



WISCONSIN | **ePDMP**

Analysis of Monitored Prescription Drug Dispensings: MD/DO

Prepared for:

Medical Examining Board August 2018 Meeting

The following report, prepared by the Wisconsin Department of Safety and Professional Services, is being provided as the result of the Controlled Substances Board Workgroup's effort to identify potentially suspicious or critically dangerous conduct or practices of a practitioner prescribing monitored prescription drugs.

Unless otherwise stated, the data in the report covers dispensing data submitted to the Wisconsin Prescription Drug Monitoring Program (PDMP) from December 1, 2017 – May 31, 2018.

Section 1: Prescribing of Opioids by MD and DO

Profession: Physician - MD and DO	
Total Number of Monitored Prescription Drugs Dispensed:	2,880,365
Total Number of Opioid Dispensings:	1,110,843
Total Number of Unique DEA Numbers Associated with Opioid Dispensings:	15,521

Figure 1: Opioid Prescribing Distribution - MD and DO

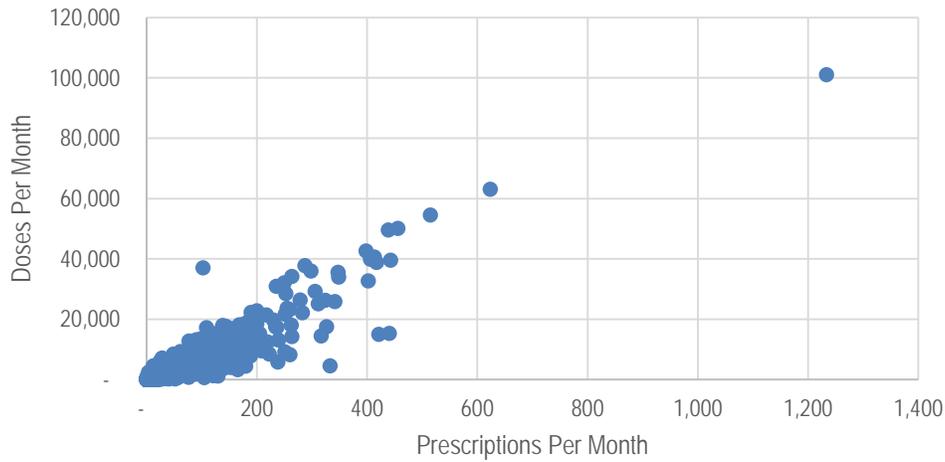
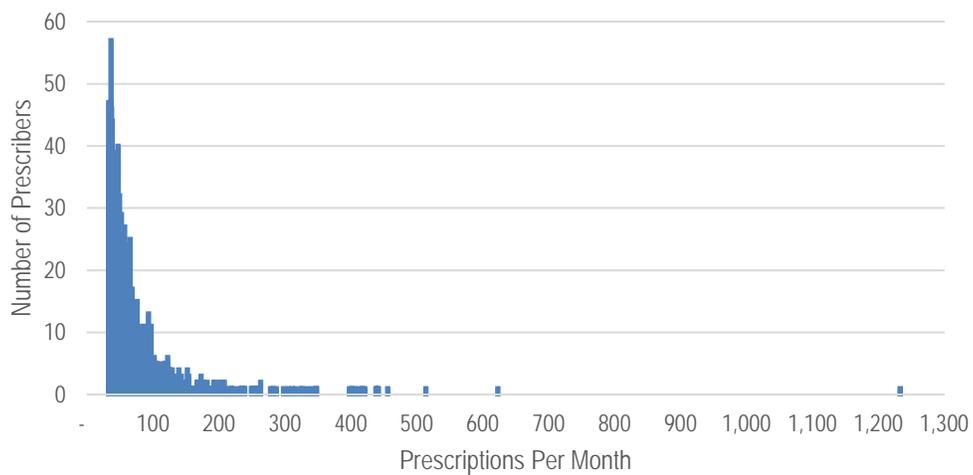


Figure 2: 90th Percentile Opioid Prescribing - MD and DO*



*Top 10% of MD/DO prescribers, based on average number of prescriptions filled/month. n = 1,525. Average of ≥ 33 opioid prescription dispensings/month.

