



Medical Data Report

For the state of

SOUTH DAKOTA

October 2022



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Introduction

Medical costs have been growing over the last 30 years. Today, in many states, close to 60% of workers compensation benefits are attributed to medical costs. Managing the cost and delivery of medical care is one of the major concerns facing workers compensation (WC) stakeholders now and in the foreseeable future. The availability of medical data on WC claims is essential for the pricing of proposed state legislation and assessing impacts of changes to fee schedules.

This publication is a data source for regulators and others who are interested in the driving forces behind changing medical costs in WC claims. The information in this report provides important benchmarks against which cost containment strategies may be measured and gives valuable insight into the medical cost drivers that underlie the financial soundness of the WC system. When making comparisons to the region and countrywide (CW), it is important to note that some states in this report do not have a fee schedule.

Knowing how payments for different services contribute to WC medical benefit costs provides insight into the growth of medical benefits. This report illustrates the breakdown of services by category, namely:

- Physician
- Hospital Outpatient
- Hospital Inpatient
- Ambulatory Surgical Centers
- Drugs
- Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DMEPOS)
- Other

The report drills down into these categories to show which procedures represent the greatest share of payments and which are performed the most.

There is one important caveat: Information in this report may not coincide with an analysis of a medical fee schedule change performed in the future. An analysis of a medical fee schedule change requires evaluation of the specific procedures covered by the fee schedule, which may be different from how payments are categorized in this report.

The data contained in this report represents medical transactions for Service Year 2021 (medical services delivered from January 1, 2021, to December 31, 2021), except where otherwise noted. WC insurance carriers must report paid medical transactions if, over the most recent three years, they write at least 1% of the market share in any one state for which NCCI is the rating or advisory organization. Once a carrier meets the eligibility criteria, it is required to report for all applicable states in which it writes WC insurance. All carriers within an insurance group are required to report.

No data adjustments have been made for the reporting of COVID-19-related claims. For more information on the impacts of COVID-19 on medical losses, please see the Medical Indicators & Trends dashboard¹ on **ncci.com**.

Changes made to this edition of the Medical Data Report include:

- The addition of Texas data for 2019 and beyond
- A revision to the definition of major surgery to include spine/spinal cord neurostimulators surgical procedures (previously categorized as nonmajor surgery)
- The American Medical Association (AMA) updates for some evaluation and management procedure codes (i.e., removal of code 99201 and revised severity and time phraseology for Codes 99202–99205 and 99211–99215)

¹ <u>www.ncci.com/Articles/Pages/Insights-Medical-Indicators-Trends-Dashboard.aspx</u>



For South Dakota in Service Year 2021, the reported number of transactions was more than 227,900, with more than \$50,925,300 paid, for more than 11,900 claims. This represents data from 96% of the workers compensation premium written, which includes experience for large-deductible policies. Bulk payments and 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's Medical Data Call, Service Year 2021. Also:

- 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, TX, UT, VA, VT, WI, and WV
- Texas data is included for Service Year 2019 and beyond

Additional information regarding the data underlying this report is available in the Appendix.

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South Dakota

Medical Cost Statistics

Traditional workers compensation policies cover two types of benefit payments: medical benefits and indemnity (lost wages) benefits.

Of the two, medical benefits resulting from a work-related injury or disease are the leading cost drivers for workers compensation claims on a countrywide basis. Because this is a relative measure and benefits for both indemnity and medical may vary from state to state, the share of medical benefit costs may vary across states. In particular, the medical share in a state may be large because the indemnity benefits are relatively less prominent.

Chart 1 displays the medical percentage of total benefit costs for South Dakota, the region, and countrywide for Accident Years 2011 and 2020.

65% 62% 55% 54% 56% 54% 56% 54% 2011 2020 2011 2020

Chart 1
Medical Share of Total Benefit Costs by Accident Year

Source: NCCI's Calendar-Accident Year Call for Compensation Experience. Region includes IA, IL, IN, KS, MO, NE, and OK. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, and WV.

Region

Countrywide

The countrywide overall medical average cost per claim has seen moderate increases in recent years, averaging about 1% from Accident Years 2011 to 2020; this has increased at a slightly lower rate than the United States Personal Healthcare Spending per capita. ² Chart 2 displays the historical overall medical average cost per case (per lost-time claim) for the most recent 10 accident years. Results are displayed for South Dakota, the region, and countrywide.

Medical losses are at historical benefit levels and historical dollar values—meaning that no adjustment for inflation or changes in benefits has been made. Since the data is aggregated for medical losses of lost-time claims by accident year, the results shown in this chart provide a high-level perspective of the average medical cost per case.

This chart illustrates how South Dakota compares to the regional and countrywide average for each individual accident year and allows for the comparison of the growth in average medical costs.

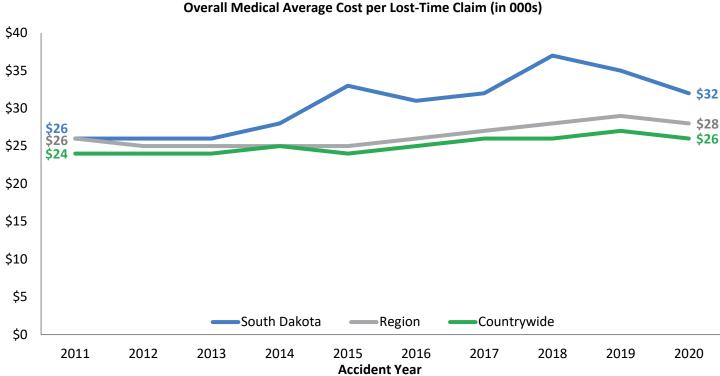


Chart 2
Overall Medical Average Cost per Lost-Time Claim (in 000s)

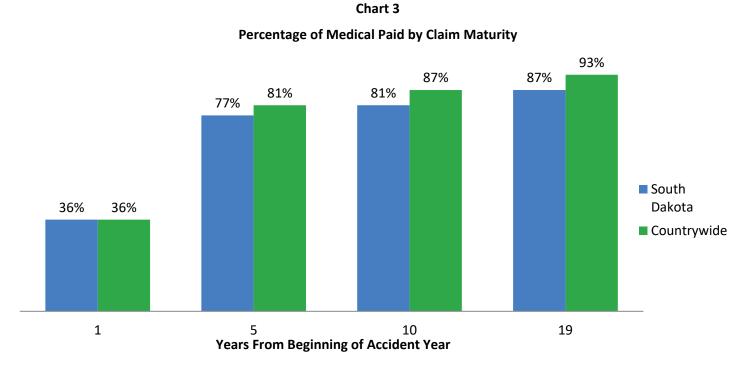
Source: NCCI's Calendar-Accident Year Call for Compensation Experience. Region includes IA, IL, IN, KS, MO, NE, and OK. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, and WV.

² State of the Line Report, Annual Issues Symposium, May 2022, www.ncci.com/Articles/Pages/AIS2022-SOTL-Presentation.pdf

One factor that impacts medical costs is the time over which medical services are used. Payments on a workers compensation claim often continue for many years. NCCI research has found that it is likely that about 10% of the cost of medical benefits for workplace injuries that occur this year will be for services provided more than two decades into the future.

A key determinant driving payment patterns for medical services is the effectiveness of dispute resolution processes, settlement practices, and statutory provisions for medical benefits. An aging workforce and continued changes in rules for Medicare set-asides have created a shifting environment for the settlement of claims and, particularly, medical benefits.

Chart 3 shows the percentage of medical benefits paid (including medical settlements) at different claim maturities for South Dakota and countrywide.



Source: NCCl's Calendar-Accident Year Call for Compensation Experience. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, and VT. The data for year 19 above does not include NV or TX.

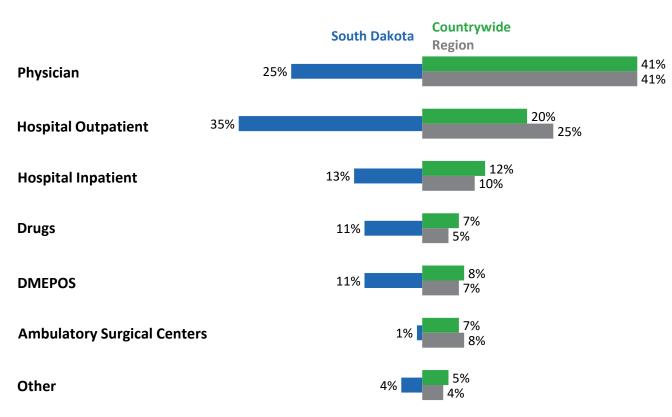
Knowing how payments for different medical services contribute to workers compensation medical benefit costs provides insight into the growth in medical benefits.

Payments categorized as Drugs; DME, Supplies, and Implants; and Other (includes home health, transportation, vision, and dental services) are based on the procedure code reported. Payments are mapped to these categories regardless of who provides the service or where the service is performed. For the remaining categories—Physicians, Hospital Outpatient, Hospital Inpatient, and Ambulatory Surgical Centers (ASC)—NCCI relies on a combination of:

- Provider taxonomy code—identifies the type of provider that billed for, and is being paid for, a medical service
- Procedure code—alphanumeric code used to identify procedures performed by medical professionals
- Place of services—alphanumeric code used to identify places where procedures were performed (e.g., physician's
 office or ambulatory surgical center)

Chart 4 displays the distribution of medical payments by type of service.

Chart 4
Distribution of Medical Payments





Physicians

In the 1970s, fewer than a dozen states had physician fee schedules in place. In the 1990s, several states established such schedules. Today, few states remain without a physician fee schedule. Recent changes in the schedules indicate greater attention to provisions that often seek to balance cost containment with service provider availability. NCCI's most recent study, "The Impact of Fee Schedule Updates on Physician Payments" (December 2018), shows that:

- Approximately 80% of any change in the maximum allowable reimbursement (MAR) for a physician service will be realized as a change in prices paid
- Most of the impact of a MAR change on prices paid is realized within one year from the date of a fee schedule change

One measure of workers compensation medical costs is a comparison of current payments to the Medicare rates adjusted for your state.

The chart below shows the average percentage of Medicare schedule reimbursement³ amounts for physician payments by category for South Dakota, the region, and countrywide. Note that "all physician services" in Chart 5 below refers only to the categories listed in the chart, and the state comparison reflects Medicare's geographic adjustments. In South Dakota, 91% of "all physician services" payments are included in the chart below.

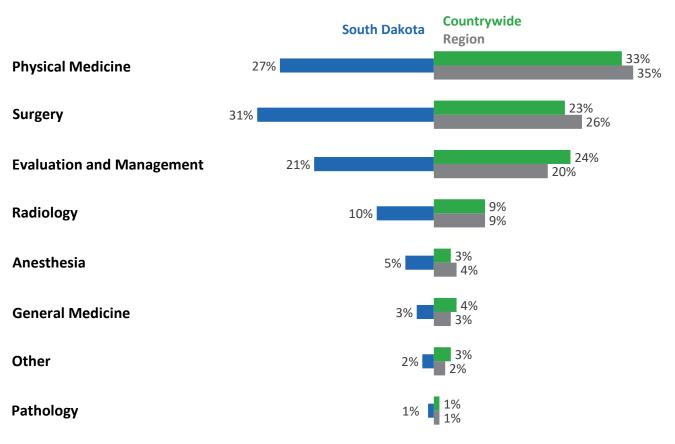
Chart 5
Physician Payments as a Percentage of Medicare

Physician Service Category	South Dakota	Region	Countrywide
General and Physical Medicine	111%	158%	136%
Surgery	198%	352%	276%
Evaluation and Management	95%	156%	135%
Radiology	212%	322%	229%
Anesthesia	294%	439%	319%
All Physician Services	137%	205%	167%

³ The calculation for Surgery takes into account Medicare's endoscopic procedures reimbursement rules.

Chart 6 displays the distribution of physician payments by service category for South Dakota, the region, and countrywide.

Chart 6
Distribution of Physician Payments by AMA Service Category



In 2019, NCCI conducted a review of physician costs in workers compensation as compared to group health (GH). Results⁴ show that WC physician costs are 77% higher than GH in general, with variation across states ranging from 0% to 200%. The difference in costs for physician services is due to both prices and utilization of services. Most notably, physical medicine services in WC are almost three times the costs of physical medicine services in GH, largely due to the number of services provided.

Physicians typically use current procedural terminology (CPT) codes to identify the services that they provide to claimants. These codes are specific and provide detailed information on what service was performed. The charts below display the top 10 procedure codes reported by physicians for the following service categories: anesthesia, surgery, radiology, physical and general medicine, and evaluation and management. A brief description of each procedure code is displayed in the corresponding table below each chart.

Except for anesthesia codes and physical & general medicine codes, the charts also include the average amount paid per transaction (PPT) for these codes in South Dakota, in the region, and countrywide. The average PPT is calculated by taking the total payments for the procedure code and dividing by the number of transactions for the procedure code. Other fields, such as the secondary paid procedure code, modifier, diagnosis code, place of service, and quantity/units, may need to be considered when evaluating average payments per service. The charts for the top 10 anesthesia codes and physical & general medicine codes include the average amount paid per unit (PPU) for the codes in South Dakota, in the region, and countrywide. The PPU is calculated by taking the total payments for the procedure code and dividing by the number of units for the procedure code. For these codes, a unit is typically a measurement of time (15-minute increment, 30-minute increment, 1-hour increment, etc.) but can also be one transaction. The procedure code description will indicate the unit measurement.

The Top 10 charts rank the procedure codes for each service category using two different methods. The first method ranks procedure codes by total payments. Procedure codes are sorted from highest total payments to lowest total payments. The procedure code with the highest amount paid is ranked first, the procedure code with the second highest amount paid is ranked second, and so on. This method of ranking shows those procedures that represent the highest percentage share of payments.

The second method ranks procedure codes by total count of transactions. The procedure code with the highest total transaction count is ranked first, the procedure code with the second highest total transaction count is ranked second, and so on. This method reveals the most frequently used procedures.

Additional charts show time until first treatment and results for telemedicine services. Time to initial treatment (TTT) is a measure of the availability of medical services and is measured by the number of days between the date of injury and the date on which the worker first received medical services. Telemedicine services charts are based on transactions reported with a telemedicine-specific procedure code, modifier, or place of service and show the distribution, as well as the top 10 procedure codes, for telemedicine service.

