



# Medical Data Report

## Opioid Utilization Supplement

For the state of

# SOUTH DAKOTA

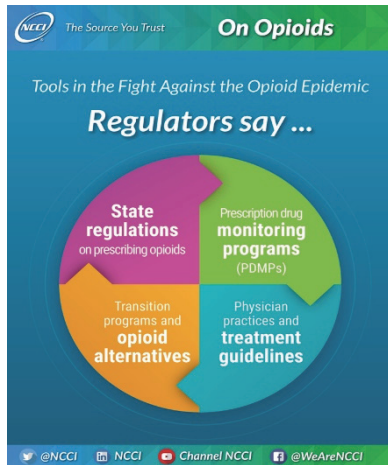
September 2020



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## Introduction



Prescription opioids are a class of drugs used to treat moderate to severe pain, particularly chronic intractable pain. Opioid addiction and overdose have reached epidemic levels over the past decade. According to a September 2019 update from the US Department of Health and Human Services,<sup>1</sup> 10.3 million Americans misused prescription opioids in 2018, resulting in an estimate of more than 130 deaths every day from an opioid-related overdose.

In response to the opioid crisis, many states have established laws and regulations to address opioid prescribing patterns for the population at large, as well as for workers compensation (WC) injuries. See the NCCI series, [On Opioids](#), for additional insight into the industry’s viewpoints on, and responses to, the opioid experience in workers compensation.

Each calendar year, NCCI produces, publishes, and delivers the South Dakota Medical Data Report to regulators, which is also made available to authenticated users on [ncci.com](#). This Opioid Utilization Supplement is a supplement to the Medical Data Report and is intended to serve as a data resource for regulators and others who are interested in the prescription drug component of medical costs in workers compensation claims. Specifically, this report focuses on opioid prescriptions costs and utilization rates at the aggregate level for state, regional, and countrywide (CW) analysis.

This report has seven sections:

- Prescription Drug Statistics
- Opioid Claim Statistics
- Concurrent Use of Opioids and Benzodiazepines
- Changes in Opioid Prescribing Patterns
- Oxycodone Pill Equivalents
- Claim Distribution by Claim Maturity
- Diagnosis Group and Body System Opioid Claim Experience

The report drills down on these sections to provide details on payments and prescribing patterns.

The data contained in this report represents medical transactions for Service Years (SY) 2015 through 2019. For South Dakota in SY 2019, the reported number of transactions was more than 267,100, with more than \$54,419,100 paid, for more than 13,700 claims, representing data from 94% of the workers compensation premium written, which includes experience for large-deductible policies. Lump-sum settlements are not required to be reported. Also, self-insured data is not included.

Unless otherwise noted, the source for all data in this report is:

- NCCI Medical Data Call, SY 2019.
- Region includes data from the following states: IA, IL, IN, KS, MI, MN, MO, NE, OK, and WI.
- Countrywide includes data from the following states: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, WI, and WV.

<sup>1</sup> [www.hhs.gov/opioids/about-the-epidemic/index.html](http://www.hhs.gov/opioids/about-the-epidemic/index.html).



One important caveat: Information in this report may not coincide with an analysis of a legislative provision or rule change performed in the future. Such an analysis would require evaluation of the specific drugs covered by the rule, which may be different from the way that payments or prescriptions for the drugs are categorized in this report.



## Table of Contents

<b>Prescription Drug Statistics .....</b>	<b>5</b>
Drug Share of Medical Payments .....	5
Distribution of Drugs by Opioid and Nonopioid .....	6
Distribution of Opioids by 2019 Drug Schedule.....	7
Top 10 Workers Compensation Opioid Drugs by Amount Paid for South Dakota .....	8
Top 10 Workers Compensation Opioid Drugs by Prescription Counts for South Dakota .....	9
<b>Opioid Claim Statistics.....</b>	<b>10</b>
Rx Claim Distributions.....	10
Average Number of Prescriptions per Opioid Claim.....	11
Average Amount Paid for Prescription Drugs per Opioid Claim.....	11
Top 5 Nonopioid Drugs for Opioid Claims by Amount Paid for South Dakota .....	12
Top 5 Nonopioid Drugs for Opioid Claims by Number of Prescriptions for South Dakota.....	12
<b>Concurrent Use of Opioids and Benzodiazepines .....</b>	<b>13</b>
Average Number of Prescriptions by Claim Type .....	13
Top 5 Workers Compensation Benzos by Amount Paid for South Dakota.....	14
<b>Changes in Opioid Prescribing Patterns .....</b>	<b>15</b>
Share of Drug Claims With at Least One Opioid Prescription by Service Year .....	15
Average Number of Opioid Prescriptions per Opioid Claim by Service Year.....	16
Average Opioid Payment per Opioid Claim by Service Year.....	17
Average Payment per Opioid Prescription by Service Year .....	17
<b>Oxycodone Pill Equivalents .....</b>	<b>18</b>
Average Yearly OPE per Opioid Claim by Service Year .....	19
Distribution of OPE by Consumption Classification.....	20
Average Yearly OPE per Opioid Claim by Service Year and Classification .....	21
Share of Claims Prescribed Both Opioids and Benzos by Classification in South Dakota .....	22
<b>Claim Distribution by Claim Maturity .....</b>	<b>23</b>
Opioid Claim Distribution by Claim Maturity in Years.....	23
Change in OPE per Opioid Claim by Maturity.....	24
<b>Diagnosis Group and Body System Opioid Claim Experience.....</b>	<b>25</b>
Top Body Systems by Amount Paid for Opioid Claims With Dates of Injury in 2018 .....	26
Top Diagnosis Groups by Amount Paid for Opioid Claims With Dates of Injury in 2018 .....	26
<b>Glossary .....</b>	<b>27</b>
<b>Appendix .....</b>	<b>28</b>



## Prescription Drug Statistics

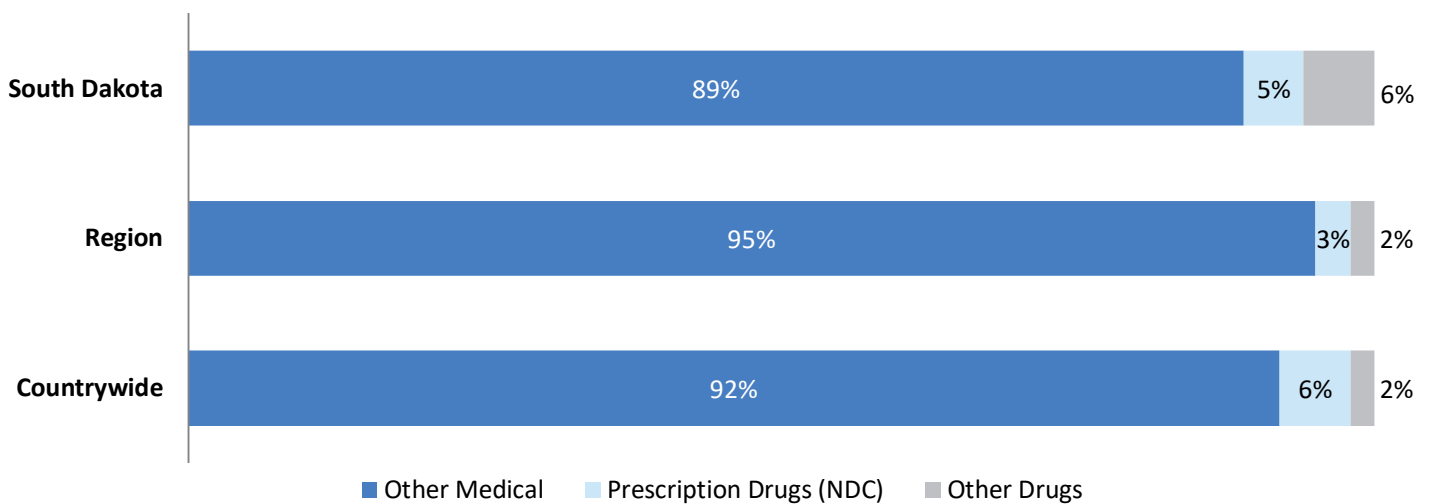
Drugs are uniquely identified by a national drug code (NDC). Charts 1 through 3 present greater detail on payments for prescription drugs reported with an NDC, whether the drugs were provided in a pharmacy, physician's office, hospital, or other place of service. Payments are categorized as drugs if the code reported on the transaction is an NDC. Drug payments can also be reported using codes other than NDCs, such as revenue codes, Healthcare Common Procedure Coding System (HCPCS) codes, and other state-specific procedure codes. These are referred to as "Other Drugs" in Chart 1.

For SY 2019, South Dakota spent \$3 million on 18,000 prescriptions for workers compensation claims.

Chart 1 displays the prescription drug shares of medical payments for South Dakota, the region, and countrywide in SY 2019.

**Chart 1**

### Drug Share of Medical Payments



The results in the charts that follow are based only on payments reported with an NDC.