Section 2: Detail on Top Percentile

Top 23 MD/DO prescribers based on opioid prescriptions filled per month, December 1st, 2017 to May 31st, 2018, cutoff at average of approximately 300 opioid prescription dispensings/month.

Table 1: Top Percentile MD/DO							
	Prescriber Detail		Monthly Average				
	Profession	Specialty	Opioid Orders	Percentile	Opioid Doses	Percentile	Avg Doses/ Opioid Script
1.	MD	Anesthesiology	1,233.7	100.00%	101,137.5	100.00%	82.0
2.	MD	Physical Medicine/Rehabilitation	623.3	99.99%	63,150.2	99.99%	101.3
3.	MD	Pain Management	514.8	99.98%	54,592.2	99.98%	106.0
4.	MD	Pain Management	456.2	99.98%	50,098.5	99.98%	109.8
5.	MD	Pain Management	442.5	99.97%	39,627.3	99.94%	89.6
6.	MD	Family Practice	440.3	99.96%	15,348.2	99.60%	34.9
7.	MD	Physical Medicine/Rehabilitation	438.7	99.96%	49,663.7	99.97%	113.2
8.	DO	Pain Management	421.5	99.95%	15,055.2	99.56%	35.7
9.	MD	Pain Management	417.0	99.94%	38,839.7	99.94%	93.1
10.	MD	Surgery- Neurological	413.3	99.94%	40,682.0	99.96%	98.4
11.	MD	Family Practice	406.5	99.93%	39,923.8	99.95%	98.2
12.	MD	Orthopedics	402.2	99.92%	32,736.0	99.89%	81.4
13.	MD	Physical Medicine/Rehabilitation	398.3	99.92%	42,638.3	99.96%	107.0
14.	MD	Pain Management	348.3	99.91%	33,982.0	99.90%	97.6
15.	MD	Orthopedics	347.3	99.90%	35,618.5	99.91%	102.5
16.	MD	Internal Medicine	341.7	99.90%	25,854.2	99.85%	75.7
17.	MD	Internal Medicine	333.2	99.89%	4,552.5	95.93%	13.7
18.	MD	Addiction Medicine	326.8	99.89%	17,575.0	99.67%	53.8
19.	MD	Pain Management	324.2	99.88%	26,292.2	99.85%	81.1
20.	MD	Oncology (including radiation oncology)	316.7	99.87%	14,533.5	99.53%	45.9
21.	MD	Rheumatology	311.7	99.87%	25,119.7	99.84%	80.6
22.	MD	Pain Management	305.5	99.86%	29,228.7	99.87%	95.7
23.	MD	Physical Medicine/Rehabilitation	298.5	99.85%	36,065.5	99.92%	120.8

Section 3: Specialty Detail

Detail for four specialty groups based on the top prescribers presented in Section 2: Family Practice, Physical Medicine/Rehabilitation, Pain Management, and Anesthesiology. Specialty is a self-reported field.

Table 2: Specialty	
MD/DO: Specialty	WI ePDMP Profile (self reported)
Family Practice	2584
Internal Medicine	1787
Emergency Medicine	955
OBGYN	554
Surgery- General	502
Orthopedics	456
Oncology (including radiation oncology)	349
Pediatrics	318
Psychiatry	259
Neurology	188
Physical Medicine/Rehabilitation	167
Otolaryngology	167
Urology	165
Gastroenterology	126
Optometry/Ophthalmology	108
Surgery- Plastic and Reconstructive	100
Pain Management	99
Cardiology	94
Pulmonology	94
Rheumatology	88
Dermatology	82
Surgery- Neurological	77
Surgery- Orthopedic	59
Hospice/Palliative Medicine	59
Anesthesiology	57
Nephrology	53
Radiology	40
Surgery- Vascular	36
Occupational Medicine	34
Addiction Medicine	31
Endocrinology	21
Surgery- Cardiac	21
Surgery- Hand	19
Surgery- Colorectal (Proctology)	17
Preventive Medicine	11
Surgery- Thoracic	9