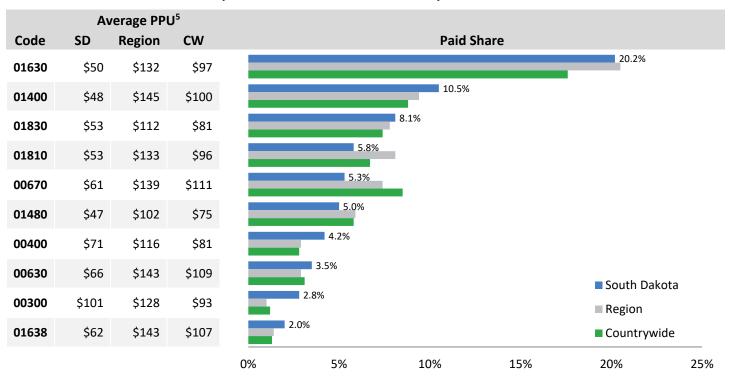
⁴ Lipton, Barry, Work Comp vs. Group Health—The Price We Pay (Channel NCCI, video file), May 23, 2019, www.youtube/fb3tnbQoMSY



In South Dakota, physician payments for anesthesia services provided in 2021 are, on average, 294% of Medicare-scheduled reimbursement amounts, compared to 439% in the region and 319% countrywide. Payments for these services comprise 5% of physician payments, compared to 4% in the region and 3% countrywide.

Chart 7

Top 10 Anesthesia Procedure Codes by Amount Paid



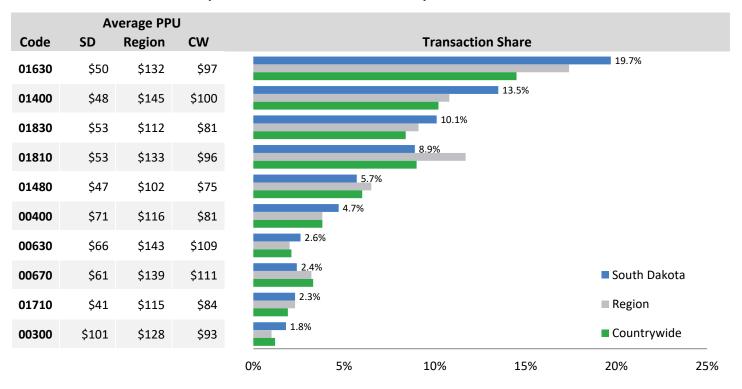
Code	Description
01630	Anesthesia for open or surgical arthroscopic procedures on humeral head and neck, sternoclavicular joint, acromioclavicular joint, and shoulder joint; not otherwise specified
01400	Anesthesia for open or surgical arthroscopic procedures on knee joint; not otherwise specified
01830	Anesthesia for open or surgical arthroscopic/endoscopic procedures on distal radius, distal ulna, wrist, or hand joints; not otherwise specified
01810	Anesthesia for all procedures on nerves, muscles, tendons, fascia, and bursae of forearm, wrist, and hand
00670	Anesthesia for extensive spine and spinal cord procedures (e.g., spinal instrumentation or vascular procedures)
01480	Anesthesia for open procedures on bones of lower leg, ankle, and foot; not otherwise specified
00400	Anesthesia for procedures on the integumentary system on the extremities, anterior trunk, and perineum; not otherwise specified
00630	Anesthesia for procedures in lumbar region; not otherwise specified
00300	Anesthesia for all procedures on the integumentary system, muscles and nerves of head, neck, and posterior trunk; not otherwise specified
01638	Anesthesia for open or surgical arthroscopic procedures on humeral head and neck, sternoclavicular joint, acromioclavicular joint, and shoulder joint; total shoulder replacement

⁵ A unit is an increment of 15 minutes unless otherwise defined in the description.

(NCCI)

Chart 8

Top 10 Anesthesia Procedure Codes by Transaction Counts



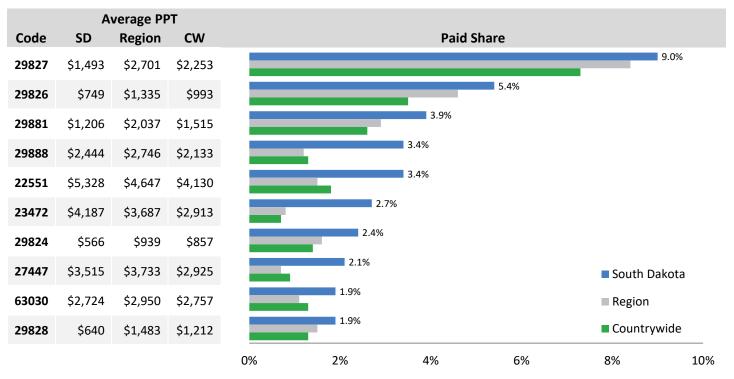
Code	Description
01630	Anesthesia for open or surgical arthroscopic procedures on humeral head and neck, sternoclavicular joint, acromioclavicular joint, and shoulder joint; not otherwise specified
01400	Anesthesia for open or surgical arthroscopic procedures on knee joint; not otherwise specified
01830	Anesthesia for open or surgical arthroscopic/endoscopic procedures on distal radius, distal ulna, wrist, or hand joints; not otherwise specified
01810	Anesthesia for all procedures on nerves, muscles, tendons, fascia, and bursae of forearm, wrist, and hand
01480	Anesthesia for open procedures on bones of lower leg, ankle, and foot; not otherwise specified
00400	Anesthesia for procedures on the integumentary system on the extremities, anterior trunk, and perineum; not otherwise specified
00630	Anesthesia for procedures in lumbar region; not otherwise specified
00670	Anesthesia for extensive spine and spinal cord procedures (e.g., spinal instrumentation or vascular procedures)
01710	Anesthesia for procedures on nerves, muscles, tendons, fascia, and bursae of upper arm and elbow; not otherwise specified
00300	Anesthesia for all procedures on the integumentary system, muscles and nerves of head, neck, and posterior trunk; not otherwise specified



In South Dakota, physician payments for surgery services provided in 2021 are, on average, 198% of Medicare-scheduled reimbursement amounts, compared to 352% in the region and 276% countrywide. Payments for these services comprise 31% of physician payments, compared to 26% in the region and 23% countrywide.

Chart 9

Top 10 Surgery Procedure Codes by Amount Paid

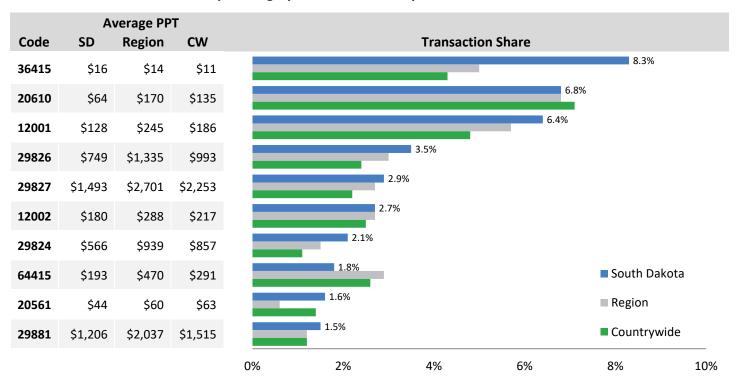


Code	Description
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair
29826	Arthroscopy, shoulder, surgical; decompression of subacromial space with partial acromioplasty, with coracoacromial ligament (i.e., arch) release, when performed
29881	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving), including debridement/shaving of articular cartilage
29888	Arthroscopically aided anterior cruciate ligament repair/augmentation or reconstruction
22551	Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy, and decompression of spinal cord and/or nerve roots; cervical below C2
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (e.g., total shoulder))
29824	Arthroscopy, shoulder, surgical; distal claviculectomy including distal articular surface (Mumford procedure)
27447	Arthroplasty, knee condyle and plateau; medial and lateral compartments, with or without patella resurfacing (total knee arthroplasty)
63030	Laminotomy (hemilaminectomy) with decompression of nerve root(s) including partial facetectomy, foraminotomy, and/or excision of herniated intervertebral disc; 1 interspace lumbar
29828	Arthroscopy, shoulder, surgical; biceps tenodesis

(NECE)

Chart 10

Top 10 Surgery Procedure Codes by Transaction Counts

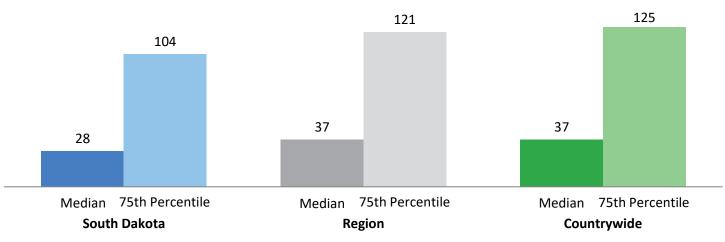


Code	Description
36415	Collection of venous blood by venipuncture
20610	Arthrocentesis, aspiration, and/or injection; major joint or bursa (e.g., shoulder, hip, knee, joint, subacromial bursa)
12001	Simple repair of superficial wounds of scalp, neck, axillae, external genitalia, trunk, and/or extremities (including hands and feet); 2.5 cm or less
29826	Arthroscopy, shoulder, surgical; decompression of subacromial space with partial acromioplasty, with coracoacromial ligament (i.e., arch) release, when performed
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair
12002	Simple repair of superficial wounds of scalp, neck, axillae, external genitalia, trunk, and/or extremities (including hands and feet); 2.6 cm to 7.5 cm
29824	Arthroscopy, shoulder, surgical; distal claviculectomy including distal articular surface (Mumford procedure)
64415	Injection, anesthetic agent; brachial plexus, single
20561	Needle insertion(s) without injection; 3 or more muscles
29881	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving), including debridement/shaving of articular cartilage



Chart 11 shows the median and 75th percentile⁶ time until first treatment for major surgery for South Dakota, the region, and countrywide. No adjustment has been made to account for injuries that may take time to develop such as an occupational disease, which may extend the time between the date a work-related injury or disease is reported and the first medical treatment takes place.

Chart 11 Time Until First Treatment for Major Surgery⁷ (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.

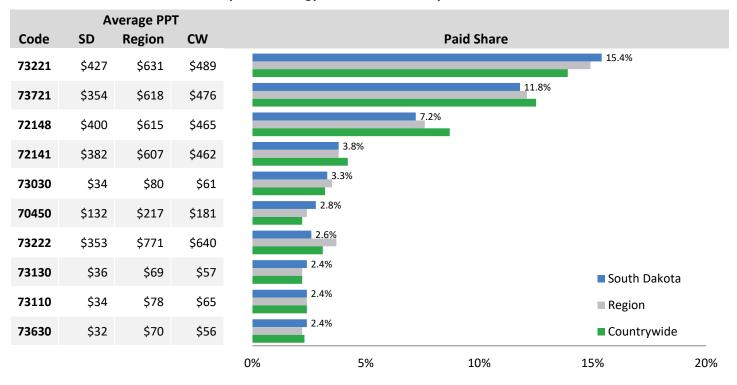
⁶ The median is the TTT where one-half of all TTT values are higher and one-half are lower. This statistic is less affected by extremely low or extremely high values. The 75th percentile is the TTT where 75% of all TTT values are lower and 25% are higher. For example, Chart 11 indicates that out of 100 claimants, 75 will receive a major surgery within 104 days of their accident date. Comparing the median to the 75th percentile illustrates the variation in TTT between claims.

A service is classified as "surgical" if it falls within the surgical category as defined by the AMA. A service is further classified as "major surgery" if it is not an injection and has a global follow-up period of 90 days, as defined by the Centers for Medicare & Medicaid Services, or the procedure involves spine/spinal cord neurostimulators.



In South Dakota, physician payments for radiology services provided in 2021 are, on average, 212% of Medicarescheduled reimbursement amounts, compared to 322% in the region and 229% countrywide. Payments for these services comprise 10% of physician payments, compared to 9% in the region and 9% countrywide.

Chart 12 **Top 10 Radiology Procedure Codes by Amount Paid**

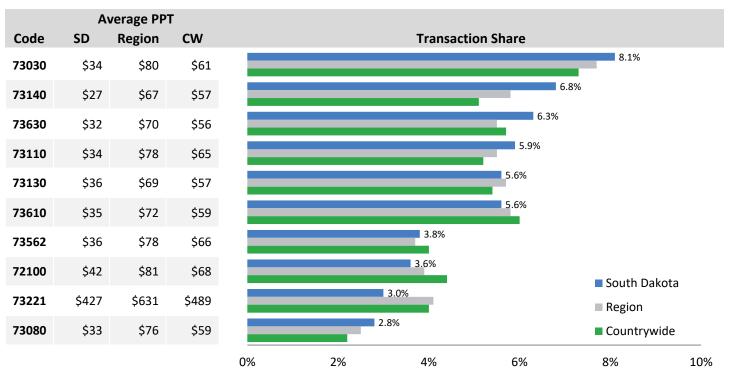


Code	Description
73221	Magnetic resonance (e.g., proton) imaging, any joint of upper extremity; without contrast material
73721	Magnetic resonance (e.g., proton) imaging, any joint of lower extremity; without contrast material
72148	Magnetic resonance (e.g., proton) imaging, spinal canal and contents, lumbar; without contrast material
72141	Magnetic resonance (e.g., proton) imaging, spinal canal and contents, cervical; without contrast material
73030	Radiologic examination, shoulder; complete minimum of 2 views
70450	Computed tomography (CT), head or brain; without contrast material
73222	Magnetic resonance (e.g., proton) imaging, any joint of upper extremity; with contrast material
73130	Radiologic examination, hand; minimum of 3 views
73110	Radiologic examination, wrist; complete minimum of 3 views
73630	Radiologic examination, foot; complete minimum of 3 views

(NECE)

Chart 13

Top 10 Radiology Procedure Codes by Transaction Counts

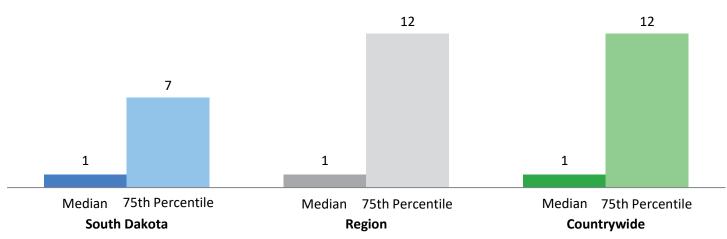


Code	Description
73030	Radiologic examination, shoulder; complete minimum of 2 views
73140	Radiologic examination, finger(s); minimum of 2 views
73630	Radiologic examination, foot; complete minimum of 3 views
73110	Radiologic examination, wrist; complete minimum of 3 views
73130	Radiologic examination, hand; minimum of 3 views
73610	Radiologic examination, ankle; complete minimum of 3 views
73562	Radiologic examination, knee; 3 views
72100	Radiologic examination, spine, lumbosacral; 2 or 3 views
73221	Magnetic resonance (e.g., proton) imaging, any joint of upper extremity; without contrast material
73080	Radiologic examination, elbow; complete, minimum of 3 views

Chart 14 shows the median and 75th percentile time until first treatment for radiology procedures for South Dakota, the region, and countrywide.