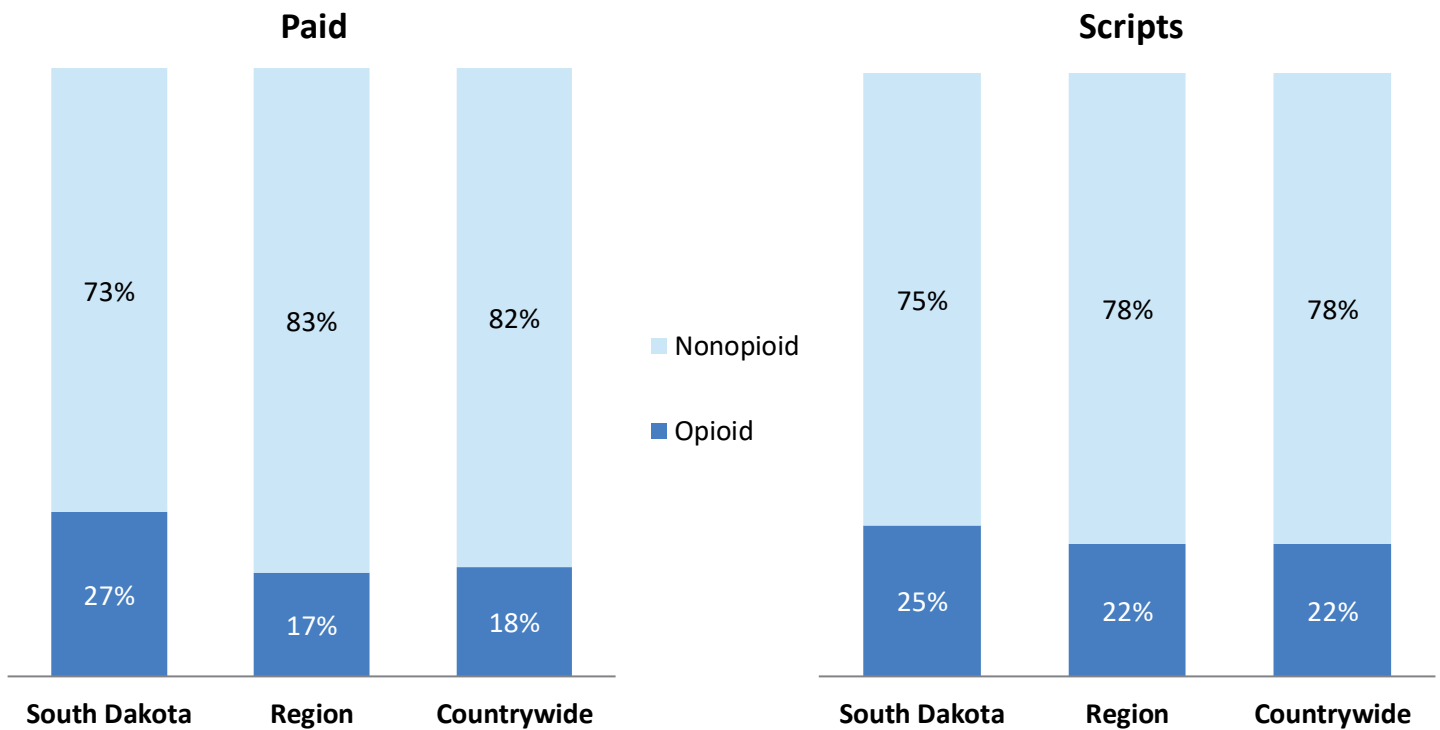
The opioid epidemic in the United States has a far-reaching impact on the workers compensation system. NCCI data shows that in recent years the average cost of prescriptions for claims with an opioid prescription is four times the average cost of a claim without opioids. One quarter of all prescription spending in the WC system is on opioids.

In 2019, South Dakota spent \$1 million on 4,000 opioid prescriptions; 4 of the top 10 drugs by amount paid are opioids and account for 17% of drug payments.

Chart 2 shows the proportion of drug payments and prescription counts for opioids in South Dakota, the region, and countrywide.

**Chart 2**

**Distribution of Drugs by Opioid and Nonopioid**



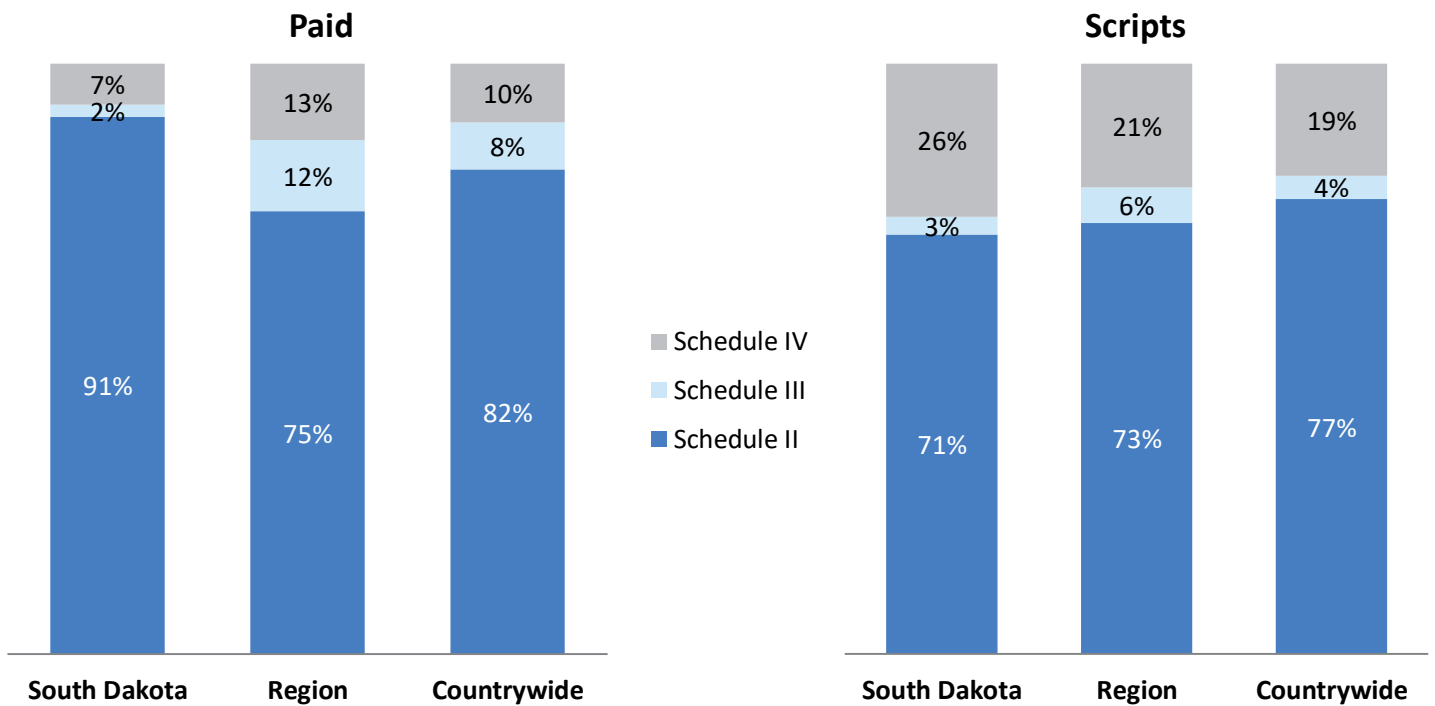
Opioids are subject to the Controlled Substance Act (CSA), passed in 1970 to regulate the manufacture, distribution, possession, and use of certain drugs. Five controlled substance schedules are determined by varying qualifications, such as the drug’s medical uses, if any, and its potential for abuse. For example, Schedule V drugs, such as codeine, are defined as having the lowest potential for abuse, while Schedule I drugs, such as heroin, are illegal at the federal level and are defined as having no currently accepted medical uses and a high potential for abuse.

According to the Diversion Control Division of the Drug Enforcement Administration (DEA),<sup>2</sup> schedule drug prescribing must adhere to certain rules. A prescription for a schedule drug must be written in ink or indelible pencil or typewritten and must be manually signed by the practitioner or their designee, as is required for Schedule II prescriptions. While prescriptions for Schedules III and IV controlled substances may be refilled up to five times in six months, a Schedule II prescription may not be refilled, requiring a new prescription to be issued each time.

Opioids are largely Schedule II and Schedule III drugs. Chart 3 shows the percentage of opioid payments and opioid prescriptions by schedule<sup>3</sup> for South Dakota, the region, and countrywide.

**Chart 3**

**Distribution of Opioids by 2020 Drug Schedule**



<sup>2</sup> [www.dea diversion.usdoj.gov/faq/prescriptions\\_faq.htm](http://www.dea diversion.usdoj.gov/faq/prescriptions_faq.htm).

<sup>3</sup> Schedule assignment reflects the DEA’s schedule as of 2020.



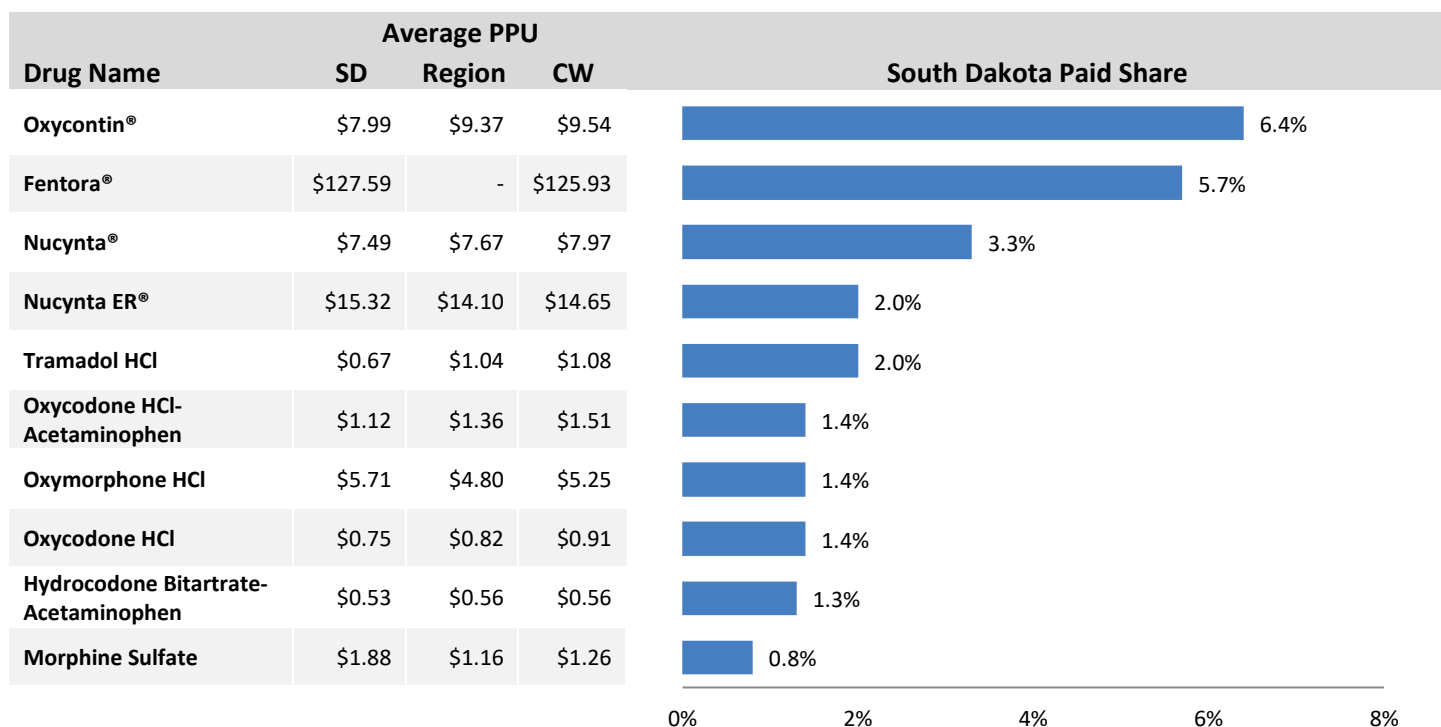


Charts 4 and 5 provide greater detail on payments for opioid prescriptions in South Dakota.