Allergy/Immunology	9
Neuromuscular/Osteopathic Manipulative	3
Surgery- Maxillofacial	2
Dentistry-Surgery	1

Section 3A: Family Practice Specialty Detail

MD/DO opioid prescribers with Family Practice, n = 2,584. 86% have an average of 50 or fewer prescriptions per month. State truncated mean for specialty = 25.8 prescriptions/month. State median for specialty = 14 prescriptions/month.

Figure 3: Opioid Prescribing Distribution Family Practice

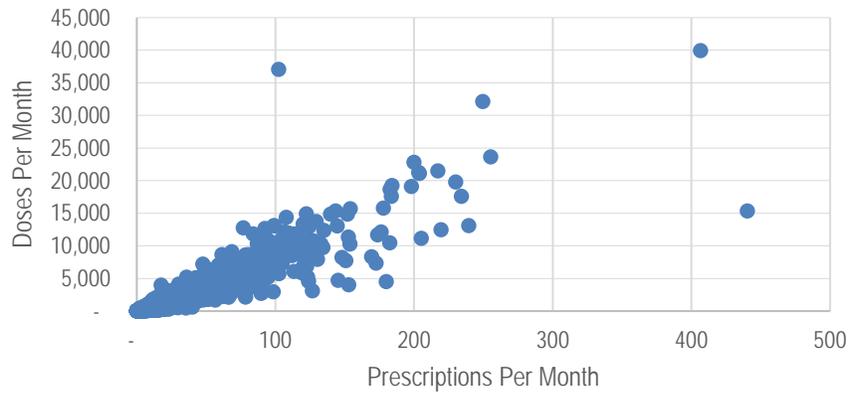
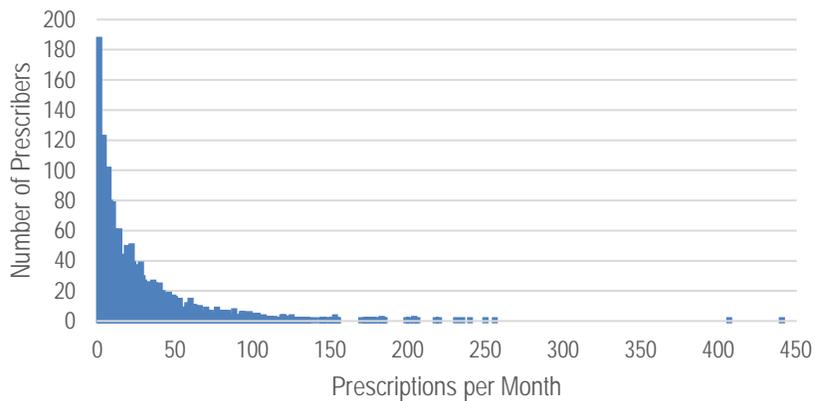


