

# Super to it is a way a

# 2023 Medicare Fee-for-Service Supplemental Improper Payment Data

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### **SUMMARY OF HIGH LEVEL FINDINGS**

This document supplements improper payment information in the annual <u>HHS AFR</u>. PIIA requires improper payment reporting in the HHS AFR. The improper payment rate calculation complies with the requirements of OMB Circular A-123, Appendix C. CMS measures the Medicare FFS improper payment rate through the CERT program.

### **92.62** Percent Accuracy Rate and 7.38 Percent Improper Payment Rate<sup>1,2,3</sup>

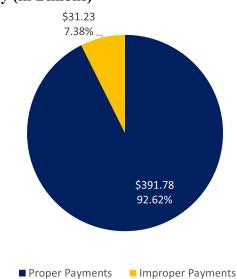


Figure 1: Payment Accuracy (in Billions)

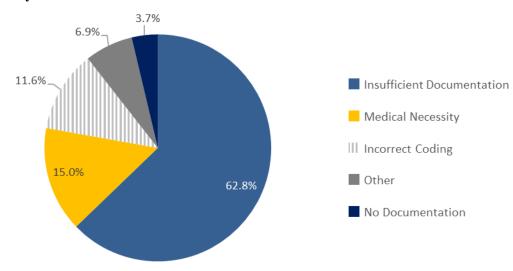
<sup>&</sup>lt;sup>1</sup> HHS published the 2023 Medicare FFS improper payment rate in the Federal FY 2023 HHS AFR. The FY runs from October 1 to September 30. The Medicare FFS sampling period does not correspond with the FY due to practical constraints with claims review and rate calculation methodologies. The FY 2023 Medicare FFS improper payment rate included claims submitted during the 12-month period from July 1, 2021 through June 30, 2022.

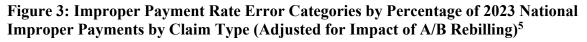
<sup>&</sup>lt;sup>2</sup> CMS adjusted the improper payment rate by 0.23 percentage points (\$972.08 million) from 7.61 percent to 7.38 percent to account for the effect of rebilling inpatient hospital claims denied under Medicare Part A (Part A to B rebilling). The Part A to B rebilling adjustment factor was calculated by selecting a random sub-sample of Part A inpatient claims selected by the CERT program and repricing the individual services provided under Part B. Because this repricing process was not applied to all of the Part A inpatient claims selected by the CERT program, the Part A to B rebilling adjustment factor could only be applied to the high-level calculations (i.e., the overall, Part A Total, and Part A Hospital IPPS improper payment rates). This methodology is unchanged from 2012 through 2023.

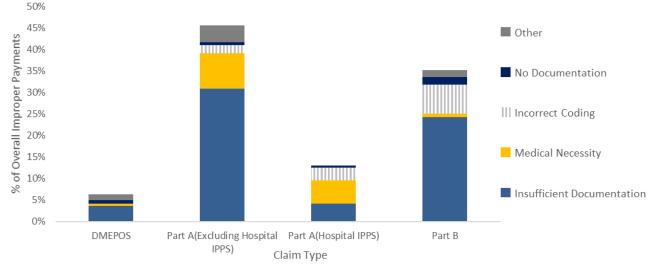
<sup>&</sup>lt;sup>3</sup> For purposes of this report, correct payments are considered total Medicare FFS payments minus payments considered an improper payment as identified through CERT. Please note that instances of fraud or other problems not discerned during the CERT review could still be present.

### **Common Causes of Improper Payments**

Figure 2: Improper Payment Rate Error Categories by Percentage of 2023 National Improper Payments<sup>4</sup>



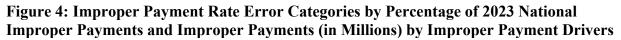


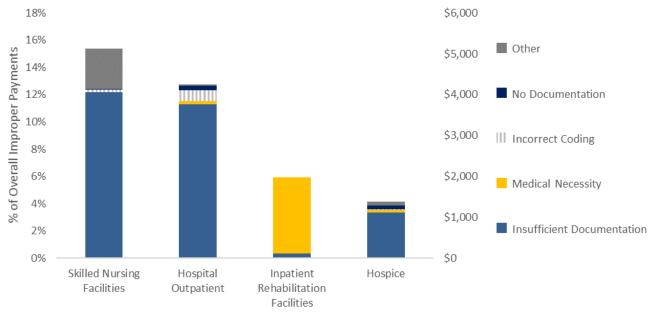


<sup>&</sup>lt;sup>4</sup> The percentages in this pie chart may not add up to 100 percent due to rounding.

<sup>&</sup>lt;sup>5</sup> Improper payment rate reporting for Part A (Excluding Hospital IPPS) providers is determined by the type of bill submitted to Medicare for payment. Providers, facilities, and suppliers that submit institutional claims via the electronic ANSI ASC X12 Health Care Claim: Institutional (837) or paper claim format UB-04, are included in the Part A (Excluding Hospital IPPS) improper payment rate calculation. Examples of providers, facilities, and suppliers that bill using these formats include hospitals, skilled nursing facilities, home health and hospice providers, renal dialysis facilities, comprehensive outpatient rehabilitation facilities, rural health clinics, and federally qualified health centers. These institutional claims may include professional services that may be paid under Part A or Part B, yet are ultimately included in the CERT Part A (Excluding Hospital IPPS) improper payment rate measurement because they are submitted on the ASC X12 837 or UB-04.

