

OPIOID UTILIZATION SUPPLEMENT BASED ON 2019 SERVICE DATES



Disclaimers

©Delaware Compensation Rating Bureau, Inc. All rights reserved.

The Medical Activity Report: Opioid Supplement for Delaware was prepared by the DCRB. Its content serves as a reference tool and is intended for informational purposes only. Users of the data agree not to misuse, add to without permission, or misrepresent the data provided in any way.

Although the greatest care has been taken to ensure that our data is upto-date, accurate, and complete, the DCRB is providing this data "as is". This data is what we believe to be the best available data based on data submitted to the DCRB by member insurance carriers. The user assumes all responsibility and risk for use of the data. The DCRB disclaims all warranties of any kind, expressed or implied, to the fullest extent permissible pursuant to applicable law, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose. Any and all results, conclusions, analyses, or decisions developed or derived from, on account of, or through your use of the report are yours; the DCRB does not endorse, approve, or otherwise acquiesce in your actions, results, analyses, or decisions, nor shall the DCRB or other contributors to the Medical Activity Report: Opioid Supplement have any liability thereto.

Table of Contents

Exhibit Name	<u>Exhibit #</u>
Drug Share of Medical Payments	1
Distribution of Drugs by Opioid and Non-Opioid	2
Distribution of Opioids by Drug Schedule	3
Top 10 Opioid Drugs by Amount Paid	4
Top 10 Opioid Drugs by Prescription Counts	5
Rx Claim Distributions	6
Average Number of Prescriptions per Opioid Claim	7
Average Amount Paid for Prescription Drugs per Opioid Claim	8
Top 5 Non-Opioid Drugs for Opioid Claims by Amount Paid	9
Top 5 Non-Opioid Drugs for Opioid Claims by Number of Prescriptions	10
Average Number of Prescriptions by Claim Type	11
Top 5 Benzos by Amount Paid	12
Share of Drug Claims With at Least One Opioid Prescription by Service Year	13
Average Number of Opioid Prescriptions per Opioid Claim by Service Year	14
Average Opioid Payment per Opioid Claim by Service Year	15
Average Payment per Opioid Prescription by Service Year	16
Opioid Claim Distribution by Claim Maturity in Years	17
Top Body Systems by Amount Paid for Opioid Claims with Dates of Injury in 2018	18
Top Diagnosis Groups by Amount Paid for Opioid Claims with Dates of Injury in 2018	19
Opioid Antagonist (Narcan) Utilization by Service Year	20

Introduction

Prescription opioids are a class of drugs used to treat moderate to severe pain, particularly chronic pain. In response to the opioid crisis, Delaware has established laws and regulations to address opioid prescribing patterns for workers compensation injuries. The Delaware regulations are found in the Delaware Workers' Compensation Health Care Payment System Preferred Drug List (PDL).

This report is intended to be one of several resources available to stakeholders, including regulators, who are interested in the prescription drug component of medical costs in workers compensation claims. This report specifically focuses on opioid prescription costs and utilization rates. At the end of each calendar year, the DCRB will publish the results for the prior complete service year.

This report uses medical data exclusively. The medical data contained in this report relies primarily upon the standard established by the National Council on Compensation Insurance, Inc. (NCCI) Medical Data Call and shared with all independent bureaus and the Workers Compensation Insurance Organizations (WCIO). The DCRB collects, summarizes and analyzes this information independently of the NCCI. This report looks at established key benchmarks related to analysis of prescription drug payments to allow for general comparisons across states.

The source for data for all exhibits in this supplement is the DCRB Medical Data Call for Service Years 2015-2019. For detailed information on what is included in each of the following exhibits, refer to the Technical Appendix.

Opioid Definitions

DCRB uses industry standard definitions to identify opioid data. Opioids are classified into categories, depending on receptor binding and affinity. These classifications are agonist, partial agonist, and antagonist.

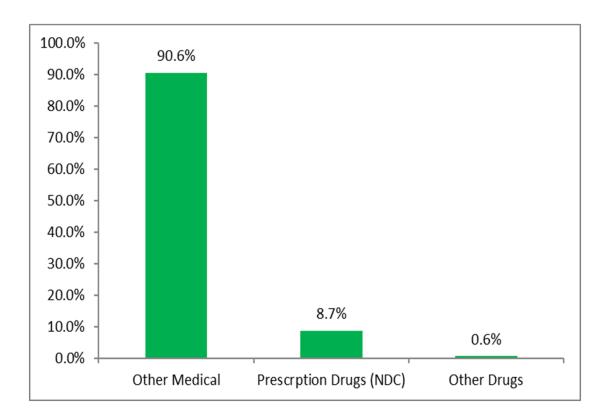
Opiate Agonists – Full agonists bind tightly to the opioid receptors and undergo significant conformational change to produce maximal effect. Examples of full agonists include codeine, fentanyl, heroin, hydrocodone, methadone, morphine, and oxycodone.

Opiate Partial Agonists – Partial agonists cause less conformational change and receptor activation than full agonists. At low doses, both full and partial agonists may provide similar effects to their full agonist cousins. However, when the dose of partial agonists increases, the analgesic activity will plateau, and further increases in doses will not provide additional relief but may increase the adverse effects. Examples of partial agonists include buprenorphine, butorphanol, and tramadol.