Chart 4 displays the shares of the payments of prescription medication for the top 10 opioids in WC claims and whether the drugs are generic (G) or brand name (B). This ranking method shows which drugs have the highest percentage share of payments. Also included is the amount paid per unit (PPU), common brand name, CSA schedule, and countrywide (CW) rank.

### Chart 4

#### Top 10 Workers Compensation Opioid Drugs by Amount Paid for South Dakota



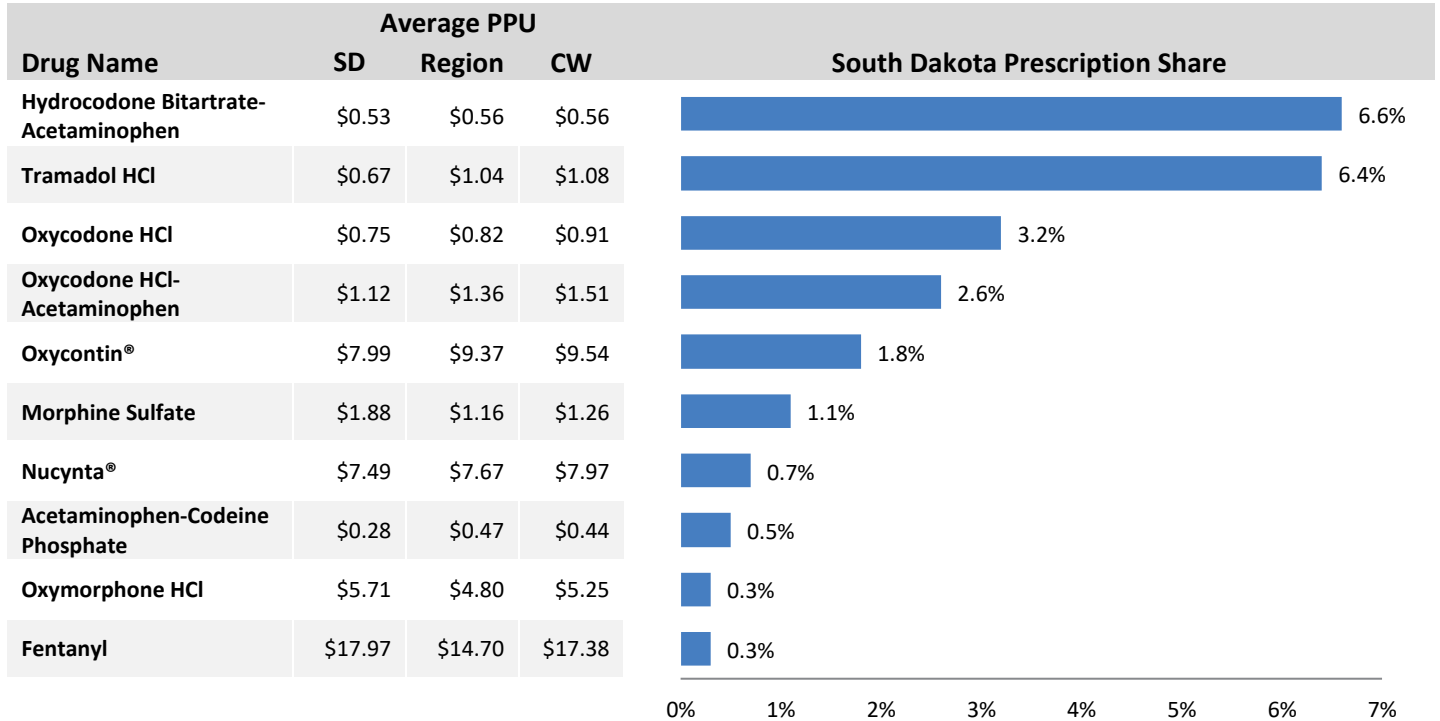
Drug Name	B/G	Common Brand Name	CSA Schedule	CW Rank
Oxycontin®	B	N/A	II	1
Fentora®	B	N/A	II	18
Nucynta®	B	N/A	II	7
Nucynta ER®	B	N/A	II	8
Tramadol HCl	G	Ultram®	IV	3
Oxycodone HCl-Acetaminophen	G	Percocet®	II	2
Oxymorphone HCl	G	Opana®	II	12
Oxycodone HCl	G	Oxycontin®	II	5
Hydrocodone Bitartrate-Acetaminophen	G	Vicodin®	II	4
Morphine Sulfate	G	Duramorph®	II	9



Chart 5 displays the top 10 opioids in workers compensation claims according to the number of prescriptions. This chart shows the most frequently prescribed opioids and the amount paid per unit.

### Chart 5

#### Top 10 Workers Compensation Opioid Drugs by Prescription Counts for South Dakota



Drug Name	B/G	Common Brand Name	CSA Schedule	CW Rank
Hydrocodone Bitartrate-Acetaminophen	G	Vicodin®	II	1
Tramadol HCl	G	Ultram®	IV	2
Oxycodone HCl	G	Oxycontin®	II	4
Oxycodone HCl-Acetaminophen	G	Percocet®	II	3
Oxycontin®	B	N/A	II	5
Morphine Sulfate	G	Duramorph®	II	6
Nucynta®	B	N/A	II	9
Acetaminophen-Codeine Phosphate	G	Tylenol® with Codeine #3	III	7
Oxymorphone HCl	G	Opana®	II	15
Fentanyl	G	Fentora®	II	16

## Opioid Claim Statistics

In addition to providing information on workers compensation claims with opioids, this report also provides information on workers compensation claims with concurrent use of opioids and benzodiazepines (benzos). A benzo, typically a Schedule IV drug, produces central nervous system depression (as do opioids) and is most commonly used to treat insomnia and anxiety. Two examples of widely used benzos are Xanax® and Ativan®.

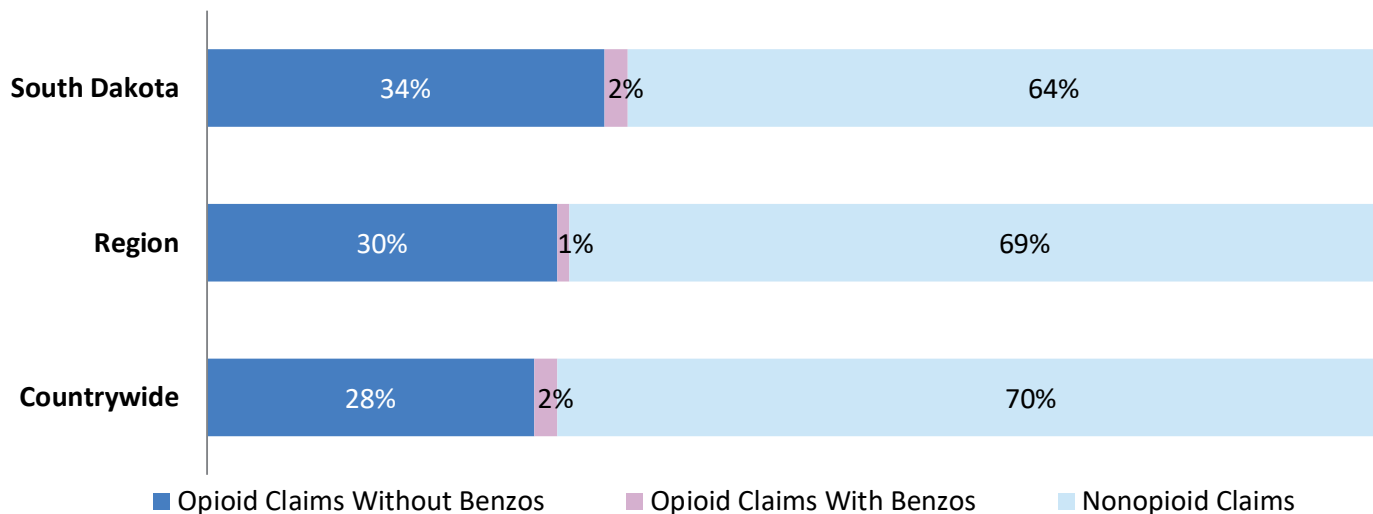
Several types of workers compensation claims are referenced in this report:

- **Rx claim**—A WC claim that had at least one prescription during the period
- **Opioid claim**—A WC claim that had at least one opioid prescription during the period
- **Nonopioid claim**—A WC claim that had at least one prescription but no opioids during the period
- **Opioid claim with benzos**—A WC claim that had at least one opioid prescription and at least one benzo prescription during the period
- **Opioid claim without benzos**—A WC claim that had at least one opioid prescription and no benzo prescriptions during the period

Chart 6 displays the distribution of Rx claims for South Dakota, the region, and countrywide for SY 2019.

