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# Analysis of Monitored Prescription Drug Dispensings: MD/DO/PA

Prepared for:

Medical Examining Board October 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. *An initial report provided to the Medical Examining Board in August of 2018 did not include PAs in the analysis. This amended report includes 2,581 PAs in the MD/DO analysis.*

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, MD/DO/PA

Profession: Physician - MD and DO, PA	
Total Number of Monitored Prescription Drugs Dispensed:	3,225,919
Total Number of Opioid Dispensings:	1,313,876
Total Number of Unique DEA Numbers Associated with Opioid Dispensings:	18,102

Figure 1: Opioid Prescribing Distribution - MD,DO and PA

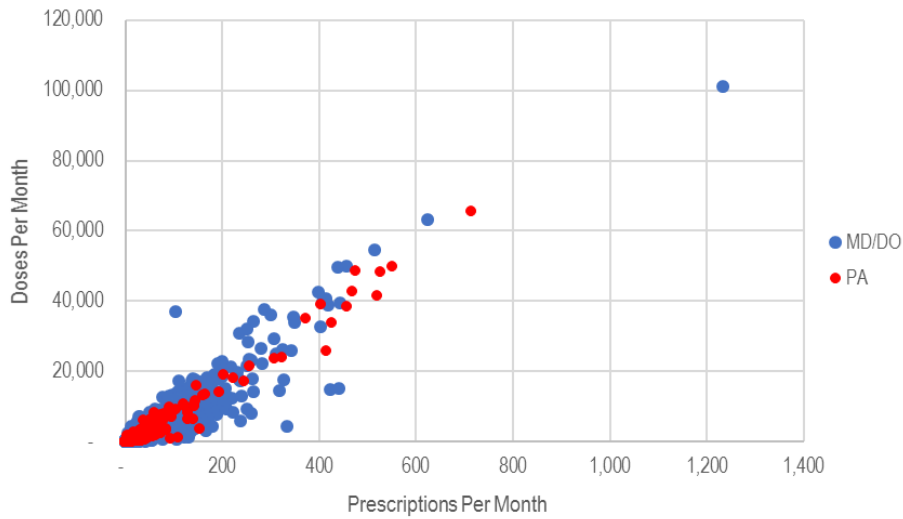
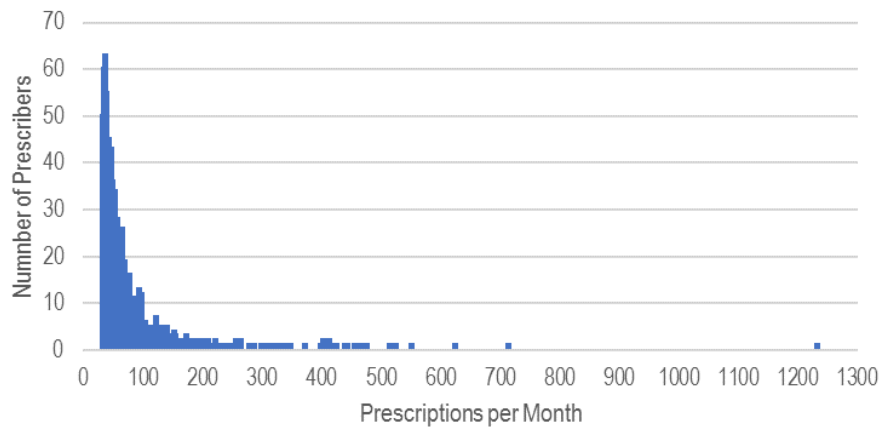


Figure 2: 90th Percentile Opioid Prescribing - MD,DO and PA\*



\*Top 10% of MD/DO/PA prescribers, based on average number of prescriptions filled/month. n = 1,809. Average of  $\geq 31.5$  opioid prescription dispensings/month.

## Section 2: Detail on Top Percentile (MD/DO—previously provided)

Top 23 MD/DO prescribers based on opioid prescriptions filled per month, December 1<sup>st</sup>, 2017 to May 31<sup>st</sup>, 2018, cutoff at average of approximately 300 opioid prescription dispensings/month. Highlighted rows indicate prescriber referrals from August 2018 meeting.

