# Table of Contents

Introduction........................................................................................................................................10
Methodology.....................................................................................................................................11
Difference in Price Levels across States........................................................................................13
United States Maps – Description ......................................................................................................14

**Primary Care Visits**.........................................................................................................................15
   Primary Doctor Visit – Minimal Complexity (New Patient) ..............................................................15
   Primary Doctor Visit – Low Complexity (New Patient) .................................................................15
   Primary Doctor Visit – Moderate Complexity (New Patient) ........................................................16
   Primary Doctor Office Visit – Moderate to High Complexity (New Patient) ...............................16
   Primary Doctor Office Visit – High Complexity (New Patient) ......................................................17
   Primary Doctor Office Visit – Minimal Complexity (Established Patient) ......................................17
   Primary Doctor Office Visit – Low Complexity (Established Patient) ............................................18
   Primary Doctor Office Visit – Moderate to High Complexity (Established Patient) ...................18
   Primary Doctor Office Visit – High Complexity (Established Patient) ...........................................19

**Specialist Visits**..............................................................................................................................19
   Acupuncture ....................................................................................................................................19
   Nutritionist Specialist Visit ............................................................................................................20
   Specialist Office Visit – Minimal Complexity ..............................................................................20
   Specialist Office Visit – Low Complexity .....................................................................................21
   Specialist Office Visit – Moderate Complexity ............................................................................21
   Specialist Office Visit – High Complexity ....................................................................................22

**Wellness Visits**...............................................................................................................................22
   Wellness Visit – New Patient (Age Less than 1) ............................................................................22
   Wellness Visit – New Patient (Age 1-4) ..........................................................................................23
   Wellness Visit – New Patient (Age 5-11) ........................................................................................23
   Wellness Visit – New Female Patient (Age 12-17) ..........................................................................24
   Wellness Visit – New Female Patient (Age 18-39) ..........................................................................24
   Wellness Visit – New Female Patient (Age 40-64) ..........................................................................25
   Wellness Visit – New Female Patient (Age 65+) ............................................................................25
   Wellness Visit – New Male Patient (Age 12-17) ............................................................................26
   Wellness Visit – New Male Patient (Age 18-39) ............................................................................26
   Wellness Visit – New Male Patient (Age 40-64) ............................................................................27
   Wellness Visit – New Male Patient (Age 65+) ..............................................................................27
   Wellness Visit – Established Patient (Age Less than 1) .................................................................28
Women’s Health

Abnormal Uterine Bleeding – Endometrial Ablation

Abnormal Uterine Bleeding – Office Visit

Birth Control – Cut and Tie Tubes

Birth Control – Intrauterine Device

Childbirth – Cesarean Delivery & Newborn Care

Childbirth – Vaginal Delivery & Newborn Care

D and C – Miscarriage

Endometriosis – Inpatient

Endometriosis – Outpatient

Hysterectomy – Abdominal

Hysterectomy – Vaginal

Ovary and Fallopian Tube Removal

Uterine Fibroid Removal

Uterus Exam with Biopsy

Uterus Exam – Hysterosalpingography

Medical Evaluations

Acute Bronchitis Evaluation

Acute Sinusitis Examination

Asthma Evaluation

Chronic Obstructive Pulmonary Disease (COPD)

Coronary Artery Disease – Heart Disease

Diabetes Evaluation

Emergency Room Visit

Enlarged Prostate (BPH) Evaluation

Heartburn Evaluation
High Cholesterol Evaluation ............................................................45
Hypertension – High Blood Pressure ..................................................46
Influenza (Flu) Evaluation ................................................................46
Kidney Stone Evaluation .................................................................47
Laryngoscopy ...................................................................................47
Low Testosterone Evaluation ............................................................48
Low Thyroid Evaluation ................................................................48
Mononucleosis ................................................................................49
Rheumatoid Arthritis .......................................................................49
Shoulder Pain Evaluation .................................................................50
Sleep Apnea Evaluation ...................................................................50
Urinary Tract – Bladder Infection ......................................................51

Vaccines ..........................................................................................51
Administration of Chickenpox Vaccine ..............................................51
Administration of Diphtheria, Tetanus, Pertussis (DTaP) ................52
Administration of Flu Vaccine (Adult) ..............................................52
Administration of Flu Vaccine (Child) ............................................53
Administration of Hepatitis A Vaccine (Adult) ................................53
Administration of Hepatitis A Vaccine (Child) ...............................54
Administration of Hepatitis B Vaccine (Adult) ...............................54
Administration of Hepatitis B Vaccine (Child) ...............................55
Administration of Hib Vaccine .......................................................55
Administration of Human Papillomavirus (HPV) Vaccine ..............56
Administration of Measles, Mumps, Rubella (MMR) Vaccine ........56
Administration of Meningitis Vaccine .............................................57
Administration of Pneumonia Vaccine ............................................57
Administration of Polio Vaccine .....................................................58
Administration of Rotavirus Vaccine .............................................58
Administration of Shingles Vaccine .............................................59
Administration of Tetanus (Td) Vaccine .......................................59
Administration of Tetanus, Diphtheria, Pertussis (Tdap) Vaccine ......60