Figure 4: Overall Volume Opioid Prescribing Family Practice

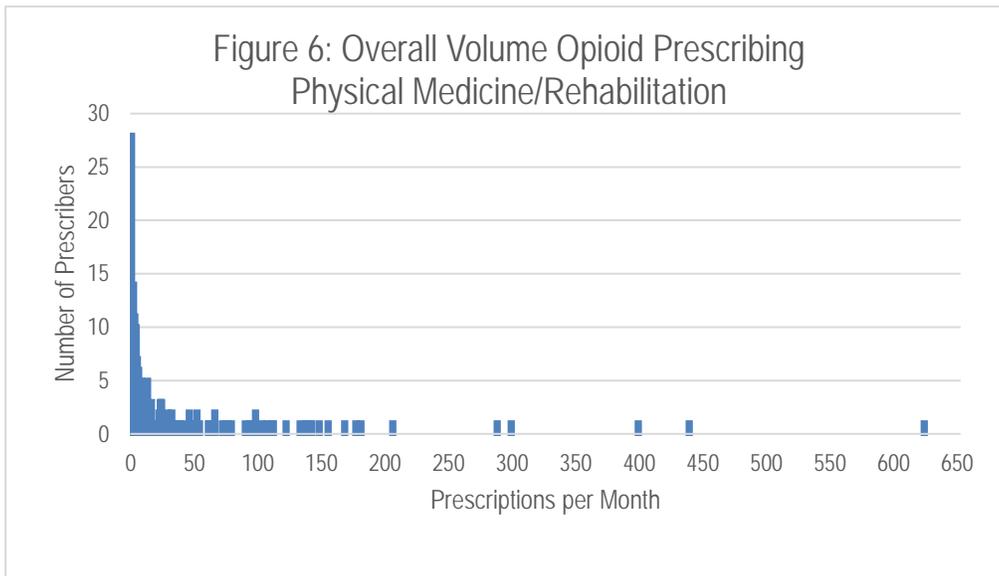
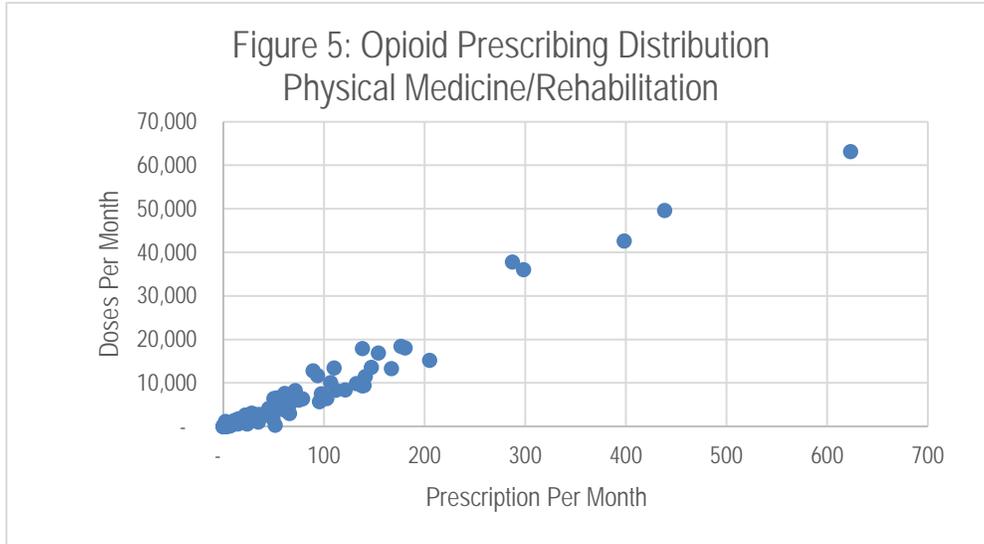


MD/DO: Family Practice

	Profession	Prescriptions/Month		Doses/Month		Doses/Prescription
State Median	MD/DO	14		1,861.1		
State Mean (Truncated)	MD/DO	25.8		1,847.1		
State-Level Dose/Prescription Ratio						73.34
Prescriber Detail	Profession	Prescriptions/Month	Percentile	Doses/Month	Percentile	Doses/Prescription
1	MD	440.3	100.00%	15,348.2	99.38%	34.9
2	MD	406.5	99.96%	39,923.8	100.00%	98.2
3	MD	255.2	99.92%	23,640.2	99.88%	92.6
4	MD	249.5	99.88%	32,119.0	99.92%	128.7
5	MD	239.5	99.84%	13,070.5	98.99%	54.6
6	MD	234.0	99.80%	17,595.7	99.53%	75.2
7	MD	230.0	99.76%	19,760.2	99.69%	85.9
8	MD	219.5	99.72%	12,481.0	98.76%	56.9
9	MD	217.2	99.69%	21,464.7	99.80%	98.8
10	DO	205.2	99.65%	11,154.7	98.25%	54.4