Improper payment drivers are service types or provider types that make up the largest proportions of the overall CERT improper payments. For the 2023 reporting period, the Medicare FFS improper payment drivers are: Skilled Nursing Facilities, Hospital Outpatient, Inpatient Rehabilitation Facilities, and Hospice. The following figure and tables will provide additional information about the improper payment drivers. Root causes associated with fewer than 5 sampled claims are excluded in Tables 1 through 13.





Improper Payment Drivers by Provider Type

#### **Skilled Nursing Facility**

Skilled nursing facilities (SNF) is defined as all services with a provider type of SNF, including SNF inpatient, SNF outpatient, and SNF inpatient Part B. The projected improper payment amount for SNF services during the 2023 report period was \$4.8 billion, resulting in an improper payment rate of 13.8 percent.

| <b>Root Cause Description</b>   | Error Category             | Sample Claim<br>Count <sup>6</sup> |
|---|----------------------------|------------------------------------|
| HIPPS level changed based on documentation submitted*                         | Insufficient Documentation | 195                                |
| Case Mix Group (CMG) component<br>documentation - Missing                     | Insufficient Documentation | 147                                |
| Physician's Certification/Recertification -<br>Inadequate                     | Insufficient Documentation | 85                                 |
| Order - Missing   | Insufficient Documentation | 74                                 |
| Nursing home records - Missing  | Insufficient Documentation | 62                                 |
| Signature log to support a clear identity of an illegible signature - Missing | Insufficient Documentation | 51                                 |
| Physician's Certification/Recertification -<br>Missing                        | Insufficient Documentation | 39                                 |
| Order - Inadequate  | Insufficient Documentation | 36                                 |
| Physical/Occupational/Speech Therapy - Plan<br>of care - Missing              | Insufficient Documentation | 26                                 |
| HIPPS/RUG level in the repository does not<br>match the RUG level billed      | Other                      | 18                                 |

#### Table 1: Top Root Causes for Skilled Nursing Facility

<sup>&</sup>lt;sup>6</sup> The root cause and error category with the highest sample claim count in Tables 1 through 4 may not correspond with the top error category of improper payments for the drivers in Figure 4.

#### **Hospital Outpatient**

Hospital Outpatient services is defined as all services billed with type of bill 12x through 19x (e.g., Hospital OPPS, Laboratory, and Others). The projected improper payment amount for Hospital Outpatient services during the 2023 report period was \$4.0 billion, resulting in an improper payment rate of 5.2 percent.

| Root Cause Description   | Error Category             | Sample Claim<br>Count |
|--|----------------------------|-----------------------|
| Provider's intent to order (for certain services) -<br>Missing   | Insufficient Documentation | 71                    |
| Order - Missing  | Insufficient Documentation | 59                    |
| Order - Inadequate   | Insufficient Documentation | 53                    |
| Documentation to support medical necessity -<br>Missing  | Insufficient Documentation | 45                    |
| Documentation for the billed date of service-<br>Missing   | Insufficient Documentation | 33                    |
| NCD requirement(s), other documentation<br>required for payment - Missing  | Insufficient Documentation | 31                    |
| Documentation to support the laboratory<br>completed a majority of COVID testing (during<br>the prior calendar month) in 2 calendar days or<br>less from when the specimen was collected –<br>Missing* | Insufficient Documentation | 26                    |
| Result of the diagnostic or laboratory test -<br>Missing   | Insufficient Documentation | 20                    |
| Documentation for the associated diagnostic lab<br>test(s) - Inadequate  | Insufficient Documentation | 18                    |
| Service code billed is changed to the service<br>provided and/or ordered*  | Incorrect Coding           | 16                    |

#### Table 2: Top Root Causes for Hospital Outpatient

#### **Inpatient Rehabilitation Facilities**

Inpatient Rehabilitation Facilities (IRF) is defined as all services with a provider type of Inpatient Rehabilitation Hospitals or Inpatient Rehab Unit. The projected improper payment amount for IRF services during the 2023 report period was \$1.9 billion, resulting in an improper payment rate of 27.3 percent.

#### Table 3: Top Root Causes for Inpatient Rehabilitation Facilities

| Root Cause Description  | Error Category    | Sample Claim<br>Count |
|---|-------------------|-----------------------|
| Documentation does not support medical necessity for the service or item billed | Medical Necessity | 157                   |

#### Hospice

Hospice services is defined as all services with a provider type of Hospice, including Hospital Based Hospice and Non-Hospital Based Hospice. The projected improper payment amount for Hospice during the 2023 report period was \$1.3 billion, resulting in an improper payment rate of 5.4 percent.

| Table 4: To | op Root Cause | es for Hospice |
|-------------|---------------|----------------|
|-------------|---------------|----------------|

| Root Cause Description  | Error Category             | Sample Claim<br>Count |  |  |
|---|----------------------------|-----------------------|--|--|
| Service intensity add-on (SIA) services documentation –<br>Missing*                                     | Insufficient Documentation | 27                    |  |  |
| Physician's Certification/Recertification - Inadequate  | Insufficient Documentation | 19                    |  |  |
| Units of service (UOS) incorrectly coded – Downcode*  | Incorrect Coding           | 10                    |  |  |
| Units of service (UOS) incorrectly coded – Upcode*  | Incorrect Coding           | 10                    |  |  |
| Beneficiary election form - Inadequate  | Insufficient Documentation | 8                     |  |  |
| Physician certification was signed and dated after the claim was submitted                              | Other                      | 6                     |  |  |
| Face to face documentation - Inadequate   | Insufficient Documentation | 5                     |  |  |
| Face to face documentation - Missing  | Insufficient Documentation | 5                     |  |  |
| Note: Root causes frequently associated with partial improper payments are identified with an asterisk. |                            |                       |  |  |