Table 1: Top Percentile MD/DO							
	Prescriber Detail		Monthly Average				Avg Doses/ Opioid Script
	Profession	Specialty	Opioid Orders	Percentile	Opioid Doses	Percentile	
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 2: Detail on Top Percentile (including PA)

Top 36 MD/DO/PA prescribers based on opioid prescriptions filled per month, December 1<sup>st</sup>, 2017 to May 31<sup>st</sup>, 2018, cutoff at average of approximately 300 opioid prescription dispensings/month.

Highlighted rows indicate prescriber referrals from August 2018 meeting.

Table 1: Top Percentile MD/DO							
	Prescriber Detail		Monthly Average				Avg Doses/ Opioid Script
	Profession	Specialty	Opioid Orders	Percentile	Opioid Doses	Percentile	
1.	MD	Anesthesiology	1,233.7	100.00%	101,137.5	99.99%	82.0
2.	PA	Pain Management	714.3	99.99%	65,637.3	99.98%	91.9
3.	MD	Physical Medicine/Rehabilitation	623.3	99.98%	63,150.2	99.98%	101.3
4.	PA	Pain Management	551.3	99.98%	49,805.0	99.96%	90.3
5.	PA	Pain Management	525.3	99.97%	48,408.3	99.95%	92.1
6.	PA	Pain Management	519.3	99.97%	41,449.2	99.93%	79.8
7.	MD	Pain Management	514.8	99.96%	54,592.2	99.97%	106.0
8.	PA	Pain Management	475.0	99.96%	48,499.0	99.95%	102.1
9.	PA	Pain Management	468.8	99.95%	42,907.0	99.94%	91.5
10.	PA	Pain Management	458.0	99.95%	38,526.2	99.90%	84.1
11.	MD	Pain Management	456.2	99.94%	50,098.5	99.97%	109.8
12.	MD	Pain Management	442.5	99.93%	39,627.3	99.91%	89.6
13.	MD	Family Practice	440.3	99.93%	15,348.2	99.55%	34.9
14.	MD	Physical Medicine/Rehabilitation	438.7	99.92%	49,663.7	99.96%	113.2
15.	PA	Pain Management	425.3	99.92%	33,868.8	99.85%	79.6
16.	DO	Pain Management	421.5	99.91%	15,055.2	99.51%	35.7
17.	MD	Pain Management	417.0	99.91%	38,839.7	99.90%	93.1
18.	PA	Pain Management	413.7	99.90%	25,714.3	99.80%	62.2
19.	MD	Surgery- Neurological	413.3	99.90%	40,682.0	99.92%	98.4
20.	MD	Family Practice	406.5	99.89%	39,923.8	99.92%	98.2
21.	PA	Pain Management	402.5	99.88%	39,095.7	99.91%	97.1
22.	MD	Orthopedics	402.2	99.88%	32,736.0	99.85%	81.4
23.	MD	Physical Medicine/Rehabilitation	398.3	99.87%	42,638.3	99.93%	107.0
24.	PA	Pain Management	372.3	99.87%	35,174.8	99.87%	94.5
25.	MD	Pain Management	348.3	99.86%	33,982.0	99.86%	97.6
26.	MD	Orthopedics	347.3	99.86%	35,618.5	99.87%	102.5
27.	MD	Internal Medicine	341.7	99.85%	25,854.2	99.81%	75.7
28.	MD	Internal Medicine	333.2	99.85%	4,552.5	96.23%	13.7
29.	MD	Addiction Medicine	326.8	99.84%	17,575.0	99.62%	53.8
30.	MD	Pain Management	324.2	99.83%	26,292.2	99.81%	81.1
31.	PA	Pain Management	322.0	99.83%	24,108.5	99.79%	74.9
32.	MD	Oncology (including radiation oncology)	316.7	99.82%	14,533.5	99.49%	45.9
33.	MD	Rheumatology	311.7	99.82%	25,119.7	99.80%	80.6
34.	PA	Pain Management	306.5	99.81%	23,632.0	99.78%	77.1
35.	MD	Pain Management	305.5	99.81%	29,228.7	99.83%	95.7
36.	MD	Physical Medicine/Rehabilitation	298.5	99.80%	36,065.5	99.88%	120.8

### Section 3: Pain Management Specialty Detail

MD/DO/PA opioid prescribers with Pain Management specialty, n = 132. State truncated mean for specialty = 120.1 prescriptions/month. State median for specialty = 45.8 prescriptions/month.