Section 3B: Physical Medicine/Rehabilitation Specialty Detail

MD/DO opioid prescribers with Physical Medicine/Rehabilitation specialty, n = 167. 37% recorded, on average, one or fewer prescriptions per month. State truncated mean for specialty = 38.69 prescriptions/month. State median for specialty = 7.5 prescriptions/month.

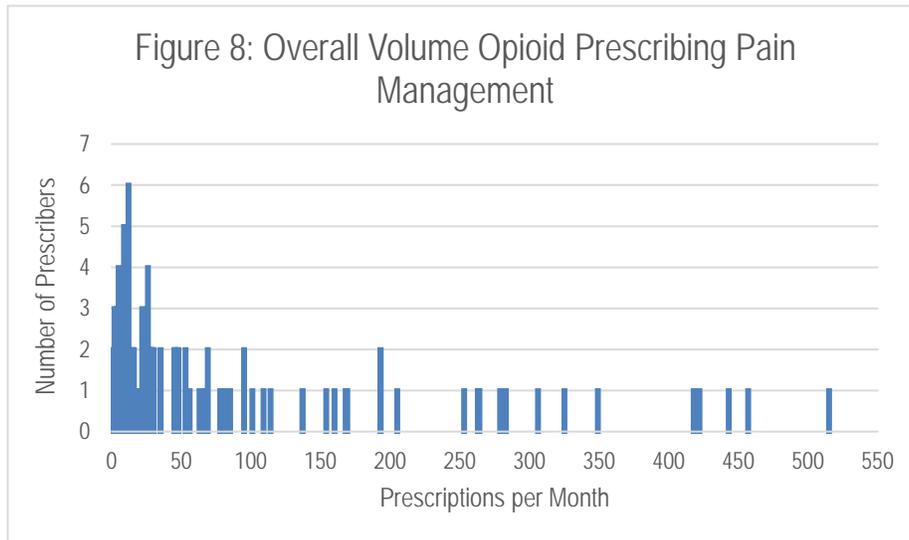
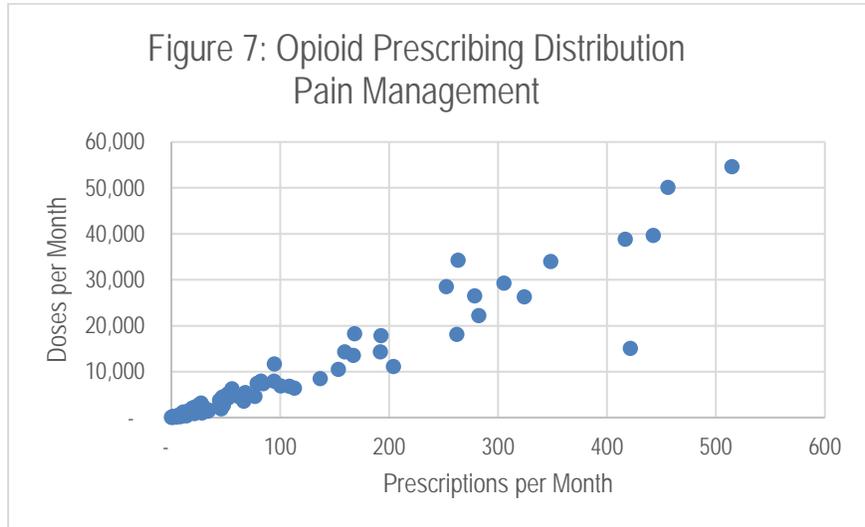