## Part B

The following tables show the top root causes of improper payments for the three service types in Part B with the highest projected improper payments.

| Table 5: To | p Root | Causes for | <b>Office</b> | visits - | established |
|-------------|--------|------------|---------------|----------|-------------|
|-------------|--------|------------|---------------|----------|-------------|

| Root Cause Description  | Error Category             | Sample Claim<br>Count |  |  |
|---|----------------------------|-----------------------|--|--|
| Documentation supports lower level of E/M service than what was billed*                                 | Incorrect Coding           | 123                   |  |  |
| Documentation supports higher level of E/M service than what was billed*                                | Incorrect Coding           | 18                    |  |  |
| Documentation for the billed date of service -<br>Inadequate  | Insufficient Documentation | 11                    |  |  |
| Attestation for unsigned documentation - Missing  | Insufficient Documentation | 6                     |  |  |
| Documentation for the billed date of service-<br>Missing  | Insufficient Documentation | 5                     |  |  |
| Note: Root causes frequently associated with partial improper payments are identified with an asterisk. |                            |                       |  |  |

#### Table 6: Top Root Causes for Lab tests - other (non-Medicare fee schedule)

| Root Cause Description  | Error Category             | Sample Claim<br>Count |
|---|----------------------------|-----------------------|
| Provider's intent to order (for certain services) -<br>Missing            | Insufficient Documentation | 145                   |
| Documentation to support medical necessity -<br>Missing                   | Insufficient Documentation | 112                   |
| Order - Inadequate  | Insufficient Documentation | 100                   |
| Risk assessment for urine drug screen - Missing                           | Insufficient Documentation | 86                    |
| Documentation to support frequency of billing -<br>Missing                | Insufficient Documentation | 74                    |
| Result of the diagnostic or laboratory test -<br>Missing                  | Insufficient Documentation | 63                    |
| Level of risk for urine drug screen - Missing                             | Insufficient Documentation | 61                    |
| Order - Missing   | Insufficient Documentation | 57                    |
| LCD/LCA requirements, other documentation required for payment - Missing  | Insufficient Documentation | 40                    |
| NCD requirement(s), other documentation<br>required for payment - Missing | Insufficient Documentation | 31                    |

| <b>Root Cause Description</b>  | Root Cause Description Error Category |    |
|--|---------------------------------------|----|
| Physical/Occupational/Speech Therapy -<br>Certification/Recertification - Missing  | Insufficient Documentation            | 40 |
| Physical/Occupational/Speech Therapy - Plan of care - Missing  | Insufficient Documentation            | 18 |
| Documentation does not support medical necessity for the service or item billed  | Medical Necessity                     | 14 |
| Physical/Occupational/Speech Therapy - Required<br>progress report, performed at least once every 10<br>treatment days - Missing | Insufficient Documentation            | 12 |
| Units of service (UOS) incorrectly coded –<br>Upcode*  | Incorrect Coding                      | 12 |
| Physical/Occupational/Speech Therapy - Reason<br>for the delayed physician<br>certification/recertification - Missing            | Insufficient Documentation            | 11 |
| LCD/LCA requirements, other documentation required for payment - Inadequate  | Insufficient Documentation            | 11 |
| LCD/LCA requirements, other documentation required for payment - Missing   | Insufficient Documentation            | 11 |
| Documentation to support medical necessity -<br>Missing  | Insufficient Documentation            | 10 |
| Attestation for unsigned documentation - Missing   | Insufficient Documentation            | 10 |

 Table 7: Top Root Causes for Minor procedures - other (Medicare fee schedule)

# **DMEPOS**

The following tables show the top root causes of improper payments for the three service types in DME with the highest projected improper payments.

| Root Cause Description   | ot Cause Description Error Category   |              |  |  |
|--|---------------------------------------|--------------|--|--|
| Wound management documentation - Inadequate  | Insufficient Documentation            | 94           |  |  |
| Order - Missing  | Insufficient Documentation            | 18           |  |  |
| Units of service (UOS) ordered does not support<br>the units of service (UOS) provided and billed* | Insufficient Documentation            | 17           |  |  |
| Order - Inadequate   | Insufficient Documentation            | 16           |  |  |
| Wound management documentation - Missing   | Insufficient Documentation            | 14           |  |  |
| Units of service (UOS) incorrectly coded –<br>Downcode*  | Incorrect Coding                      | 11           |  |  |
| Proof of delivery - Missing  | Insufficient Documentation            | 9            |  |  |
| Refill request - Missing   | Insufficient Documentation            | 9            |  |  |
| Proof of delivery - Inadequate   | Insufficient Documentation            | 8            |  |  |
| Submitted order not written by provider listed on the claim as ordering/referring provider         | Other                                 | 8            |  |  |
| Note: Root causes frequently associated with partial   | improper payments are identified with | an asterisk. |  |  |