**Chart 6**

**Rx Claim Distributions**



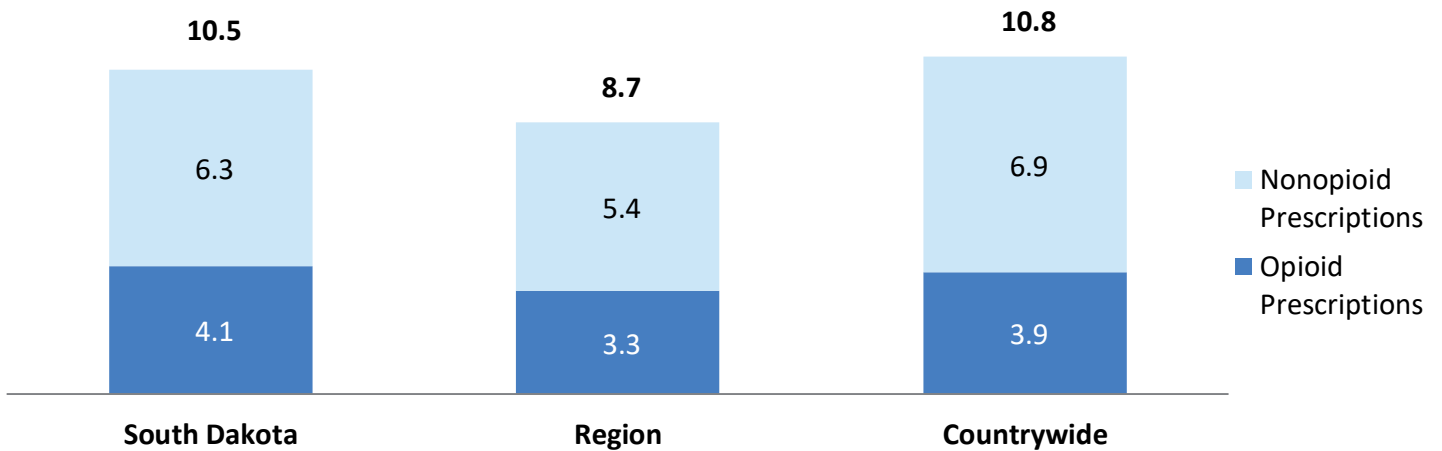


Injured workers who have been prescribed opioids are, on average, prescribed a greater number of prescriptions than those who have not. In South Dakota, a nonopioid claim has an average number of 3.4 prescriptions in SY 2019 compared to 2.8 in the region and 3.2 countrywide.

Charts 7 and 8 show the average number of opioid and nonopioid prescriptions per opioid claim and the average amount paid per opioid claim for South Dakota, the region, and countrywide.

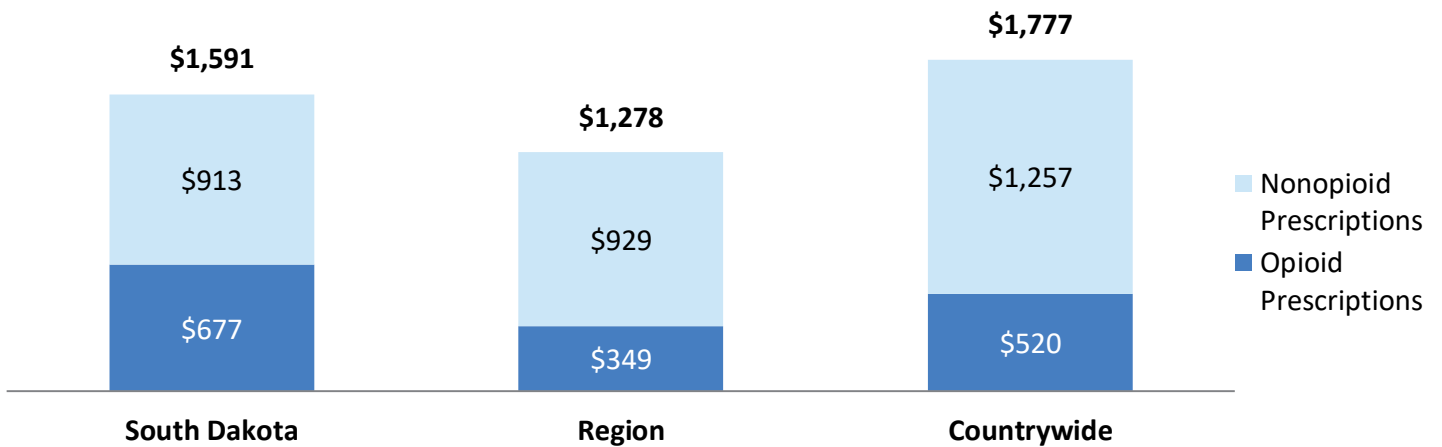
**Chart 7**

**Average Number of Prescriptions per Opioid Claim**



**Chart 8**

**Average Amount Paid for Prescription Drugs per Opioid Claim**





As seen in the previous chart, many nonopioid drugs are also prescribed in opioid claims. Chart 9 shows the top five nonopioid drugs by amount paid for opioid claims. Chart 10 shows the top five nonopioid drugs by number of prescriptions for opioid claims.

**Chart 9**

**Top 5 Nonopioid Drugs for Opioid Claims by Amount Paid for South Dakota<sup>4</sup>**

Drug Name	Common Brand Name	B/G	% of Nonopioid Drug Payments	PPU SD	PPU Region	PPU Countrywide	CW Rank
Lyrica®	N/A	B	19.0%	\$8.10	\$8.14	\$8.18	1
Duloxetine HCl	Cymbalta®	G	8.8%	\$3.80	\$4.29	\$4.71	5
Gabapentin	Neurontin®	G	6.4%	\$0.76	\$0.86	\$0.97	2
Pregabalin	Lyrica®	G	5.2%	\$3.83	\$4.41	\$4.53	8
Lidocaine	Lidoderm®	G	4.7%	\$4.90	\$8.12	\$7.01	3

**Chart 10**

**Top 5 Nonopioid Drugs for Opioid Claims by Number of Prescriptions for South Dakota<sup>5</sup>**

Drug Name	Common Brand Name	B/G	% of Nonopioid Drug Prescriptions	PPU SD	PPU Region	PPU Countrywide	CW Rank
Gabapentin	Neurontin®	G	9.4%	\$0.76	\$0.86	\$0.97	1
Duloxetine HCl	Cymbalta®	G	7.1%	\$3.80	\$4.29	\$4.71	6
Cyclobenzaprine HCl	Flexeril®	G	5.6%	\$1.04	\$1.39	\$1.58	2
Meloxicam	Mobic®	G	4.8%	\$2.37	\$2.98	\$3.12	3
Lyrica®	N/A	B	4.5%	\$8.10	\$8.14	\$8.18	9

<sup>4</sup> “% of Nonopioid Drug Payments” is the share of nonopioid drug payments in opioid claims.

<sup>5</sup> “% of Nonopioid Drug Prescriptions” is the share of nonopioid drug prescriptions in opioid claims.

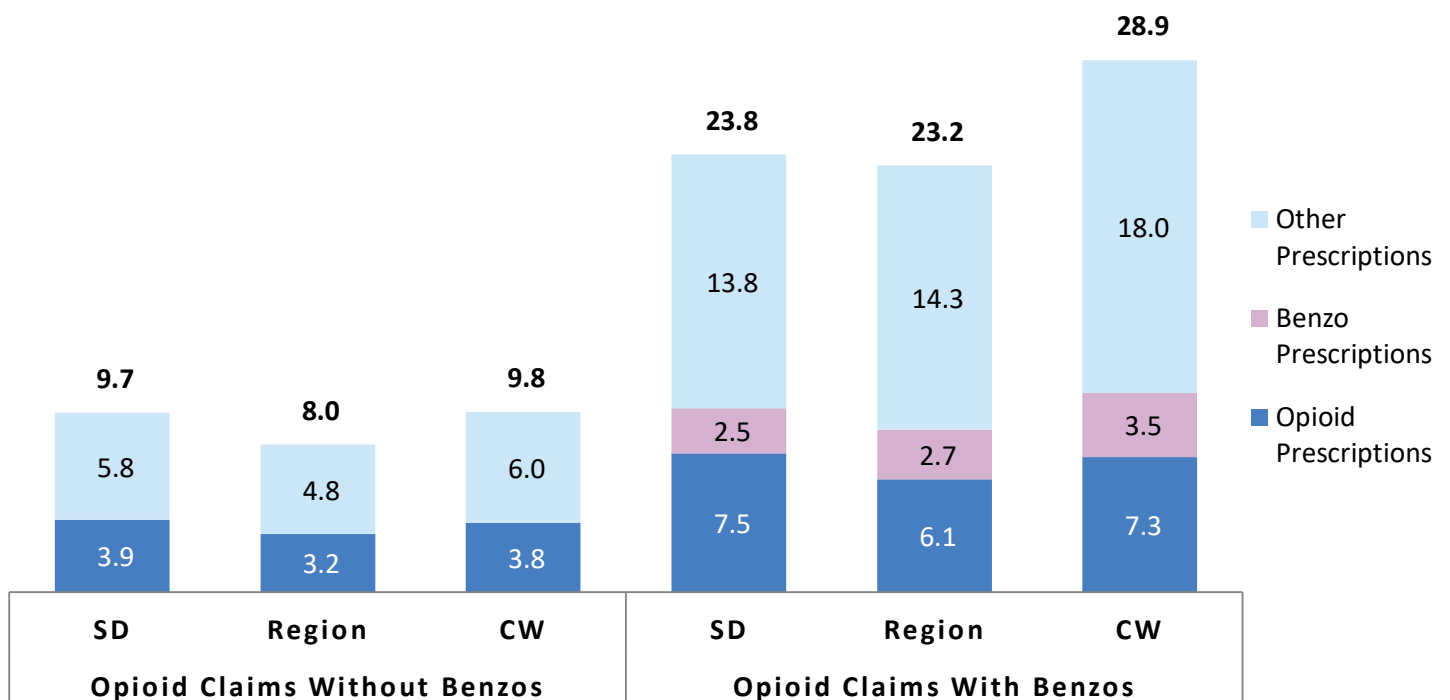
## Concurrent Use of Opioids and Benzodiazepines

According to a study<sup>6</sup> on opioid abuse published by *The British Medical Journal*, of “2,400 veterans in the population who died because of a drug overdose while taking opioid painkiller prescriptions, 49% had been concurrently prescribed benzodiazepines.” In workers compensation, the number of injured workers who are concurrently prescribed both an opioid and a benzo is relatively small. However, the number of prescription drugs and their associated costs for those injured workers are considerably higher than for workers who are not prescribed benzos.