Figure 7: Opioid Prescribing Distribution - Pain Management

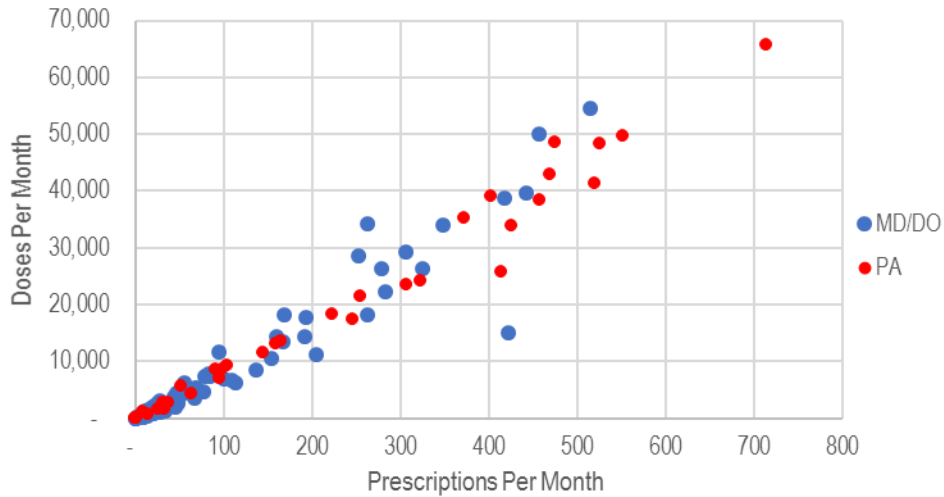
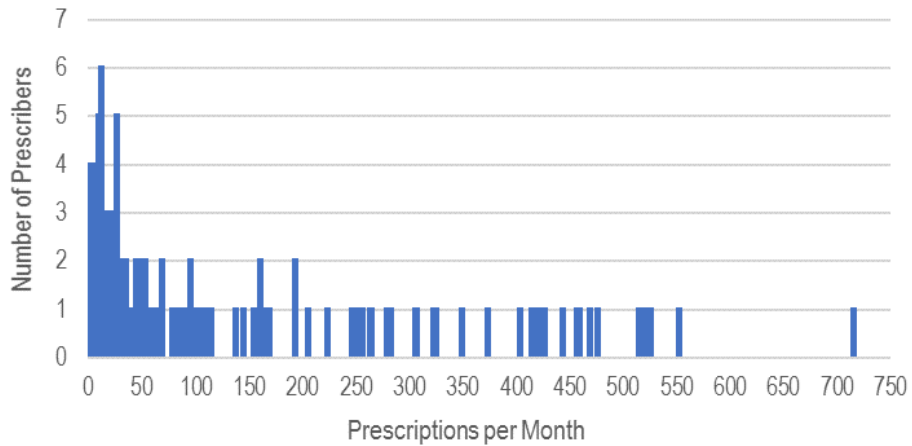