Chart 14

Time Until First Treatment for Radiology (in Days)

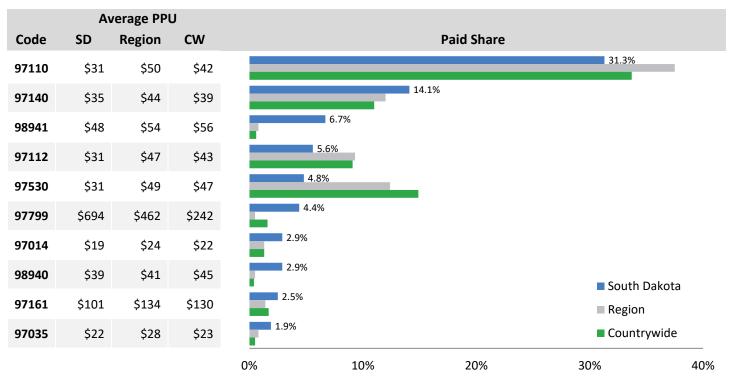


Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.



In South Dakota, physician payments for physical and general medicine services provided in 2021 are, on average, 111% of Medicare-scheduled reimbursement amounts, compared to 158% in the region and 136% countrywide. Payments for these services comprise 30% of physician payments, compared to 38% in the region and 37% countrywide.

Chart 15 Top 10 Physical and General Medicine Procedure Codes by Amount Paid

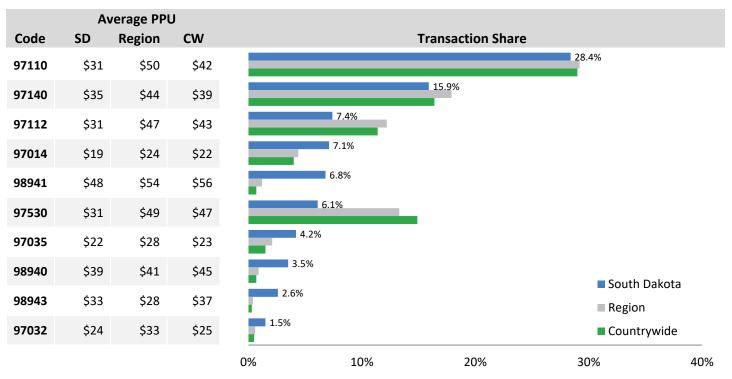


Code	Description
97110	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion, and flexibility
97140	Manual therapy techniques (e.g., mobilization/manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes
98941	Chiropractic manipulative treatment (CMT); spinal, 3-4 regions
97112	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities
97530	Therapeutic activities, direct (one-on-one) patient contact by the provider (use of dynamic activities to improve functional performance), each 15 minutes
97799	Unlisted physical medicine/rehabilitation service or procedure
97014	Application of a modality to 1 or more areas; electrical stimulation (unattended)
98940	Chiropractic manipulative treatment (CMT); spinal, 1-2 regions
97161	Physical therapy evaluation of low complexity; typically, 20 minutes are spent with the patient and/or family
97035	Application of a modality to 1 or more areas; ultrasound, each 15 minutes

(NECI)

Chart 16

Top 10 Physical and General Medicine Procedure Codes by Transaction Counts

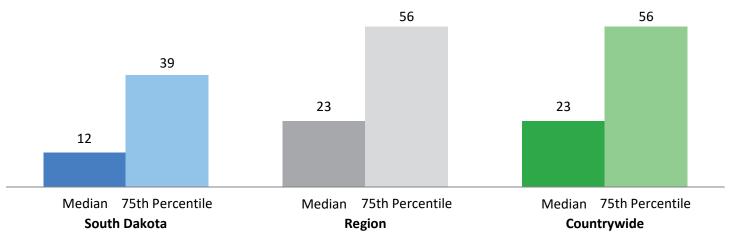


Code	Description
97110	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion, and flexibility
97140	Manual therapy techniques (e.g., mobilization/manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes
97112	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities
97014	Application of a modality to 1 or more areas; electrical stimulation (unattended)
98941	Chiropractic manipulative treatment (CMT); spinal, 3-4 regions
97530	Therapeutic activities, direct (one-on-one) patient contact by the provider (use of dynamic activities to improve functional performance), each 15 minutes
97035	Application of a modality to 1 or more areas; ultrasound, each 15 minutes
98940	Chiropractic manipulative treatment (CMT); spinal, 1-2 regions
98943	Chiropractic manipulative treatment (CMT); extraspinal, 1 or more regions
97032	Application of a modality to 1 or more areas; electrical stimulation (manual), each 15 minutes

Chart 17 shows the median and 75th percentile time until first treatment for physical and general medicine procedures for South Dakota, the region, and countrywide.

Chart 17

Time Until First Treatment for Physical and General Medicine (in Days)

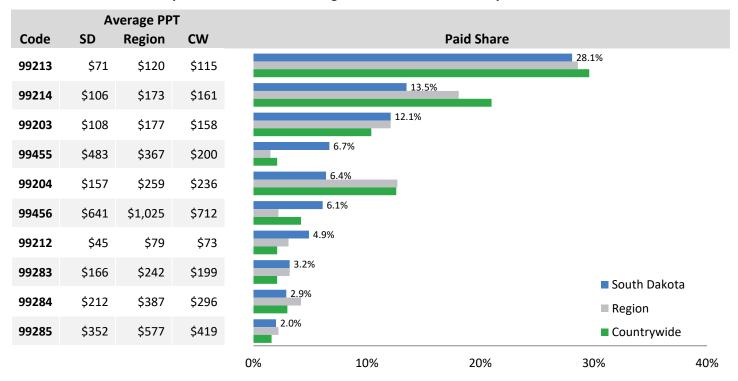


Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.



In South Dakota, physician payments for evaluation and management services provided in 2021 are, on average, 95% of Medicare-scheduled reimbursement amounts, compared to 156% in the region and 135% countrywide. Payments for these services comprise 21% of physician payments, compared to 20% in the region and 24% countrywide.

Chart 18 Top 10 Evaluation and Management Procedure Codes by Amount Paid

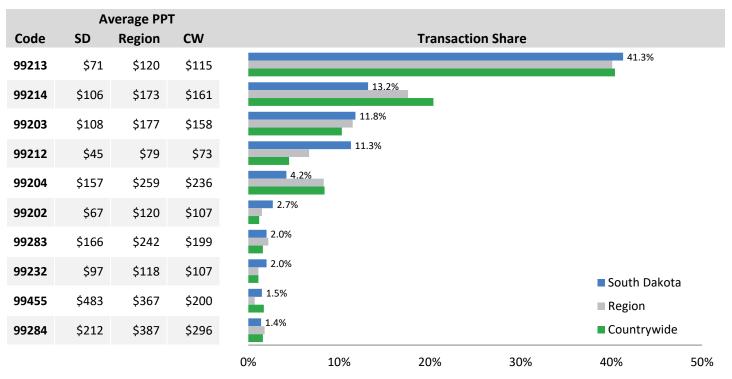


Code	Description
99213	Office or other outpatient visit for the evaluation and management of an established patient, which requires a low level of medical decision making. 20-29 minutes of total time is spent on the date of the encounter.
99214	Office or other outpatient visit for the evaluation and management of an established patient, which requires a moderate level of medical decision making. 30-39 minutes of total time is spent on the date of the encounter.
99203	Office or other outpatient visit for the evaluation and management of a new patient, which requires a low level of medical decision making. 30-44 minutes of total time is spent on the date of the encounter.
99455	Work related or medical disability examination by the treating physician.
99204	Office or other outpatient visit for the evaluation and management of a new patient, which requires a moderate level of medical decision making. 45-59 minutes of total time is spent on the date of the encounter.
99456	Work related or medical disability examination by other than the treating physician.
99212	Office or other outpatient visit for the evaluation and management of an established patient, which requires straightforward medical decision making. 10-19 minutes of total time is spent on the date of the encounter.
99283	Emergency department visit. Usually the presenting problem(s) are of moderate severity.
99284	Emergency department visit. Usually the presenting problem(s) are of high severity and require urgent evaluation by the physician but do not pose an immediate significant threat to life or physiologic function.
99285	Emergency department visit. Usually the presenting problem(s) are of high severity and pose an immediate significant threat to life or physiologic function.

(NCCI)

Chart 19

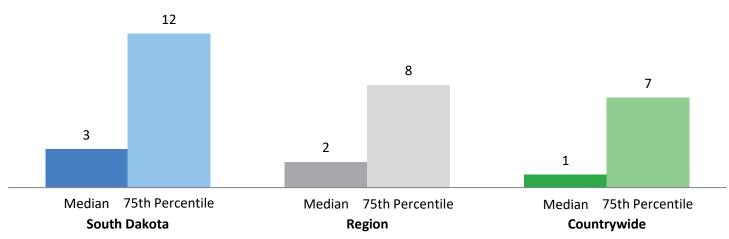
Top 10 Evaluation and Management Procedure Codes by Transaction Counts



Code	Description
99213	Office or other outpatient visit for the evaluation and management of an established patient, which requires a low level of medical decision making. 20-29 minutes of total time is spent on the date of the encounter.
99214	Office or other outpatient visit for the evaluation and management of an established patient, which requires a moderate level of medical decision making. 30-39 minutes of total time is spent on the date of the encounter.
99203	Office or other outpatient visit for the evaluation and management of a new patient, which requires a low level of medical decision making. 30-44 minutes of total time is spent on the date of the encounter.
99212	Office or other outpatient visit for the evaluation and management of an established patient, which requires straightforward medical decision making. 10-19 minutes of total time is spent on the date of the encounter.
99204	Office or other outpatient visit for the evaluation and management of a new patient, which requires a moderate level of medical decision making. 45-59 minutes of total time is spent on the date of the encounter.
99202	Office or other outpatient visit for the evaluation and management of a new patient, which requires straightforward medical decision making. 15-29 minutes of total time is spent on the date of the encounter.
99283	Emergency department visit. Usually the presenting problem(s) are of moderate severity.
99232	Subsequent hospital care per day for the evaluation and management of a patient. Usually the patient is responding inadequately to therapy or has developed a minor complication. Physicians typically spend 25 minutes at the bedside and on the patient's hospital floor or unit.
99455	Work related or medical disability examination by the treating physician.
99284	Emergency department visit. Usually the presenting problem(s) are of high severity and require urgent evaluation by the physician but do not pose an immediate significant threat to life or physiologic function.

Chart 20 shows the median and 75th percentile time until first treatment for evaluation and management procedures for South Dakota, the region, and countrywide.

Chart 20
Time Until First Treatment for Evaluation and Management (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.



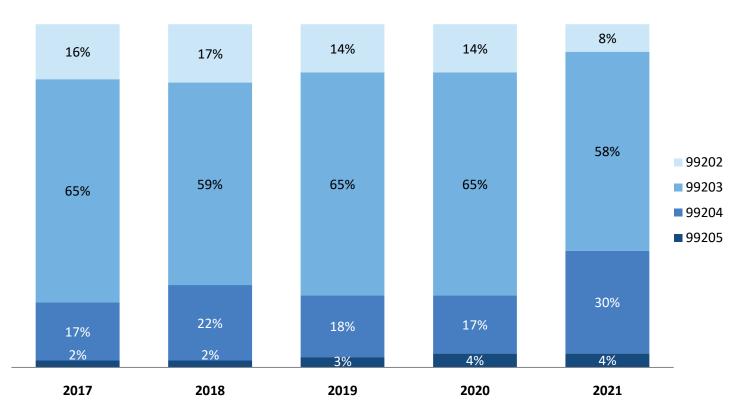
Evaluation and Management services consist largely of office or outpatient visits for a new patient or an established patient.

There are four periods of time spent with a *new* patient, ranging from 15–29 minutes for Procedure Code 99202 to 60–74 minutes for Procedure Code 99205. Chart 21 shows a five-year snapshot of experience for each procedure type and the average amount paid per transaction for new patients.

Chart 21

Office or Other Outpatient Visit for the Evaluation and Management of a New Patient

Distribution of Payments by Procedure Code



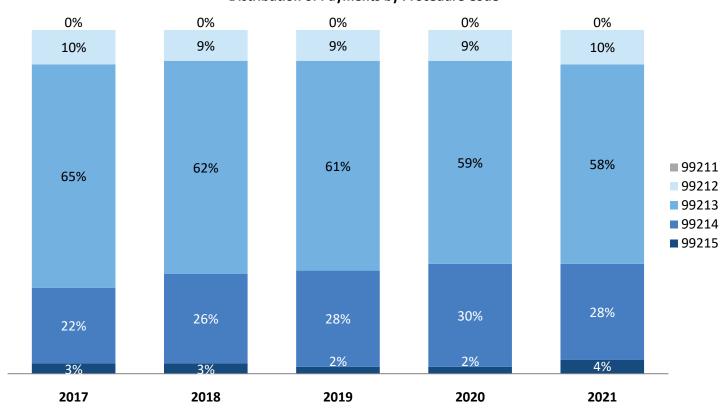
Source: NCCI's Medical Data Call, Service Years 2017 to 2021. Severity/Time description updated January 1, 2021.

		Average PPT				
Code	Severity/Time	2017	2018	2019	2020	2021
99202	Straightforward; 15-29 minutes with patient	\$70	\$71	\$72	\$72	\$67
99203	Low; 30-44 minutes with patient	\$105	\$108	\$108	\$108	\$108
99204	Moderate; 45-59 minutes with patient	\$149	\$152	\$155	\$153	\$157
99205	High; 60-74 minutes with patient	\$210	\$223	\$202	\$207	\$212

(NEEI)

Similarly, for established patients, there are five periods of time spent with the patient, ranging from a patient not requiring any time with a physician for Procedure Code 99211 to 40–54 minutes for Procedure Code 99215. Chart 22 shows a five-year snapshot of experience for each procedure type and the average amount paid per transaction for an established patient.

Chart 22 Office or Other Outpatient Visit for the Evaluation and Management of an Established Patient **Distribution of Payments by Procedure Code**



Source: NCCI's Medical Data Call, Service Years 2017 to 2021. Severity/Time description updated January 1, 2021.

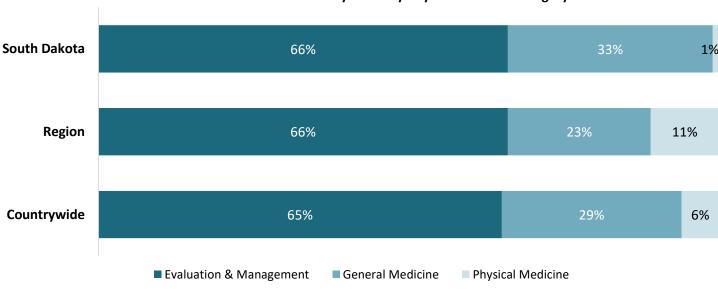
		Average PPT				
Code	Severity/Time	2017	2018	2019	2020	2021
99211	Minimal; May not require physician	\$25	\$27	\$25	\$26	\$31
99212	Straightforward; 10-19 minutes with patient	\$44	\$44	\$46	\$45	\$45
99213	Low; 20-29 minutes with patient	\$69	\$70	\$70	\$70	\$71
99214	Moderate; 30-39 minutes with patient	\$104	\$105	\$106	\$107	\$106
99215	High; 40-54 minutes with patient	\$145	\$152	\$154	\$152	\$157

Telemedicine services have been utilized more than in years prior to 2020⁸ and are generally observed in the evaluation and management, physical medicine, and general medicine physician service categories. In Service Year 2021, telemedicine services represent about 1% of the physician costs in these categories countrywide. The share of payments varies across jurisdictions, ranging from about 0% to about 4%.

