

ILPMP Epidemiology Efforts Analysis to Drive Educational Initiatives

December 7, 2022 Sarah Pointer, PharmD

Disclosure & Funding Sources

Disclosure

The presenters have nothing to disclose.

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Background



Data Analysis Partnerships

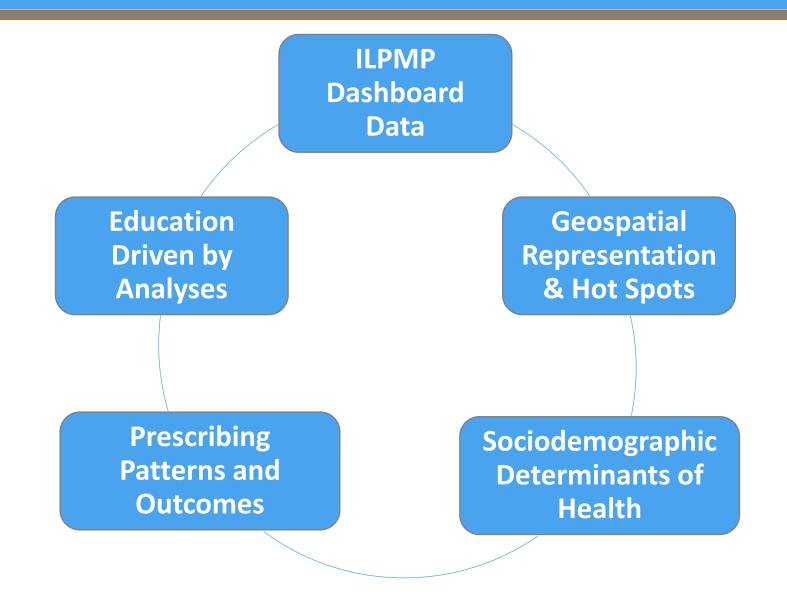




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ILPMP Epidemiology Focus



Analysis of Buprenorphine Prescribing

SIU MEDICINE

Geospatial Hot Spots

ILPMP Dashboard Prescribing Trends

Opioid Data Correlation

Combined Data Set Analysis

Data Dashboard Prescribing Trendlines

Opioids

Benzodiazepines

Stimulants

Other Substances

Prescribing Trends

Total prescriptions dispensed at retail pharmacies in the State of Illinois from 2010 to 2019. Category Benzodiazapine Prescriptions														
To highlight a category, click on the color legend on the right or click the name in the table below Opioid Prescriptions Other Substance Prescriptions												riptions		
	8.00M	Date Filled Stimulant 7.96M 7.41M										lant Prescriptions	<i>i</i>	
	7.00M-	6.45M			6.84M	7.19M	7.20M		6.90M					
S	6.00M	0.45/0	6.42M							6.32M	5.84M			
Total Prescriptions	5.00M-											5.03M	4.83M	
Fotal Pre	4.00M	2 0014	3.16M	3.17M		3.16M	3.76M 3.43M	3.53M	3.61M	3.51M 3.17M •	3.10M		1.2011	
	2.00M-	2.08M	2.17M	2.25M	3.00M	2.76M 2.20M	2.46M	3.25M	3.24M 2.58M	2.71M	2.78M	2.43M3.02M 2.31M	2.25M	
	1.00M	1.70M	1.83M	2.04M	2.05M	2.2010							2.10M	
	0.00M	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
		2010	2011	LUIL	2013	2014		ategory	2017	2010	2019	2020	LULI	
Year of Date Filled			Opioid Prescriptions		Benzodiazapine Prescriptions		Stimulant Prescriptions		ions (Other Substance Prescriptions		Tc	Total Prescriptions	