Figure 8: Overall Volume Opioid Prescribing - Pain Management



<b>MD/DO/PA: Pain Management</b>						
	<b>Profession</b>	<b>Prescription/Month</b>		<b>Doses/Month</b>		<b>Doses/Prescription</b>
<b>State Median</b>	<b>MD/DO/PA</b>	<b>45.8</b>		<b>2,981.5</b>		
<b>State Mean Truncated</b>	<b>MD/DO/PA</b>	<b>120.1</b>		<b>10,017.2</b>		
<b>State-Level Dose/Prescription Ratio</b>	<b>MD/DO/PA</b>					<b>85.1</b>
<b>Prescriber Detail</b>	<b>Profession</b>	<b>Prescription/Month</b>	<b>Percentile</b>	<b>Doses/Month</b>	<b>Percentile</b>	<b>Doses/Prescription</b>
1	PA	714.3	100.00%	65,637.3	100.00%	91.9
2	PA	551.3	99.23%	49,805.0	97.70%	90.3
3	PA	525.3	98.47%	48,408.3	96.18%	92.1
4	PA	519.3	97.70%	41,449.2	94.65%	79.8
5	MD	514.8	96.94%	54,592.2	99.23%	106.0
6	PA	475.0	96.18%	48,499.0	96.94%	102.1
7	PA	468.8	95.41%	42,907.0	95.41%	91.5
8	PA	458.0	94.65%	38,526.2	91.60%	84.1
9	MD	456.2	93.89%	50,098.5	98.47%	109.8
10	MD	442.5	93.12%	39,627.3	93.89%	89.6

NOTE: Including PAs in the analysis impacts the statewide comparison within specialty that was included in the August 2018 report. The table below summarizes the impact when PAs are included in the statewide analysis for Pain Management, and the tables on the following pages provide additional detail on the 7 PAs listed above.

<b>Pain Management</b>						
	<b>MD/DO</b>			<b>MD/DO/PA</b>		
	<b>Prescription/ Month</b>	<b>Doses/ Month</b>	<b>Doses/ Prescription</b>	<b>Prescription/ Month</b>	<b>Doses/ Month</b>	<b>Doses/ Prescription</b>
<b>State Median</b>	<b>28.33</b>	<b>2,211.9</b>		<b>45.8</b>	<b>2,981.5</b>	
<b>State Mean Truncated</b>	<b>80.06</b>	<b>6,666.73</b>		<b>120.1</b>	<b>10,017.2</b>	
<b>State-Level Dose/Prescription Ratio</b>			<b>84.69</b>			<b>85.1</b>

<b>Prescriber 1</b>					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	62.3%		
<b>Prescribing Summary: 12/1/2017 - 5/31/2018</b>					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	4,526	90.16%	Number of Patients Prescribed Opioids by Prescriber:	1,617	
Stimulants	0	0%			
Benzodiazepines	45	0.90%			
Other	449	8.94%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	714.3	100%	45.8	120.1	
Avg. Opioid Doses/Month	65,637.3	100%	2,981.5	10,017.2	
Avg. Doses/Prescription	91.9				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	3	23	4,493	7	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		2,830	56.37%	
	Morphine Sulfate		427	8.51%	
	Tramadol HCl		270	5.38%	
	Oxycodone w/ Acetaminophen		233	4.64%	
Methadone HCl		212	4.22%		
<b>Data Driven Alerts: As of 6/1/2018 (preceding 100 days)</b>					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			207	
	High MME			866	

<b>Prescriber 2</b>					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	100%		
<b>Prescribing Summary: 12/1/2017 - 5/31/2018</b>					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,489	97.13%	Number of Patients Prescribed Opioids by Prescriber:	595	
Stimulants	0	0%			
Benzodiazepines	0	0%			
Other	103	2.87%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	551.3	99.23%	45.8	120.1	
Avg. Opioid Doses/Month	49,805	97.70%	2,981.5	10,017.2	
Avg. Doses/Prescription	90.3				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	4	137	3,345	3	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		2,248	62.58%	
	Morphine Sulfate		376	10.47%	
	Oxycodone w/ Acetaminophen		344	9.58%	
	Hydrocodone-Acetaminophen		189	5.26%	
	Methadone HCl		125	3.48%	
<b>Data Driven Alerts: As of 6/1/2018 (preceding 100 days)</b>					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			42	
	High MME			341	



Prescriber 3					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	49.2%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,422	89.14%	Number of Patients Prescribed Opioids by Prescriber:	564	
Stimulants	45	1.17%			
Benzodiazepines	76	1.98%			
Other	296	7.71%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	525.3	98.47%	45.8	120.1	
Avg. Opioid Doses/Month	48,408.3	96.18%	2,981.5	10,017.2	
Avg. Doses/Prescription	92.1				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	4	39	2,841	538	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		828	21.57%	
	Oxycodone w/ Acetaminophen		656	17.09%	
	Morphine Sulfate		543	14.14%	
	Hydrocodone-Acetaminophen		447	11.64%	
	Hydromorphone HCl		364	9.48%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			142	
	High MME			217	