Diagnostic Studies and Procedures ...............................................60
Allergy Injections ...........................................................................60
Allergy Testing ...............................................................................61
Back Pain – Epidural Steroid Injection .........................................61
Biopsy – Bladder ............................................................................62
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopsy – Breast</td>
<td>62</td>
</tr>
<tr>
<td>Biopsy – Cervix</td>
<td>63</td>
</tr>
<tr>
<td>Biopsy – Colon</td>
<td>63</td>
</tr>
<tr>
<td>Biopsy – Kidney</td>
<td>64</td>
</tr>
<tr>
<td>Biopsy – Neck</td>
<td>64</td>
</tr>
<tr>
<td>Biopsy – Prostate</td>
<td>65</td>
</tr>
<tr>
<td>Biopsy – Skin</td>
<td>65</td>
</tr>
<tr>
<td>Biopsy – Testicles</td>
<td>66</td>
</tr>
<tr>
<td>Biopsy – Thyroid</td>
<td>66</td>
</tr>
<tr>
<td>Bladder Exam – Cystoscopy</td>
<td>67</td>
</tr>
<tr>
<td>Cardiac Catheterization – Diagnostic</td>
<td>67</td>
</tr>
<tr>
<td>Colonoscopy – Preventative Screening</td>
<td>68</td>
</tr>
<tr>
<td>Colonoscopy with Polyp Removal</td>
<td>68</td>
</tr>
<tr>
<td>Electrocardiogram (EKG)</td>
<td>69</td>
</tr>
<tr>
<td>Electroencephalogram (EEG)</td>
<td>69</td>
</tr>
<tr>
<td>Electromyogram (EMG)</td>
<td>70</td>
</tr>
<tr>
<td>Heart Stress Test with Heart Ultrasound</td>
<td>70</td>
</tr>
<tr>
<td>Kidney Stone Disintegration – Lithotripsy</td>
<td>71</td>
</tr>
<tr>
<td>Knee Injection</td>
<td>71</td>
</tr>
<tr>
<td>Nerve Conduction Studies</td>
<td>72</td>
</tr>
<tr>
<td>Radiation Treatment Delivery – Low Intensity</td>
<td>72</td>
</tr>
<tr>
<td>Radiation Treatment Delivery – Medium Intensity</td>
<td>73</td>
</tr>
<tr>
<td>Radiation Treatment Delivery – Varied Intensity</td>
<td>73</td>
</tr>
<tr>
<td>Sinus Endoscopy with Biopsy</td>
<td>74</td>
</tr>
<tr>
<td>Sleep Study</td>
<td>74</td>
</tr>
<tr>
<td>Sleep Study at Home</td>
<td>75</td>
</tr>
<tr>
<td>Sleep Study with CPAP (Continuous Positive Airway Pressure) Mask</td>
<td>75</td>
</tr>
<tr>
<td>Upper Endoscopy</td>
<td>76</td>
</tr>
<tr>
<td>Upper Endoscopy with Dilation</td>
<td>76</td>
</tr>
<tr>
<td><strong>Laboratory Tests</strong></td>
<td>76</td>
</tr>
<tr>
<td>Adult Hearing Loss</td>
<td>77</td>
</tr>
<tr>
<td>Bacterial Culture Test (Other Source)</td>
<td>77</td>
</tr>
<tr>
<td>Bacterial Culture Test (Urine)</td>
<td>78</td>
</tr>
<tr>
<td>Blood in Stool Test</td>
<td>78</td>
</tr>
<tr>
<td>Cholesterol Test</td>
<td>79</td>
</tr>
<tr>
<td>Complete Blood Count Test (CBC)</td>
<td>79</td>
</tr>
</tbody>
</table>
Comprehensive Metabolic Panel Test.................................................................80
C-Reactive Protein Test (CRP)........................................................................80
Creatine Kinase Test .......................................................................................81
Creatinine Test ...............................................................................................81
Fasting Blood Glucose Test ...........................................................................82
General Health Panel Test ............................................................................82
Hematocrit Test ...............................................................................................83
Hemoglobin Test ............................................................................................83
Hemoglobin A1c Test ......................................................................................84
Human Papillomavirus Test (HPV) ...............................................................84
Influenza Test .................................................................................................85
Lactate Dehydrogenase Test (LDH) ...............................................................85
Liver Enzyme Study Test (GGT) .................................................................86
Liver Panel Test ...............................................................................................86
Mononucleosis Test .......................................................................................87
Pap Smear Test ...............................................................................................87
Prostate Specific Antigen Test (PSA) ............................................................88
Screening Culture Test ..................................................................................88
Strep Throat Test ............................................................................................89
Thyroid Hormone Test (Triiodothyronine – T3) ........................................89
Thyroid Stimulating Hormone Test (TSH) ...................................................90
Tuberculosis Test (TB) ..................................................................................90
Uric Acid Test .................................................................................................91
Urinalysis – Automated Urine Test ...............................................................91
Urine Microalbumin Test ...............................................................................92
Urine Pregnancy Test .....................................................................................92
Vitamin D Test ...............................................................................................93

**Imaging Studies** .........................................................................................93

Bone Density Study – Hips, Pelvis, and Spine .............................................93
CT Scan – Abdomen (with Dye) ......................................................................94
CT Scan – Abdomen (without Dye) ...............................................................94
CT Scan – Abdomen (without Dye followed by with Dye) ............................95
CT Scan – Abdomen and Pelvis (with Dye) ..................................................95
CT Scan – Brain or Head (without Dye) .......................................................96
CT Scan – Chest (with Dye) ..........................................................................96
CT Scan – Chest (Angiography without Dye, followed by with Dye) ..........97
CT Scan – Maxillofacial – Face (without Dye) ................................................................. 97
CT Scan – Pelvis (with Dye) .............................................................................................. 98
CT Scan – Pelvis (without Dye) ...................................................................................... 98
Endoscopic Retrograde Cholangiopancreatography (ERCP) ............................................ 99
Heart SPECT Imaging Studies ......................................................................................... 99
Hepatobiliary Inminodiacetic Acid (HIDA) Scan ............................................................ 100
Mammogram – Diagnostic (Digital) ................................................................................ 100
Mammogram – Diagnostic (Film) .................................................................................. 101
Mammogram – Preventive Screening (Digital) ............................................................... 101
Mammogram – Preventive Screening (Film) .................................................................. 102
MRI Scan – Abdomen (with and without Dye) ............................................................... 102
MRI Scan – Arm – Upper Extremity (without Dye) ........................................................ 103
MRI Scan – Brain (without Dye) .................................................................................... 103
MRI Scan – Brain (with and without Dye) ..................................................................... 104
MRI Scan – Cervical Spine (without Dye) .................................................................... 104
MRI Scan – Knee (without Dye) ..................................................................................... 105
MRI Scan – Lumbar Spine (without Dye) ..................................................................... 105
MRI Scan – Lumbar Spine (with and without Dye) ......................................................... 106
PET Scan with CT Scan ................................................................................................. 106
Ultrasound – Abdomen .................................................................................................. 107
Ultrasound – Abdomen (Rear) ....................................................................................... 107
Ultrasound – Breasts ...................................................................................................... 108
Ultrasound – Heart (for Birth Defects) ......................................................................... 108
Ultrasound – Heart (with Blood Flow Study) ................................................................ 109
Ultrasound – Pelvis (via Abdomen Wall) ...................................................................... 109
Ultrasound – Pelvis (via Vagina) .................................................................................. 110
Ultrasound – Pregnancy ............................................................................................... 110
X-ray – Abdomen ........................................................................................................... 111
X-ray – Ankle (3 Views) ................................................................................................. 111
X-ray – Cervical Spine ................................................................................................... 112
X-ray – Chest (Single View) .......................................................................................... 112
X-ray – Chest (2 Views) ................................................................................................. 113
X-ray – Fingers (2 Views) .............................................................................................. 113
X-ray – Foot (3 Views) ................................................................................................... 114
X-ray – Hand (3 Views) .................................................................................................. 114
X-ray – Hip (3 Views) ..................................................................................................... 115
Surgeries

Knee Arthroscopy with Meniscus Surgery
Knee Arthroscopy
Hemorrhoid Surgery
Glaucoma
Enlarged Prostate Surgery (TURP)
Ear Infection
Coronary Angioplasty (with Non-Drug-Eluting Stent)
Coronary Angioplasty (with Drug-Eluting Stent)
Ear Infection – Chronic – Ear Tubes
Enlarged Prostate Surgery (TURP)
Gallbladder Removal – Laparoscopic
Glaucoma – Eye Shunt
Hemorrhoid Surgery
Hernia Repair in Groin – Incision
Hernia Repair in Groin – Laparoscopic
Hip Replacement
Knee Arthroscopy with ACL Surgery
Knee Arthroscopy with Meniscus Surgery
Knee Replacement
Mole Removal
Neck Pain – Cervical Spine Fusion
Retinal Detachment Repair
Shoulder Arthroscopy with Labrum Repair

Physical Therapy

Physical Therapy – Back Pain
Physical Therapy – Exercises
Physical Therapy – Functional Activities
Physical Therapy – Massage and Traction
Physical Therapy – Nerve and Muscle Retraining
Appendectomy – Outpatient
Back Pain – Lumbar Discectomy
Back Pain – Lumbar Fusion
Back Pain – Lumbar Laminectomy
Bunion Surgery
Carpal Tunnel Surgery
Cataract Removal (with Lens Implant)
Coronary Angioplasty
Coronary Angioplasty (with Drug-Eluting Stent)
Coronary Angioplasty (with Non-Drug-Eluting Stent)
Ear Infection – Chronic – Ear Tubes
Enlarged Prostate Surgery (TURP)
Gallbladder Removal – Laparoscopic
Glaucoma – Eye Shunt
Hemorrhoid Surgery
Hernia Repair in Groin – Incision
Hernia Repair in Groin – Laparoscopic
Hip Replacement
Knee Arthroscopy with ACL Surgery
Knee Arthroscopy with Meniscus Surgery
Knee Replacement
Mole Removal
Neck Pain – Cervical Spine Fusion
Retinal Detachment Repair
Shoulder Arthroscopy with Labrum Repair
Appendix Table A1

<table>
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<tr>
<th>State</th>
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<td>Rhode Island</td>
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Central Tendencies

Price Ratio Central Tendency – Description

State-level Price Ratio Summary Statistics

Endnotes

Appendix

Appendix Table A1 – Complete List of Care Bundles
Introduction

Background

Health care expenditures are a function of both price and quantity of services purchased. The Health Care Cost Institute’s (HCCI) National Chartbook of Health Care Prices – 2015 provides extensive documentation of geographic variation in prices at the health care service level for the commercially insured.