In South Dakota, the share of claimants receiving physician services (evaluation and management, physical medicine, and general medicine) who had telemedicine encounters changed from 4.7% in 2020 to 2.0% in 2021. Chart 23 shows the distribution of telemedicine payments for these physician service categories in South Dakota, the region, and countrywide.

Chart 23

Distribution of Telemedicine Payments by Physician Service Category

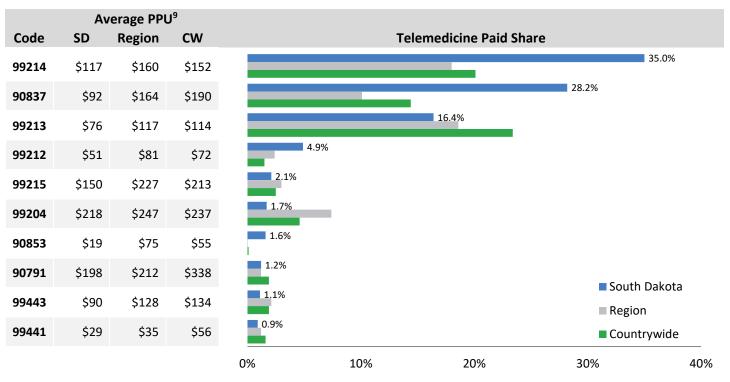


⁸ www.ncci.com/Articles/Documents/Insights-COVID-19-Impact-Medical-Treatment-Workers-Comp-3QTR-2020-Perspective.pdf

Chart 24 shows the top 10 procedure codes reported as a telemedicine service by paid amount for South Dakota with comparative values for the region and countrywide.

Chart 24

Top 10 Procedure Codes by Amount Paid for Telemedicine Services



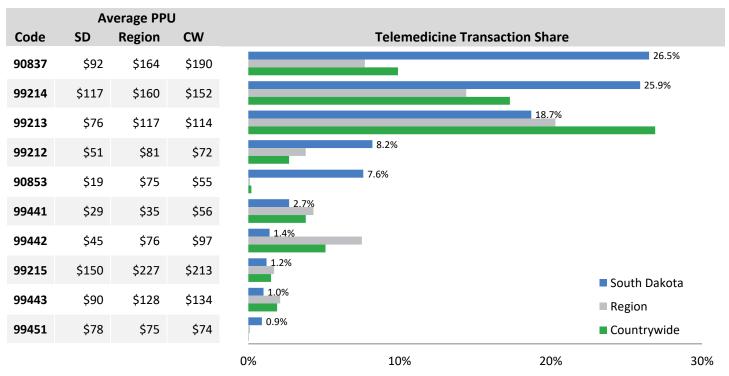
Code	Description
99214	Office or other outpatient visit for the evaluation and management of an established patient, which requires a moderate level of medical decision making. 30-39 minutes of total time is spent on the date of the encounter.
90837	Psychotherapy, 60 minutes with patient
99213	Office or other outpatient visit for the evaluation and management of an established patient, which requires a low level of medical decision making. 20-29 minutes of total time is spent on the date of the encounter.
99212	Office or other outpatient visit for the evaluation and management of an established patient, which requires straightforward medical decision making. 10-19 minutes of total time is spent on the date of the encounter.
99215	Office or other outpatient visit for the evaluation and management of an established patient, which requires a high level of medical decision making. 40-54 minutes of total time is spent on the date of the encounter.
99204	Office or other outpatient visit for the evaluation and management of a new patient, which requires a moderate level of medical decision making. 45-59 minutes of total time is spent on the date of the encounter.
90853	Group psychotherapy (other than of a multiple-family group)
90791	Psychiatric diagnostic evaluation
99443	Telephone evaluation and management service by a physician or other qualified health care professional; 21-30 minutes of medical discussion.
99441	Telephone evaluation and management service by a physician or other qualified health care professional; 5-10 minutes of medical discussion.

⁹ Based on the number of units for the procedure code (typically in increments of time) but can also be one transaction.

Chart 25 shows the top 10 procedure codes reported as a telemedicine service by transaction count for South Dakota with comparative values for the region and countrywide.

Chart 25

Top 10 Procedure Codes by Transaction Counts for Telemedicine Services



Code	Description
90837	Psychotherapy, 60 minutes with patient
99214	Office or other outpatient visit for the evaluation and management of an established patient, which requires a moderate level of medical decision making. 30-39 minutes of total time is spent on the date of the encounter.
99213	Office or other outpatient visit for the evaluation and management of an established patient, which requires a low level of medical decision making. 20-29 minutes of total time is spent on the date of the encounter.
99212	Office or other outpatient visit for the evaluation and management of an established patient, which requires straightforward medical decision making. 10-19 minutes of total time is spent on the date of the encounter.
90853	Group psychotherapy (other than of a multiple-family group)
99441	Telephone evaluation and management service by a physician or other qualified health care professional; 5-10 minutes of medical discussion.
99442	Telephone evaluation and management service by a physician or other qualified health care professional; 11-20 minutes of medical discussion.
99215	Office or other outpatient visit for the evaluation and management of an established patient, which requires a high level of medical decision making. 40-54 minutes of total time is spent on the date of the encounter.
99443	Telephone evaluation and management service by a physician or other qualified health care professional; 21-30 minutes of medical discussion.
99451	Interprofessional telephone/Internet/electronic health record assessment and management service provided by a consultative physician, including a written report to the patient's treating/requesting physician or other qualified health care professional, 5 minutes or more of medical consultative time

Hospital Inpatient

Payments attributed to facilities represent hospital inpatient services, hospital outpatient services, and ambulatory surgical center services. General healthcare trends may be the primary driver of the cost distribution; however, the fee schedule may also play a role. In many states, the fee schedule varies by type of facility, which may help explain differences observed between states.

Hospital inpatient fee schedules in workers compensation vary across jurisdictions. Some states have fee schedules based on a group of facility services related to the hospital admission, such as a Medicare Severity Diagnosis-Related Group (MS-DRG or DRG for short); others are on a per-diem basis, with some variation on the per-diem amount by type of admission. Other states have provisions for the reimbursement to be a certain percentage of hospital charges. Several states remain without any regulation today.

A hospital inpatient stay is typically reported with one of two types of codes: DRG code or revenue code. Data reporters are instructed to report the code that is consistent with how the reimbursement was determined.

If the hospital inpatient fee schedule is a Medicare-based fee schedule, then a greater share of payments reported by DRG codes would be expected. DRG codes are a system of hospital payment classifications that group patients with similar clinical problems who are expected to require similar amounts of hospital resources. DRG codes provide detailed information about the type of services performed during the inpatient stay. In South Dakota, 33% of hospital inpatient payments are reported with a DRG code.

Comparisons by procedure code for inpatient costs should be interpreted with caution due to differences in fee schedules, which may result in varied reporting of codes across jurisdictions, the region, and countrywide. Some measures for hospital inpatient services include the average cost of an inpatient stay, the average length of stay, or the average cost per day.

Unless otherwise stated, the inpatient results are based on inpatient stays with a discharge date in 2021.

A measure of workers compensation hospital inpatient costs is a comparison of current payments to the Medicare rates. The chart below shows the average percentage of Medicare-scheduled reimbursement amounts for hospital inpatient payments for South Dakota, the region, and countrywide, based on hospital episodes that are reported with a DRG code.

Chart 26
Hospital Inpatient Payments as a Percentage of Medicare

	South		
Medical Cost Category	Dakota	Region	Countrywide
Hospital Inpatient	228%	198%	191%

Source: NCCI's Medical Data Call for inpatient stays discharged in Calendar Year 2021. Region includes IA, IL, IN, KS, MI, MN, MO, NE, OK, and WI. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, WI, and WV.

The distribution of medical payments for hospital inpatient is 13% for South Dakota, 10% for the region, and 12% for countrywide. One comparative measure of inpatient service costs is the average payment per inpatient stay. An inpatient stay is defined as any hospital service or set of services provided to a claimant during the period of time when the claimant is in an inpatient setting, for a specific diagnosis. Any stay may have more than one procedure performed, and any claimant may have more than one stay.

Chart 27 displays the average amount paid per stay for hospital inpatient services, while Chart 28 displays the average amount paid per day for hospital inpatient services for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 27

Average Amount Paid per Stay for Hospital Inpatient Services

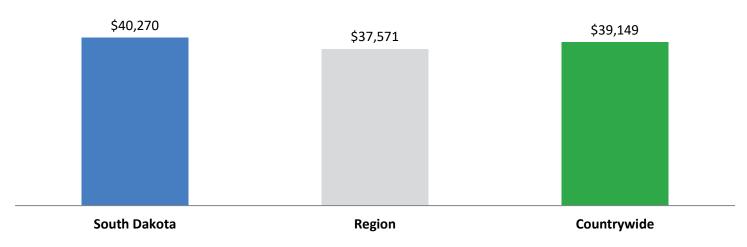


Chart 28

Average Amount Paid per Day for Hospital Inpatient Services

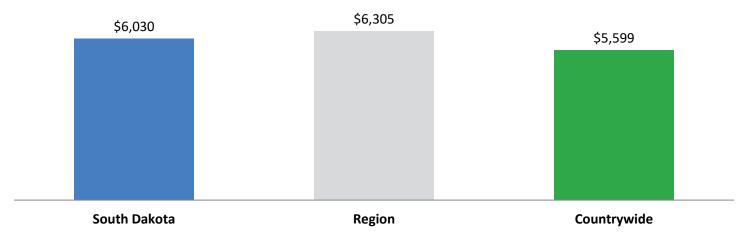


Chart 29 displays the average number of hospital inpatient stays per 1,000 active claims in 2021 for South Dakota, the region, and countrywide. An active claim is a workers compensation claim for which there is at least one medical service provided during that service year. Chart 30 displays the average and median length of stay for hospital inpatient services for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 29

Average Number of Inpatient Stays per 1,000 Active Claims

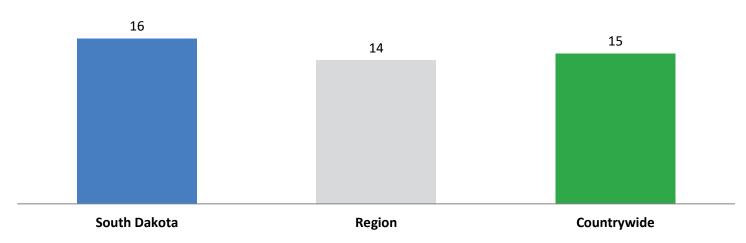
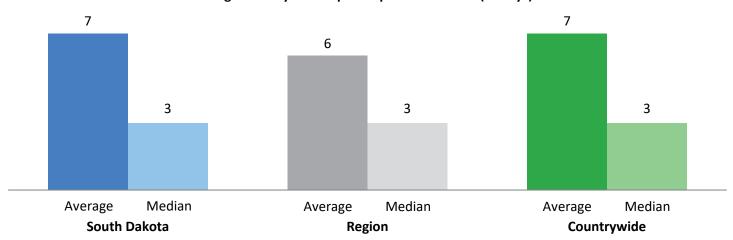


Chart 30
Length of Stay for Hospital Inpatient Services (in Days)

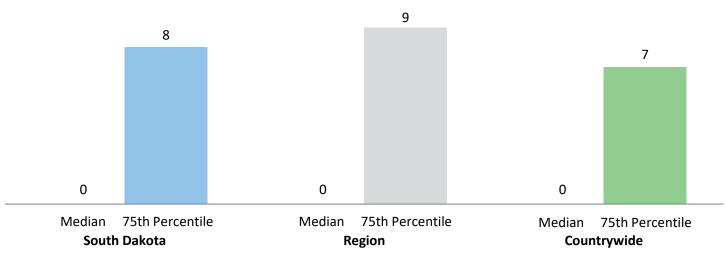


SOUTH DAKOTA

Chart 31 shows the median and 75th percentile time until first treatment for inpatient stays, other than emergency room visits, for South Dakota, the region, and countrywide.

Chart 31

Time Until First Treatment for Hospital Inpatient Stays (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.

Charts 32 and 33 display the top 10 diagnosis groups and top 10 DRG codes for hospital inpatient stays. A diagnosis group is identified for each stay based on an ICD-10 (International Classification of Diseases) code. The diagnosis groups and DRG codes are ranked based on total payments for hospital inpatient services in South Dakota. A brief description of each DRG code is displayed in the table below chart 33. The information is based on inpatient stays with a discharge date in 2020 or 2021.

Chart 32

Top 10 Diagnosis Groups by Amount Paid for Hospital Inpatient Services

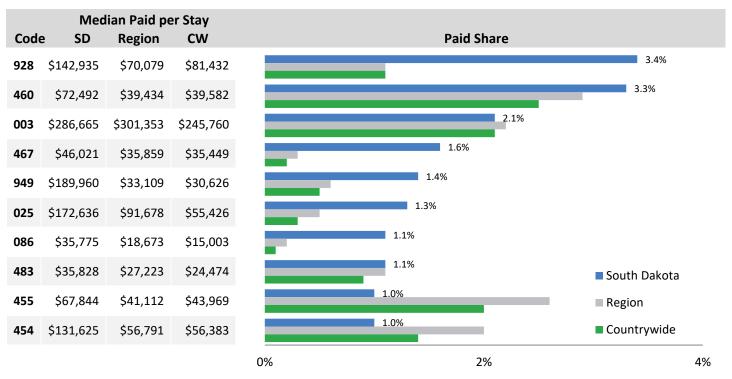
		Median A South	mount Paid p	er Stay
Diagnosis Group	Paid Share	Dakota	Region	Countrywide
Traumatic brain injury	13.1%	\$42,483	\$28,427	\$29,027
Hip/pelvis fracture/major trauma	10.2%	\$25,388	\$23,069	\$21,602
Tibia/fibula fracture	6.8%	\$33,014	\$25,451	\$23,945
Burn and corrosion, third degree, other than head, face, and neck	6.7%	\$142,935	\$44,155	\$46,543
Complication from surgical device	4.9%	\$20,538	\$23,414	\$23,283
Lumbar spine degeneration	4.4%	\$61,614	\$39,391	\$37,477
Lumbosacral intervertebral disc disorders	3.6%	\$24,390	\$29,710	\$29,815
Respiratory failure	3.4%	\$126,549	\$34,000	\$36,000
Facial fracture	2.9%	\$61,715	\$20,795	\$23,733
Cervical disc disorders	2.7%	\$22,981	\$18,054	\$20,918

Source: NCCI's Medical Data Call for inpatient stays with a discharge date in Calendar Year 2020 or 2021.