#### **Table 9: Top Root Causes for CPAP**

| Root Cause Description   | Error Category             | Sample Claim<br>Count |
|--|----------------------------|-----------------------|
| Documentation to support continued medical need<br>- Missing                               | Insufficient Documentation | 57                    |
| Proof of delivery - Inadequate   | Insufficient Documentation | 38                    |
| Refill request - Missing   | Insufficient Documentation | 32                    |
| Submitted order not written by provider listed on the claim as ordering/referring provider | Other                      | 22                    |
| Order - Missing  | Insufficient Documentation | 21                    |
| Order - Inadequate   | Insufficient Documentation | 20                    |
| Refill request - Inadequate  | Insufficient Documentation | 17                    |
| The date of delivery was not supported by the submitted documentation                      | Other                      | 9                     |
| Proof of delivery - Missing  | Insufficient Documentation | 7                     |

#### Table 10: Top Root Causes for Ventilators

| Root Cause Description   | Error Category             | Sample Claim<br>Count |
|--|----------------------------|-----------------------|
| Documentation to support continued medical need<br>- Missing                               | Insufficient Documentation | 20                    |
| Submitted order not written by provider listed on the claim as ordering/referring provider | Other                      | 13                    |

# **Part A (Excluding Hospital IPPS)**

The provider types in Part A (Excluding Hospital IPPS) with the highest projected improper are also the top overall improper payment drivers. Please refer to Tables 1-4 for the top root causes of improper payments for Part A (Excluding Hospital IPPS) provider types.

# **Part A (Hospital IPPS)**

The following tables show the top root causes of improper payments for the three service types in Part A (Hospital IPPS) with the highest projected improper payments.

### Table 11: Top Root Causes for Major Hip And Knee Joint Replacement Or Reattachment Of Lower Extremity (469, 470)

| Root Cause Description  | Root Cause Description Error Category |     |  |  |  |
|---|---------------------------------------|-----|--|--|--|
| Inpatient admission not medically necessary and<br>the invasive procedure should have been billed as<br>an outpatient procedure | Medical Necessity                     | 174 |  |  |  |
| Discharge status incorrectly coded*   | Incorrect Coding                      | 14  |  |  |  |
| Documentation to support medical necessity for<br>the procedure – Missing*  | Insufficient Documentation            | 11  |  |  |  |
| Radiographs to support medical necessity for the<br>billed surgical procedure(s) - Missing                                      | Insufficient Documentation            | 6   |  |  |  |
| Note: Root causes frequently associated with partial improper payments are identified with an asterisk.                         |                                       |     |  |  |  |

#### Table 12: Top Root Causes for Percutaneous Intracardiac Procedures (273, 274)

| Root Cause Description  | Error Category             | Sample Claim<br>Count |  |  |  |
|---|----------------------------|-----------------------|--|--|--|
| NCD requirement(s), other documentation<br>required for payment - Missing                               | Insufficient Documentation | 34                    |  |  |  |
| Discharge status incorrectly coded*   | Incorrect Coding           | 6                     |  |  |  |
| NCD requirement(s), other documentation<br>required for payment - Inadequate                            | 5                          |                       |  |  |  |
| Note: Root causes frequently associated with partial improper payments are identified with an asterisk. |                            |                       |  |  |  |

### Table 13: Top Root Causes for Endovascular Cardiac Valve Replacement & Supplement Procedures (266, 267)

| Root Cause Description  | Error Category             | Sample Claim<br>Count |  |  |  |
|---|----------------------------|-----------------------|--|--|--|
| Preoperative surgeon's office notes - Missing   | Insufficient Documentation | 22                    |  |  |  |
| Documentation to support medical necessity for<br>the procedure – Missing*                              | Insufficient Documentation | 21                    |  |  |  |
| Discharge status incorrectly coded*   | Incorrect Coding           | 15                    |  |  |  |
| Procedure not medically necessary*  | 5                          |                       |  |  |  |
| Note: Root causes frequently associated with partial improper payments are identified with an asterisk. |                            |                       |  |  |  |

#### SUPPLEMENTAL STATISTICAL REPORTING

### Appendix A: Summary of Projected Improper Payments Adjusted for A/B Rebill<sup>7</sup>

Table A1: 2023 Improper Payment Rates and Projected Improper Payments by Claim Type (Dollars in Billions) (Adjusted for Impact of A/B Rebilling)

| Claim Type                          | Claims<br>Sampled | Claims<br>Reviewed | Total<br>Payments | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95%<br>Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|-------------------------------------|-------------------|--------------------|-------------------|-----------------------------------|-----------------------------|-------------------------------|---|
| Part A (Total)                      | 24,599            | 17,259             | \$304.8           | \$18.3                            | 6.0%                        | 5.4% - 6.6%                   | 58.6%   |
| Part A (Excluding<br>Hospital IPPS) | 9,736             | 8,506              | \$183.4           | \$14.2                            | 7.8%                        | 6.8% - 8.7%                   | 45.5%   |
| Part A (Hospital IPPS)              | 14,863            | 8,753              | \$121.4           | \$4.1                             | 3.4%                        | 3.0% - 3.8%                   | 13.1%   |
| Part B                              | 12,303            | 12,001             | \$109.6           | \$11.0                            | 10.0%                       | 8.6% - 11.5%                  | 35.2%   |
| DMEPOS                              | 8,408             | 8,248              | \$8.7             | \$1.9                             | 22.5%                       | 20.5% - 24.5%                 | 6.2%  |
| Total                               | 45,310            | 37,508             | \$423.0           | \$31.2                            | 7.4%                        | 6.8% - 7.9%                   | 100.0%  |