Opiate Antagonists – Antagonists, such as Naloxone, are a mu-opioid receptor antagonist and reversal agent used to mitigate risk for opioid-induced respiratory depression by displacing the full opioid agonists. The available formulations are Narcan (nasal), Evzio (Auto-injector), and solution for injection, the latter of which is frequently administered off label intranasally, by attaching an atomizer to the end of a syringe.

For the exhibits in this report where opioids were identified, the categories of Opiate Agonists and Opiate Partial Agonists were combined. With the exception of Exhibit 1, all other exhibits are based only on data reported with an NDC code.

Exhibit 1 Drug Share of Medical Payments



Drugs are uniquely identified by a national drug code (NDC). Payments are categorized as drugs if the code reported on the transaction is an NDC. Drug payments may also be reported using codes other than NDC codes, such as HCPCS codes, revenue codes, and other state-specific codes. These are referred to as Other Drugs in Exhibit 1. This exhibit displays the prescription drug share of medical payments in Delaware. For Service Year 2019, Delaware spent \$3.7 million on over 21,000 prescriptions for workers compensation claims.

Exhibit 2 Distribution of Drugs by Opioid and Non-Opioid

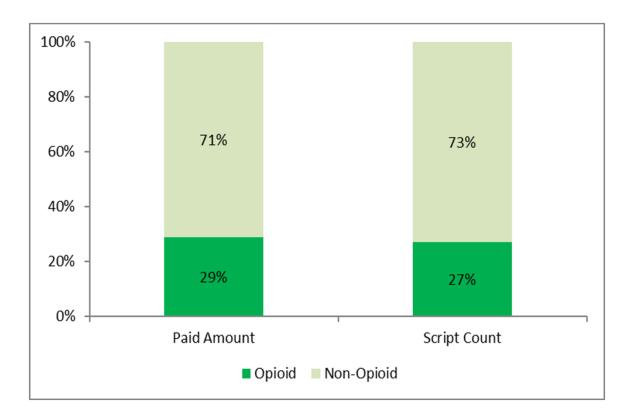
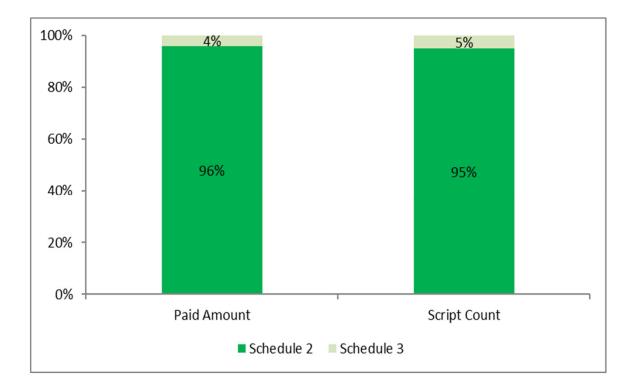


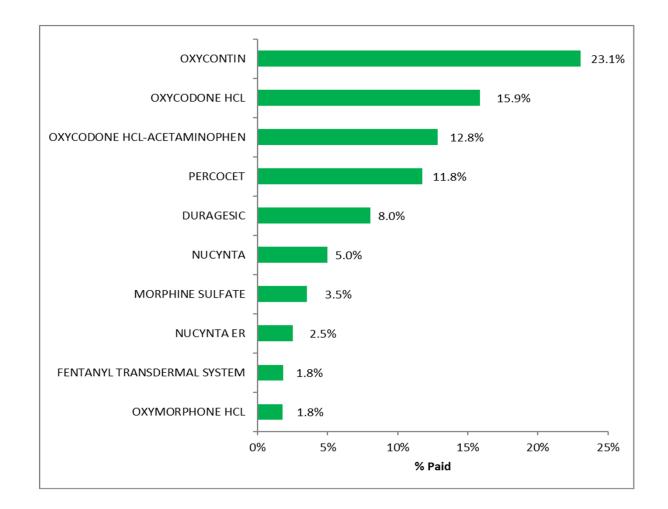
Exhibit 2 shows the proportion of drug payments and prescription counts for opioids. In 2019, Delaware spent over \$1 million on over 5,800 opioid prescriptions. Five of the top ten drugs by amount paid are opioids and account for over 20% of drug payments.

Exhibit 3 Distribution of Drugs by Opioid and Non-Opioid



Opioids are subject to the Controlled Substance Act (CSA) which regulates certain drugs with a high potential for abuse. Opioids are primarily classified as Schedule 2 and Schedule 3 drugs. There was no Schedule 4 opioid utilization in Delaware. This exhibit shows the percentage of opioid payments and opioid prescriptions by schedule.

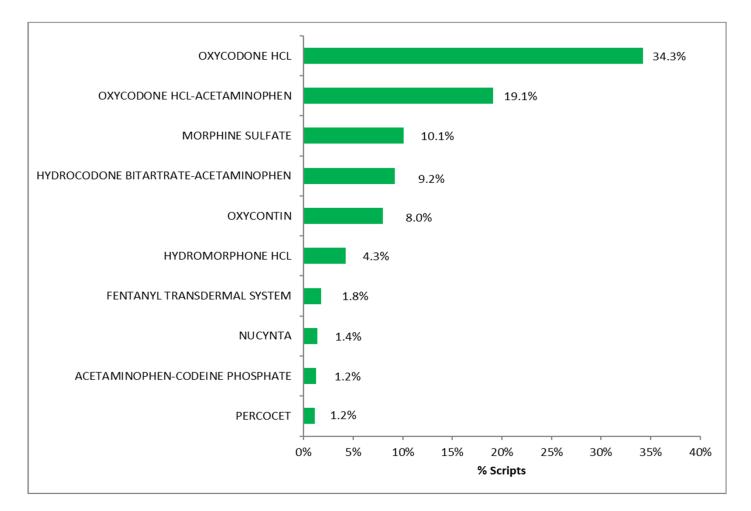
Exhibit 4 Top 10 Opioid Drugs by Amount Paid