MD/DO: Physical Medicine/Rehab

	Profession	Prescriptions/Month		Doses/Month		Doses/Prescription
State Median	MD/DO	7.50		519.83		
State Mean (Truncated)	MD/DO	38.69		3,401.46		
State-Level Dose/Prescription Ratio						91.62
Prescriber Detail	Profession	Prescriptions/Month	Percentile	Doses/Month	Percentile	Doses/Prescription
1	MD	623.33	100.00%	63,150.17	100.00%	101.31
2	MD	438.67	99.39%	49,663.67	99.39%	113.22
3	MD	398.33	98.79%	42,638.33	98.79%	107.04
4	MD	298.50	98.19%	36,065.50	97.59%	120.82
5	MD	287.17	97.59%	37,772.50	98.19%	131.54
6	MD	205.00	96.98%	15,239.33	94.57%	74.34
7	MD	180.67	96.38%	18,038.50	96.38%	99.84
8	MD	176.50	95.78%	18,404.00	96.98%	104.27
9	MD	167.17	95.18%	13,333.33	92.77%	79.76
10	MD	154.17	94.57%	16,927.33	95.18%	109.80

Section 3C: Pain Management Specialty Detail

MD/DO opioid prescribers with Pain Management specialty, n = 99. State truncated mean for specialty = 80.06 prescriptions/month. State median for specialty = 28.33 prescriptions/month.

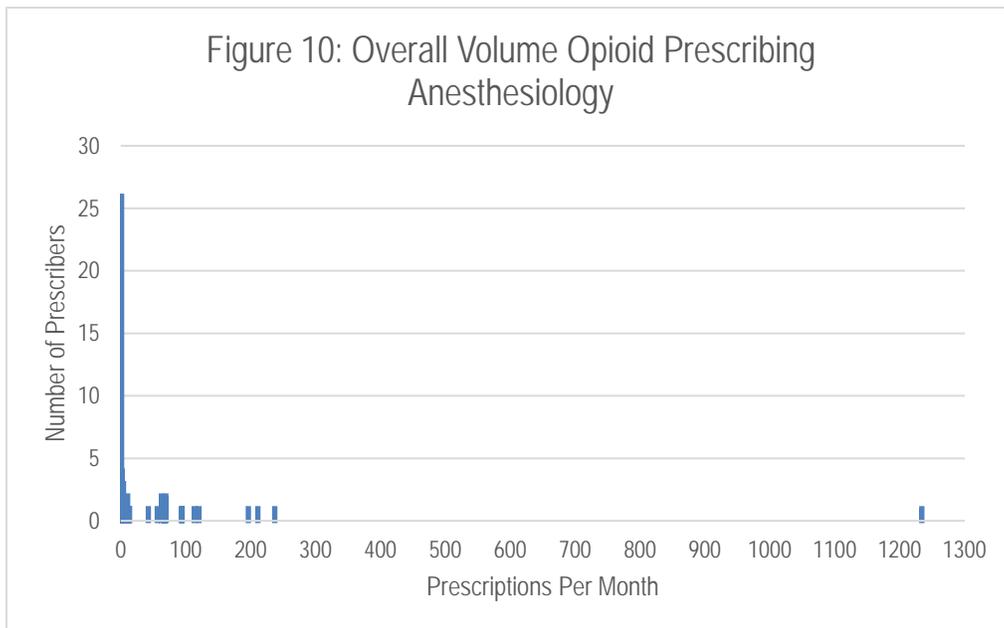
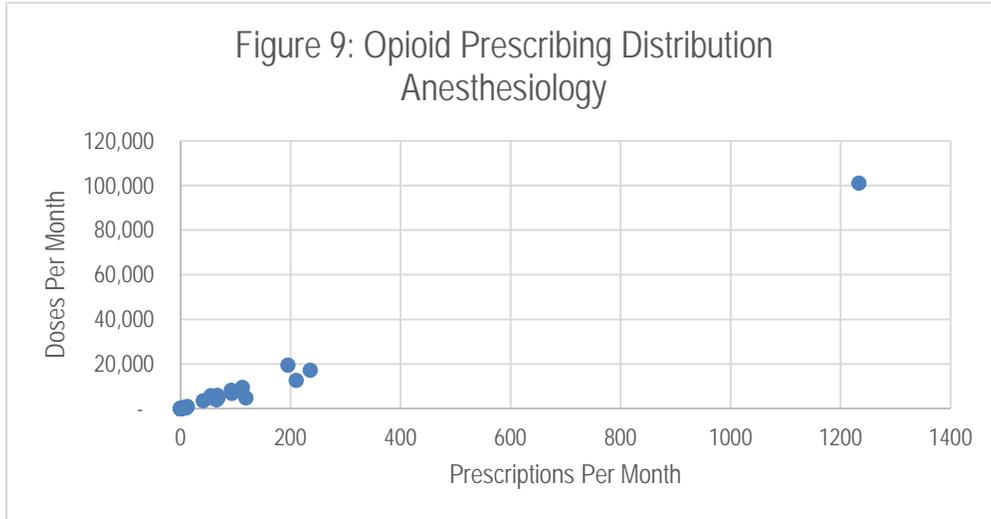