### Table A2: Comparison of 2022 and 2023 Overall Improper Payment Rates by Error Category (Adjusted for Impact of A/B Rebilling)

|                               | 2022    |         |                                   | 2023                 |        |        |
|-------------------------------|---------|---------|-----------------------------------|----------------------|--------|--------|
| Error Category                | Overall | Overall | Part A Excluding<br>Hospital IPPS | Part A Hospital IPPS | Part B | DMEPOS |
| No Documentation              | 0.3%    | 0.3%    | 0.1%                              | 0.0%                 | 0.1%   | 0.1%   |
| Insufficient<br>Documentation | 4.7%    | 4.6%    | 2.3%                              | 0.3%                 | 1.8%   | 0.3%   |
| Medical Necessity             | 1.0%    | 1.1%    | 0.6%                              | 0.4%                 | 0.1%   | 0.0%   |
| Incorrect Coding              | 0.8%    | 0.9%    | 0.1%                              | 0.2%                 | 0.5%   | 0.0%   |
| Other                         | 0.6%    | 0.5%    | 0.3%                              | 0.0%                 | 0.1%   | 0.1%   |
| Total                         | 7.5%    | 7.4%    | 3.4%                              | 1.0%                 | 2.6%   | 0.5%   |

<sup>&</sup>lt;sup>7</sup> Adjusted for Medicare Part A to B rebilling of denied inpatient hospital claims.

### Table A3: Improper Payment Rate Categories by Percentage of 2023 Overall Improper Payments (Adjusted for Impact of A/B Rebilling)

| Error Category                | Percent of Overall Improper<br>Payments |
|-------------------------------|---|
| No Documentation              | 3.7%                                    |
| Insufficient<br>Documentation | 62.8%                                   |
| Medical Necessity             | 15.0%                                   |
| Incorrect Coding              | 11.6%                                   |
| Other                         | 6.9%                                    |
| Total                         | 100.0%                                  |

### Table A4: Improper Payment Rates and Projected Improper Payments by Claim Type and Over/Under Payments (Dollars in Billions) (Adjusted for Impact of A/B Rebilling)

|  | Overall Improper Payments |                                   | s Overpayments              |                                   | Underpayments               |                                   |                             |
|--|---------------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|
| Claim Type                             | Total<br>Amount Paid      | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate |
| Part A (Total)                         | \$304.8                   | \$18.3                            | 6.0%                        | \$17.5                            | 5.8%                        | \$0.7                             | 0.2%                        |
| Part A<br>(Excluding<br>Hospital IPPS) | \$183.4                   | \$14.2                            | 7.8%                        | \$13.9                            | 7.6%                        | \$0.3                             | 0.2%                        |
| Part A (Hospital<br>IPPS)              | \$121.4                   | \$4.1                             | 3.4%                        | \$3.7                             | 3.0%                        | \$0.4                             | 0.3%                        |
| Part B                                 | \$109.6                   | \$11.0                            | 10.0%                       | \$10.7                            | 9.8%                        | \$0.3                             | 0.2%                        |
| DMEPOS                                 | \$8.7                     | \$1.9                             | 22.5%                       | \$1.9                             | 22.5%                       | \$0.0                             | 0.0%                        |
| Total                                  | \$423.0                   | \$31.2                            | 7.4%                        | \$30.2                            | 7.1%                        | \$1.0                             | 0.2%                        |

### Table A5: 2023 Projected Improper Payments by Type of Error and Clinical Setting(Dollars in Billions) (Adjusted for Impact of A/B Rebilling)

| Error Category                | DMEPOS | Home<br>Health<br>Agencies | Hospital<br>Outpatient<br>Departments | Acute<br>Inpatient<br>Hospitals | Physician<br>Services<br>(All<br>Settings) | Skilled<br>Nursing<br>Facilities | Other<br>Clinical<br>Settings | Overall |
|-------------------------------|--------|----------------------------|---------------------------------------|---------------------------------|--|----------------------------------|-------------------------------|---------|
| No Documentation              | \$0.3  | \$0.0                      | \$0.2                                 | \$0.1                           | \$0.4                                      | \$0.0                            | \$0.1                         | \$1.2   |
| Insufficient<br>Documentation | \$1.1  | \$0.5                      | \$5.2                                 | \$1.4                           | \$5.6                                      | \$3.8                            | \$2.0                         | \$19.6  |
| Medical Necessity             | \$0.1  | \$0.6                      | \$0.1                                 | \$3.5                           | \$0.0                                      | \$0.0                            | \$0.3                         | \$4.7   |
| Incorrect Coding              | \$0.0  | \$0.0                      | \$0.5                                 | \$0.9                           | \$1.8                                      | \$0.1                            | \$0.3                         | \$3.6   |
| Other                         | \$0.4  | \$0.1                      | \$0.1                                 | \$0.0                           | \$0.4                                      | \$0.9                            | \$0.1                         | \$2.1   |
| Total                         | \$1.9  | \$1.3                      | \$6.1                                 | \$6.0                           | \$8.3                                      | \$4.8                            | \$2.8                         | \$31.2  |