Drug Name	B/G	Common Brand Name	CSA Schedule	Average PPU
OXYCONTIN	В	N/A	2	\$8.90
OXYCODONE HCL	G	OXYCONTIN	2	\$0.67
OXYCODONE HCL-ACETAMINOPHEN	G	PERCOCET	2	\$1.12
PERCOCET	В	N/A	2	\$18.55
DURAGESIC	В	N/A	2	\$114.24
NUCYNTA	В	N/A	2	\$7.59
MORPHINE SULFATE	G	DURAMOPRH	2	\$1.01
NUCYNTA ER	В	N/A	2	\$12.94
FENTANYL TRANSDERMAL SYSTEM	G	DURAGESIC	2	\$17.62
OXYMORPHONE HCL	G	OPANA	2	\$6.81

*PPU = Paid per unit

Exhibit 5 Top 10 Opioid Drugs by Prescription Counts



Drug Name	B/G	Common Brand Name	CSA Schedule	Average PPU
OXYCODONE HCL	G	OXYCONTIN	2	\$0.67
OXYCODONE HCL-ACETAMINOPHEN	G	PERCOCET	2	\$1.12
MORPHINE SULFATE	G	DURAMORPH	2	\$1.01
HYDROCODONE BITARTRATE-ACETAMINOPHEN	G	VICODIN	2	\$0.23
OXYCONTIN	В	N/A	2	\$8.90
HYDROMORPHONE HCL	G	DILAUDID	2	\$0.78
FENTANYL TRANSDERMAL SYSTEM	G	DURAGESIC	2	\$17.62
NUCYNTA	В	N/A	2	\$7.59
ACETAMINOPHEN-CODEINE PHOSPHATE	G	TYLENOL W/CODEINE #3	3	\$0.40
PERCOCET	В	N/A	2	\$18.55

Concurrent Usage of Opioids and Benzodiazepines (Benzos)

More than 30 percent of overdoses involving opioids also involve benzodiazepines, a type of prescription sedative commonly prescribed for anxiety or to help with insomnia. Benzodiazepines (sometimes called "benzos") work to calm or sedate a person, by raising the level of the inhibitory neurotransmitter GABA in the brain. Common benzodiazepines include diazepam (Valium), alprazolam (Xanax), and clonazepam (Klonopin), among others. Previous studies have also highlighted the dangers of co-prescribing opioids and benzodiazepines.

In 2016, the Centers for Disease Control and Prevention (CDC) issued new guidelines for the prescribing of opioids. They recommend that clinicians avoid prescribing benzodiazepines concurrently with opioids whenever possible. Both prescription opioids and benzodiazepines now carry FDA "black box" warnings on the label highlighting the dangers of using these drugs together.

DCRB uses industry standard definitions to identify benzodiazepines (benzos). Benzos are typically CSA Schedule 4.

Several definitions of drug claims are used in the following exhibits.

- Rx claim a claim with at least one prescription
- Opioid clam a claim that had at least one opioid prescription
- Non-Opioid claim a claim that had at least one prescription but not opioid prescriptions
- Opioid claim with benzos a claim that had at least one opioid prescription and at least one benzo prescription
- Opioid claim without benzos a claim that had at least one opioid prescription and no benzo prescriptions

Exhibit 6 Rx Claim Distributions

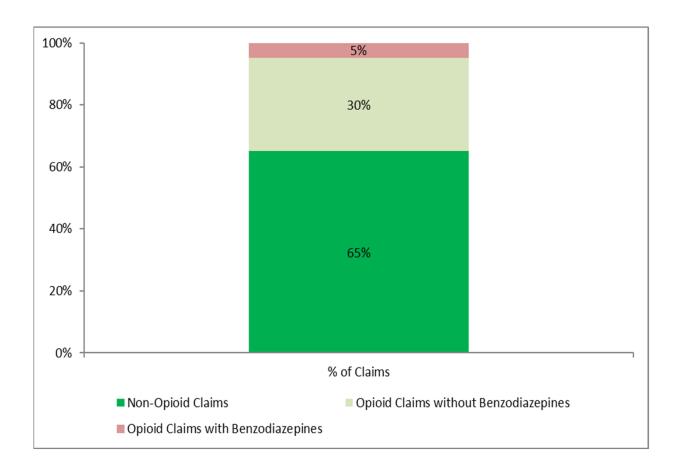


Exhibit 6 displays the distribution of Rx claims that had at least one prescription by Non-Opioid claims and Opioid claims with and without Benzos.