Chart 11 displays the average number of opioid, benzo, and other types of prescriptions for opioid claims with and without benzos for South Dakota, the region, and countrywide.

**Chart 11**

**Average Number of Prescriptions by Claim Type**



<sup>6</sup> “Benzodiazepines and Opioids.” National Institute on Drug Abuse, March 2018.



Chart 12 shows the top five benzos concurrently used with opioids for South Dakota, along with the PPU for South Dakota, the region, and countrywide.

**Chart 12**

**Top 5 Workers Compensation Benzos by Amount Paid for South Dakota**

Drug Name	Common Brand Name	B/G	% of Benzo Payments	PPU SD	PPU Region	PPU Countrywide	CW Rank
Alprazolam	Xanax®	G	46.4%	\$1.13	\$0.68	\$0.66	1
Diazepam	Valium®	G	9.9%	\$0.15	\$0.17	\$0.18	6
Midazolam HCl	Versed®	G	8.8%	\$0.52	\$0.33	\$0.37	15
Clonazepam	Klonopin®	G	7.7%	\$0.37	\$0.51	\$0.54	3
Lorazepam	Ativan®	G	6.3%	\$0.45	\$0.47	\$0.50	7

## Changes in Opioid Prescribing Patterns

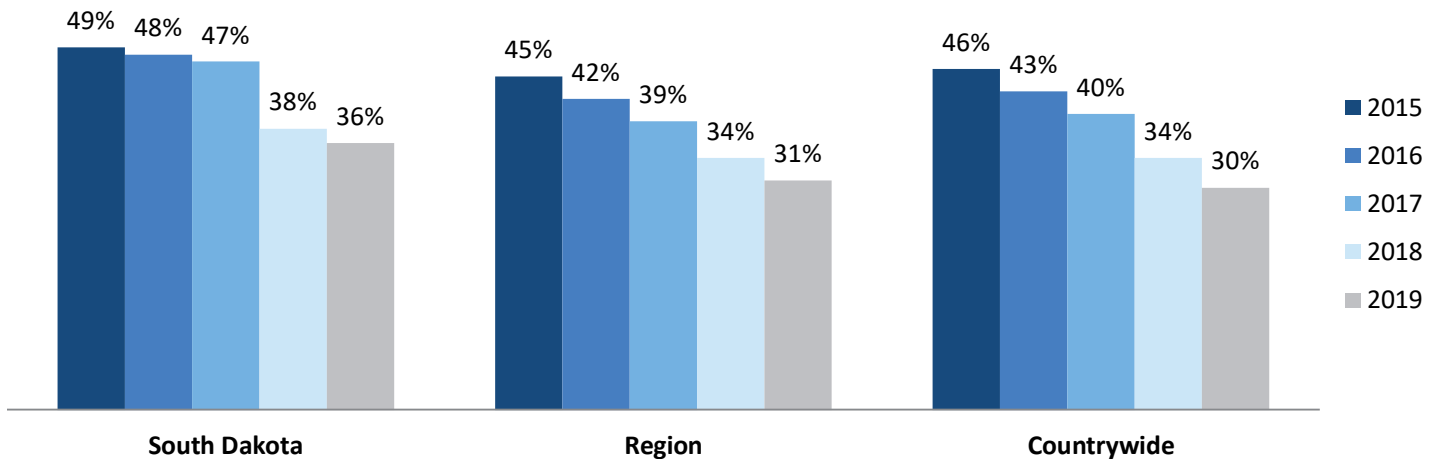
In 2017, the US Department of Health and Human Services<sup>7</sup> declared opioid abuse a public health emergency and created a five-point strategy to combat the opioid crisis, including increasing the availability of overdose-reversing drugs such as Narcan<sup>®</sup> and Evzio<sup>®</sup>. While the number of workers compensation claims with Narcan<sup>®</sup> or Evzio<sup>®</sup> prescriptions has been steadily increasing, less than 0.5% of opioid claims have a prescription for Narcan<sup>®</sup> or Evzio<sup>®</sup>.

Lower prescribing patterns for workers compensation claims reflect concerted efforts by the various stakeholders to respond to the opioid crisis—through rules used by regulatory agencies, guidelines for prescribing opioids, or greater attention paid by the prescribing physicians and employers to the injured workers with prescriptions.

Chart 13 shows the share of opioid claims over the latest five service years for South Dakota, the region, and countrywide.

**Chart 13**

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



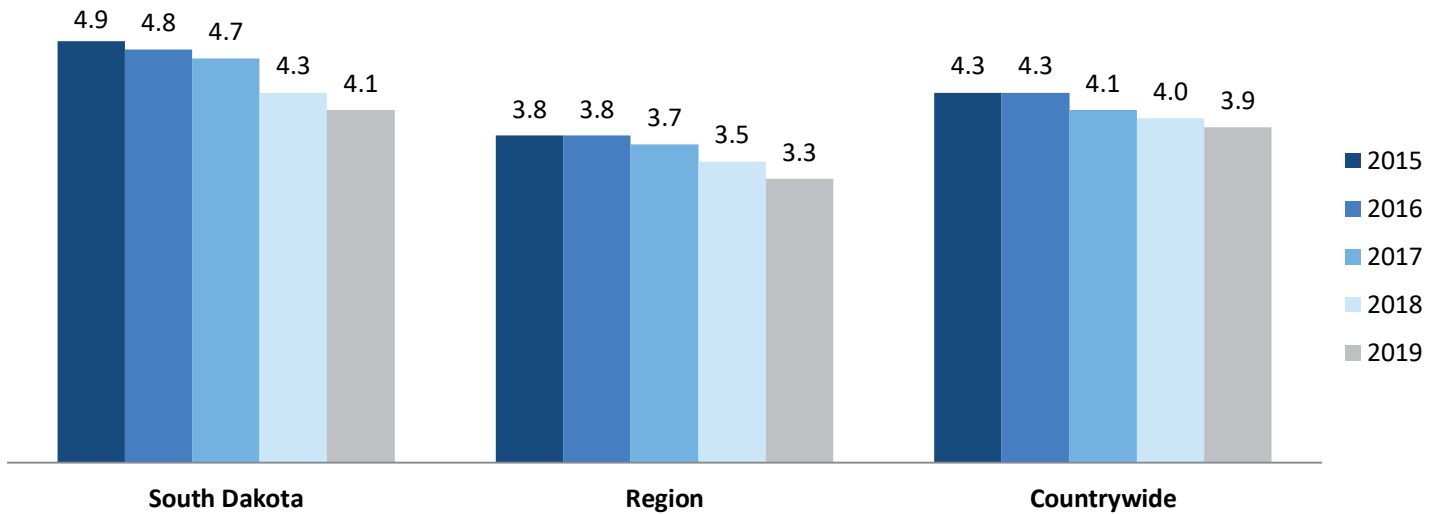
<sup>7</sup> [www.hhs.gov/opioids/about-the-epidemic/index.html](http://www.hhs.gov/opioids/about-the-epidemic/index.html).



Chart 14 reflects the change in the average number of opioid prescriptions per opioid claim over the latest five service years in South Dakota, the region, and countrywide.

### Chart 14

#### Average Number of Opioid Prescriptions per Opioid Claim by Service Year

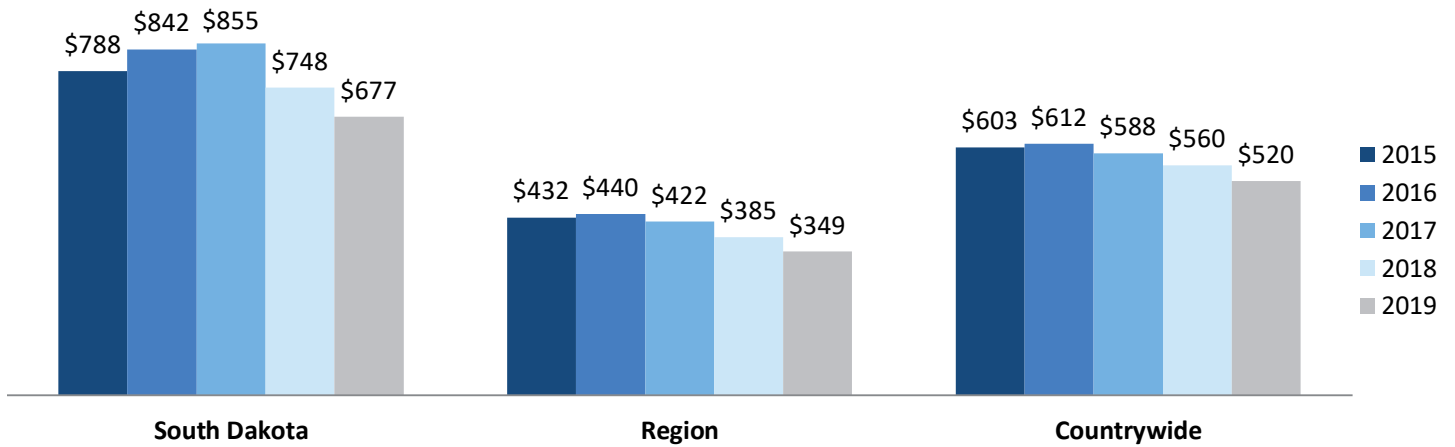




Charts 15 and 16 display the change in the average opioid payment per opioid claim and per opioid prescription over the last five service years for South Dakota, the region, and countrywide.