|                   | Year and Rate<br>e (Net/Gross) | No Dog Errors |      | Medical<br>Necessity<br>Errors | Incorrect<br>Coding<br>Errors | Other<br>Errors | Improper<br>Payment<br>Rate | Correct<br>Payment<br>Rate |
|-------------------|--------------------------------|---------------|------|--------------------------------|-------------------------------|-----------------|-----------------------------|----------------------------|
| 1996 <sup>9</sup> | Net                            | 1.9%          | 4.5% | 5.1%                           | 1.2%                          | 1.1%            | 13.8%                       | 86.2%                      |
| 1997              | Net                            | 2.1%          | 2.9% | 4.2%                           | 1.7%                          | 0.5%            | 11.4%                       | 88.6%                      |
| 1998              | Net                            | 0.4%          | 0.8% | 3.9%                           | 1.3%                          | 0.7%            | 7.1%                        | 92.9%                      |
| 1999              | Net                            | 0.6%          | 2.6% | 2.6%                           | 1.3%                          | 0.9%            | 8.0%                        | 92.0%                      |
| 2000              | Net                            | 1.2%          | 1.3% | 2.9%                           | 1.0%                          | 0.4%            | 6.8%                        | 93.2%                      |
| 2001              | Net                            | 0.8%          | 1.9% | 2.7%                           | 1.1%                          | -0.2%           | 6.3%                        | 93.7%                      |
| 2002              | Net                            | 0.5%          | 1.3% | 3.6%                           | 0.9%                          | 0.0%            | 6.3%                        | 93.7%                      |
| 2003              | Net                            | 5.4%          | 2.5% | 1.1%                           | 0.7%                          | 0.1%            | 9.8%                        | 90.2%                      |
| 200410            | Gross                          | 3.1%          | 4.1% | 1.6%                           | 1.2%                          | 0.2%            | 10.1%                       | 89.9%                      |
| 2005              | Gross                          | 0.7%          | 1.1% | 1.6%                           | 1.5%                          | 0.2%            | 5.2%                        | 94.8%                      |
| 2006              | Gross                          | 0.6%          | 0.6% | 1.4%                           | 1.6%                          | 0.2%            | 4.4%                        | 95.6%                      |
| 2007              | Gross                          | 0.6%          | 0.4% | 1.3%                           | 1.5%                          | 0.2%            | 3.9%                        | 96.1%                      |
| 2008              | Gross                          | 0.2%          | 0.6% | 1.4%                           | 1.3%                          | 0.1%            | 3.6%                        | 96.4%                      |
| 2009              | Gross                          | 0.2%          | 4.3% | 6.3%                           | 1.5%                          | 0.1%            | 12.4%                       | 87.6%                      |
| 2010              | Gross                          | 0.1%          | 4.6% | 4.2%                           | 1.6%                          | 0.1%            | 10.5%                       | 89.5%                      |
| 201111            | Gross                          | 0.2%          | 4.3% | 3.0%                           | 1.0%                          | 0.1%            | 8.6%                        | 91.4%                      |
| 201212            | Gross                          | 0.2%          | 5.0% | 1.9%                           | 1.3%                          | 0.1%            | 8.5%                        | 91.5%                      |
| 2013              | Gross                          | 0.2%          | 6.1% | 2.2%                           | 1.5%                          | 0.2%            | 10.1%                       | 89.9%                      |
| 2014              | Gross                          | 0.1%          | 8.2% | 2.7%                           | 1.6%                          | 0.2%            | 12.7%                       | 87.3%                      |
| 2015              | Gross                          | 0.2%          | 8.1% | 2.1%                           | 1.3%                          | 0.4%            | 12.09%                      | 87.91%                     |
| 2016              | Gross                          | 0.1%          | 7.2% | 2.2%                           | 1.1%                          | 0.4%            | 11.00%                      | 89.00%                     |
| 2017              | Gross                          | 0.2%          | 6.1% | 1.7%                           | 1.2%                          | 0.3%            | 9.51%                       | 90.49%                     |
| 2018              | Gross                          | 0.2%          | 4.7% | 1.7%                           | 1.0%                          | 0.5%            | 8.12%                       | 91.88%                     |
| 2019              | Gross                          | 0.1%          | 4.3% | 1.4%                           | 1.0%                          | 0.4%            | 7.25%                       | 92.75%                     |
| 2020              | Gross                          | 0.3%          | 4.0% | 1.0%                           | 0.7%                          | 0.3%            | 6.27%                       | 93.73%                     |
| 2021              | Gross                          | 0.3%          | 4.0% | 0.8%                           | 0.7%                          | 0.4%            | 6.26%                       | 93.74%                     |
| 2022              | Gross                          | 0.3%          | 4.7% | 1.0%                           | 0.8%                          | 0.6%            | 7.46%                       | 92.54%                     |
| 2023              | Gross                          | 0.3%          | 4.6% | 1.1%                           | 0.9%                          | 0.5%            | 7.38%                       | 92.62%                     |

Table A6: Summary of National Improper Payment Rates by Year and by Error Category (Adjusted for Impact of A/B Rebilling)<sup>8</sup>

<sup>&</sup>lt;sup>8</sup> For purposes of this report, correct payments are considered total Medicare FFS payments minus payments considered an improper payment as identified through CERT. Please note that instances of fraud or other problems not discerned during the CERT review could still be present.
<sup>9</sup> FY 1996-2003 Improper payments were calculated as Overpayments - Underpayments

<sup>&</sup>lt;sup>10</sup> FY 2004-2023 Improper payments were calculated as Overpayments + Underpayments

<sup>&</sup>lt;sup>11</sup> The FY 2011 improper payment rate reported in this table is adjusted for the prospective impact of late appeals and documentation.