Geographic variation in health care spending is well documented in health services research literature. For decades, The Dartmouth Institute for Health Policy and Clinical Practice has found significant variation in spending in the Medicare program.¹ Their research has shown that the variation is largely attributable to differences in utilization, since Medicare prices are administratively determined for the entire country with only small local adjustments.

The Institute of Medicine (IOM), in its 2013 Variation in Health Care Spending: Target Decision Making report, concluded that “variation in spending in the commercial insurance market is due mainly to differences in price markups by providers rather than to differences in the utilization of health care services.”² In an initial effort to explain why price variation exists, the IOM analysis found that “70 percent of variation in total commercial spending is attributable to price markups, most likely reflecting the varying market power of providers across hospital referral regions (HRRs).”³

The IOM report went on to find that prices are negatively correlated with the quantity of services used and spending is highly correlated with price, but not with quantity. They noted that “this finding highlights the importance of further examining variation in commercial prices to understand its relationship to total commercial spending.”⁴

The Health Care Cost Institute is fortunate to hold timely, commercial claims data, with the allowed payment amounts (the actual payments to providers, which include copayments, deductibles, and coinsurance) for three of the largest national health insurance companies in the United States (Aetna, Humana, and UnitedHealthcare). With the need to better understand variation in commercial prices and the scale and scope of these available data, HCCI has produced this report on the state-level variation in average prices paid for common health care services.

Defining Health Care Services

For the Chartbook, HCCI analyzed average prices of 242 standardized groupings of diagnostic and procedure codes for health care services, or “care bundles”. The code or codes compromising the bundle reflect a typical collection of services consumed.⁵

Structure of the Chartbook

The Chartbook is divided into three sections. In the first section, we generated 242 national maps (one for each service in which HCCI was able to calculate state average prices and nationwide variation existed). These color-coded maps show how state average prices for services vary across the country. For example, the average tonsil removal in West Virginia costs at least 47% more than the same procedure in neighboring Maryland (calculation based off price level categories on US map, pg. 110).

In the second section, we summarized how the state’s prices compare to the national average
price, across the set of services for which HCCI was able to calculate the state’s average price (242 services at most). These state-by-state sets of bar charts, succinctly show how a state’s average prices compare to national averages. For instance, Florida has relatively average cheaper prices, as demonstrated through the left skew of the state bar graph (pg. 142). While a graph skewed to the right (e.g. Minnesota, pg. 149) suggests relatively high medical prices throughout the state.

Finally, in the third section, the mean and standard deviation of all care bundle ratios (the state’s average price relative to the national average price across all reportable services) are listed for each state. The mean provides an unweighted estimate of how one state’s prices generally compare to other states.

Interpreting the Findings

The Chartbook is intended to serve policy makers, health care providers, and the public as a reference for information regarding detailed health care services price variation. Hopefully, it will also serve as the starting point for more detailed investigations of the underlying causes of price variation.

The Chartbook does not attempt to identify the underlying causes of price variation. Moreover, this report offers no insight into the acceptable or unacceptable level of variation in prices. Therefore, the findings should be considered in the context of the relevant policy, competitive environments, and patient population for a given area.

Methodology

Data

Since 2012, three of the nation’s largest insurers, Aetna, Humana, and United Healthcare, have voluntarily provided their data to the Health Care Cost Institute for research and public reporting. More recently, HCCI has also begun using these claims for public price transparency reporting on guroo.com.

The membership and claims data include a vast number of details including zip codes, diagnostic codes, procedure codes, dollar amounts paid by the insurer as well as the amounts of copayments, deductibles, or coinsurance paid by the insured. The Chartbook prices were calculated from final, fully adjudicated, paid claims data that are de-identified and held in a HIPAA compliant manner by HCCI. Although the Institute holds data from 2007 forward, data for the Chartbook calculations were taken from over 1.8 billion claim lines spanning a two-year period from January 1, 2012 to December 31, 2013. The dollar amounts were trended forward to September 1, 2015 to provide more current estimates. (Please note that the March 2016 update to the Guroo website (version 2.0) includes updated prices. The prices in the Chartbook are from Guroo version 1.0.)

Analysis

HCCI, as part of its price transparency work for Guroo, used its expansive data set to determine pricing information for 297 consumer relevant care bundles. The care bundle cost estimates reflect standardized collections of services based on common groupings of diagnostic and procedure codes. Some care bundles, such as a CT Brain Scan (without dye), simply consist of one CPT code. Others, such as a hip replacement, encompass the entire episode of care – from the first evaluation through the surgery, physical therapy, and follow-up evaluation.

The care bundle prices were calculated using the relevant allowed payments without adjusting for patient characteristics or regional
differences. In other words, no adjustments (demographic, risk, etc.) or normalizations were applied to the data to account for differences in local price levels. The resulting average price estimates, therefore, can be used to identify the upper bound of price variation between services. We anticipate future iterations of the Chartbook will incorporate more robust analyses, such as risk adjustment and utilization measures.

Fifty-five care bundles were excluded due to little to no variation in their prices between states. This lack of variation was a result of fixed or only marginal differences in nationwide prices for procedures such as laboratory tests or vaccinations. These 55 excluded procedures are listed in the full list of 297 care bundles in Appendix Table A1.

Nine states were also excluded from the Chartbook’s reporting. Some states were omitted due to the lack of sufficient data within the state to calculate reliable average prices, while other states were omitted in compliance with HCCI’s masking rules. These masking rules help prevent competitors from determining other insurers’ pricing and negotiation rates. The excluded states are Alabama, Hawaii, Idaho, Michigan, Montana, South Dakota, Vermont, and Wyoming. A ninth state’s data, Arkansas, was not reported in the Chartbook because the state has signaled, by the enactment of the Arkansas Healthcare Transparency Initiative Act of 2015, that it does not want its state data compared to national data.7

After determining the average price for each of the 242 care bundles in every state, HCCI compared these prices to the national averages of the corresponding care bundle; creating a ratio of average state price to average national price. HCCI removed 714 specific “state-care bundle” combinations due to insufficient data. There was either a lack of data for the specific care bundle in a specific state or the care bundle price in a specific state was excluded to comply with the masking rules.

The resulting Chartbook includes 9,451 state-care bundle prices and 242 ‘national-care bundle’ prices to compare the differences in health care service specific pricing within and between 41 states and the District of Columbia.
Difference in Price Levels across States
United States Maps

The following maps depict the variation in price across the United States for each of the 242 reportable care bundles. The maps illustrate the relative price level within a state compared to the national price for a given care bundle.

Each state's price level was determined by the state-level average price for the given care bundle, divided by the national average price of the same care bundle. The resulting price ratios were placed into five mutually exclusive categories.