Prescriber 4					
Profession:	PA	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)	3,364	90.72%	Number of Patients Prescribed Opioids by Prescriber:	683	
Stimulants	8	0.22%			
Benzodiazepines	151	4.07%			
Other	185	4.99%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	519.3	97.70%	45.8	120.1	
Avg. Opioid Doses/Month	41,449.2	94.65%	2,981.5	10,017.2	
Avg. Doses/Prescription	79.8				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	24	470	2,815	55	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name	Number of Dispensing	% of all Dispensing		
	Hydrocodone-Acetaminophen	842	22.71%		
	Morphine Sulfate	740	19.96%		
	Oxycodone HCl	567	15.29%		
	Oxycodone w/ Acetaminophen	396	10.68%		
	Tramadol HCl	256	6.90%		
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			152	
	High MME			305	

Prescriber 6					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	55.6%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,089	92.71%	Number of Patients Prescribed Opioids by Prescriber:	1,194	
Stimulants	1	0.03%			
Benzodiazepines	30	0.90%			
Other	212	6.36%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	475.0	96.18%	45.8	120.1	
Avg. Opioid Doses/Month	48,499.0	96.94%	2,981.5	10,017.2	
Avg. Doses/Prescription	102.1				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	26	153	2,870	40	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone w/ Acetaminophen		923	27.70%	
	Hydrocodone-Acetaminophen		707	21.22%	
	Oxycodone HCl		484	14.53%	
	Morphine Sulfate		311	9.33%	
	Tramadol HCl		204	6.12%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			190	
	High MME			242	

Prescriber 7					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	27.4%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	3,041	92.77%	Number of Patients Prescribed Opioids by Prescriber:	1,248	
Stimulants	0	0%			
Benzodiazepines	4	0.12%			
Other	233	7.11%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	468.8	95.41%	45.8	120.1	
Avg. Opioid Doses/Month	42,907.0	95.41%	2,981.5	10,017.2	
Avg. Doses/Prescription	91.5				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	0	3	3,030	8	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		1,965	59.95%	
	Morphine Sulfate		297	9.06%	
	Oxycodone w/ Acetaminophen		176	5.37%	
	Methadone HCl		160	4.88%	
	Tramadol HCl		139	4.24%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			158	
	High MME			686	

Prescriber 8					
Profession:	PA	Registered with the WI ePDMP:	Yes		
Specialty (self-reported):	Pain Management	Estimated ePDMP Usage:	73.8%		
Prescribing Summary: 12/1/2017 - 5/31/2018					
Dispensing Data	# of scripts	% of overall			
Opioids (includes buprenorphine)	2,960	93.20%	Number of Patients Prescribed Opioids by Prescriber:	493	
Stimulants	12	0.38%			
Benzodiazepines	12	0.38%			
Other	192	6.05%			
Opioid Dispensing	Prescriber	Peer %	State Median	State Mean (Truncated)	Doses/ Prescription
Avg. Opioid Orders/Month	458.0	94.65%	45.8	120.1	
Avg. Opioid Doses/Month	38,526.2	91.60%	2,981.5	10,017.2	
Avg. Doses/Prescription	84.1				85.1
	3 days or less	More than 3 days ≤ 10 days	More than 10 days ≤ 30 days	More than 30 days	
Days Supply Opioid Orders	2	95	2,824	39	
Top 5 Monitored Prescription Drugs Ordered by Prescriber (All Drug Classes)	Drug Name		Number of Dispensing	% of all Dispensing	
	Oxycodone HCl		665	20.94%	
	Hydrocodone-Acetaminophen		584	18.39%	
	Oxycodone w/ Acetaminophen		531	16.72%	
	Morphine Sulfate		398	12.53%	
	Tramadol HCl		192	6.05%	
Data Driven Alerts: As of 6/1/2018 (preceding 100 days)					
	Alert Type			Number of Alerts	
Concerning Patient History	Concurrent Opioid/Benzo			126	
	High MME			182	