MD/DO: Pain Management

	Profession	Prescription/Month		Doses/Month		Doses/Prescription
State Median	MD/DO	28.33		2,211.93		
State Mean Truncated	MD/DO	80.06		6666.73		
State-Level Dose/Prescription Ratio	MD/DO					84.69
Prescriber Detail	Profession	Prescription/Month	Percentile	Doses/Month	Percentile	Doses/Prescription
1	MD	514.83	100.00%	54,592.17	100.00%	106.04
2	MD	456.17	98.97%	50,098.50	98.97%	109.82
3	MD	442.50	97.95%	39,627.33	97.95%	89.55
4	DO	421.50	96.93%	15,055.17	85.71%	35.72
5	MD	417.00	95.91%	38,839.67	96.93%	93.14
6	MD	348.33	94.89%	33,982.00	94.89%	97.56
7	MD	324.17	93.87%	26,292.17	90.81%	81.11
8	MD	305.50	92.85%	29,228.67	93.87%	95.67
9	MD	282.50	91.83%	22,187.67	89.79%	78.54
10	MD	278.50	90.81%	26,452.00	91.83%	94.98

Section 3D: Anesthesiology Specialty Detail

MD/DO opioid prescribers with Anesthesiology specialty, n = 57. 45% have one or fewer average prescriptions per month. State truncated mean for specialty = 40.88 prescriptions/month. State median for specialty = 1.17 prescriptions/month.



MD/DO: Anesthesiology

	Profession	Prescription/Month		Doses/Month		Doses/Prescription
State Median	MD/DO	1.17		124.7		
State Mean Truncated	MD/DO	40.88		2,248.46		
State-Level Dose/Prescription Ratio						78.29
Prescriber Detail	Profession	Prescription/Month	Percentile	Doses/Month	Percentile	Doses/Prescription
1	MD	1,233.67	100.00%	101,137.50	100.00%	82.05
2	MD	236.33	98.21%	17,311.83	96.42%	73.33
3	MD	210.33	96.42%	12,681.28	94.64%	60.06
4	MD	195.50	94.64%	19,569.50	98.21%	100.06
5	DO	119.33	92.85%	4,830.17	78.57%	40.44
6	MD	112.50	91.07%	9,592.67	92.85%	85.36
7	MD	93.83	89.28%	6,869.33	89.28%	73.57
8	MD	92.33	87.50%	8,215.17	91.07%	88.90
9	MD	68.00	83.92%	5,122.67	82.14%	75.45
10	MD	68.00	83.92%	4,842.83	80.35%	71.31