The five categories are displayed on the map in shades of blue showing the differences in the care bundle’s relative pricing between states. The least expensive ratio of “less than or equal to 90% of the national price” is shown in the lightest blue. Darker shades imply higher ratios, up to the ratio of “greater than 133% of the national price,” which is shown in navy blue. A sixth category, depicting states for which HCCI cannot report the care bundle price, is shaded gray.

Maps that appear monotone, with only one or two colors filling in the majority of states, (e.g. Acupuncture, pg. 17) are displaying care bundles with minimal price variation. Contrastingly, maps with a wide range of colors (e.g. Cataract Removal, pg. 56) illustrate a care bundle with greater price variation from state to state.

The maps also show geographic regions within the United States that tend to have similar prices, suggesting similar health care markets. For example, North Dakota, Minnesota, and Wisconsin tend to have similar shading, which could be the result of many factors such as the higher mobility of consumers and labor within the smaller region, similar standards of living across the three states, comparable costs of business, or provider competition.⁸
Primary Doctor Visit – Minimal Complexity (New Patient) (42 States)
Ratio of Average State Price to Average National Price, by State


Primary Doctor Visit – Low Complexity (New Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Visit – Moderate Complexity (New Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – Moderate to High Complexity (New Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – High Complexity (New Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – Minimal Complexity (Established Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – Low Complexity (Established Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – Moderate to High Complexity (Est. Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Primary Doctor Office Visit – High Complexity (Established Patient) (42 States)
Ratio of Average State Price to Average National Price, by State

Acupuncture (42 States)
Ratio of Average State Price to Average National Price, by State

**Nutritionist Specialist Visit (42 States)**

Ratio of Average State Price to Average National Price, by State


**Specialist Office Visit – Minimal Complexity (42 States)**

Ratio of Average State Price to Average National Price, by State

Specialist Office Visit – Low Complexity (42 States)
Ratio of Average State Price to Average National Price, by State

Specialist Office Visit – Moderate Complexity (42 States)
Ratio of Average State Price to Average National Price, by State

Specialist Office Visit – High Complexity (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Patient (Age Less than 1) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Patient (Age 1-4) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Patient (Age 5-11) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Female Patient (Age 12-17) (42 States)
Ratio of Average State Price to Average National Price, by State


Wellness Visit – New Female Patient (Age 18-39) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Female Patient (Age 40-64) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Female Patient (Age 65+) (40 States)
Ratio of Average State Price to Average National Price, by State

**Wellness Visit – New Male Patient (Age 12-17) (42 States)**
Ratio of Average State Price to Average National Price, by State


**Wellness Visit – New Male Patient (Age 18-39) (42 States)**
Ratio of Average State Price to Average National Price, by State

Wellness Visit – New Male Patient (Age 40-64) (42 States)
Ratio of Average State Price to Average National Price, by State


Wellness Visit – New Male Patient (Age 65+) (40 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Patient (Age Less than 1) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Patient (Age 1-4) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Patient (Age 5-11) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Female Patient (Age 12-17) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Female Patient (Age 18-39) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Female Patient (Age 40-64) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Female Patient (Age 65+) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Male Patient (Age 12-17) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Male Patient (Age 18-39) (42 States)
Ratio of Average State Price to Average National Price, by State


Wellness Visit – Established Male Patient (Age 40-64) (42 States)
Ratio of Average State Price to Average National Price, by State

Wellness Visit – Established Male Patient (Age 65+) (42 States)
Ratio of Average State Price to Average National Price, by State

Abnormal Uterine Bleeding – Endometrial Ablation (38 States)
Ratio of Average State Price to Average National Price, by State

Abnormal Uterine Bleeding – Office Visit (42 States)
Ratio of Average State Price to Average National Price, by State

Birth Control – Cut and Tie Tubes (33 States)
Ratio of Average State Price to Average National Price, by State

Birth Control – Intrauterine Device (42 States)
Ratio of Average State Price to Average National Price, by State

Childbirth – Cesarean Delivery & Newborn Care (39 States)
Ratio of Average State Price to Average National Price, by State

Childbirth – Vaginal Delivery & Newborn Care (42 States)
Ratio of Average State Price to Average National Price, by State

D and C – Miscarriage (36 States)
Ratio of Average State Price to Average National Price, by State
Endometriosis – Inpatient (36 States)
Ratio of Average State Price to Average National Price, by State

Endometriosis – Outpatient (36 States)
Ratio of Average State Price to Average National Price, by State

Hysterectomy – Abdominal (36 States)
Ratio of Average State Price to Average National Price, by State

Hysterectomy – Vaginal (36 States)
Ratio of Average State Price to Average National Price, by State

Ovary and Fallopian Tube Removal (36 States)
Ratio of Average State Price to Average National Price, by State

Uterine Fibroid Removal (36 States)
Ratio of Average State Price to Average National Price, by State

Uterus Exam with Biopsy (36 States)
Ratio of Average State Price to Average National Price, by State

Uterus Exam – Hysterosalpingography (31 States)
Ratio of Average State Price to Average National Price, by State

Acute Bronchitis Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State


Acute Sinusitis Examination (42 States)
Ratio of Average State Price to Average National Price, by State

Asthma Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Chronic Obstructive Pulmonary Disease (COPD) (42 States)
Ratio of Average State Price to Average National Price, by State

Coronary Artery Disease – Heart Disease (42 States)
Ratio of Average State Price to Average National Price, by State


Diabetes Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Emergency Room Visit (42 States)
Ratio of Average State Price to Average National Price, by State

Enlarged Prostate (BPH) Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Heartburn Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

High Cholesterol Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Hypertension – High Blood Pressure (42 States)
Ratio of Average State Price to Average National Price, by State


Influenza (Flu) Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Kidney Stone Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State


Laryngoscopy (42 States)
Ratio of Average State Price to Average National Price, by State

Low Testosterone Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Low Thyroid Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Mononucleosis (42 States)
Ratio of Average State Price to Average National Price, by State

Rheumatoid Arthritis (42 States)
Ratio of Average State Price to Average National Price, by State

Shoulder Pain Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State


Sleep Apnea Evaluation (42 States)
Ratio of Average State Price to Average National Price, by State

Urinary Tract – Bladder Infection (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Chickenpox Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Diphtheria, Tetanus, Pertussis (DTaP) (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Flu Vaccine (Adult) (41 States)
Ratio of Average State Price to Average National Price, by State

Administration of Flu Vaccine (Child) (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Hepatitis A Vaccine (Adult) (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Hepatitis A Vaccine (Child) (42 States)
Ratio of Average State Price to Average National Price, by State


Administration of Hepatitis B Vaccine (Adult) (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Hepatitis B Vaccine (Child) (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Hib Vaccine (39 States)
Ratio of Average State Price to Average National Price, by State

Administration of Human Papillomavirus (HPV) Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Measles, Mumps, Rubella (MMR) Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Meningitis Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State


Administration of Pneumonia Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Polio Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State


Administration of Rotavirus Vaccine (39 States)
Ratio of Average State Price to Average National Price, by State

Administration of Shingles Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State

Administration of Tetanus (Td) Vaccine (41 States)
Ratio of Average State Price to Average National Price, by State

Administration of Tetanus, Diphtheria, Pertussis (TdaP) Vaccine (42 States)
Ratio of Average State Price to Average National Price, by State


Allergy Injections (42 States)
Ratio of Average State Price to Average National Price, by State

Allergy Testing (42 States)
Ratio of Average State Price to Average National Price, by State

Back Pain – Epidural Steroid Injection (39 States)
Ratio of Average State Price to Average National Price, by State

**Biopsy – Bladder (21 States)**
Ratio of Average State Price to Average National Price, by State

**Biopsy – Breast (21 States)**
Ratio of Average State Price to Average National Price, by State

Biopsy – Cervix (25 States)
Ratio of Average State Price to Average National Price, by State