Chart 33

Top 10 DRG Codes by Amount Paid for Hospital Inpatient Services



Code	Description
928	Full thickness burn with skin graft or inhalation injury with complications or comorbidities/major complications or comorbidities
460	Spinal fusion, except cervical, without major complications or comorbidities
003	Extracorporeal membrane oxygenation (ECMO) or tracheostomy with mechanical ventilation 96+ hours or principal diagnosis except face, mouth, and neck with major operating room
467	Revision of hip or knee replacement with complications or comorbidities
949	Aftercare with complications or comorbidities/major complications or comorbidities
025	Craniotomy and endovascular intracranial procedures with major complications or comorbidities
086	Traumatic stupor and coma, coma less than one hour with complications or comorbidities
483	Major joint/limb reattachment procedure of upper extremities
455	Combined anterior/posterior spinal fusion without complications or comorbidities/major complications or comorbidities
454	Combined anterior/posterior spinal fusion with complications or comorbidities

Source: NCCI's Medical Data Call for inpatient stays with a discharge date in 2020 or 2021. Region includes IA, IL, IN, KS, MI, MN, MO, NE, OK, and WI. Countrywide data includes 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, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, WI, and WV.

Note: In South Dakota, 33% of hospital inpatient payments are reported with a DRG code.

Hospital Outpatient

Hospital outpatient services are reported with several types of procedure codes. Data reporters are instructed to report the code that is consistent with the way the reimbursement was determined.

If the hospital outpatient fee schedule is a Medicare-based fee schedule, then a greater share of payments reported by current procedural terminology (CPT) or other healthcare common procedure coding system (HCPCS) codes would be expected. These codes are very specific and provide detailed information about the actual services performed. Some payments are also reported by a specific ambulatory payment classification (APC) code. An APC code represents a group of services provided by the facility on an outpatient basis.

If the hospital outpatient fee schedule is based on a discount from charged amounts, then revenue codes may be the more prevalent code type. Revenue codes are very generic and do not provide much information about the specific services that were performed.

Comparisons by procedure code for outpatient benefits should be interpreted with caution due to differences in fee schedules, which may result in varied reporting of codes across jurisdictions, the region, and countrywide. One comparative measure of outpatient service costs is the average cost per outpatient visit. A visit is defined as any service or set of services provided to a claimant on a specific date. Any visit may have more than one procedure performed, and any claim may have more than one visit.

Hospital outpatient visits can vary in nature and the level of reimbursement varies considerably by type of visit. A service is classified as "surgical" if it falls within the surgical category as defined by the AMA. A service is further classified as "major surgery" if it is not an injection and has a global follow-up period of 90 days, as defined by the Centers for Medicare & Medicaid Services (CMS), or the procedure involves spine/spinal cord neurostimulators. A hospital outpatient visit could be the result of an emergency visit and those visits are shown separately. Nonemergency outpatient visits are shown separately for those with and without major surgery services; those without a major surgery service are referred to as "Other" outpatient visits.

The distribution of medical payments for hospital outpatient is 35% for South Dakota, 25% for the region, and 20% for countrywide.

One measure of workers compensation hospital outpatient costs is a comparison of current payments to the Medicare rates. The chart below shows the average percentage of Medicare-scheduled reimbursement amounts for hospital outpatient payments for South Dakota, the region, and countrywide. In South Dakota, 72% of hospital outpatient payments are included in the chart below.

Chart 34
Hospital Outpatient Payments as a Percentage of Medicare

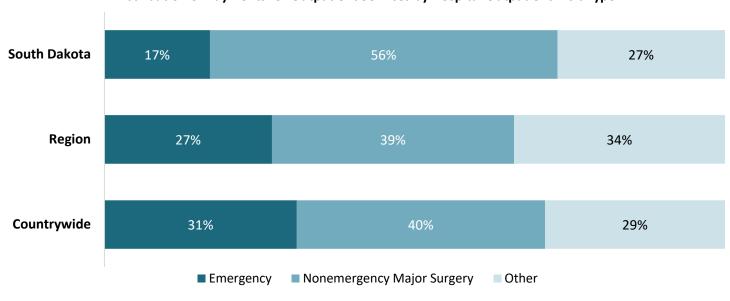
	South		
Medical Cost Category	Dakota	Region	Countrywide
Hospital Outpatient	237%	261%	236%

Source: NCCI's Medical Data Call for Service Year 2021. Region includes IA, IL, IN, KS, MI, MN, MO, NE, OK, and WI. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, WI, and WV.

Chart 35 displays the distribution of hospital outpatient payments by visit type for South Dakota, the region, and countrywide.

Chart 35

Distribution of Payments for Outpatient Services by Hospital Outpatient Visit Type



Emergency hospital outpatient visits represent 17% of hospital outpatient payments in South Dakota. Chart 36 displays the average amount paid per emergency visit for outpatient services, while Chart 37 displays the average number of emergency hospital outpatient visits per 1,000 active claims for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 36

Average Amount Paid for Hospital Outpatient Services per Emergency Visit

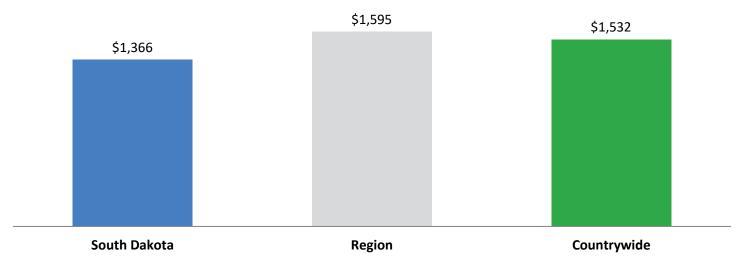


Chart 37

Average Number of Emergency Hospital Outpatient Visits per 1,000 Active Claims

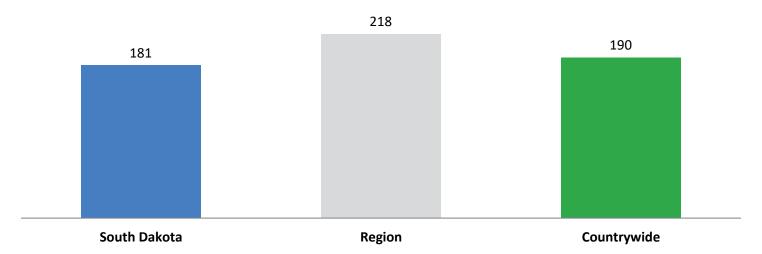


Chart 38 displays the top 10 diagnosis groups for emergency outpatient visits. The diagnosis groups are ranked based on total payments for outpatient services in South Dakota.

Chart 38

Top 10 Diagnosis Groups by Amount Paid for Emergency Hospital Outpatient Visits

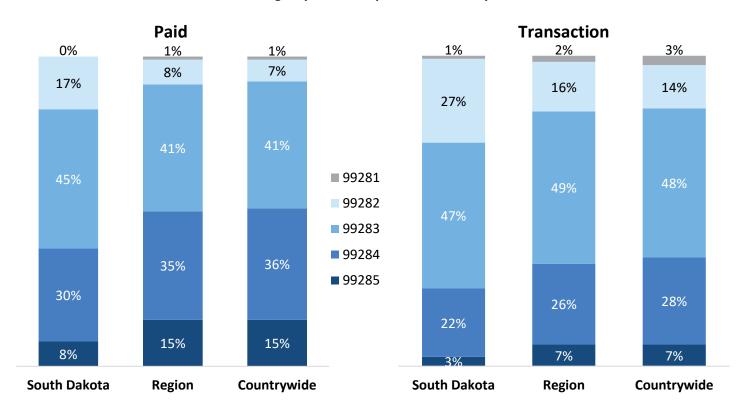
	Median Amount Paid Per Visit			
		South		
Diagnosis Group	Paid Share	Dakota	Region	Countrywide
Minor hand/wrist injuries	12.3%	\$661	\$788	\$713
Hand/wrist fracture	8.1%	\$1,039	\$1,198	\$1,114
Head/face wound	3.7%	\$889	\$1,007	\$922
Minor ankle/foot injuries	3.6%	\$639	\$785	\$709
Head injury not otherwise classified	3.6%	\$935	\$1,311	\$1,133
Concussion/minor traumatic brain injury	3.6%	\$1,187	\$1,513	\$1,159
Low back pain	3.4%	\$689	\$864	\$800
Crush injury, hand/wrist	3.1%	\$978	\$980	\$902
Tibia/fibula fracture	2.8%	\$907	\$1,343	\$1,183
Traumatic amputation, hand/wrist	2.3%	\$1,242	\$1,719	\$1,565



For emergency room visits, there are five levels of severity, ranging from limited or minor problems reported with Procedure Code 99281 to life-threatening situations reported with Procedure Code 99285. About 84% of all emergency visits had outpatient services. Chart 39 shows the distribution of emergency room outpatient services by procedure code for both paid amount and transactions for Service Year 2021 as well as the average payment per transaction.

Chart 39

Distribution of Emergency Room Outpatient Services by Procedure Code



Emergency Room Outpatient Paid per Transaction by Procedure Code

		Avera	ige PPT	
Code	Severity	South Dakota	Region	Countrywide
99281	Minor	\$212	\$199	\$201
99282	Low to Moderate	\$258	\$300	\$291
99283	Moderate	\$388	\$535	\$504
99284	High	\$546	\$817	\$754
99285	High and immediately life-threatening	\$986	\$1,272	\$1,164

SOUTH DAKOTA

Nonemergency outpatient visits with major surgery services represent 56% of hospital outpatient payments in South Dakota. Chart 40 displays the average amount paid per major surgery visit for outpatient services, while Chart 41 displays the average number of major surgery hospital outpatient visits per 1,000 active claims for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 40

Average Amount Paid for Hospital Outpatient Services per Nonemergency Major Surgery Visit

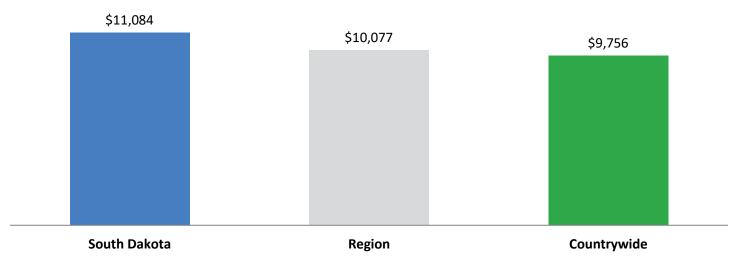


Chart 41

Average Number of Nonemergency Major Surgery Hospital Outpatient Visits per 1,000 Active Claims

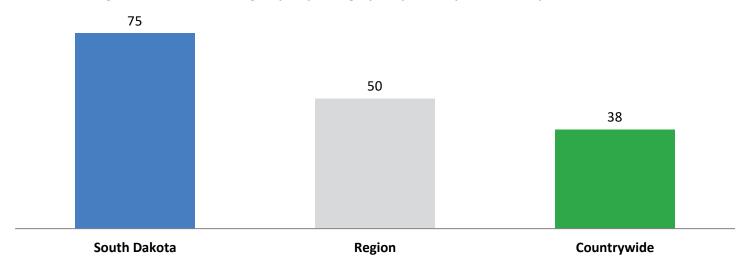
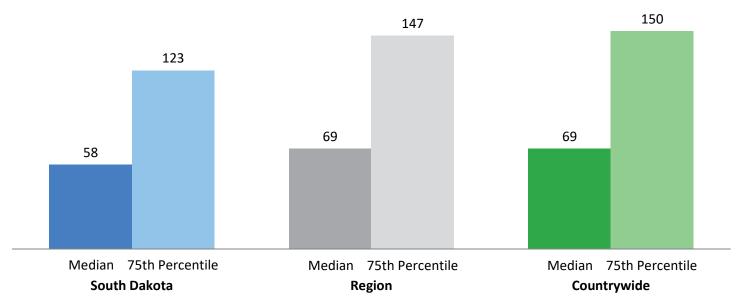


Chart 42 shows the median and 75th percentile time until first treatment for nonemergency major surgery outpatient visits for South Dakota, the region, and countrywide.

Chart 42

Time Until First Treatment for Nonemergency Major Surgery Outpatient Visits (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.

Chart 43 displays the top 10 diagnosis groups for nonemergency major surgery outpatient visits. The diagnosis groups are ranked based on total payments for outpatient services in South Dakota.

Chart 43

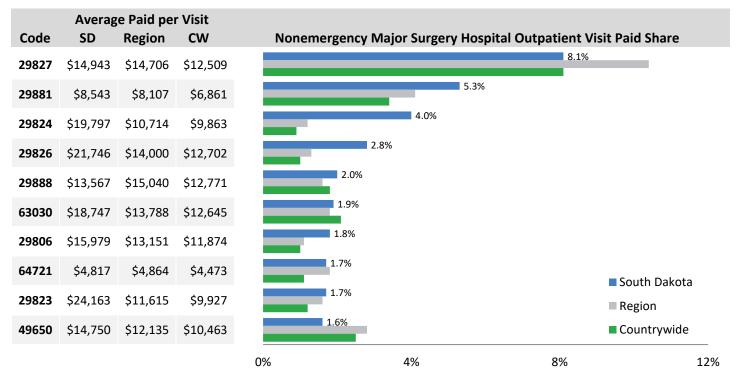
Top 10 Diagnosis Groups by Amount Paid for Nonemergency Major Surgery Hospital Outpatient Visits

		Median Amount Paid Per Visit		
		South		
Diagnosis Group	Paid Share	Dakota	Region	Countrywide
Rotator cuff tear	18.9%	\$14,233	\$11,763	\$10,499
Knee internal derangement - meniscus injury	7.3%	\$7,574	\$6,208	\$5,491
Hand/wrist fracture	5.2%	\$7,530	\$6,250	\$6,002
Shoulder impingement syndrome	4.3%	\$14,506	\$9,034	\$8,276
Degenerative shoulder	4.1%	\$13,686	\$10,431	\$9,975
Knee internal derangement - cruciate ligament tear	4.1%	\$13,923	\$11,465	\$10,936
Inguinal hernia	3.8%	\$10,340	\$9,177	\$8,150
Superior labral tear from anterior to posterior (SLAP) lesion	3.8%	\$16,177	\$10,711	\$9,575
Minor shoulder injury	3.3%	\$7,825	\$10,256	\$9,585
Carpal tunnel syndrome	3.2%	\$4,925	\$3,901	\$3,528



Charts 44 displays the average amount paid per nonemergency major surgery visit for outpatient services in South Dakota, the region, and countrywide for the top 10 CPT codes in South Dakota. The codes are ranked based on total outpatient payments in South Dakota, where the code shown below is the code with the highest total paid on a nonemergency major surgery visit. In 2021, 79% of Hospital Outpatient costs were reported with a CPT code being the highest paid code. A brief description of each code is displayed in the table below.