Year of Date					
Filled	Opioid Prescriptions	Benzodiazapine Prescriptions	Stimulant Prescriptions	Other Substance Prescriptions	Total Prescriptions
2010	6,450,814	2,991,056	1,704,355	2,079,522	13,225,747
2011	6,418,802	3,160,772	1,832,522	2,172,659	13,584,755
2012	7,405,829	3,173,627	2,038,882	2,253,889	14,872,227
2013	6,843,818	2,998,520	2,054,257	2,238,329	14,134,924
2014	7,194,427	3,162,532	2,201,198	2,756,316	15,314,473
2015	7,963,835	3,432,051	2,459,472	3,756,924	17,612,282
2016	7,204,941	3,251,885	2,427,951	3,525,206	16,409,983
2017	6,899,704	3,241,709	2,578,436	3,614,014	16,333,863
2018	6,320,416	3,168,620	2,714,194	3,507,453	15,710,683
2019	5,837,024	3,007,811	2,776,768	3,096,707	14,718,310
2020	5,026,180	2,433,054	2,311,697	3,018,494	14,272,957
2021	4,828,401	2,254,620	2,104,538	4,201,121	15,975,998

Geospatial Representation

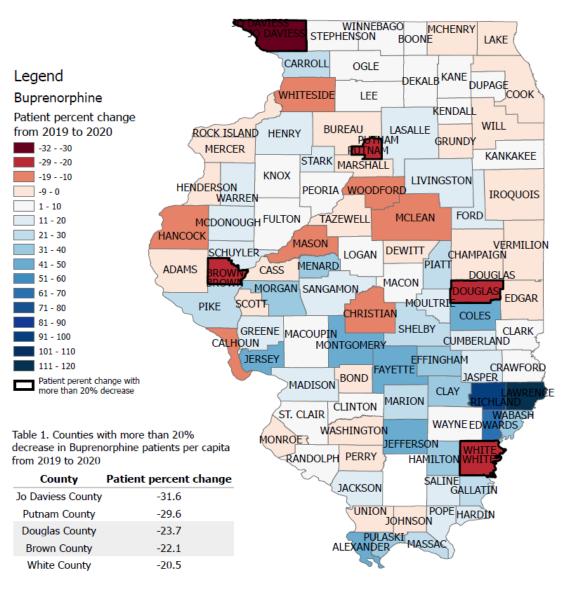
Choropleth color coding

Hot spot analyses

Bivariate correlation

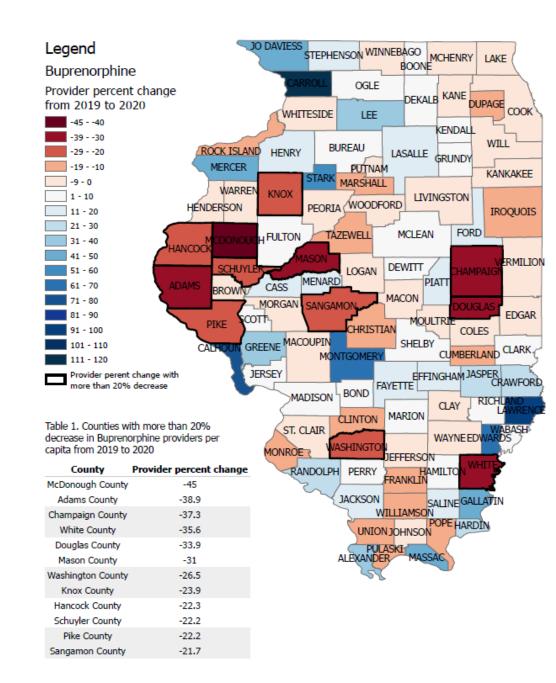
Geographic Representation

Buprenorphine Patients



Geographic Representation