Biopsy – Colon (42 States)
Ratio of Average State Price to Average National Price, by State

**Biopsy – Kidney (18 States)**
Ratio of Average State Price to Average National Price, by State

**Biopsy – Neck (15 States)**
Ratio of Average State Price to Average National Price, by State

**Biopsy – Prostate (42 States)**
Ratio of Average State Price to Average National Price, by State


**Biopsy – Skin (38 States)**
Ratio of Average State Price to Average National Price, by State

**Biopsy – Testicles (2 States)**
Ratio of Average State Price to Average National Price, by State

**Biopsy – Thyroid (21 States)**
Ratio of Average State Price to Average National Price, by State

**Bladder Exam – Cystoscopy (36 States)**
Ratio of Average State Price to Average National Price, by State

**Cardiac Catheterization – Diagnostic (36 States)**
Ratio of Average State Price to Average National Price, by State

Colonoscopy – Preventative Screening (42 States)
Ratio of Average State Price to Average National Price, by State

Colonoscopy with Polyp Removal (41 States)
Ratio of Average State Price to Average National Price, by State

Electrocardiogram (EKG) (42 States)
Ratio of Average State Price to Average National Price, by State

Electroencephalogram (EEG) (39 States)
Ratio of Average State Price to Average National Price, by State

Electromyogram (EMG) (42 States)
Ratio of Average State Price to Average National Price, by State


Heart Stress Test with Heart Ultrasound (42 States)
Ratio of Average State Price to Average National Price, by State

Kidney Stone Disintegration – Lithotripsy (38 States)
Ratio of Average State Price to Average National Price, by State

Knee Injection (42 States)
Ratio of Average State Price to Average National Price, by State

Nerve Conduction Studies (41 States)
Ratio of Average State Price to Average National Price, by State

Radiation Treatment Delivery – Low Intensity (39 States)
Ratio of Average State Price to Average National Price, by State

Radiation Treatment Delivery – Medium Intensity (38 States)
Ratio of Average State Price to Average National Price, by State


Radiation Treatment Delivery – Varied Intensity (39 States)
Ratio of Average State Price to Average National Price, by State

Sinus Endoscopy with Biopsy (14 States)
Ratio of Average State Price to Average National Price, by State

Sleep Study (42 States)
Ratio of Average State Price to Average National Price, by State

Sleep Study at Home (36 States)
Ratio of Average State Price to Average National Price, by State


Sleep Study with CPAP (Continuous Positive Airway Pressure) Mask (42 States)
Ratio of Average State Price to Average National Price, by State

Upper Endoscopy (42 States)
Ratio of Average State Price to Average National Price, by State


Upper Endoscopy with Dilation (31 States)
Ratio of Average State Price to Average National Price, by State

Adult Hearing Loss (42 States)
Ratio of Average State Price to Average National Price, by State


Bacterial Culture Test (Other Source) (42 States)
Ratio of Average State Price to Average National Price, by State

Bacterial Culture Test (Urine) (42 States)
Ratio of Average State Price to Average National Price, by State


Blood in Stool Test (42 States)
Ratio of Average State Price to Average National Price, by State

**Cholesterol Test (42 States)**
Ratio of Average State Price to Average National Price, by State

![Map of Cholesterol Test Prices](image)


**Complete Blood Count Test (CBC) (42 States)**
Ratio of Average State Price to Average National Price, by State

![Map of CBC Test Prices](image)

Comprehensive Metabolic Panel Test (42 States)
Ratio of Average State Price to Average National Price, by State

C-Reactive Protein Test (CRP) (42 States)
Ratio of Average State Price to Average National Price, by State

Creatine Kinase Test (42 States)
Ratio of Average State Price to Average National Price, by State

Creatinine Test (42 States)
Ratio of Average State Price to Average National Price, by State

Fasting Blood Glucose Test (42 States)
Ratio of Average State Price to Average National Price, by State

General Health Panel Test (41 States)
Ratio of Average State Price to Average National Price, by State

Hematocrit Test (42 States)
Ratio of Average State Price to Average National Price, by State

Hemoglobin Test (42 States)
Ratio of Average State Price to Average National Price, by State

Hemoglobin A1c Test (42 States)
Ratio of Average State Price to Average National Price, by State


Human Papillomavirus Test (HPV) (42 States)
Ratio of Average State Price to Average National Price, by State

**Influenza Test (42 States)**
Ratio of Average State Price to Average National Price, by State


**Lactate Dehydrogenase Test (LDH) (42 States)**
Ratio of Average State Price to Average National Price, by State

Liver Enzyme Study Test (GGT) (41 States)
Ratio of Average State Price to Average National Price, by State

Liver Panel Test (42 States)
Ratio of Average State Price to Average National Price, by State

Mononucleosis Test (42 States)
Ratio of Average State Price to Average National Price, by State


Pap Smear Test (42 States)
Ratio of Average State Price to Average National Price, by State

**Prostate Specific Antigen Test (PSA) (42 States)**

Ratio of Average State Price to Average National Price, by State


**Screening Culture Test (42 States)**

Ratio of Average State Price to Average National Price, by State

Strep Throat Test (42 States)
Ratio of Average State Price to Average National Price, by State

Thyroid Hormone Test (Trilodothyronine – T3) (40 States)
Ratio of Average State Price to Average National Price, by State

Thyroid Stimulating Hormone Test (TSH) (42 States)
Ratio of Average State Price to Average National Price, by State

Tuberculosis Test (TB) (42 States)
Ratio of Average State Price to Average National Price, by State

Uric Acid Test (42 States)
Ratio of Average State Price to Average National Price, by State

Urinalysis – Automated Urine Test (42 States)
Ratio of Average State Price to Average National Price, by State

Urine Microalbumin Test (42 States)
Ratio of Average State Price to Average National Price, by State

Urine Pregnancy Test (42 States)
Ratio of Average State Price to Average National Price, by State

Vitamin D Test (42 States)
Ratio of Average State Price to Average National Price, by State

Bone Density Study – Hips, Pelvis, and Spine (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Abdomen (with Dye) (42 States)
Ratio of Average State Price to Average National Price, by State


CT Scan – Abdomen (without Dye) (40 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Abdomen (without Dye followed by with Dye) (41 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Abdomen and Pelvis (with Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Brain or Head (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Chest (with Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Chest (Angiography without Dye, followed by with Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Maxillofacial – Face (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

CT Scan – Pelvis (with Dye) (41 States)
Ratio of Average State Price to Average National Price, by State


CT Scan – Pelvis (without Dye) (39 States)
Ratio of Average State Price to Average National Price, by State

Endoscopic Retrograde Cholangiopancreatography (ERCP) (5 States)
Ratio of Average State Price to Average National Price, by State

Heart SPECT Imaging Studies (42 States)
Ratio of Average State Price to Average National Price, by State

Hepatobiliary Iminodiacetic Acid (HIDA) Scan (41 States)
Ratio of Average State Price to Average National Price, by State

Mammogram – Diagnostic (Digital) (42 States)
Ratio of Average State Price to Average National Price, by State

Mammogram – Diagnostic (Film) (36 States)
Ratio of Average State Price to Average National Price, by State

Mammogram – Preventive Screening (Digital) (42 States)
Ratio of Average State Price to Average National Price, by State

Mammogram – Preventive Screening (Film) (40 States)
Ratio of Average State Price to Average National Price, by State


MRI Scan – Abdomen (with and without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Arm – Upper Extremity (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Brain (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Brain (with and without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Cervical Spine (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Knee (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State