Section 4: Prescriber Detail

Prescriber A					
Profession:	MD	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Anesthesiology	Estimated ePDMP Usage:	89.1%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall	Number of Patients Prescribed Opioids by Prescriber:	1,137	
Opioids (includes buprenorphine)	7,912	93.98%			
Stimulants	N/A	N/A			
Benzodiazepines	39	0.46%			
Other	468	5.56%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/Prescription
Avg. Opioid Orders/Month	1,233.67	100%	1.17	40.88	
Avg. Opioid Doses/Month	101,137.5	100%	124.17	2,248	
Avg. Doses/Prescription	82.05				78.29
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	TBD	TBD	TBD	TBD	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		6,139	72.92%	
	Morphine Sulfate		908	10.79%	
	Pregabalin		457	5.43%	
	Buprenorphine HCl-Naloxone HCl Dihydrate		328	3.9%	
	Hydrocodone Bitartrate		328	3.9%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			51	
	High MME			824	

Prescriber B					
Profession:	MD	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Physical Medicine/Rehabilitation	Estimated ePDMP Usage:	77.7%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,960	94.35%	Number of Patients Prescribed Opioids by Prescriber:	723	
Stimulants	4	4.79%			
Benzodiazepines	32	0.76%			
Other	201	0.1%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	623.33	100%	7.5	38.69	
Avg. Opioid Doses/Month	63,150	100%	519.83	3,401.46	
Avg. Doses/Prescription	101.31				91.62
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	TBD	TBD	TBD	TBD	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name	Number of Dispensing	% of all Dispensing		
	Oxycodone HCl	1,952	46.5%		
	Hydrocodone-Acetaminophen	419	10%		
	Morphine Sulfate	389	9.3%		
	Oxycodone w/ Acetaminophen	372	8.9%		
	Tramadol HCl	183	4.4%		
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			133	
	High MME			330	

Prescriber C					
Profession:	MD	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	49.1%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,278	81.5%	Number of Patients Prescribed Opioids by Prescriber:	346	
Stimulants	66	1.64%			
Benzodiazepines	438	10.89%			
Other	240	5.97%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	514.83	100%	28.33	80.06	
Avg. Opioid Doses/Month	54,592.17	100%	2,211.93	6,666.73	
Avg. Doses/Prescription	106.04				84.69
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	TBD	TBD	TBD	TBD	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		1,038	25.81%	
	Morphine Sulfate		617	15.34%	
	Oxycodone w/ Acetaminophen		582	14.47%	
	Hydrocodone-Acetaminophen		313	7.78%	
	Alprazolam		194	4.82%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			139	
	High MME			233	

Prescriber D					
Profession:	MD	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	0.07		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	2,876	93.62%	Number of Patients Prescribed Opioids by Prescriber:	501	
Stimulants	N/A	N/A			
Benzodiazepines	91	2.96%			
Other	105	3.42%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	456.17	98.97%	28.33	80.06	
Avg. Opioid Doses/Month	50,098.50	98.97%	2,211.73	6,666.73	
Avg. Doses/Prescription	109.82				84.69
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	TBD	TBD	TBD	TBD	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		1,441	46.91%	
	Methadone HCl		295	9.6%	
	Hydrocodone-Acetaminophen		229	7.45%	
	Tramadol HCl		223	7.26%	
	Morphine Sulfate		201	3.42%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			99	
	High MME			220	

Prescriber E					
Profession:	MD	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	100%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	2,820	83.75%	Number of Patients Prescribed Opioids by Prescriber:	1,355	
Stimulants	N/A	N/A			
Benzodiazepines	149	4.43%			
Other	398	11.82%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	442.5	97.95%	28.33	80.06	
Avg. Opioid Doses/Month	39,627.33	97.95%	2,211.93	6,666.73	
Avg. Doses/Prescription	89.55				84.69
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	TBD	TBD	TBD	TBD	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		1,736	51.56%	
	Morphine Sulfate		252	7.48%	
	Pregabalin		219	6.5%	
	Oxycodone w/ Acetaminophen		156	4.63%	
	Tramadol HCl		151	4.48%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			797	
	High MME			213	