<sup>&</sup>lt;sup>12</sup> The FY 2012-2023 improper payment rates reported in this table are adjusted for the impact of denied Part A inpatient claims under Part B.

 Table A7: 2023 Improper Payment Rates and Projected Improper Payments by Claim

 Type (Dollars in Billions) (Adjusted for Impact of A/B Rebilling)

| Claim Type                                       | Claims<br>Reviewed | Total<br>Payments | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95%<br>Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-------------------|-----------------------------------|-----------------------------|-------------------------------|---|
| DMEPOS   | 8,248              | \$8.7             | \$1.9                             | 22.5%                       | 20.5% - 24.5%                 | 6.2%  |
| Home Health & Hospice                            | 2,099              | \$40.2            | \$2.5                             | 6.3%                        | 5.1% - 7.6%                   | 8.2%  |
| Parts A & B (Excluding<br>Home Health & Hospice) | 27,161             | \$374.1           | \$26.7                            | 7.1%                        | 6.5% - 7.8%                   | 85.6%   |
| Total  | 37,508             | \$423.0           | \$31.2                            | 7.4%                        | 6.8% - 7.9%                   | 100.0%  |

### **Appendix B: Summary of Projected Improper Payments Unadjusted for A/B Rebill**

# Table B1: 2023 Improper Payment Rates and Projected Improper Payments by Claim Type (Dollars in Billions) (Unadjusted for Impact of A/B Rebilling)

| Claim Type                          | Claims<br>Sampled | Claims<br>Reviewed | Total<br>Payments | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95%<br>Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|-------------------------------------|-------------------|--------------------|-------------------|-----------------------------------|-----------------------------|-------------------------------|---|
| Part A (Total)                      | 24,599            | 17,259             | \$304.8           | \$19.3                            | 6.3%                        | 5.7% - 6.9%                   | 59.8%   |
| Part A (Excluding<br>Hospital IPPS) | 9,736             | 8,506              | \$183.4           | \$14.2                            | 7.8%                        | 6.8% - 8.7%                   | 44.1%   |
| Part A (Hospital IPPS)              | 14,863            | 8,753              | \$121.4           | \$5.0                             | 4.2%                        | 3.7% - 4.6%                   | 15.7%   |
| Part B                              | 12,303            | 12,001             | \$109.6           | \$11.0                            | 10.0%                       | 8.6% - 11.5%                  | 34.1%   |
| DMEPOS                              | 8,408             | 8,248              | \$8.7             | \$1.9                             | 22.5%                       | 20.5% - 24.5%                 | 6.0%  |
| Total                               | 45,310            | 37,508             | \$423.0           | \$32.2                            | 7.6%                        | 7.0% - 8.2%                   | 100.0%  |

### Table B2: Comparison of 2022 and 2023 Overall Improper Payment Rates by Error Category (Unadjusted for Impact of A/B Rebilling)

|                               |         | 8/      |                                   |                         |        |        |
|-------------------------------|---------|---------|-----------------------------------|-------------------------|--------|--------|
|                               | 2022    |         |                                   | 2023                    |        |        |
| Error Category                | Overall | Overall | Part A Excluding<br>Hospital IPPS | Part A Hospital<br>IPPS | Part B | DMEPOS |
| No Documentation              | 0.3%    | 0.3%    | 0.1%                              | 0.0%                    | 0.1%   | 0.1%   |
| Insufficient<br>Documentation | 4.7%    | 4.6%    | 2.3%                              | 0.3%                    | 1.8%   | 0.3%   |
| Medical Necessity             | 1.2%    | 1.3%    | 0.6%                              | 0.6%                    | 0.1%   | 0.0%   |
| Incorrect Coding              | 0.8%    | 0.9%    | 0.1%                              | 0.2%                    | 0.5%   | 0.0%   |
| Other                         | 0.6%    | 0.5%    | 0.3%                              | 0.0%                    | 0.1%   | 0.1%   |
| Total                         | 7.6%    | 7.6%    | 3.4%                              | 1.2%                    | 2.6%   | 0.5%   |

# Table B3: Improper Payment Rate Categories by Percentage of 2023 Overall Improper Payments (Unadjusted for Impact of A/B Rebilling)

| Error Category                | Percent of Overall Improper<br>Payments |
|-------------------------------|---|
| No Documentation              | 3.6%                                    |
| Insufficient<br>Documentation | 60.9%                                   |
| Medical Necessity             | 17.6%                                   |
| Incorrect Coding              | 11.3%                                   |
| Other                         | 6.7%                                    |
| Total                         | 100.0%                                  |