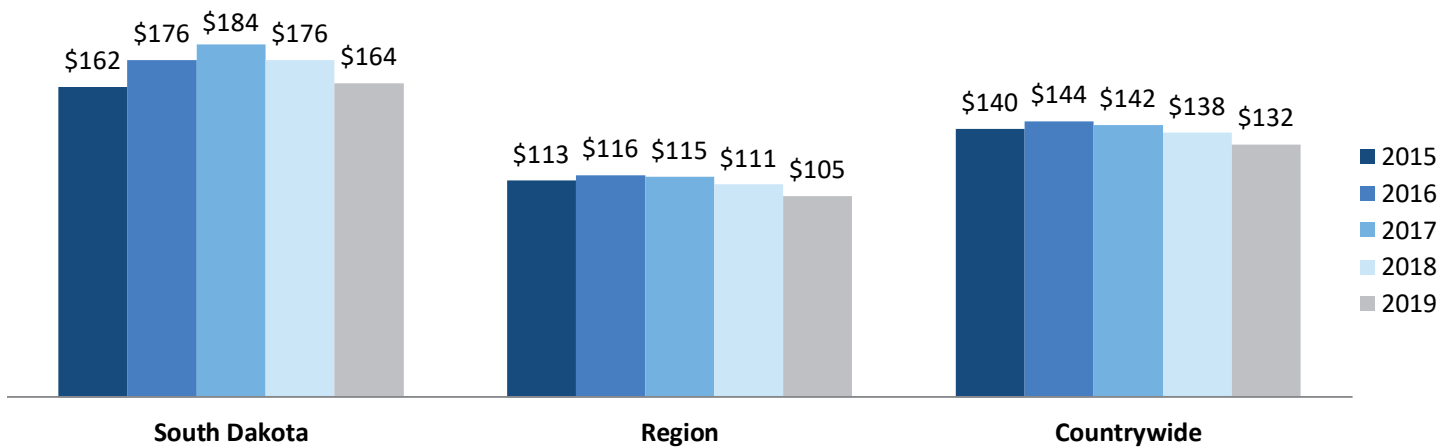
### Chart 15

#### Average Opioid Payment per Opioid Claim by Service Year



### Chart 16

#### Average Payment per Opioid Prescription by Service Year





## Oxycodone Pill Equivalents

Price inflation of prescription drugs is one factor that impacts payments over time. The content of prescriptions and dosages can also impact the payments made. Not all prescriptions are equal, and not all opioids are equal. Consequently, a comparison of prescriptions or opioid payments with a common unit of comparison can add clarity to the observed experience.

The CDC<sup>8</sup> provides a way to convert daily—or hourly—doses of opioids to an equivalent daily dose of morphine by assigning a conversion factor to each type of drug, thus deriving the Morphine Milligram Equivalents (MME) for any opioid prescription, based on the number of units (pills, for example) prescribed and the drug formulation. One milligram per day of oxycodone, for instance, is assigned an MME factor of 1.5; one milligram per day of codeine, on the other hand, is assigned an MME factor of 0.15.

NCCI converts milligrams of morphine to a number of oxycodone pills and calls it the Oxycodone Pill Equivalents (OPE). A 20mg oxycodone pill, which contains 30 MMEs, is exactly 1 OPE. Oxycodone is used as the standard of reference since it is the most prevalent opioid used in workers compensation. The chart below provides sample MME and OPE conversions for some commonly used opioids.



## Morphine Milligram Equivalents (MME)

Vicodin® (10mg)	Oxycodone (20mg)	Butrans® (20mcg/hr)
10 MMEs	30 MMEs	36 MMEs/Day



## Oxycodone Pill Equivalents (OPE)

Vicodin® (10mg)	Oxycodone (20mg)	Butrans® (20mcg/hr)
0.3 OPEs	1 OPE	1.2 OPEs/Day

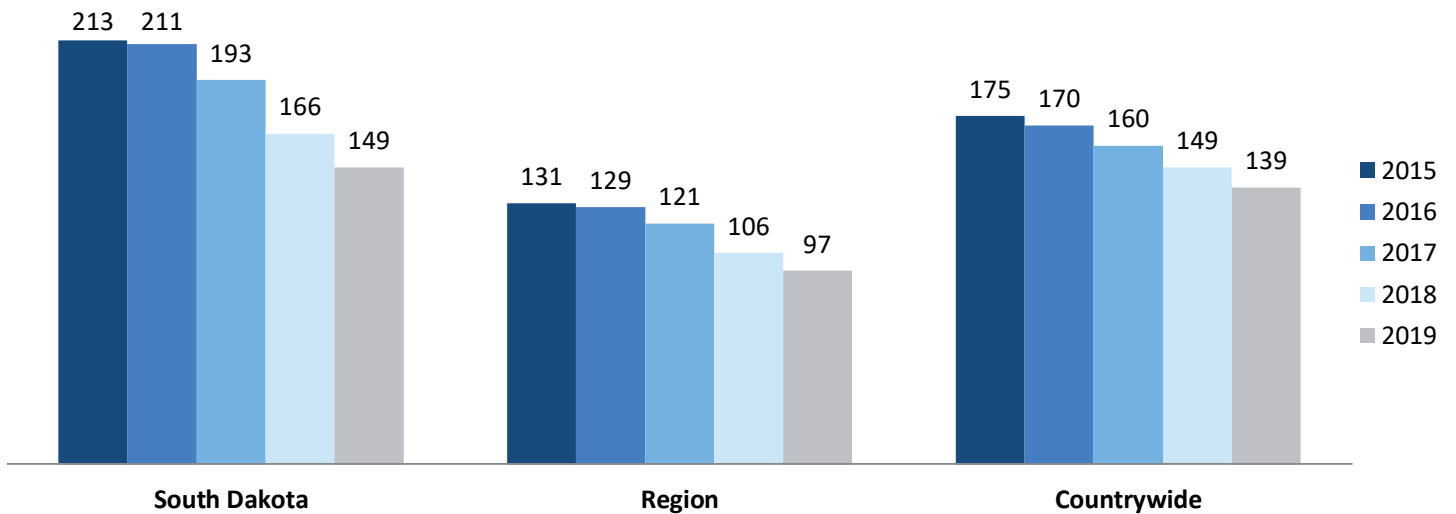
<sup>8</sup> www.cdc.gov/drugoverdose/pdf/calculating\_total\_daily\_dose-a.pdf.



Chart 17 displays the average yearly amount of OPEs prescribed per claimant with at least one opioid prescription for the latest five service years in South Dakota, the region, and countrywide.

**Chart 17**

**Average Yearly OPE per Opioid Claim by Service Year**



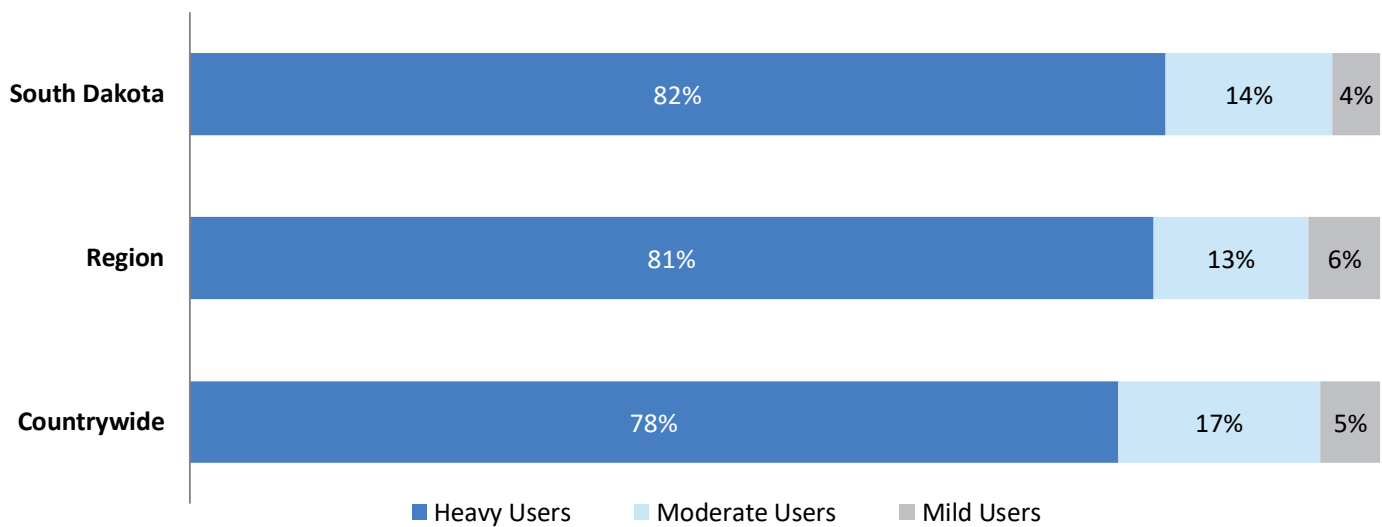
One way to recognize the extensive use of opioids is to classify claims into groups with different levels of opioid use. NCCI classifies opioid claimants based on yearly OPE consumption:

- “Heavy users” represent the top 10% of claims by OPE consumption
- “Moderate users” are in the next 20% of claims by OPE consumption
- “Mild users” are in the bottom 70% of claims by OPE consumption

Chart 18 shows the distribution of OPE by consumption classification in South Dakota, the region, and countrywide for SY 2019.

