12.00	6.00	Private Pay	ОН
01/10/2017	OXYCODONE-ACETAMINOPHEN 5	-325	120	30	Jo Rya	cvs	0	900.00	30.00	Commercial PBM	ОН
01/07/2017	DEMEROL 25 MG/ML SYRINGE		1	2	Ja Kin	Wall D	1	7.50	3.75	Private Pay	ОН
01/03/2017	HYDROCODON-ACETAMINOPHEN	5-325	60	8	Ja Nic	cvs	0	300.00	37.50	Medicaid	ОН
12/26/2016	HYDROCODON-ACETAMINOPHEN	5-325	60	8	Ja Nic	Wall D	0	300.00	37.50	Commercial PBM	ОН
12/11/2016	HYDROCODON-ACETAMINOPHEN	5-325	28	5	He Hol	cvs	0	140.00	28.00	Private Pay	ОН
12/07/2016	HYDROCODON-ACETAMINOPHEN	5-325	14	7	Pa Mar	CVS	0	70.00	10.00	Commercial PBM	ОН
12/07/2016	HYDROCODON-ACETAMINOPHEN	5-325	2	2	Pa Mar	Wall D	1	10.00	5.00	Private Pay	ОН
11/07/2016	HYDROCODON-ACETAMINOPHEN	5-325	10	5	Pa Mar	cvs	0	50.00	10.00	Private Pay	ОН
11/06/2016	HYDROCODON-ACETAMINOPHEN	5-325	1	2	Ru Har	Wall D	1	5.00	2.50	Private Pay	ОН
08/01/2016	OXYCODONE-ACETAMINOPHEN 5	-325	20	3	Br Fer	Wall D	0	150.00	50.00	Commercial PBM	ОН
11/12/2015	MORPHINE 2 MG/ML SYRINGE		1	30	Pa Mar	Wall D	1	6.00	0.20	Private Pay	ОН
Providers	Total Providers: 15										
Name	÷	Address				\$	State	\$	Zipcode	♦ DEA	\$
Fernandez, I	Bruce	4367 Pleasant C	crossing		Five P	oints	ОН		44262-681	1 234853	
Fisher, Marie	e	7175 Cozy Rabb	oit Vista		Anders	on Ferry	ОН		43622-129	8 234756	
Harris, Ruth		2003 Stony Nec	tar Cove		Kingsle	eys Corners	ОН		45983-367	3 234843	
Hawkins, No	orma	6763 Emerald R	obin Parkv	vay	Apple	Grove	ОН		45273-058	8 234852	
Holmes, Hel	len	8869 Burning Fo	x Impasse		Bayer	Trailer Court	ОН		45202-979	7 234841	
Jenkins, Ger	rald	9393 Lost Field							40054 007	3 234851	
Kennedy, Be					Maple		OH		43654-827	204001	
	everly	3099 Umber Pat	thway		Maple Damas	cus	ОН		43654-827		
King, James		3099 Umber Pat 3355 Rustic Clo			Damas	ccus e Crossing				8 234847	
	3				Damas	e Crossing	ОН		44609-590	8 234847 8 234845	
King, James		3355 Rustic Clo	ud Wynd		Damas Yanke Holida	e Crossing	ОН ОН		44609-590 45430-618	8 234847 8 234845 7 234844	
King, James Lane, Arthur	s r r	3355 Rustic Clor 2331 Cozy Port	ud Wynd kory Stead		Damas Yanke Holida Fort Je	e Crossing y City	ОН ОН		44609-590 45430-618 45620-598	8 234847 8 234845 7 234844 7 234850	
King, James Lane, Arthur Martin, Patrio	r r icia on	3355 Rustic Clor 2331 Cozy Port 7600 Shady Hick	ud Wynd kory Stead oneer Look	out	Damas Yanke Holida Fort Je	e Crossing y City ennings ardens	ОН ОН ОН		44609-590 45430-618 45620-598 44170-284	8 234847 8 234845 7 234844 7 234850 1 234848	
King, James Lane, Arthur Martin, Patric Nichols, Jasc	r r icia on	3355 Rustic Clor 2331 Cozy Port 7600 Shady Hick 9093 Hidden Pic	ud Wynd kory Stead oneer Look d Crescent	out	Damas Yanke Holida Fort Je East G	e Crossing y City ennings ardens re	ОН ОН ОН		44609-590 45430-618 45620-598 44170-284 43321-433	8 234847 8 234845 7 234844 7 234850 1 234848 9 234840	
King, James Lane, Arthur Martin, Patric Nichols, Jasc Ramos, Jess	r r icia on	3355 Rustic Cloi 2331 Cozy Port 7600 Shady Hicl 9093 Hidden Pic 9166 Bright Pon	ud Wynd kory Stead oneer Look d Crescent Townline	out	Damas Yanke Holida Fort Je East G Belmo	e Crossing y City Innings ardens re	ОН ОН ОН ОН ОН		44609-590 45430-618 45620-598 44170-284 43321-433 45970-989	8 234847 8 234845 7 234844 7 234850 1 234848 9 234840 1 234849	



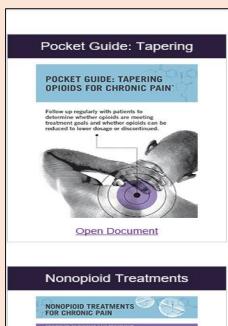
Pharmacies	Total Pharmacies: 6										
Name	\$	Address	\$	City	\$	State	\$	Zipcode	\$	DEA	\$
cvs		5483 Gentle Impasse		Home Park		ОН		43242-6009		345796	
cvs		7139 High Pond Walk		Randolph Landing		ОН		45487-2143		345840	
Wall Drug		3799 Foggy Dale		Herner Corners		ОН		45658-6817		345841	
Wall Drug		4543 Iron Carrefour		Powers		ОН		43803-2784		345839	
Wall Drug		5639 Cotton Dale Close		Cedar Springs		ОН		43423-4846		345842	
Wall Drug		8129 Easy Dell		Antiquity		ОН		45300-0810		345843	

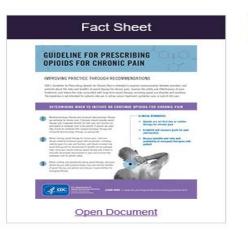
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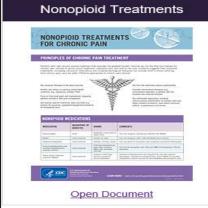


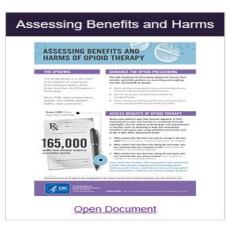


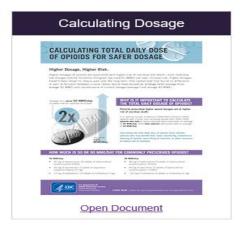












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Contacts for MAPS

For technical assistance, please contact Appriss' customer first center at:

• 844-364-4767

For policy or administrative assistance and more information about integrating with MAPS, please contact MAPS support:

- 517-241-0166 or <u>BPL-MAPS@Michigan.gov</u>
- Info: www.Michigan.gov/bpl, click on MAPS
- Integrations: Click on Software Integration Resources

For additional resources for providers and the public, please go to the State website: www.michigan.gov/opioids



Questions?