Exhibit 7 Average Number of Prescriptions per Opioid Claim

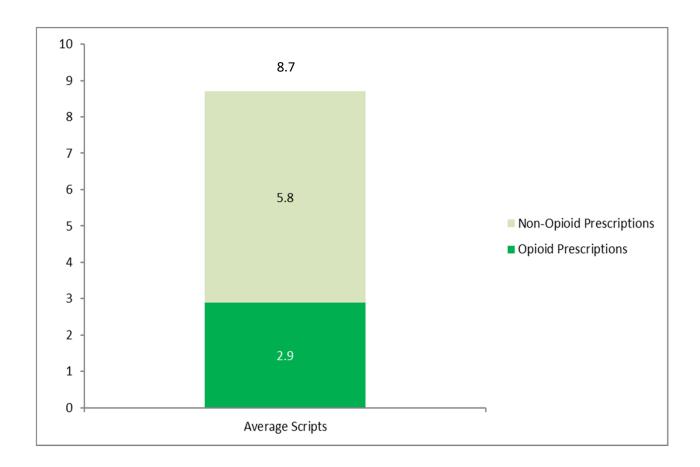


Exhibit 7 shows the average number of opioid and non-opioid prescriptions per opioid claim. Claimants who have been prescribed opioids are typically prescribed a greater number of prescriptions overall than claimants who have not been prescribed opioids. In Delaware, an opioid claim has an average number of 8.7 prescriptions whereas a non-opioid claim has an average number of 2.0 prescriptions.

Exhibit 8 Average Amount Paid for Prescription Drugs per Opioid Claim

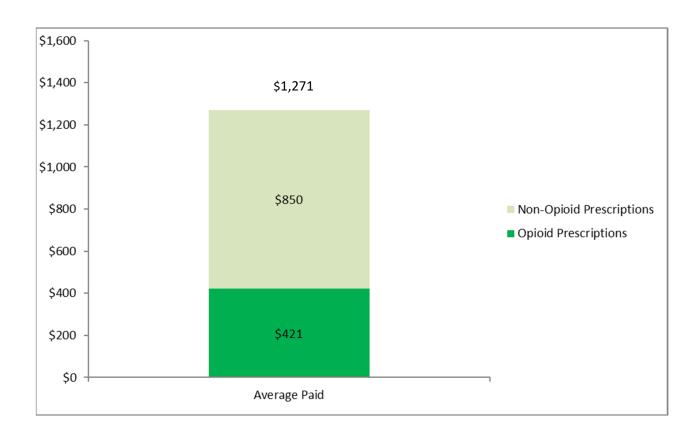


Exhibit 8 shows the average amount paid for per opioid claim. In Delaware, an opioid claim has an average paid amount of \$1,271 whereas a non-opioid claim has an average paid amount of \$557 for prescriptions.

Exhibit 9 Top 5 Non-Opioid Drugs Prescribed in Opioid Claims by Amount Paid

			% of Non-Opioid	
Drug Name	Common Brand Name	B/G	Drug Payments	Average PPU
TEFLARO	N/A	В	10.1%	\$7.86
LYRICA	N/A	В	8.8%	\$6.65
DICLOFENAC SODIUM	VOLTAREN	G	6.6%	\$2.72
LIDOCAINE	XYLOCAINE HCL	G	6.4%	\$4.27
GABAPENTIN	NEURONTIN	G	6.0%	\$0.94

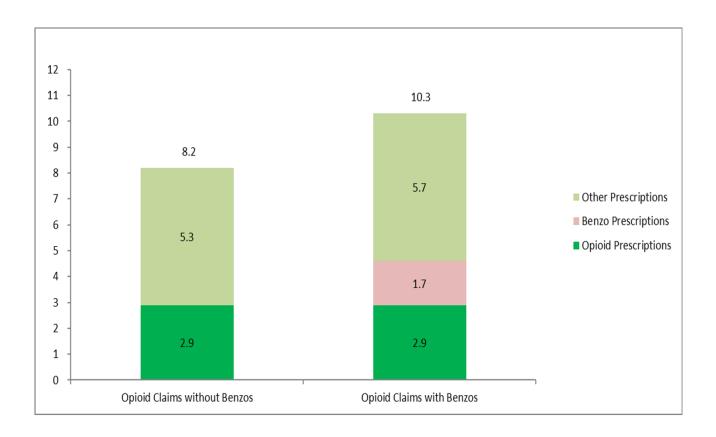
Exhibit 10

Top 5 Non-Opioid Drugs Prescribed in Opioid Claims by Number of Prescriptions

			% of Non-Opioid	
Drug Name	Common Brand Name	B/G	Drug Payments	Average PPU
GABAPENTIN	NEURONTIN	G	11.0%	\$0.94
CYCLOBENZAPRINE HCL	FLEXERIL	G	7.6%	\$1.47
TIZANIDINE HCL	ZANAFLEX	G	6.4%	\$0.91
TRAMADOL HCL	ULTRAM	G	3.7%	\$0.72
IBUPROFEN	ADVIL	G	4.6%	\$0.38

*PPU = Paid per unit

Exhibit 11 Average Number of Prescriptions by Claim Type



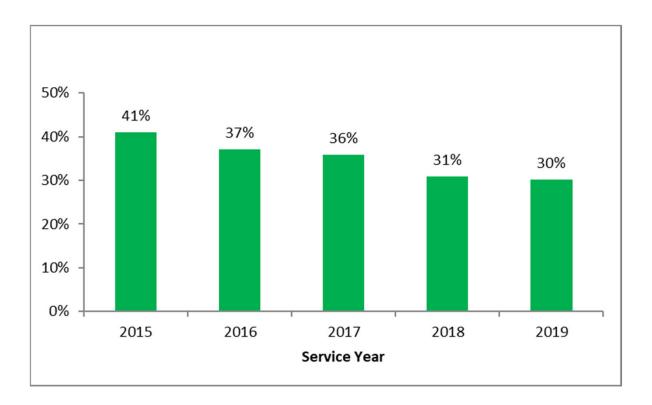
This exhibit shows the average number of opioid, benzo, and other types of prescriptions for opioid claims with and without benzos. In Delaware, an opioid claim without benzos has an average number of 8.2 prescriptions, whereas an opioid claim with benzos has an average number of 10.3 prescriptions.