**Chart 18**

**Distribution of OPE by Consumption Classification**



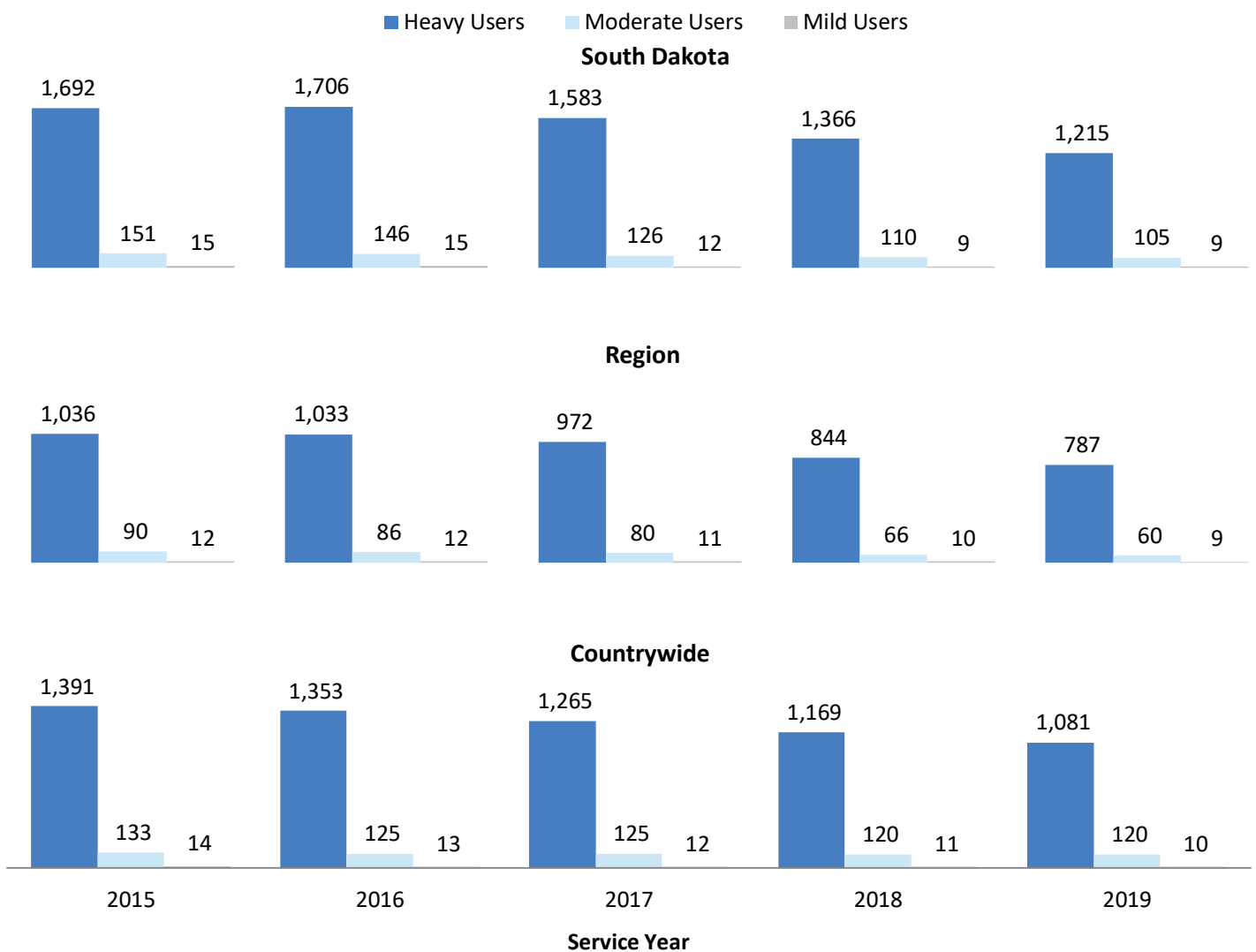


According to the [CDC Guideline for Prescribing Opioids for Chronic Pain](#),<sup>9</sup> clinicians “should avoid increasing dosage to  $\geq 90$  MME/day [3 OPE/day] or carefully justify a decision to titrate dosage to  $\geq 90$  MME/day.” A claimant who consumes 3 OPE per day for each day of the year would have a yearly OPE consumption of 1,095. In SY 2019, average heavy users in South Dakota were prescribed approximately 111% of the OPE of such a claimant.

Chart 19 shows the distribution of average OPE consumption within each usage classification for the latest five service years for South Dakota, the region, and countrywide.

### Chart 19

#### Average Yearly OPE per Opioid Claim by Service Year and Classification

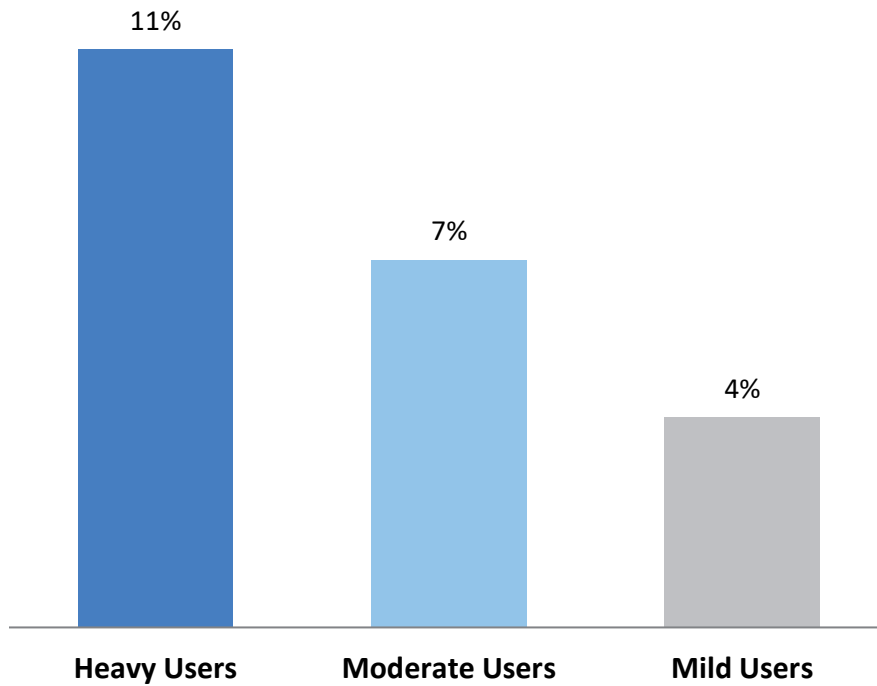


<sup>9</sup> [www.cdc.gov/drugoverdose/pdf/guidelines\\_at-a-glance-a.pdf](http://www.cdc.gov/drugoverdose/pdf/guidelines_at-a-glance-a.pdf).

Heavy users are also more likely to be concurrently prescribed benzos—nearly one in five countrywide are also prescribed benzos. Chart 20 shows how often heavy users are prescribed benzos compared to mild and moderate users in South Dakota.

**Chart 20**

**Share of Claims Prescribed Both Opioids and Benzos by Classification in South Dakota**



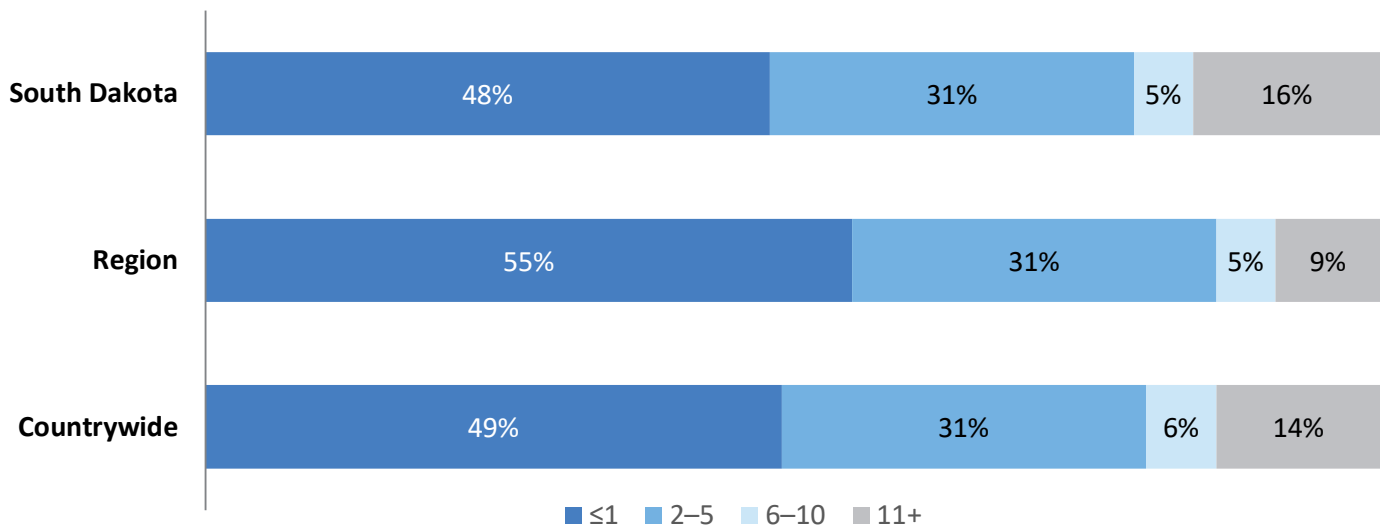
## Claim Distribution by Claim Maturity

Workers compensation insurance is considered to have a long tail of liability, meaning that injured workers continue to receive medical benefits over a long period of time, sometimes 30 years or more. Observing opioid claims by claim maturity provides insight into the long-lasting usage of opioid prescriptions and their prevalence among injured workers at various stages of their disability.

Chart 21 shows the distribution of opioid claims by claim maturity for South Dakota, the region, and countrywide, where maturity is measured by the number of years from the date of injury.