Chart 44 Top 10 Procedure Codes by Amount Paid for Hospital Outpatient Services in Nonemergency Major Surgery Visits



Code	Description
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair
29881	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving), including debridement/shaving of articular cartilage
29824	Arthroscopy, shoulder, surgical; distal claviculectomy including distal articular surface (Mumford procedure)
29826	Arthroscopy, shoulder, surgical; decompression of subacromial space with partial acromioplasty, with coracoacromial ligament (i.e., arch) release, when performed
29888	Arthroscopically aided anterior cruciate ligament repair/augmentation or reconstruction
63030	Laminotomy (hemilaminectomy) with decompression of nerve root(s) including partial facetectomy, foraminotomy, and/or excision of herniated intervertebral disc; 1 interspace lumbar
29806	Arthroscopy, shoulder, surgical; capsulorrhaphy
64721	Neuroplasty and/or transposition; median nerve at carpal tunnel
29823	Arthroscopy, shoulder, surgical; debridement, extensive
49650	Laparoscopy, surgical; repair initial inguinal hernia

Nonemergency outpatient visits without a major surgery service, referred to as "Other" outpatient visits, represent 27% of hospital outpatient payments in South Dakota. Chart 45 displays the average amount paid per other visit for hospital outpatient services, while Chart 46 displays the average number of other visits per 1,000 active claims for hospital outpatient services for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 45

Average Amount Paid for Hospital Outpatient Services per Other Outpatient Visit

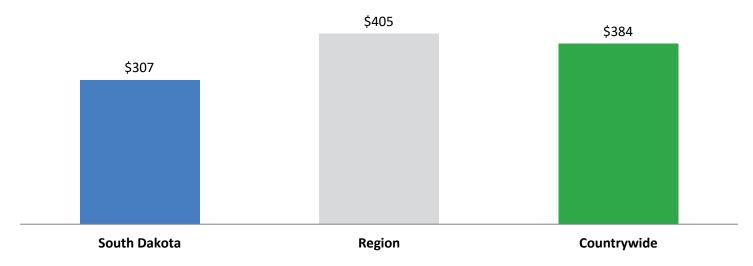


Chart 46

Average Number of Other Hospital Outpatient Visits per 1,000 Active Claims

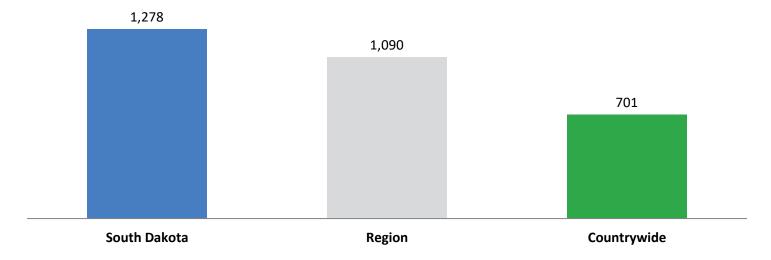
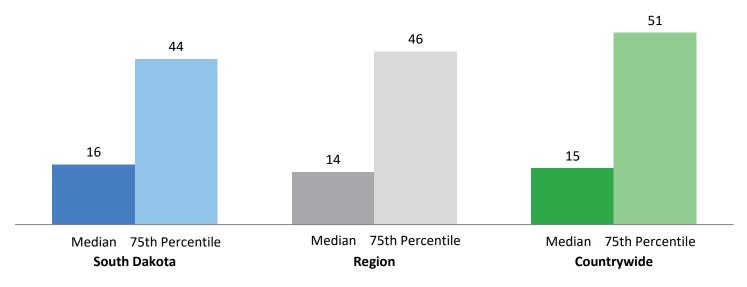


Chart 47 shows the median and 75th percentile time until first treatment for other outpatient visits for South Dakota, the region, and countrywide.

Chart 47

Time Until First Treatment for Other Outpatient Visits (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.

Chart 48 displays the top 10 diagnosis groups for other outpatient visits. The diagnosis groups are ranked based on total payments for outpatient services in South Dakota.

Chart 48

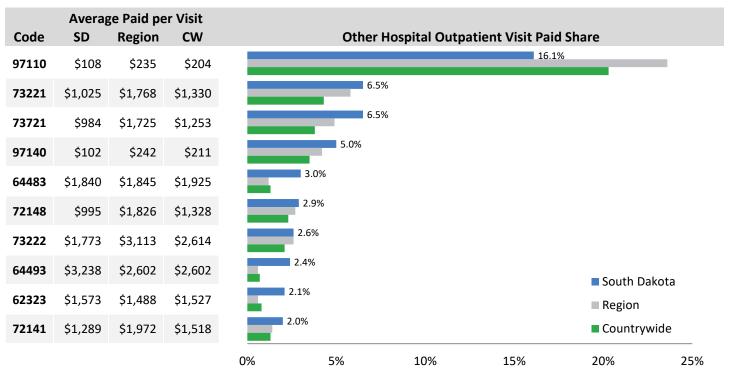
Top 10 Diagnosis Groups by Amount Paid for Other Hospital Outpatient Visits

		Median An South	nount Paid p	er Visit
Diagnosis Group	Paid Share	Dakota	Region	Countrywide
Minor shoulder injury	9.4%	\$96	\$218	\$172
Lumbar spine degeneration	6.9%	\$1,640	\$391	\$383
Low back pain	5.1%	\$98	\$218	\$172
Lumbosacral intervertebral disc disorders	4.5%	\$815	\$321	\$283
Lumbar radiculopathy/sciatica	4.2%	\$136	\$262	\$209
Minor knee injury	3.7%	\$98	\$226	\$178
Non-pressure chronic ulcer of lower limb, not elsewhere classified	3.5%	\$899	\$337	\$388
Rotator cuff tear	3.3%	\$97	\$223	\$171
Orthopedic aftercare	3.1%	\$97	\$193	\$167
Minor hand/wrist injuries	2.9%	\$94	\$201	\$167



Charts 49 displays the average amount paid per other visit for outpatient services in South Dakota, the region, and countrywide for the top 10 CPT codes in South Dakota. The codes are ranked based on total outpatient payments in South Dakota, where the code shown below is the code with the highest total paid on an "Other" outpatient visit. A brief description of each code is displayed in the table below.

Chart 49 Top 10 Procedure Codes by Amount Paid for Hospital Outpatient Services in Other Visits



Code	Description
97110	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion, and flexibility
73221	Magnetic resonance (e.g., proton) imaging, any joint of upper extremity; without contrast material
73721	Magnetic resonance (e.g., proton) imaging, any joint of lower extremity; without contrast material
97140	Manual therapy techniques (e.g., mobilization/manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes
64483	Injection(s), anesthetic agent, and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or computed tomography (CT)); lumbar or sacral, single level
72148	Magnetic resonance (e.g., proton) imaging, spinal canal and contents, lumbar; without contrast material
73222	Magnetic resonance (e.g., proton) imaging, any joint of upper extremity; with contrast material
64493	Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint), with image guidance (fluoroscopy or computed tomography (CT)), lumbar or sacral; single level
62323	Injection(s) of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral
72141	Magnetic resonance (e.g., proton) imaging, spinal canal and contents, cervical; without contrast material

Ambulatory Surgical Centers

An Ambulatory Surgical Center (ASC) is often used as an alternative facility to a hospital for conducting outpatient surgeries. The distribution of medical payments for ASCs is 1% for South Dakota, 8% for the region, and 7% for countrywide.

Typically, surgery-related services are performed in ASCs. The most prevalent procedure code types reported are CPT codes and revenue codes.

One measure of workers compensation ASC costs is a comparison of current payments to the Medicare rates. The chart below shows the average percentage of Medicare-scheduled reimbursement amounts for ASC payments for South Dakota, the region, and countrywide. In South Dakota, 86% of ASC payments are included in the chart below.

Chart 50 ASC Payments as a Percentage of Medicare

Medical Cost Category	South Dakota	Region	Countrywide
Ambulatory Surgical Center	330%	297%	251%

Source: NCCI's Medical Data Call for Service Year 2021. Region includes IA, IL, IN, KS, MI, MN, MO, NE, OK, and WI. Countrywide data includes AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, WI, and WV.

ASC visits with major surgery services represent 81% of ASC payments in South Dakota. Other ASC visits typically include minor procedures, with injections for therapeutic or diagnostic purposes being the most common. Chart 51 displays the average amount paid per major surgery visit for ASC services, while Chart 52 displays the average number of major surgery ASC visits per 1,000 active claims for South Dakota, the region, and countrywide. Note that there are no controls for mix of diagnosis or severity of claims between jurisdictions.

Chart 51

Average Amount Paid per Major Surgery Visit for ASC Services

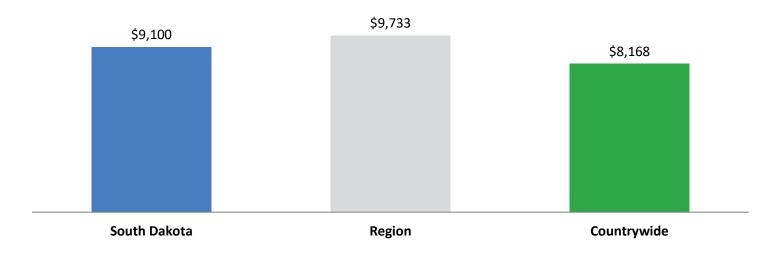


Chart 52
Average Number of ASC Major Surgery Visits per 1,000 Active Claims

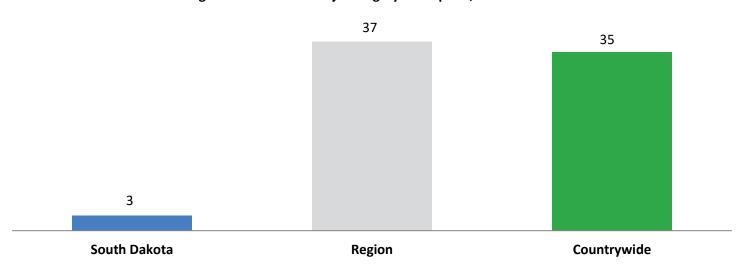
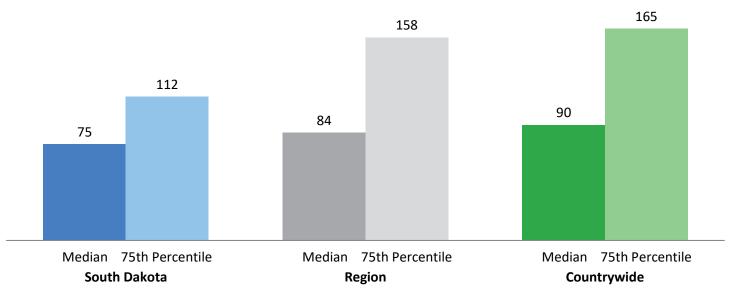


Chart 53 shows the median and 75th percentile time until first treatment for ASC major surgery visits for South Dakota, the region, and countrywide.

Chart 53

Time Until First Treatment for ASC Major Surgery Visits (in Days)



Source: NCCI's Medical Data Call for Accident Year 2020 and Service Years 2020 and 2021.

Chart 54 displays the top 10 diagnosis groups for ASC major surgery visits. The diagnosis groups are ranked based on total payments for ASC services in South Dakota.

Chart 54

Top 10 Diagnosis Groups by Amount Paid for ASC Major Surgery Visits

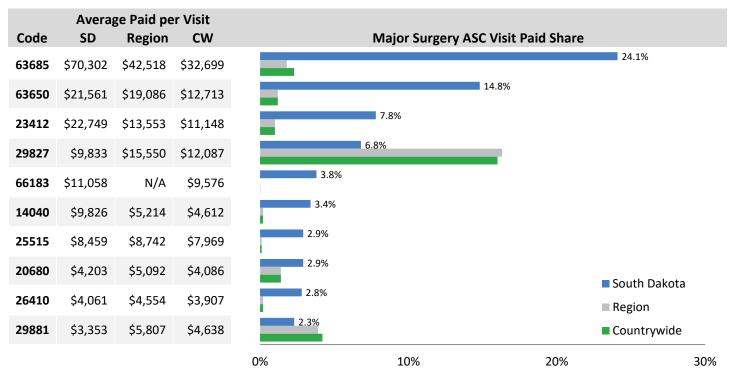
		Median Ar South	mount Paid p	er Visit
Diagnosis Group	Paid Share	Dakota	Region	Countrywide
Chronic pain	39.0%	\$24,710	\$21,176	\$13,548
Shoulder impingement syndrome	14.0%	\$20,414	\$12,027	\$9,022
Rotator cuff tear	6.5%	\$18,923	\$13,834	\$9,839
Complication from surgical device	5.3%	\$7,743	\$4,184	\$3,441
Other cataract	4.6%	\$6,663	\$2,090	\$1,828
Traumatic amputation, hand/wrist	3.4%	\$9,826	\$4,307	\$3,753
Carpal tunnel syndrome	3.2%	\$4,658	\$3,598	\$3,077
Muscle/tendon injury, hand/wrist	2.8%	\$4,061	\$4,287	\$3,809
Retinal detachments and breaks	2.5%	\$3,664	\$5,863	\$4,637
Knee internal derangement - cruciate ligament tear	2.3%	\$6,828	\$12,378	\$9,322



Chart 55 displays the average amount paid per major surgery visit for ASC services in South Dakota, the region, and countrywide for the top 10 CPT codes in South Dakota. The codes are ranked based on total ASC payments in South Dakota, where the code shown below is the code with the highest total paid on a major surgery visit. A brief description of each procedure code is displayed in the table beneath the chart. Chart 56 displays similar results for visits in an outpatient setting for the list of codes in Chart 55, if applicable.