MRI Scan – Lumbar Spine (without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

MRI Scan – Lumbar Spine (with and without Dye) (42 States)
Ratio of Average State Price to Average National Price, by State

PET Scan with CT Scan (39 States)
Ratio of Average State Price to Average National Price, by State

Ultrasound – Breasts (42 States)
Ratio of Average State Price to Average National Price, by State

Ultrasound – Heart (for Birth Defects) (42 States)
Ratio of Average State Price to Average National Price, by State

Ultrasound – Heart (with Blood Flow Study) (42 States)
Ratio of Average State Price to Average National Price, by State

Ultrasound – Pelvis (via Abdomen Wall) (42 States)
Ratio of Average State Price to Average National Price, by State

Ultrasound – Pelvis (via Vagina) (42 States)
Ratio of Average State Price to Average National Price, by State


Ultrasound – Pregnancy (41 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Abdomen (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Ankle (3 Views) (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Cervical Spine (42 States)
Ratio of Average State Price to Average National Price, by State


X-ray – Chest (Single View) (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Chest (2 Views) (42 States)
Ratio of Average State Price to Average National Price, by State


X-ray – Fingers (2 Views) (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Foot (3 Views) (42 States)
Ratio of Average State Price to Average National Price, by State


X-ray – Hand (3 Views) (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Hip (3 Views) (42 States)
Ratio of Average State Price to Average National Price, by State


X-ray – Knee (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Lumbar Spine (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Shoulder (2 Views) (42 States)
Ratio of Average State Price to Average National Price, by State

X-ray – Wrist (3 Views) (42 States)
Ratio of Average State Price to Average National Price, by State


Physical Therapy – Back Pain (42 States)
Ratio of Average State Price to Average National Price, by State

**Physical Therapy – Exercises (42 States)**
Ratio of Average State Price to Average National Price, by State

**Physical Therapy – Functional Activities (42 States)**
Ratio of Average State Price to Average National Price, by State

Physical Therapy – Massage and Traction (42 States)
Ratio of Average State Price to Average National Price, by State


Physical Therapy – Nerve and Muscle Retraining (42 States)
Ratio of Average State Price to Average National Price, by State

Appendectomy – Outpatient (39 States)
Ratio of Average State Price to Average National Price, by State


Back Pain – Lumbar Discectomy (29 States)
Ratio of Average State Price to Average National Price, by State

Back Pain – Lumbar Fusion (33 States)
Ratio of Average State Price to Average National Price, by State

Back Pain – Lumbar Laminectomy (33 States)
Ratio of Average State Price to Average National Price, by State

Bunion Surgery (37 States)
Ratio of Average State Price to Average National Price, by State


Carpal Tunnel Surgery (41 States)
Ratio of Average State Price to Average National Price, by State

Cataract Removal (with Lens Implant) (42 States)
Ratio of Average State Price to Average National Price, by State

Coronary Angioplasty (21 States)
Ratio of Average State Price to Average National Price, by State

Coronary Angioplasty (with Drug-Eluting Stent) (36 States)
Ratio of Average State Price to Average National Price, by State


Coronary Angioplasty (with Non-Drug-Eluting Stent) (21 States)
Ratio of Average State Price to Average National Price, by State

Ear Infection – Chronic – Ear Tubes (37 States)
Ratio of Average State Price to Average National Price, by State

Enlarged Prostate Surgery (TURP) (35 States)
Ratio of Average State Price to Average National Price, by State

Gallbladder Removal – Laparoscopic (31 States)
Ratio of Average State Price to Average National Price, by State

Glaucoma – Eye Shunt (12 States)
Ratio of Average State Price to Average National Price, by State

Hemorrhoid Surgery (18 States)
Ratio of Average State Price to Average National Price, by State


Hernia Repair in Groin – Incision (40 States)
Ratio of Average State Price to Average National Price, by State

Hernia Repair in Groin – Laparoscopic (35 States)
Ratio of Average State Price to Average National Price, by State


Hip Replacement (40 States)
Ratio of Average State Price to Average National Price, by State

Knee Arthroscopy with ACL Surgery (36 States)
Ratio of Average State Price to Average National Price, by State


Knee Arthroscopy with Meniscus Surgery (41 States)
Ratio of Average State Price to Average National Price, by State

Knee Replacement (40 States)
Ratio of Average State Price to Average National Price, by State

Mole Removal (42 States)
Ratio of Average State Price to Average National Price, by State

Neck Pain – Cervical Spine Fusion (31 States)
Ratio of Average State Price to Average National Price, by State

Retinal Detachment Repair (28 States)
Ratio of Average State Price to Average National Price, by State

Shoulder Arthroscopy with Labrum Repair (22 States)
Ratio of Average State Price to Average National Price, by State


Shoulder Arthroscopy with Rotator Cuff Repair (25 States)
Ratio of Average State Price to Average National Price, by State

**Tonsil Removal (38 States)**
Ratio of Average State Price to Average National Price, by State

**Tonsil and Adenoid Removal (38 States)**
Ratio of Average State Price to Average National Price, by State

Upper Intestine Removal – Laparoscopic (34 States)
Ratio of Average State Price to Average National Price, by State

Vasectomy – Male Sterilization (42 States)
Ratio of Average State Price to Average National Price, by State

Weight Loss Surgery – Gastric Bypass (29 States)
Ratio of Average State Price to Average National Price, by State


Weight Loss Surgery – Laparoscopic Band (29 States)
Ratio of Average State Price to Average National Price, by State

Distribution of Average State Prices in Relation to the National Average
State-level Bar Graphs

The following bar graphs depict the distribution of ratios of average state price to average national price for the reportable care bundles in each state. For each state, the average state-level prices for each care bundle were compared to their national average counterpart. These ratios were grouped into eight mutually exclusive categories. The distribution of these ratios were graphed for 41 states and the District of Columbia. Due to insufficient data or to comply with HCCI’s masking rules, not every state graph contains all 242 care bundles (see Appendix Table A1 for the complete list of care bundles).

On the graph, the x-axis lists the ratio categories from the lowest categories of “greater than 0.2 and less than or equal to 0.6” on the left to the highest of “greater than 1.8” on the right. The y-axis shows what percentage of care bundles price ratios is in each of the eight categories. The percentages are also displayed above each bar on the graph. Due to the number of reportable care bundle price ratios differing by state, reporting the percentages for a uniform set of categories allows for direct comparisons across states.

The state bar graphs, by showing the distribution of price ratios, provide a general sense of a state’s overall price level. Categories of state-level prices more expensive than the national average (e.g. price ratios are greater than 1.0) are identified by yellow bars on the graph. Multiple and taller yellow bars on the right half of the graph suggests that the state has relatively high prices. If the state-level prices are less than the national average (e.g. price ratios less than 1.0) the bars on the graph are colored blue. A state graph with more and taller blue bars on the left half of the graph suggests the state has relatively lower prices.
Alabama (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Alaska (184 Bundles)
Distribution of Average State Price to Average National Price Ratios

### Arizona (237 Bundles)

**Distribution of Average State Price to Average National Price Ratios**

<table>
<thead>
<tr>
<th>Ratio (R)</th>
<th>Percent of Care Bundles</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2&lt;R&lt;0.4</td>
<td>5.49</td>
</tr>
<tr>
<td>0.4&lt;R&lt;0.6</td>
<td>37.55</td>
</tr>
<tr>
<td>0.6&lt;R&lt;0.8</td>
<td>49.79</td>
</tr>
<tr>
<td>0.8&lt;R&lt;1.0</td>
<td>5.91</td>
</tr>
<tr>
<td>1.0&lt;R&lt;1.2</td>
<td>0.84</td>
</tr>
<tr>
<td>1.2&lt;R&lt;1.4</td>
<td>0.42</td>
</tr>
<tr>
<td>1.4&lt;R&lt;1.6</td>
<td></td>
</tr>
<tr>
<td>1.6&lt;R&lt;1.8</td>
<td></td>
</tr>
<tr>
<td>1.8&lt;R&lt;2.0</td>
<td></td>
</tr>
<tr>
<td>2.0&lt;R</td>
<td></td>
</tr>
</tbody>
</table>