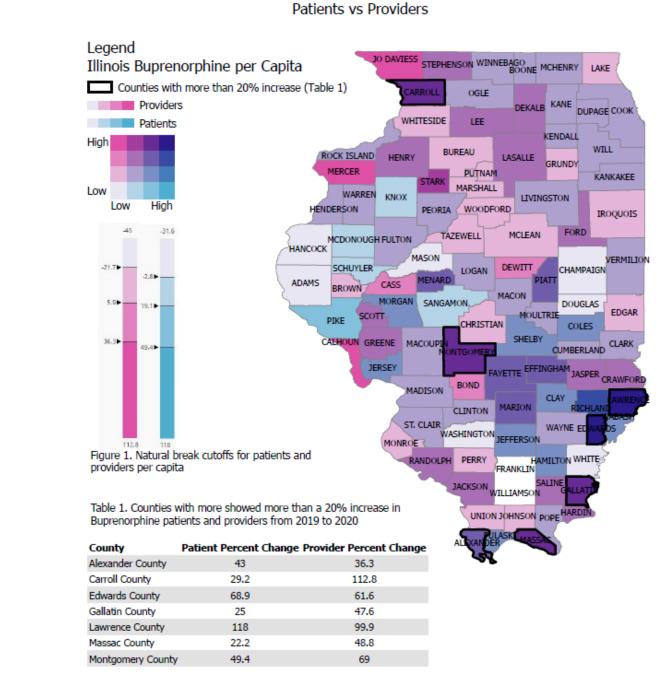
Buprenorphine Providers



Percent Change in Buprenorphine Providers per Capita from 2019 to 2020

Bivariate Correlation

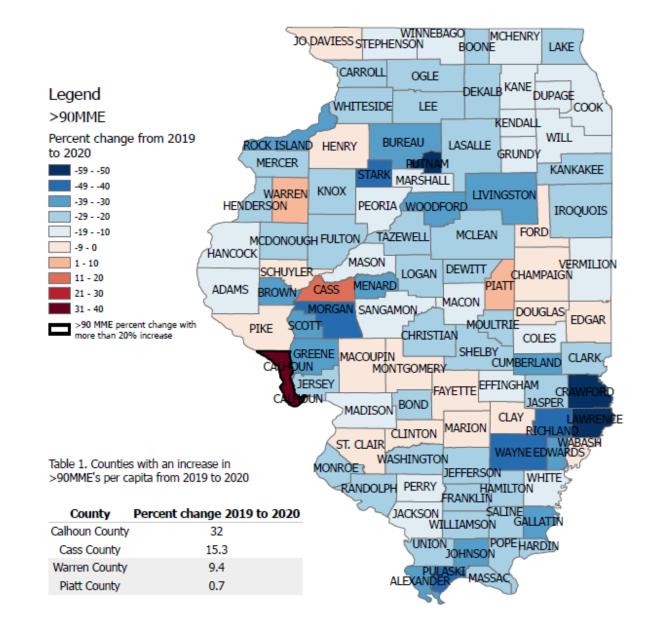
Buprenorphine Patient vs Providers



Geographic Representation

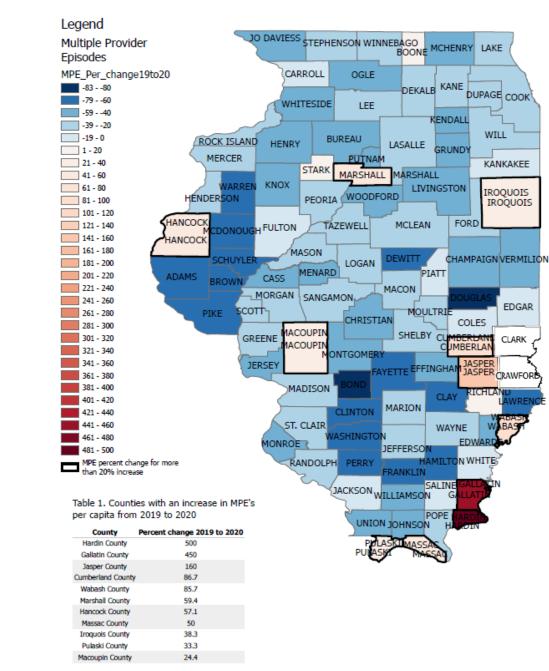
> High dose opioids >90 MME

Percent Change in >90 MME's per Capita from 2019 to 2020

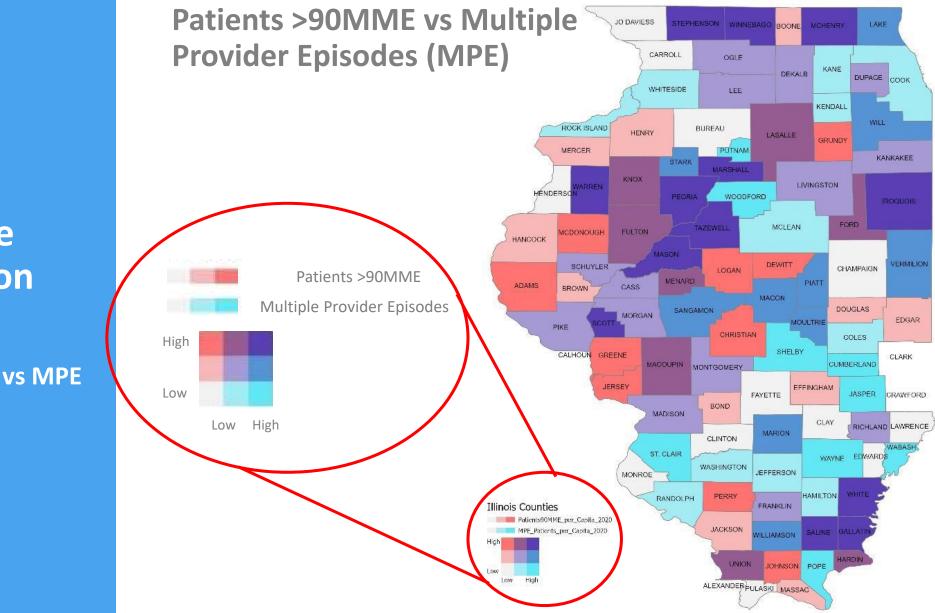


Geographic Representation

Multiple Provider Episodes



Percent Change in Multiple Provider Episodes per Capita from 2019 to 2020



Bivariate Correlation

High dose opioids vs MPE

Pending Projects

County sociodemographic analysis

Opioid overdose analysis

- Any opioid
- Opioid MME/day
- Buprenorphine
- Naloxone

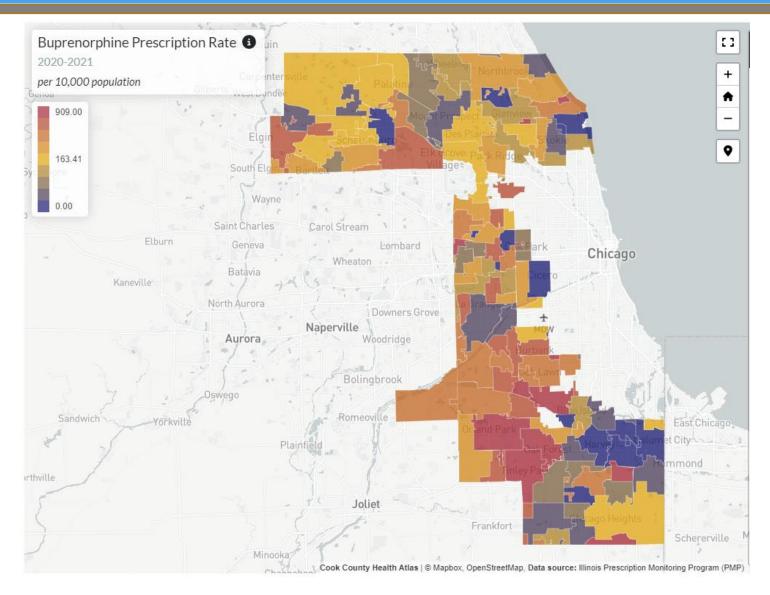


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Buprenorphine Prescribing

Planned KAP Survey

Buprenorphine Prescription Rates



Cook County Health Atlas accessible at: https://cookcountyhealthatlas.org/indicators/JG8WEYD?topic=buprenorphine-prescription-rate

Planned Future Efforts

Pharmacist Knowledge, Attitudes, & Practice Survey

- Naloxone dispensing
- Statewide naloxone standing order



Prescriber Cumulative Reference Score

Categorize specific weighted risk items

- Opioid MME/day quantity
- Benzodiazepine co-prescribing
- Sedative-hypnotic prescribing

Validate Utilizing OD data

Education Partnerships





The Center for Rural Health and Social Service Development (CRHSSD) at Southern Illinois University Carbondale (SIUC)

Pharmacist Academic Detailing

- Naloxone Dispensing
- Increase use of Naloxone SO



Prescriber Academic Detailing

- With Peer Review Committee
- Identification of possible prescribing concerns
- Required response by prescribers

Analyze effectiveness of intervention

Prescriber Education

• Development of targeted toolkits



Pharmacist Education

• Increase utilization of naloxone SO

Patient Education

- Awareness campaign
- Naloxone education and training

Future Epi Work

Stimulant Analysis

Overdose Data Analysis

Expanded Regional Analysis

Expanded MAR Initiatives

Questions?



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