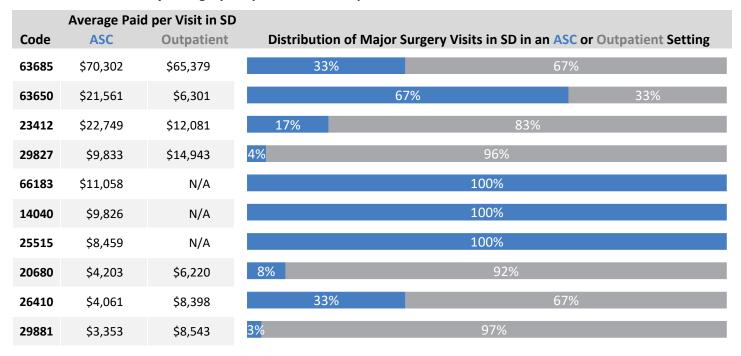
Chart 55

Top 10 Procedure Codes by Amount Paid for ASC Services in Major Surgery Visits



Code	Description
63685	Insertion or replacement of spinal neurostimulator pulse generator or receiver, direct or inductive coupling
63650	Percutaneous implantation of neurostimulator electrode array, epidural
23412	Repair of ruptured musculotendinous cuff (e.g., rotator cuff) open; chronic
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair
66183	Insertion of anterior segment aqueous drainage device, without extraocular reservoir, external approach
14040	Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10 sq cm or less
25515	Open treatment of radial shaft fracture, includes internal fixation, when performed
20680	Removal of implant; deep (e.g., buried wire, pin, screw, metal, band, nail, rod, or plate)
26410	Repair, extensor tendon, hand, primary or secondary; without free graft, each tendon
29881	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving), including debridement/shaving of articular cartilage

Chart 56
Major Surgery Outpatient Visit Comparisons for Procedure Codes in Chart 55





Prescription Drugs

The distribution of medical payments for drugs is 11% for South Dakota, 5% for the region, and 7% for countrywide. Prescription drugs are uniquely identified by a national drug code (NDC). Charts 57 through 62 provide 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. Payments for drugs can also be reported using codes other than NDCs, such as revenue codes, HCPCS codes, and other state-specific procedure codes. The results in these charts are based only on payments reported with an NDC.

The Controlled Substances Act (CSA) was passed in 1970 to regulate the manufacture, distribution, possession, and use of certain drugs. There are five schedules, or groups of drugs, determined by varying qualifications, such as the drug's medical uses, if any, and its potential for abuse. For example, Schedule V drugs are defined as having the lowest potential for abuse, while Schedule I drugs are illegal at the federal level, mainly because they are defined as having no currently accepted medical uses and a high potential for abuse.

In South Dakota, the share of claims observed in Service Year 2021 with at least one controlled substance was 7%. This compares to the region and countrywide shares of 8% and 8%, respectively. In 2021, South Dakota spent \$0.6M on Schedule II and Schedule III drugs for workers compensation claims.

Chart 57 shows the distribution of prescription drug payments by CSA schedule in South Dakota, the region, and countrywide.

Chart 57

Distribution of Prescription Drug Payments by CSA Schedule

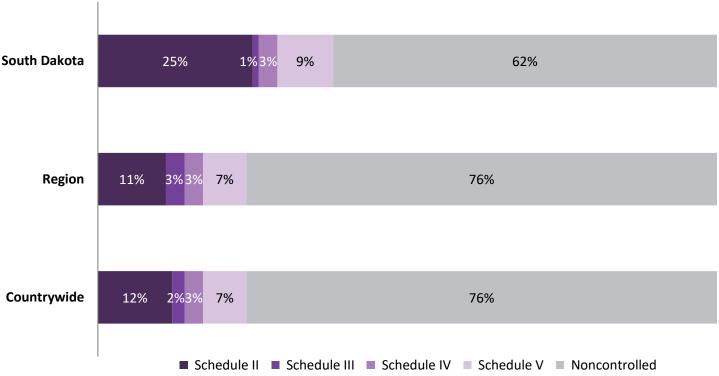




Chart 58 displays the shares of the payments of prescription medication for the top 10 drugs used in workers compensation treatment, by amount paid in South Dakota. This chart also indicates whether the drugs are generic (G) or brand name (B); for generic drugs, a commonly used brand name equivalent is also provided. This method of ranking shows which drugs have the highest percentage share of payments. Also included is the average price per unit (PPU). (See the Glossary for the definition of *units*.)

Chart 58 **Top 10 Workers Compensation Drugs by Amount Paid**

Drug Name	SD A	Average PPI Region	CW	South Dakota Paid Share
Oxycontin®	\$7.89	\$9.97	\$9.91	8.3%
Pregabalin	\$3.20	\$4.04	\$4.50	6.6%
Gabapentin	\$0.71	\$0.76	\$0.90	4.9%
Duloxetine HCl	\$3.00	\$3.84	\$4.35	4.7%
Nucynta®	\$8.61	\$9.11	\$9.68	4.2%
Fentora®	\$147.62	N/A	\$140.68	3.9%
Dupixent®	\$846.17	\$819.61	\$844.07	3.5%
Lyrica®	\$8.81	\$8.82	\$8.88	2.8%
Oxymorphone HCl	\$8.72	\$5.83	\$5.80	2.0%
Nucynta ER®	\$18.95	\$16.53	\$17.22	1.9%

Drug Name	B/G	Common Brand Name	Category	CSA Schedule	CW Rank
Oxycontin [®]	В	N/A	Analgesics/Antipyretics	II	7
Pregabalin	G	Lyrica®	Miscellaneous Central Nervous System Agents	V	1
Gabapentin	G	Neurontin®	Anticonvulsants	None	4
Duloxetine HCl	G	Cymbalta®	Psychotherapeutic Agents	None	8
Nucynta [®]	В	N/A	Analgesics/Antipyretics	II	21
Fentora [®]	В	N/A	Analgesics/Antipyretics	II	137
Dupixent [®]	В	N/A	Immunosuppressants	None	85
Lyrica®	В	N/A	Miscellaneous Central Nervous System Agents	V	25
Oxymorphone HCl	G	Opana®	Analgesics/Antipyretics	II	79
Nucynta ER®	В	N/A	Analgesics/Antipyretics	II	28

Chart 59 displays the top 10 drugs used in workers compensation treatment, according to the number of prescriptions in South Dakota. This chart reveals the most frequently prescribed drugs and the average PPU.

Chart 59

Top 10 Workers Compensation Drugs by Prescription Counts

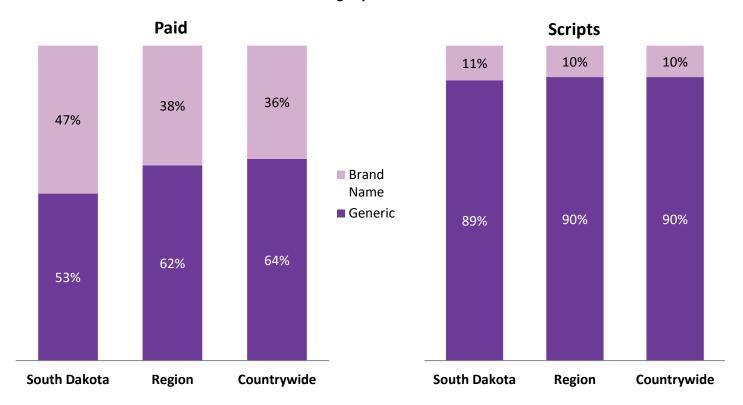
		verage PPI		
Drug Name	SD	Region	CW	South Dakota Prescription Share
Gabapentin	\$0.71	\$0.76	\$0.90	
ydrocodone Bitartrate- cetaminophen	\$0.44	\$0.48	\$0.49	6.2%
ramadol HCl	\$0.53	\$0.70	\$0.75	6.2%
uloxetine HCl	\$3.00	\$3.84	\$4.35	5.5%
Cyclobenzaprine HCl	\$0.64	\$1.59	\$1.88	4.0%
Pregabalin	\$3.20	\$4.04	\$4.50	3.6%
Meloxicam	\$1.70	\$2.86	\$3.04	3.2%
Oxycodone HCl	\$0.34	\$0.61	\$0.70	3.1%
Baclofen	\$0.95	\$1.46	\$1.58	2.3%
Celecoxib	\$2.94	\$4.63	\$5.25	2.1%

Drug Name	B/G	Common Brand Name	Category	CSA Schedule	CW Rank
Gabapentin	G	Neurontin [®]	Anticonvulsants	None	2
Hydrocodone Bitartrate- Acetaminophen	G	Vicodin [®]	Analgesics/Antipyretics	II	1
Tramadol HCl	G	Ultram [®]	Analgesics/Antipyretics	IV	6
Duloxetine HCl	G	Cymbalta®	Psychotherapeutic Agents	None	14
Cyclobenzaprine HCl	G	Flexeril®	Muscle Relaxants, Skeletal	None	3
Pregabalin	G	Lyrica [®]	Miscellaneous Central Nervous System Agents	V	10
Meloxicam	G	Mobic [®]	Analgesics/Antipyretics	None	5
Oxycodone HCl	G	Oxycontin®	Analgesics/Antipyretics	II	12
Baclofen	G	Lioresal®	Muscle Relaxants, Skeletal	None	17
Celecoxib	G	Celebrex®	Analgesics/Antipyretics	None	13

Chart 60 shows the distribution of prescription drugs by brand name and generic for South Dakota, the region, and countrywide. The share between brand name and generic is displayed based on the prescription counts and the payments. Typically, a higher percentage of drugs is given in the generic form; however, higher costs occur when brand name drugs are prescribed. In many states, a prescription drug fee schedule includes rules regarding the dispensing and reimbursement rates for brand name and generic drugs.

Chart 60

Distribution of Drugs by Brand Name and Generic



The rules on drug dispensing vary from state to state. Some states allow physician dispensing of drugs, while other states limit or prohibit physician dispensing. Analysis of the share of drugs dispensed from a pharmacy and from a nonpharmacy (e.g., physicians and hospitals) may provide insight into the drivers of drug costs.

Chart 61 shows the distribution of prescription drugs dispensed by pharmacies and nonpharmacies. The share between pharmacy-dispensed and nonpharmacy-dispensed is displayed, based on both prescription counts and payments, for South Dakota, the region, and countrywide.

Chart 61

Distribution of Drugs by Pharmacy and Nonpharmacy

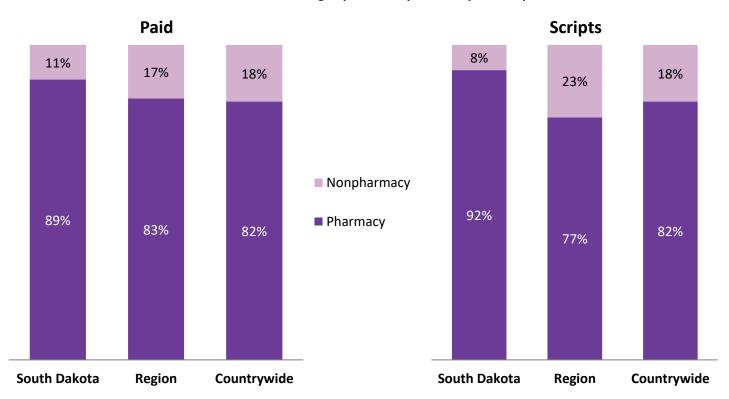


Chart 62 displays the shares of the payments for the top 5 nonpharmacy-dispensed prescription drugs used in workers compensation treatment, by amount paid in South Dakota. It also provides a comparison for those same drugs when dispensed in a pharmacy for the state, region, and countrywide.

Chart 62

Top 5 Nonpharmacy-Dispensed Drugs by Amount Paid with Pharmacy-Dispensed Comparison

		Nonpharmacy-dispensed				Pharmacy-dispensed			
Drug Name	Paid Share	SD PPU	Region PPU	CW PPU	Paid Share	SD PPU	Region PPU	CW PPU	
Daptomycin	11.3%	\$68.12	\$63.45	\$55.24	<0.1%	\$168.77	\$109.64	\$117.35	
Botox®	9.7%	\$483.07	\$248.75	\$295.89	N/A	N/A	\$834.09	\$785.65	
Synvisc One®	4.8%	\$84.33	\$101.81	\$78.81	N/A	N/A	\$261.98	\$232.84	
Dysport®	2.5%	\$585.00	\$298.27	\$273.16	N/A	N/A	N/A	\$745.99	
Adacel®	2.4%	\$74.67	\$63.45	\$61.96	<0.1%	\$35.48	\$82.05	\$97.60	

Drug Name	B/G	Common Brand Name	Category	CSA Schedule	Nonpharmacy CW Rank
Daptomycin	G	Cubicin [®]	Antibiotics	None	21
Botox®	В	N/A	Toxins	None	10
Synvisc One®	В	N/A	Biological Lubricant	None	32
Dysport®	В	N/A	Toxins	None	100
Adacel®	В	N/A	Serums, Toxoids, Vaccines	None	36

Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DMEPOS)

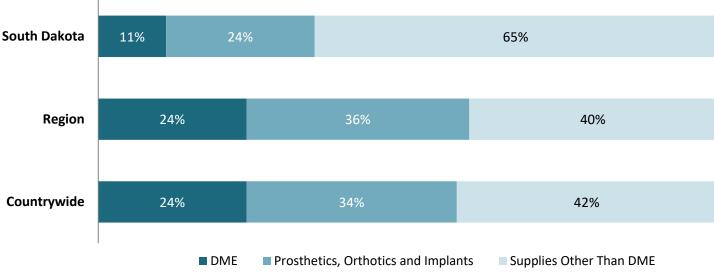
The distribution of medical payments for DMEPOS is 11% for South Dakota, 7% for the region, and 8% for countrywide.

Chart 63 displays the distribution of payments among three separate DMEPOS categories:

- Durable Medical Equipment (DME)
- Prosthetics, Orthotics, and Implants
- Supplies Other Than DME

Payments are mapped to each of these categories based on the procedure code reported, regardless of who provides the service or where the service is performed.

Chart 63
Distribution of Payments by DMEPOS





Injuries that include an implant or prosthetic device tend to be more expensive than other injuries. Chart 64 shows the top 10 diagnosis groups for claims that include an implant or a prosthetic device by total paid amount. Chart 65 shows the same diagnosis groups with the average amount paid per claim for claims that do not include an implant or prosthetic.