### Arkansas (Unable to Report at This Time)

**Distribution of Average State Price to Average National Price Ratios**


California (240 Bundles)
Distribution of Average State Price to Average National Price Ratios


Colorado (231 Bundles)
Distribution of Average State Price to Average National Price Ratios

Connecticut (232 Bundles)
Distribution of Average State Price to Average National Price Ratios


Delaware (187 Bundles)
Distribution of Average State Price to Average National Price Ratios

**District of Columbia (196 Bundles)**

Distribution of Average State Price to Average National Price Ratios

![Graph showing distribution of average state price to average national price ratios for District of Columbia.](image)


**Florida (241 Bundles)**

Distribution of Average State Price to Average National Price Ratios

![Graph showing distribution of average state price to average national price ratios for Florida.](image)

Georgia (237 Bundles)
Distribution of Average State Price to Average National Price Ratios

Hawaii (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Idaho (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Illinois (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

Indiana (235 Bundles)
Distribution of Average State Price to Average National Price Ratios


Iowa (216 Bundles)
Distribution of Average State Price to Average National Price Ratios

Kansas (226 Bundles)
Distribution of Average State Price to Average National Price Ratios

Kentucky (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

**Louisiana (231 Bundles)**

Distribution of Average State Price to Average National Price Ratios

```
70.56
```


**Maine (211 Bundles)**

Distribution of Average State Price to Average National Price Ratios

```
32.23
```

Maryland (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

Massachusetts (233 Bundles)
Distribution of Average State Price to Average National Price Ratios

**Michigan (Insufficient Data)**
Distribution of Average State Price to Average National Price Ratios

**Minnesota (221 Bundles)**
Distribution of Average State Price to Average National Price Ratios

Mississippi (222 Bundles)
Distribution of Average State Price to Average National Price Ratios

Missouri (230 Bundles)
Distribution of Average State Price to Average National Price Ratios

Montana (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Nebraska (225 Bundles)
Distribution of Average State Price to Average National Price Ratios

Nevada (224 Bundles)
Distribution of Average State Price to Average National Price Ratios

New Hampshire (213 Bundles)
Distribution of Average State Price to Average National Price Ratios

New Jersey (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

New Mexico (196 Bundles)
Distribution of Average State Price to Average National Price Ratios

New York (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

North Carolina (234 Bundles)
Distribution of Average State Price to Average National Price Ratios

North Dakota (180 Bundles)
Distribution of Average State Price to Average National Price Ratios

Ohio (240 Bundles)
Distribution of Average State Price to Average National Price Ratios

Oklahoma (233 Bundles)
Distribution of Average State Price to Average National Price Ratios


Oregon (229 Bundles)
Distribution of Average State Price to Average National Price Ratios

Pennsylvania (241 Bundles)
Distribution of Average State Price to Average National Price Ratios

Rhode Island (184 Bundles)
Distribution of Average State Price to Average National Price Ratios

South Carolina (231 Bundles)
Distribution of Average State Price to Average National Price Ratios

South Dakota (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Tennessee (236 Bundles)
Distribution of Average State Price to Average National Price Ratios

Texas (242 Bundles)
Distribution of Average State Price to Average National Price Ratios

Utah (229 Bundles)
Distribution of Average State Price to Average National Price Ratios

Vermont (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios

Virginia (240 Bundles)
Distribution of Average State Price to Average National Price Ratios


Washington (232 Bundles)
Distribution of Average State Price to Average National Price Ratios

**West Virginia (218 Bundles)**

Distribution of Average State Price to Average National Price Ratios


**Wisconsin (235 Bundles)**

Distribution of Average State Price to Average National Price Ratios

Wyoming (Insufficient Data)
Distribution of Average State Price to Average National Price Ratios
Central Tendencies
Price Ratio Central Tendency

As a final measure of state-level prices, the mean and standard deviation of all reportable price ratios are reported, by state, in the following table. For each state, the mean was calculated by summing the price ratios (the average state price divided by the average national price) for every care bundle and dividing by the total number of care bundles with sufficient data in that state.

This measure provides a simple set of summary statistics to compare state price levels, relative to the national price level, across states. The standard deviations also illustrate the amount of variance in relative price levels within a state. The table is ordered from smallest mean ratio to largest.
## State-level Price Ratio Summary Statistics

<table>
<thead>
<tr>
<th>State Name</th>
<th>Number of Care Bundles</th>
<th>Mean</th>
<th>Standard Deviation</th>
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<td>Florida</td>
<td>241</td>
<td>0.81</td>
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<td>Arizona</td>
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<td>Maryland</td>
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<td>236</td>
<td>0.90</td>
<td>0.13</td>
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<tr>
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<td>0.90</td>
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</tr>
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<td>Kentucky</td>
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<td>0.16</td>
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<tr>
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<td>0.97</td>
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</tr>
<tr>
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<td>0.23</td>
</tr>
<tr>
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<td>0.17</td>
</tr>
<tr>
<td>Georgia</td>
<td>237</td>
<td>0.99</td>
<td>0.12</td>
</tr>
<tr>
<td>Ohio</td>
<td>240</td>
<td>0.99</td>
<td>0.16</td>
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<tr>
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<tr>
<td>Colorado</td>
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<tr>
<td>California</td>
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<tr>
<td>Kansas</td>
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<tr>
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<td>Washington</td>
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<tr>
<td>District of Columbia</td>
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<tr>
<td>Pennsylvania</td>
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<td>1.17</td>
<td>0.39</td>
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<td>1.17</td>
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<tr>
<td>Connecticut</td>
<td>232</td>
<td>1.17</td>
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<td>222</td>
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<tr>
<td>Iowa</td>
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<td>Maine</td>
<td>211</td>
<td>1.33</td>
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<tr>
<td>Oregon</td>
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<td>1.35</td>
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<td>Nebraska</td>
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<tr>
<td>New Hampshire</td>
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<td>1.65</td>
<td>0.66</td>
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<td>180</td>
<td>1.65</td>
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<td>Wisconsin</td>
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<td>1.81</td>
<td>0.53</td>
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<tr>
<td>Alaska</td>
<td>184</td>
<td>2.62</td>
<td>1.07</td>
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</tbody>
</table>
Endnotes


5. The care bundle logic was developed by UnitedHealthcare and is used in their consumer health care cost estimator. The logic seeks to capture the total costs (facility, physician, and out-of-pocket) for a typical patient. The care bundles are not the basis for payments which are based on the actual services provided rather than the typical services provided. Our estimates are based on historic claims and use both in and out of network claims.

6. The IOM Report highlights and provides an excellent discussion of acceptable and unacceptable price variation. Economists have long recognized that prices are signals in the marketplace and that “reducing regional differences in health care spending and utilization is desirable only to the extent that the variation reflects system inefficiencies.”

7. The Act prohibits its state all payer claims database from being incorporated into any national database.

8. For further discussion on the differences in care bundle price variation between states, see Newman, D, Parente, ST, Barrette, E, Kennedy, K. “Prices for common medical services vary substantially among the commercially insured.” Health Affairs 35.5.