Exhibit 12 Top 5 Benzos by Amount Paid

			% of Benzo	
Drug Name	Common Brand Name	B/G	Payments	Average PPU
ALPRAZOLAM	XANAX	G	41.2%	\$0.38
LORAZEPAM	ATIVAN	G	22.0%	\$0.47
CLONAZEPAM	KLONOPIN	G	18.3%	\$0.21
TEMAZEPAM	RESTORIL	G	9.7%	\$2.00
DIAZEPAM	VALIUM	G	6.0%	\$0.24

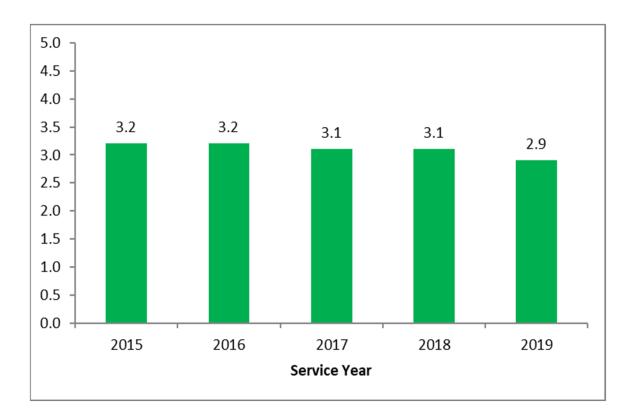
This exhibit shows the top five benzos concurrently used with opioids, along with the paid per unit (PPU) for each of these benzodiazepines.

Exhibit 13 Share of Drug Claims With at Least One Opioid Prescription by Service Year



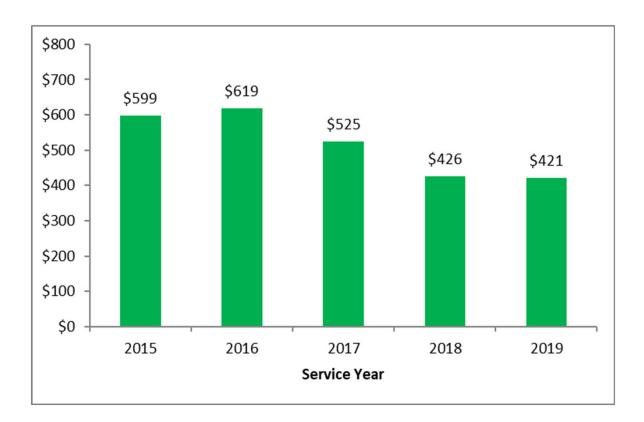
This exhibit displays the percentage of drug claims with at least one opioid prescription over the last five service years.

<u>Exhibit 14</u> <u>Average Number of Opioid Prescriptions per Opioid Claim by Service Year</u>



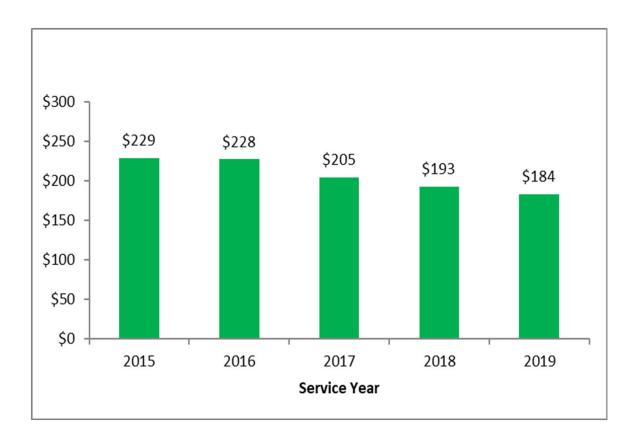
This exhibit displays the change in the average number of opioid prescriptions per opioid claim over the last five service years.

<u>Exhibit 15</u> <u>Average Opioid Payment per Opioid Claim by Service Year</u>



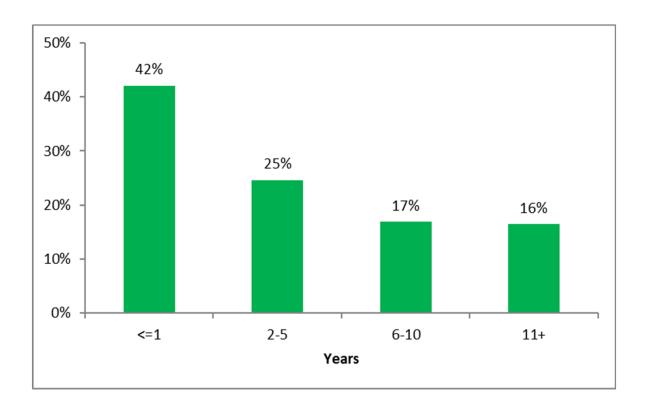
This exhibit displays the change in the average opioid payment per opioid claim over the last five service years.