Chart 64 Top Diagnosis Groups by Amount Paid for Dates of Injury in 2020 for Claims With an Implant or Prosthetic

		Average Amount Paid Per Claim South			
Diagnosis Group	Paid Share	Dakota	Region	Countrywide	
Rotator cuff tear	13.5%	\$56,243	\$44,972	\$39,232	
Hip/pelvis fracture/major trauma	7.8%	\$68,022	\$78,809	\$84,823	
Hand/wrist fracture	6.0%	\$27,859	\$28,705	\$29,246	
Tibia/fibula fracture	4.3%	\$95,319	\$71,452	\$75,001	
Heel/midfoot fracture	4.2%	\$72,967	\$45,293	\$50,488	
Femur fracture	3.5%	\$102,749	\$116,725	\$101,948	
Minor shoulder injury	3.3%	\$26,637	\$33,168	\$29,463	
Cervical spine degeneration	3.2%	\$140,169	\$80,817	\$73,778	
Major depression	3.1%	\$270,559	\$87,512	\$74,406	
Ankle fracture	3.0%	\$38,226	\$39,963	\$38,185	

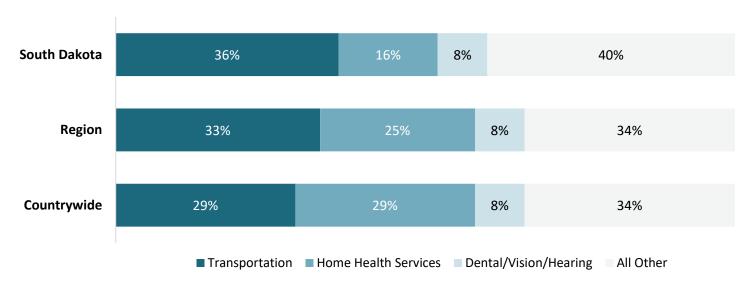
Chart 65 Average Amount Paid per Claim Without an Implant or Prosthetic for Diagnosis Groups in Chart 64

	Average South	Average Amount Paid Per Claim South			
Diagnosis Group	Dakota	Region	Countrywide		
Rotator cuff tear	\$19,047	\$25,821	\$20,188		
Hip/pelvis fracture/major trauma	\$69,346	\$31,491	\$31,714		
Hand/wrist fracture	\$6,250	\$6,440	\$6,212		
Tibia/fibula fracture	\$10,518	\$15,344	\$16,248		
Heel/midfoot fracture	\$8,697	\$7,999	\$7,936		
Femur fracture	\$23,650	\$51,818	\$37,855		
Minor shoulder injury	\$2,150	\$5,243	\$4,252		
Cervical spine degeneration	\$16,593	\$22,091	\$21,068		
Major depression	\$279	\$10,094	\$6,795		
Ankle fracture	\$12,236	\$16,098	\$14,982		

Other Medical Services

For Service Year 2021, other medical services represent 5% of total medical costs countrywide. Chart 66 shows the distribution of these services by four categories: transportation, home health services, dental/vision/hearing, and all other. The "All Other" category typically includes services that may have a missing, invalid, or unlisted procedure, in addition to some other valid services (e.g., payments for interpreters, vehicle modifications, etc.).

Chart 66
Distribution of Other Medical Services Payments





Diagnosis Group and Body System

Charts 67 and 68 display the top 10 body systems and diagnosis groups, respectively. A body system and diagnosis group are identified for each claim based on an ICD-10 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, 2020, and December 31, 2020, and they include all reported services provided for those claims through December 31, 2021.

Chart 67

Top Body Systems by Amount Paid for Dates of Injury in 2020

		Average Amount Paid Per Claim South			
Body System	Paid Share	Dakota	Region	Countrywide	
Shoulder	21.6%	\$10,324	\$12,983	\$10,188	
Knee	10.7%	\$5,807	\$7,607	\$6,477	
Hand/wrist	10.6%	\$1,932	\$2,930	\$2,609	
Lumbar spine	8.5%	\$3,405	\$5,332	\$4,786	
Ankle/foot	8.4%	\$4,058	\$4,274	\$3,863	
Leg	6.9%	\$7,426	\$7,034	\$6,796	
Head	4.6%	\$3,355	\$4,576	\$4,308	
Arm	4.4%	\$5,118	\$6,770	\$6,403	
Neck	3.0%	\$3,036	\$7,637	\$6,662	
Hip/pelvis	2.7%	\$8,167	\$9,063	\$8,180	

Chart 68

Top Diagnosis Groups by Amount Paid for Dates of Injury in 2020

		Average Amount Paid Per Claim South			
Diagnosis Group	Paid Share	Dakota	Region	Countrywide	
Rotator cuff tear	10.4%	\$23,898	\$29,066	\$22,884	
Hand/wrist fracture	4.7%	\$8,195	\$8,001	\$7,619	
Knee internal derangement - meniscus injury	4.3%	\$15,014	\$15,943	\$13,637	
Minor shoulder injury	3.3%	\$2,761	\$5,984	\$4,769	
Hip/pelvis fracture/major trauma	3.1%	\$68,567	\$49,262	\$51,277	
Minor hand/wrist injuries	3.1%	\$771	\$1,547	\$1,407	
Lumbosacral intervertebral disc disorders	2.2%	\$16,078	\$22,861	\$19,868	
Tibia/fibula fracture	2.0%	\$18,998	\$25,928	\$28,413	
Burn and corrosion, third degree, other than head, face, and neck	2.0%	\$106,930	\$51,809	\$82,684	
Degenerative shoulder	2.0%	\$21,174	\$23,213	\$21,247	

Comparison of Selected Results by Year

(NEEL)

The charts in this section provide a comparison of results for South Dakota. These comparisons are over the latest five service years unless otherwise noted. Analysis in the growth of shares may provide additional insight into medical cost drivers above and beyond an analysis at a specific point in time.

Results in the charts below may vary compared to medical reports from previous years. This is due to a lag in reporting, as well as improved derivations affecting categories for certain charts.

Distribution of Medical Payments (Chart 4)

Medical Category	2017	2018	2019	2020	2021
Physician	25%	25%	25%	25%	25%
Hospital Outpatient	32%	32%	35%	37%	35%
Hospital Inpatient	13%	15%	12%	11%	13%
Drugs	13%	11%	11%	11%	11%
DMEPOS	11%	12%	11%	11%	11%
ASC	3%	2%	1%	1%	1%
Other	3%	3%	5%	4%	4%

Distribution of Physician Payments by AMA Service Category (Chart 6)

AMA Service Category	2017	2018	2019	2020	2021
Physical Medicine	30%	27%	28%	28%	27%
Surgery	28%	30%	29%	28%	31%
Evaluation and Management	21%	22%	22%	22%	21%
Radiology	10%	10%	10%	10%	10%
Anesthesia	5%	6%	5%	5%	5%
General Medicine	4%	3%	3%	4%	3%
Other	1%	1%	2%	2%	2%
Pathology	1%	1%	1%	1%	1%



Median Time Until First Treatment (in Days) (Charts 11, 14, 17, 20, 31, 42, 47, and 53)¹⁰

Medical Category	AY 2016	AY 2017	AY 2018	AY 2019	AY 2020
Physicians – Major Surgery	33	33	35	30	28
Physicians – Radiology	1	1	1	1	1
Physicians – Physical and General Medicine	11	12	12	12	12
Physicians – Evaluation and Management	1	2	2	2	3
Hospital Inpatient	0	0	0	0	0
Hospital Outpatient – Major Surgery	68	59	59	62	58
Hospital Outpatient – All Other	15	18	19	20	16
ASC – Major Surgery	41	44	31	76	75

75th Percentile of Time Until First Treatment (in Days) (Charts 11, 14, 17, 20, 31, 42, 47, and 53) 10

Medical Category	AY 2016	AY 2017	AY 2018	AY 2019	AY 2020
Physicians – Major Surgery	108	102	103	99	104
Physicians – Radiology	6	7	7	6	7
Physicians – Physical and General Medicine	34	36	38	42	39
Physicians – Evaluation and Management	8	10	11	11	12
Hospital Inpatient	5	15	8	11	8
Hospital Outpatient – Major Surgery	140	133	138	135	123
Hospital Outpatient – All Other	45	51	49	51	44
ASC – Major Surgery	111	120	77	163	112

Hospital Inpatient Statistics (Charts 27 and 29)

	2017	2018	2019	2020	2021
Average Amount Paid Per Stay	\$29,487	\$28,165	\$28,692	\$31,197	\$40,270
Number of Stays per 1,000 Active Claims	16	18	16	15	16

¹⁰ In the charts displaying the distribution of time until first treatment, the data is organized by the year in which the injury occurred, rather than by service year, and includes services performed within 365 days of the date of injury.



Distribution of Hospital Outpatient Payments by Outpatient Visit Type (Chart 35)

Visit Type	2017	2018	2019	2020	2021
Emergency	18%	17%	17%	16%	17%
Nonemergency Major Surgery	50%	53%	56%	57%	56%
Other	32%	30%	27%	27%	27%

Emergency Hospital Outpatient Statistics (Charts 36 and 37)

	2017	2018	2019	2020	2021
Average Amount Paid Per Visit	\$1,080	\$1,026	\$1,210	\$1,336	\$1,366
Number of Visits per 1,000 Active Claims	197	204	192	172	181

Emergency Room Outpatient Services Paid per Transaction (Chart 39)

Code	Severity	2017	2018	2019	2020	2021
99281	Minor	\$105	\$95	\$113	\$108	\$212
99282	Low to moderate	\$172	\$189	\$217	\$250	\$258
99283	Moderate	\$247	\$276	\$293	\$347	\$388
99284	High	\$394	\$436	\$440	\$500	\$546
99285	High and immediately life-threatening	\$830	\$713	\$790	\$961	\$986

Nonemergency Major Surgery Hospital Outpatient Statistics (Charts 40 and 41)

	2017	2018	2019	2020	2021
Average Amount Paid Per Visit	\$8,829	\$9,494	\$10,916	\$11,409	\$11,084
Number of Visits per 1,000 Active Claims	69	69	72	73	75

Other Hospital Outpatient Statistics (Charts 45 and 46)

	2017	2018	2019	2020	2021
Average Amount Paid Per Visit	\$307	\$299	\$304	\$299	\$307
Number of Visits per 1,000 Active Claims	1,232	1,255	1,230	1,322	1,278

ASC Major Surgery Statistics (Charts 51 and 52)

	2017	2018	2019	2020	2021
Average Amount Paid Per Visit	\$7,381	\$6,957	\$6,232	\$5,417	\$9,100
Number of Visits per 1,000 Active Claims	14	11	4	3	3



Distribution of Prescription Drug Payments by CSA Schedule (Chart 57)

CSA Schedule	2017	2018	2019	2020	2021
Schedule II	29%	25%	25%	26%	25%
Schedule III	1%	1%	1%	1%	1%
Schedule IV	4%	4%	3%	3%	3%
Schedule V	16%	17%	16%	10%	9%
Noncontrolled	50%	53%	55%	60%	62%

Distribution of Drug Payments by Brand Name and Generic (Chart 60)

Type of Drug	2017	2018	2019	2020	2021
Brand Name	48%	50%	49%	45%	47%
Generic	52%	50%	51%	55%	53%

Distribution of Drug Payments by Pharmacy and Nonpharmacy (Chart 61)

Type of Provider	2017	2018	2019	2020	2021
Pharmacy	94%	92%	94%	95%	89%
Nonpharmacy	6%	8%	6%	5%	11%

Distribution of Payments by DMEPOS (Chart 63)

Category	2017	2018	2019	2020	2021
DME	8%	7%	8%	8%	11%
Prosthetics, Orthotics and Implants	41%	44%	33%	35%	24%
Supplies Other Than DME	51%	49%	59%	57%	65%

Distribution of Payments by Other Medical Services (Chart 66)

Category	2017	2018	2019	2020	2021
Transportation	39%	25%	32%	29%	36%
Home Health Services	15%	34%	18%	15%	16%
Dental/Vision/Hearing	12%	11%	10%	10%	8%
All Other	34%	30%	40%	46%	40%

Glossary

75th Percentile: The point on a distribution that is higher than 75% of observations and lower than 25% of observations.

Accident Year: A loss accounting definition in which experience is summarized by the calendar year in which an accident occurred.

Ambulatory Payment Classification (APC): Unit of payment under Medicare's Outpatient Prospective Payment System (OPPS) for hospital outpatient services where individual services are grouped based on similar characteristics and similar costs.

Ambulatory Surgical Center (ASC): A state-licensed facility that is used mainly to perform outpatient surgery, has a staff of physicians, has continuous physician and nursing care, and does not provide for overnight stays. An ASC can bill for facility fees much like a hospital, but it generally has a separate fee schedule.

Controlled Substances: Drugs that are regulated by the Controlled Substances 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.

CPT Code Modifiers: Modifiers are codes added to a CPT code that further describe the procedure performed without changing the meaning of the original code.

Current Procedural 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.

Diagnosis Groups: Based on ICD-10 codes; groups based on similar injuries and parts of body.

Diagnosis-Related Groups (DRG): A system of hospital payment classifications that groups patients with similar clinical problems who are expected to require similar amounts of hospital resources.

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

Durable Medical Equipment (DME): Equipment that is primarily and customarily used to serve a medical purpose, can withstand repeated use, could normally be rented and used by successive patients, is appropriate for use in the home, and is not generally useful to a person in the absence of an illness or injury.

Emergency Services: Services performed for patients requiring immediate attention.

Emergency Visit: A visit where emergency services are performed.

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 Procedural Terminology (CPT) procedures.

ICD-10 Codes: The *International Classification of Diseases, Tenth Revision,* is a system used by physicians and other healthcare providers to classify and code all diagnoses, symptoms, and procedures recorded in conjunction with hospital care in the United States.

Hospital Inpatient Service: Services for a patient who is admitted to a hospital for treatment that requires at least one overnight stay (more than 24 hours in a hospital).

Hospital Inpatient Stay: A hospital admission of a patient requiring hospitalization of at least one 24-hour period.

Hospital Outpatient Service: Any type of medical or surgical care, performed at a hospital, that is not expected to result in an overnight hospital stay (less than 24 hours in a hospital).

International Statistical Classification of Diseases and Related Health Problems (ICD-10): A classification of diseases and other health problems based on a diagnosis maintained by the World Health Organization (WHO).

Length of Stay: The amount of time, in days, between admission to a hospital and discharge.

Major Surgery Visit: A visit in which at least one surgery procedure is performed based on the reported procedure code, and where the surgical procedure is not an injection and has a global follow-up period of 90 days, as defined by the Centers for Medicare & Medicaid Services, or the procedure involves spine/spinal cord neurostimulators.

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.

Other Outpatient Visit: A nonemergency outpatient visit where no major surgery services are performed.

(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.

Taxonomy Code: A code that identifies the type of provider that billed for, and is being paid for, a medical service. Data reporters are instructed to use the provider taxonomy list of standard codes maintained by the National Uniform Claim Committee.

Telemedicine Service: Services reported with a telemedicine-specific procedure code, modifier, or place of service.

Time to Treatment (TTT): The amount of time, measured in days, between the date on which an accident occurs and the date on which the first medical service in a given category is provided.

Transaction: A line item of 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., *units* represent 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, such as milliliters, grams,
 or ounces. For example, codeine cough syrup dispensed by a pharmacist into a four-ounce bottle would be reported
 as four units.

Visit: Any hospital outpatient or ASC service or set of services provided to a claimant on a specific date. Any visit may have more than one procedure performed, and any claimant may have more than one visit.

Appendix

The data contained in this report 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. There are nearly 30 data elements reported.

Wherever possible, standard industry codes are used because they provide a clear definition of the data, improve its accuracy and quality, and increase efficiency of computer systems.

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 or medical bill review vendors. It is 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**.

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