9. For further analysis on the distribution of price ratios by state, see Newman, D, Parente, ST, Barrette, E, Kennedy, K. “Prices for common medical services vary substantially among the commercially insured.” Health Affairs 35.5.

10. The results are similar when the median was used instead of the mean.
Appendix
# Appendix Table A1 – Complete List of Care Bundles

<table>
<thead>
<tr>
<th>Care Bundle Name</th>
<th>Number of Reported States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Bronchitis Evaluation</td>
<td>42</td>
</tr>
<tr>
<td>Chronic Obstructive Pulmonary Disease (COPD)</td>
<td>42</td>
</tr>
<tr>
<td>Asthma Evaluation</td>
<td>42</td>
</tr>
<tr>
<td>Acne*</td>
<td>0</td>
</tr>
<tr>
<td>Mole Removal</td>
<td>42</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>42</td>
</tr>
<tr>
<td>Athletes Foot*</td>
<td>0</td>
</tr>
<tr>
<td>Ankle Pain*</td>
<td>0</td>
</tr>
<tr>
<td>Allergic Rash*</td>
<td>0</td>
</tr>
<tr>
<td>Swimmers Itch*</td>
<td>0</td>
</tr>
<tr>
<td>Eczema*</td>
<td>0</td>
</tr>
<tr>
<td>Allergy Symptoms*</td>
<td>0</td>
</tr>
<tr>
<td>Allergy Testing</td>
<td>42</td>
</tr>
<tr>
<td>Allergy Injections</td>
<td>42</td>
</tr>
<tr>
<td>Appendectomy - Outpatient</td>
<td>39</td>
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<tr>
<td>Birth Control - Intrauterine Device</td>
<td>42</td>
</tr>
<tr>
<td>Birth Control - Cut and Tie Tubes</td>
<td>33</td>
</tr>
<tr>
<td>Blood Draw*</td>
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<tr>
<td>Urinary Tract - Bladder Infection</td>
<td>42</td>
</tr>
<tr>
<td>Back Pain - Doctor Visit*</td>
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<tr>
<td>Back Pain - Physical Therapy</td>
<td>42</td>
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<tr>
<td>Back Pain - Chiropractor Visit - Six Visits*</td>
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<tr>
<td>Back Pain - Epidural Steroid Injection</td>
<td>39</td>
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<tr>
<td>Back Pain - Lumbar Laminectomy</td>
<td>33</td>
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<tr>
<td>Back Pain - Lumbar Fusion</td>
<td>33</td>
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<tr>
<td>Back Pain - Lumbar Discectomy</td>
<td>29</td>
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<tr>
<td>Childbirth - Vaginal Delivery and Newborn Care</td>
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</tr>
<tr>
<td>Childbirth - Cesarean Delivery and Newborn Care</td>
<td>39</td>
</tr>
<tr>
<td>Common Cold*</td>
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<tr>
<td>Neck Pain - Cervical Spine Fusion</td>
<td>31</td>
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<td>Neck Pain - Primary Care Physician*</td>
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</tr>
<tr>
<td>Chiropractic Manipulation*</td>
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<tr>
<td>Chickenpox*</td>
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<tr>
<td>Biopsy - Breast</td>
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<tr>
<td>Biopsy – Skin</td>
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<td>Biopsy - Cervix</td>
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<td>Biopsy - Colon</td>
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<td>Biopsy - Esophagus*</td>
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<tr>
<td>Care Bundle Name</td>
<td>Number of Reported States</td>
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<tr>
<td>-------------------------------------------------------</td>
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<tr>
<td>Biopsy - Thyroid</td>
<td>21</td>
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<tr>
<td>Biopsy - Bladder</td>
<td>21</td>
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<tr>
<td>Biopsy - Testicles</td>
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<tr>
<td>Biopsy - Kidney</td>
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<td>Biopsy - Neck</td>
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<td>Biopsy - Prostate</td>
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<tr>
<td>Colonoscopy - Preventive Screening</td>
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<tr>
<td>Colonoscopy with Polyp Removal</td>
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<tr>
<td>Abdomen CT Scan (With Dye)</td>
<td>42</td>
</tr>
<tr>
<td>Abdomen CT Scan (Without Dye)</td>
<td>40</td>
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<tr>
<td>Abdomen CT Scan (Without Dye, Followed by With Dye)</td>
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<tr>
<td>Abdomen &amp; Pelvis CT Scan (With Dye)</td>
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<tr>
<td>Pelvis CT Scan (With Dye)</td>
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<tr>
<td>Chest CT Scan (With Dye)</td>
<td>42</td>
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<tr>
<td>Chest CT Scan (Angiography Without Dye, Followed With Dye)</td>
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</tr>
<tr>
<td>Head or Brain CT Scan (Without Dye)</td>
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</tr>
<tr>
<td>Maxillofacial – Face CT Scan (Without Dye)</td>
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<tr>
<td>Heart Stress Test With Heart Ultrasound</td>
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<tr>
<td>Heart Ultrasound for Birth Defects</td>
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<td>Heart Ultrasound With Blood Flow Study</td>
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<td>Coronary Artery Disease - Heart Disease</td>
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<td>Bladder Exam - Cystoscopy</td>
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<td>Cardiac Catheterization - Diagnostic</td>
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<tr>
<td>Coronary Angioplasty with Drug-Eluting Stent</td>
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<td>Coronary Angioplasty</td>
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<td>Coronary Angioplasty with Non-Drug-Eluting Stent</td>
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<td>Diabetes Evaluation</td>
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<td>Ear Infection - Chronic - Ear Tubes</td>
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<td>Swimmers Ear*</td>
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<td>Hearing Loss - Adult</td>
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<td>Care Bundle Name</td>
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<td>Ovary and Fallopian Tube Removal</td>
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<td>Endometriosis - Outpatient</td>
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<td>Urine Pregnancy Test</td>
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<td>Blood in Stool Test</td>
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<td>C-Reactive Protein - CRP Test</td>
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<td>Liver Enzyme Study - GGT Test</td>
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<td>Influenza Test</td>
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<td>Lactate Dehydrogenase - LDH Test</td>
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<td>Sed Rate - ESR Test*</td>
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<tr>
<td>Tuberculosis - TB Test</td>
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<tr>
<td>Thyroid Hormone Test - Triiodothyronine - T3</td>
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<td>Uric Acid Test</td>
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<td>Mononucleosis Test</td>
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<td>Kidney Stone Disintegration - Lithotripsy</td>
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<td>MRI Scan With and Without Dye - Brain</td>
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</tr>
<tr>
<td>MRI Scan Without Dye - Knee</td>
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</tr>
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<td>MRI Scan Without Dye - Upper Extremity - Arm</td>
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<td>Care Bundle Name</td>
<td>Number of Reported States</td>
</tr>
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<td>MRI Scan With and Without Dye - Abdomen</td>
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<td>Care Bundle Name</td>
<td>Number of Reported States</td>
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<td>Pelvic Ultrasound (via Vagina)</td>
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<td>Rear of Abdomen Ultrasound</td>
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<td>Pregnancy Ultrasound</td>
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<td>Flu Vaccine (Child)</td>
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<td>Human Papillomavirus (HPV) Vaccine</td>
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<td>Care Bundle Name</td>
<td>Number of Reported States</td>
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<td>Diagnostic Mammogram (Digital)</td>
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<td>Hepatobiliary Iminodiacetic Acid (HIDA Scan)</td>
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<td>Ankle X-ray (3 Views)</td>
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* = No Substantive Price Variance between States