<u>Exhibit 16</u> <u>Average Payment per Opioid Prescription by Service Year</u>



This exhibit displays the change in the average opioid payment per opioid prescription over the last five service years.

Exhibit 17 Opioid Claim Distribution by Claim Maturity in Years



This exhibit displays the distribution of opioid claims by claim maturity. Maturity is measured by the number of years from the date of injury.

Exhibit 18 Top Body Systems by Amount Paid for Opioid Claims with Dates of Injury in 2018

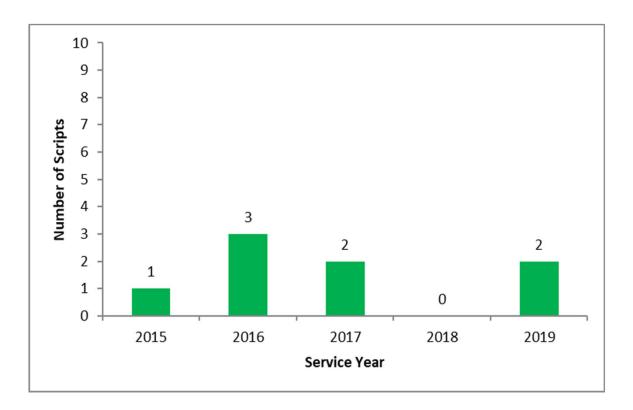
Body System	Paid Share	Average Amount Paid Per Claim
Diseases of the musculoskeletal system and connective tissue	49.8%	\$12,332
Injury, poisoning and certain other consequences of external causes	34.9%	\$6,979
Diseases of the nervous system	3.3%	\$2,036
Factors influencing health status and contact with health services	2.4%	\$1,125
Diseases of the circulatory system	1.7%	\$4,409
Certain infectious and parasitic diseases	1.3%	\$20,013
Diseases of the digestive system	1.1%	\$4,967
Symptoms, signs and abnormal clinical and laboratory findings, NOC	0.5%	\$426
Endocrine, nutritional and metabolic diseases	0.4%	\$1,110
Diseases of the skin and subcutaneous tissue	0.3%	\$796

<u>Exhibit 19</u>

Top Diagnosis Groups by Amount Paid for Opioid Claims with Dates of Injury in 2018

Diagnosis Group	Paid Share	Average Amount Paid Per Claim
Other dorsopathies	23.6%	\$13,139
Other soft tissue disorders	8.1%	\$4,117
Injuries to the knee and lower leg	7.9%	\$7,831
Injuries to the wrist, hand and fingers	7.1%	\$7,159
Other joint disorders	6.7%	\$2,560
Injuries to the shoulder and upper arm	4.9%	\$4,599
Spondylopathies	4.5%	\$4,887
Injuries to the ankle and foot	3.9%	\$5,777
Injuries to the elbow and forearm	2.7%	\$6,248
Osteoarthritis	2.0%	\$3,962

Exhibit 20 Opioid Antagonist (Narcan) Utilization by Service Year



This exhibit displays the number of scripts for opioid antagonists. Antagonists, such as Naloxone, are a mu-opioid receptor antagonist and reversal agent used to mitigate risk for opioid-induced respiratory depression by displacing the full opioid agonists. The available formulations are Narcan (nasal), Evzio (Auto-injector), and solution for injection, the latter of which is frequently administered off label intranasally, by attaching an atomizer to the end of a syringe.

Appendix A: Summary Reference of Key Results

#	Exhibit Name	Delaware Results 2019
		Other Medical 90.6%, Prescription Drugs (NDC) 8.7%,
1	Drug Share of Medical Payments	Other Drugs 0.6%
	Distribution of Drugs by Opioid	By Paid Amount: Opioid 29%, Non-Opioid 671%
2	and Non-Opioid	By Script Count: Opioid 27%, Non-Opioid 73%
	Distribution of Drugs by Drug	By Paid Amount: 96% Sch 2, 4% Sch 3, 0% Sch 4
3	Schedule	By Script Count: 95% Sch 2, 5% Sch 3, 0% Sch 4
		Oxycontin (23.1%), Oxycodone HCL (15.9%),
		Oxycodone HCL-Acetaminophen (12.8%), Percocet
		(11.8%), Duragesic (8.0%), Nucynta (5.0%), Morphine
	Top 10 Opioid Drugs by Paid	Sulfate (3.5%), Nucynta ER (2.5%), Fentanyl
4	Amount	Transdermal System (1.8%), Oxymorphone HCL (1.8%)
		Oxycodone HCL (34.3%), Oxycodone HCL-
		Acetaminophen (19.1%), Morphine Sulfate (10.1%),
		Hydrocodone Bitartrate-Acetaminophen (9.2%),
		Oxycontin (8.0%), Hydromorphone HCL (4.3%),
		Fentanyl Transdermal System (1.8%), Nucynta (1.4%),
	Top 10 Opioid Drugs by	Acetaminophen-Codeine Phosphate (1.2%), Percocet
5	Prescription Counts	(1.2%)
		Opioid Claims without Benzos 30%,
		Opioid Claims with Benzos 5%,
6	Rx Claim Distributions	Non-Opioid Claims 65%
		Opioid Prescriptions 2.9,
	Average Number of Prescriptions	Non-Opioid Prescriptions 5.8,
7	per Opioid Claim	Total 8.7
	Average Amount Paid for	Opioid Prescriptions \$421,
	Prescription Drugs per Opioid	Non-Opioid Prescriptions \$850,
8	Claim	Total \$1,271
	Top 5 Non-Opioid Drugs for	Teflaro (10.1%), Lyrica (8.8%), Diclofenac Sodium
9	Opioid Claims by Amount Paid	(6.6%), Lidocaine (6.4%), Gabapentin (6.0%)
10	Top 5 Non-Opioid Drugs for Opioid Claims by Number of Prescriptions	Gabapentin (11.0%), Cyclobenzaprine HCL (7.6%), Tizanidine HCL (6.4%), Tramadol HCL (3.7%), Ibuprofen (4.6%)
10	Frescriptions	(4.6%)