**Chart 21**

**Opioid Claim Distribution by Claim Maturity in Years**



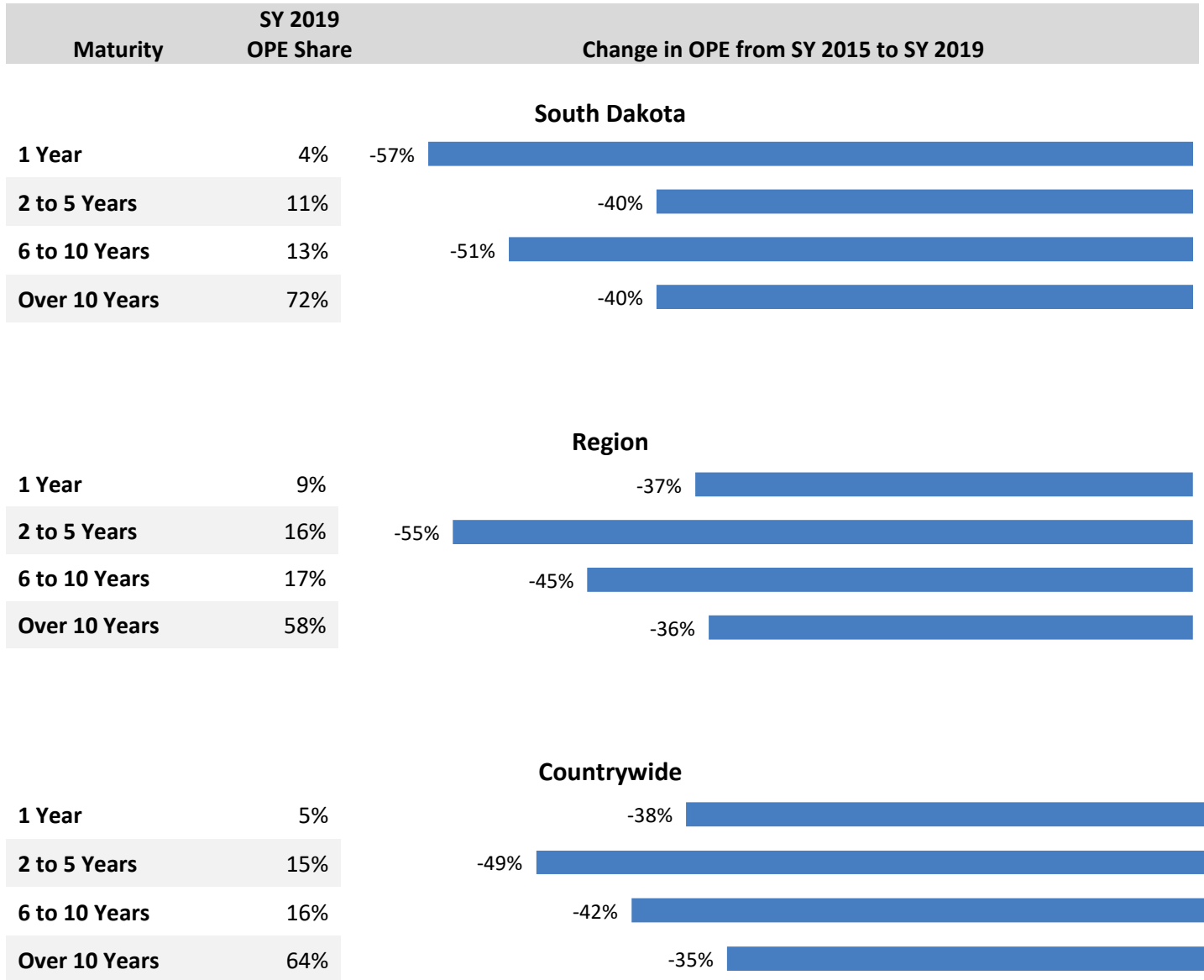




The decrease in the number of opioid prescriptions is significant for opioid claims at all years of maturity. Chart 22 shows the change in OPE per opioid claim between SYs 2015 and 2019.

### Chart 22

#### Change in OPE per Opioid Claim by Maturity





## Diagnosis Group and Body System Opioid Claim Experience

Charts 23 and 24 display the top 10 body systems and diagnosis groups, respectively, for claims with opioid experience. Body system and diagnosis group are identified for each claim based on ICD-10 (International Classification of Diseases) code. The ICD-10 code indicates the condition for which the care is provided. NCCI assigns an ICD-10 code to each workers compensation claim based on the severity of the ICD-10 codes reported on bills by medical providers for services provided to the injured worker.

The top 10 body systems and diagnosis groups are ranked by total claim payments for South Dakota. This method of ranking shows which body systems and diagnosis groups have the highest percentage share of payments. Payments are based on claims with dates of injury between January 1, 2018, and December 31, 2018, and include all reported services provided for those claims through December 31, 2019. As these claims mature, the mix of ICD-10 codes may change, thus impacting the percentage share of payments for a specific code over time. This mix may also affect how costs per code in South Dakota compare to countrywide costs. The state, region, and countrywide average payments per claim are also displayed for each body system and diagnosis group.

**Chart 23**

**Top Body Systems by Amount Paid for Opioid Claims With Dates of Injury in 2018**

Body System	Paid Share	Average Amount Paid Per Claim		
		South Dakota	Region	Countrywide
Shoulder	25.4%	\$33,119	\$33,205	\$27,593
Leg	10.4%	\$70,169	\$45,343	\$41,658
Knee	9.0%	\$18,617	\$23,185	\$20,021
Lumbar spine	6.1%	\$18,942	\$23,794	\$19,831
Hand/wrist	5.7%	\$12,550	\$13,898	\$12,357
Ankle/foot	4.1%	\$21,010	\$21,460	\$19,131
Nervous system	3.8%	\$102,289	\$74,697	\$70,291
Neck	2.7%	\$28,075	\$30,229	\$25,541
Head	2.2%	\$17,744	\$37,598	\$35,054
Arm	2.2%	\$15,842	\$27,952	\$24,881

**Chart 24**

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

Diagnosis Group	Paid Share	Average Amount Paid Per Claim		
		South Dakota	Region	Countrywide
Rotator cuff tear	14.3%	\$40,103	\$40,695	\$34,895
Femur fracture	6.0%	\$325,976	\$102,731	\$106,378
Knee internal derangement - meniscus injury	3.0%	\$14,883	\$19,138	\$16,607
Minor shoulder injury	2.9%	\$17,743	\$23,378	\$17,989
Lumbosacral intervertebral disc disorders	2.7%	\$38,796	\$45,821	\$37,328
Hand/wrist fracture	2.3%	\$11,957	\$16,784	\$15,766
Knee internal derangement - cruciate ligament tear	2.2%	\$36,107	\$37,259	\$32,913
Knee degenerative/overuse injuries	2.1%	\$23,325	\$25,736	\$23,501
Crush injury, hand/wrist	2.0%	\$52,792	\$16,945	\$18,333
Hip/pelvis fracture/major trauma	1.8%	\$76,336	\$74,026	\$77,712



## Glossary

**Benzodiazepines (Benzos):** A class of drugs that produce central nervous system depression and are most commonly used to treat insomnia and anxiety.

**Controlled Substance:** Drugs that are regulated by the Controlled Substance Act (CSA) of 1970. Each controlled substance is contained in one of five schedules based on its medical use(s) and its potential for abuse and addiction.

**Current Procedure Terminology (CPT):** A numeric coding system maintained by the American Medical Association (AMA). The CPT coding system consists of five-digit codes that are primarily used to identify medical services and procedures performed by physicians and other healthcare professionals.

**Drugs:** Includes any data reported by a National Drug Code (NDC). Also included are data for revenue codes, the Healthcare Common Procedure Coding System (HCPCS), and other state-specific codes that represent drugs.

**Healthcare Common Procedure Coding System (HCPCS):** Alphanumeric codes that include mostly nonphysician items or services such as medical supplies, ambulatory services, prostheses, etc. These are items and services not covered by Current Procedure Terminology (CPT) procedures.

**Medical Data Call:** Captures transaction-level detail for medical billings that were processed on or after July 1, 2010. All medical transactions with the jurisdiction state in any applicable Medical Data Call state are reportable. This includes all workers compensation claims, including medical-only claims.

**National Drug Code (NDC):** A universal product identifier for human drugs in the United States. Each NDC code uniquely identifies a drug product based on key characteristics such as the labeler (manufacturer/distributor), active ingredients, strength, dosage form, and package form.

**Opioids:** A class of drugs used to treat moderate to severe pain, particularly chronic intractable pain.

**Oxycodone Pill Equivalents (OPE):** A standard unit for comparing opioid doses, equivalent to one 20mg oxycodone pill.

**Prescription:** NCCI defines a “prescription” to be synonymous with a transaction. Therefore, a refill on a prescribed drug is considered a separate prescription.

**(Paid) Procedure Code:** A code from the jurisdiction-approved code table that identifies the procedure associated with the reimbursement. Examples include CPT code or revenue code.

**Revenue Code:** A numeric coding system used in hospital billings that provides broad classifications of the types of services provided. Some examples are emergency room, operating room, recovery room, room and board, and supplies.

**Service Year:** A loss accounting definition where experience is summarized by the calendar year in which a medical service was provided.

**Transaction:** A line item on a medical bill.

**Units:** The number of units of service performed or the quantity of drugs dispensed. For Paid Procedure Codes related to medications, the quantity/units depend on the type of drug:

- For tablets, capsules, suppositories, nonfilled syringes, etc., it represents the actual number of the drug provided. For example, a bottle of 30 pills would have 30 units.
- For liquids, suspensions, solutions, creams, ointments, bulk powders, etc., dispensed in standard packages, the units are specified by the procedure code. For example, a cream is dispensed in a standard tube, which is defined as a single unit.
- For liquids, suspensions, solutions, creams, ointments, bulk powders, etc., that are not dispensed in standard packages, the number of units is the amount provided in its standard unit of measurement (e.g., milliliters, grams, ounces). For example, codeine cough syrup dispensed by a pharmacist into a four-ounce bottle would be reported as four units.



## Appendix

The data contained in this report represents medical transactions for SY 2019 (medical services delivered from January 1, 2019, to December 31, 2019). Workers compensation insurance carriers must report paid medical transactions if they write at least 1% of the market share in any one state for which NCCI is the advisory organization. Once a carrier meets the eligibility criteria, the carrier will be required to report for all applicable states in which it writes workers compensation insurance, even if an individual state's market share is below the 1% threshold. All carriers within an insurance group are required to report, regardless of whether they write less than 1% of the market share in the state.

The data is reported under the jurisdiction state—the state under whose workers compensation act the claimant's benefits are being paid. Medical transactions must continue to be reported until the transactions no longer occur (i.e., the claim is closed) or 30 years from the accident date. Nearly 30 data elements are reported.

Wherever possible, standard industry codes are used because they:

- Provide a clear definition of the data
- Increase efficiency of computer systems
- Improve the accuracy and quality of the data

Carriers differ in their handling of medical data reporting. Some carriers retain all medical claims handling internally and submit the data themselves. Others use business partners for various aspects of medical claim handling, such as third party administrators and medical bill review vendors. It's possible for a carrier to authorize its vendor to report the data on its behalf. Some carriers may use a combination of direct reporting and vendors. Although data may have been provided by an authorized vendor on behalf of a carrier, the quality, timeliness, and completeness of the data is the responsibility of the carrier.

Before a medical data provider can send files, each submitter's electronic data file must pass certification testing. This ensures that all connections, data files, and systems are functioning and processing correctly. Each medical data provider within a reporting group is required to pass certification testing. If a medical data provider reports data for more than one reporting group, that data must be certified for each group.

For more information about the Medical Data Call, please refer to the *Medical Data Call Reporting Guidebook* on [ncci.com](http://ncci.com).

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