Appendix A: Summary Reference of Key Results

#	Exhibit Name	Delaware Results 2019
	Average Number of Prescriptions	Opioid Prescriptions 2.9,
	by Claim Type: Opioid Claims	Other Prescriptions 5.3,
11A	without Benzos	Total 8.2
		Opioid Prescriptions 2.9,
	Average Number of Prescriptions	Benzo Prescriptions 1.7,
	by Claim Type: Opioid Claims with	Other Prescriptions 5.7
11B	Benzos	Total 10.3
		Alprazolam (41.2%), Lorazepam (22.0%), Clonazepam
12	Top 5 Benzos by Amount Paid	(18.3%), Temazepam (9.7%), Diazepam (6.0%),
	Share of Drug Claims With at	
	Least One Opioid Prescription by	2015 - 41%, 2016 - 37%, 2017 - 36%,
13	Service Year	2018 - 31%, 2019 - 30%
	Average Number of Opioid	
	Prescriptions per Opioid Claim by	2015 - 3.2, 2016 - 3.2, 2017 - 3.1,
14	Service Year	2018 - 3.1, 2019 - 2.9
	Average Opioid Payment per	2015 - \$599, 2016 - \$619, 2017 - \$525,
15	Opioid Claim by Service Year	2018 - \$426, 2019 - \$421
	Average Payment per Opioid	2015 - \$229, 2016 - \$228, 2017 - \$205,
16	Prescription by Service Year	2018 - \$193, 2019 - \$184
		Year <=1 - 42%.
		Year 2-5 - 25%,
	Opioid Claim Distribution by Claim	Year 6-10 - 17%,
17	Maturity in Years	Year 11+ - 16%
17		Average Paid Per Claim for top 10 groups: Muscles
		(\$12,332), Injury or poisoning NOC (\$6,979), Nervous
		System (\$2,036), Factors influencing health status
		(\$1,125), Circulatory System (\$4,409), Certain
		infectious and parasitic diseases (\$20,013), Digestive
	Top Body Systems by Amount Paid	System (\$4,967), Symptoms/signs NOC (\$426),
	for Opioid Claims with Dates of	Endocrine, nutritional and metabolic diseases (\$1,110),
10		
18	Injury in 2018	Skin/subcutaneous tissue (\$796)
		Average Paid Per Claim for top 10 groups: Other
		dorsopathies (\$13,139), Other soft tissue disorders
		(\$4,117), Injuries to the knee and lower leg (\$7,831),
		Injuries to the wrist, hand and fingers (\$7,159), Other
		joint disorders (\$2,560), Injuries to the shoulder and
	Top Diagnosis Groups by Amount	upper arm (\$4,599), Spondylopathies (\$4,887), Injuries
	Paid for Opioid Claims with Dates	to the ankle and foot (\$5,777), Injuries to the elbow
19	of Injury in 2018	and forearm (\$6,248), Osteoarthritis (\$3,962)
	Opioid Antagonist (Narcan)	2015 - 1, 2016 -3, 2017 - 2,
20	Utilization by Service Year	2018 - 0, 2019 - 2

The data contained in this report includes Medical Data Call prescription drug transactions for Service Year 2019 (medical services delivered from January 1, 2019 to December 31, 2019) for all insurance carriers who participate in the Delaware Medical Data Call. For more information about the Medical Data Call, please refer to the Delaware Medical Data Call Manual, which is found in the Data Reporting section on the DCRB website.

These exhibits reflect the prescription drug data reported using an NDC code as the paid procedure code, with the exception of Exhibit 1. We supplemented the Medical Data Call prescription drug transactions with descriptive data from a nationally recognized drug reference database. The definitions used for each Exhibit are proprietary to the nationally recognized drug reference database. Additional criteria include:

- FDA regulations consider branded generics as branded drugs.
- We consider repackaged drugs as branded drugs.

In this Technical Appendix, we describe in detail the data and methodology used to prepare the Delaware Medical Data Report: Opioid Utilization Supplement. We also comment on data limitations which were applicable to this report.

Data obtained from the Delaware Medical Data Call data was used for all Exhibits starting with Exhibit 1. The following criteria were applied to all exhibits prepared using Medical Data Call data.

- Service Dates between January 1, 2019 and December 31, 2019
- Included records where Charged Amount was greater than Paid Amount
- Included records where Charged Amount equaled Paid Amount
- Excluded records with any other relationship between Charged Amount and Paid Amount
- Excluded data known to have poor data quality
- Exhibits which include a five-year trend reflect the following Service Dates:
 - January 1, 2015 December 31, 2015
 - January 1, 2016 December 31, 2016
 - January 1, 2017 December 31, 2017
 - January 1, 2018 December 31, 2018
 - January 1, 2019 December 31, 2019

The following methodology applicable to each Exhibit is specified as follows:

<u>Exhibit 1</u>

This exhibit considered the script count and paid amount for all medical data, drug data reported via NDC code and drug data reported via non-NDC code, such as HCPCS code, revenue code or other state-specific code. We calculated the percent of total paid amount for each of these categories.

<u>Exhibit 2</u>

This exhibit considered the claim count, script count and paid amount for all drug claims and drug claims for opioids. For the exhibits in this report where opioids were identified, the categories of Opiate Agonists and Opiate Partial Agonists were combined. We calculated the percent of total paid amount and percent of total script count for each of these categories.

<u>Exhibit 3</u>

This exhibit considered the CSA schedule, script count and paid amount for all opioid drug claims. We calculated the percent of total paid amount and percent of total script count for each of the CSA categories.

Exhibit 4

This exhibit includes data for the top 10 opioid drugs based on paid amount in descending order. The paid amount for each opioid drug was divided by the total paid amount for all opioid drugs to calculate the percent of total paid. The paid amount for each drug was divided by the count of script units for that drug to calculate the average paid per unit (PPU). Outlier records were not excluded, which will have an impact on the average payment per transaction for some codes.

<u>Exhibit 5</u>

Same as Exhibit 4, except the top 10 opioid drugs were selected based on script counts in descending order.

<u>Exhibit 6</u>

This exhibit considered the claim count for the following categories: all drugs, opioid drugs without benzodiazepines, and opioid drugs with benzodiazepines. The claim count for non-opioid claims was calculated by subtracting the claim count for all drugs less the claim count for opioid drugs with benzodiazepines. We calculated the percent of total number of claims for each of these categories.

<u>Exhibit 7</u>

This exhibit initially considered the claim number, NDC codes and paid amounts for non-opioid drug claims. We counted the distinct NDC codes, and then took an average of the counts to get the average prescription count. We summed the paid amount and then took an average of the paid amounts to get the average paid amount.

The next step for this exhibit considered the service year, claim number, NDC code, units and paid amount for opioid claims. Opioid claims are defined as claims having at least one opioid prescription during the service year. This set of data was used to calculate the average scripts for opioid prescriptions and non-opioid prescriptions within opioid claims.

<u>Exhibit 8</u>

Using the data from Exhibit 7, this set of data was used to calculate the average paid for opioid prescriptions and non-opioid prescriptions within opioid claims.

<u>Exhibit 9</u>

This exhibit is a list of the top five non-opioid drugs for opioid claims based on paid amount in descending order. The paid amount for each non-opioid drug was divided by the total paid amount for all non-opioid drugs to calculate the percent of total paid. The paid amount for each non-drug was divided by the count of script units for that drug to calculate the average paid per unit (PPU).

Exhibit 10

Same as Exhibit 9, except the top 5 non-opioid drugs were selected based on script counts in descending order.

Exhibit 11

This exhibit considered the count of distinct NDC codes for the following categories: opioid prescriptions, benzodiazepine (benzo) prescriptions and other prescriptions for opioid claims with and without benzodiazepines. We categorized the opioid claims into opioid, benzo, opioid-benzo, and all other.

Exhibit 12

This exhibit is a list of the top five benzodiazepines (benzo) within opioid claims based on paid amount in descending order. The paid amount for each benzo drug was divided by the total paid amount for all benzo drugs to calculate the percent of total paid. The paid amount for each benzo was divided by the count of script units for that drug to calculate the average paid per unit (PPU).

Exhibit 13

This exhibit presents a five-year trend of percent of opioids drugs as compared to all drugs prescribed. The claim count for claims with opioid drugs was divided by the claim count for all prescription drugs to calculate the percent of drug claims.

Exhibit 14

Using the data from Exhibit 7, this exhibit expands the results to show a five-year trend.

Exhibit 15

Using the data from Exhibit 8, this exhibit expands the results to show a five-year trend.

Exhibit 16

This exhibit considered the service year, script count and paid amount for opioid prescriptions. We divided the paid amount by the script amount to calculate the average paid per script, and expanded the results to show a five-year trend.

Exhibit 17

For this exhibit, we calculated the difference in years between the Service Date and the Accident Date. We summarized the claim count by various groupings of the difference in years between the Service Date and the Accident Date.

Exhibit 18

The top 10 ICD-10 diagnosis groups for opioid claims were selected based on paid amount in descending order for Accident Dates between January 1, 2018 and December 31, 2018. The paid amount for each diagnosis group was divided by the total paid amount for calendar year 2018 and 2019 services to calculate the percent of total medical payments.

The paid amount for each group was divided by the number of claims for that group to calculate the average payment per claim.

Exhibit 19

The top 10 ICD-10 diagnosis sub-groups for opioid claims were selected based on paid amount in descending order for Accident Dates between January 1, 2018 and December 31, 2018. The paid amount for each diagnosis sub-group was divided by the total paid amount for calendar year 2018 and 2019 services to calculate the percent of total medical payments.

The paid amount for each sub-group was divided by the number of claims for that sub-group to calculate the average payment per claim.

Exhibit 20

This exhibit considered the script count for opioid antagonists, i.e. Narcan, and expanded the results to show a five-year trend.