# Table B4: Improper Payment Rates and Projected Improper Payments by Claim Type and Over/Under Payments (Dollars in Billions) (Unadjusted for Impact of A/B Rebilling)

|  | Overall I            | mproper Payn                      | nents                       | Overpa                            | yments                      | Underpayments                     |                             |  |
|--|----------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|--|
| Claim Type                             | Total Amount<br>Paid | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate |  |
| Part A (Total)                         | \$304.8              | \$19.3                            | 6.3%                        | \$18.5                            | 6.1%                        | \$0.7                             | 0.2%                        |  |
| Part A<br>(Excluding<br>Hospital IPPS) | \$183.4              | \$14.2                            | 7.8%                        | \$13.9                            | 7.6%                        | \$0.3                             | 0.2%                        |  |
| Part A (Hospital<br>IPPS)              | \$121.4              | \$5.0                             | 4.2%                        | \$4.6                             | 3.8%                        | \$0.4                             | 0.3%                        |  |
| Part B                                 | \$109.6              | \$11.0                            | 10.0%                       | \$10.7                            | 9.8%                        | \$0.3                             | 0.2%                        |  |
| DMEPOS                                 | \$8.7                | \$1.9                             | 22.5%                       | \$1.9                             | 22.5%                       | \$0.0                             | 0.0%                        |  |
| Total                                  | \$423.0              | \$32.2                            | 7.6%                        | \$31.2                            | 7.4%                        | \$1.0                             | 0.2%                        |  |

### Table B5: 2023 Projected Improper Payments by Type of Error and Clinical Setting(Dollars in Billions) (Unadjusted for Impact of A/B Rebilling)

| Error Category                | DMEPOS | Home<br>Health<br>Agencies | Hospital<br>Outpatient<br>Departments | Acute<br>Inpatient<br>Hospitals | Physician<br>Services<br>(All<br>Settings) | Skilled<br>Nursing<br>Facilities | Other<br>Clinical<br>Settings | Overall |
|-------------------------------|--------|----------------------------|---------------------------------------|---------------------------------|--|----------------------------------|-------------------------------|---------|
| No Documentation              | \$0.3  | \$0.0                      | \$0.2                                 | \$0.1                           | \$0.4                                      | \$0.0                            | \$0.1                         | \$1.2   |
| Insufficient<br>Documentation | \$1.1  | \$0.5                      | \$5.2                                 | \$1.4                           | \$5.6                                      | \$3.8                            | \$2.0                         | \$19.6  |
| Medical Necessity             | \$0.2  | \$0.6                      | \$0.2                                 | \$4.5                           | \$0.0                                      | \$0.0                            | \$0.3                         | \$5.7   |
| Incorrect Coding              | \$0.0  | \$0.0                      | \$0.5                                 | \$1.0                           | \$1.8                                      | \$0.1                            | \$0.3                         | \$3.6   |
| Other                         | \$0.4  | \$0.1                      | \$0.2                                 | \$0.1                           | \$0.4                                      | \$0.9                            | \$0.1                         | \$2.1   |
| Total                         | \$2.0  | \$1.3                      | \$6.1                                 | \$7.0                           | \$8.3                                      | \$4.8                            | \$2.8                         | \$32.2  |

| Fiscal             | Year and Rate Type<br>(Net/Gross) | No Doc<br>Errors | Insufficient<br>Document<br>Errors | Medical<br>Necessity<br>Errors | Incorrect<br>Coding<br>Errors | Other<br>Errors | Improper<br>Payment<br>Rate | Correct<br>Payment<br>Rate |
|--------------------|-----------------------------------|------------------|------------------------------------|--------------------------------|-------------------------------|-----------------|-----------------------------|----------------------------|
| 1996 <sup>14</sup> | Net                               | 1.9%             | 4.5%                               | 5.1%                           | 1.2%                          | 1.1%            | 13.8%                       | 86.2%                      |
| 1997               | Net                               | 2.1%             | 2.9%                               | 4.2%                           | 1.7%                          | 0.5%            | 11.4%                       | 88.6%                      |
| 1998               | Net                               | 0.4%             | 0.8%                               | 3.9%                           | 1.3%                          | 0.7%            | 7.1%                        | 92.9%                      |
| 1999               | Net                               | 0.6%             | 2.6%                               | 2.6%                           | 1.3%                          | 0.9%            | 8.0%                        | 92.0%                      |
| 2000               | Net                               | 1.2%             | 1.3%                               | 2.9%                           | 1.0%                          | 0.4%            | 6.8%                        | 93.2%                      |
| 2001               | Net                               | 0.8%             | 1.9%                               | 2.7%                           | 1.1%                          | -0.2%           | 6.3%                        | 93.7%                      |
| 2002               | Net                               | 0.5%             | 1.3%                               | 3.6%                           | 0.9%                          | 0.0%            | 6.3%                        | 93.7%                      |
| 2003               | Net                               | 5.4%             | 2.5%                               | 1.1%                           | 0.7%                          | 0.1%            | 9.8%                        | 90.2%                      |
| 200415             | Gross                             | 3.1%             | 4.1%                               | 1.6%                           | 1.2%                          | 0.2%            | 10.1%                       | 89.9%                      |
| 2005               | Gross                             | 0.7%             | 1.1%                               | 1.6%                           | 1.5%                          | 0.2%            | 5.2%                        | 94.8%                      |
| 2006               | Gross                             | 0.6%             | 0.6%                               | 1.4%                           | 1.6%                          | 0.2%            | 4.4%                        | 95.6%                      |
| 2007               | Gross                             | 0.6%             | 0.4%                               | 1.3%                           | 1.5%                          | 0.2%            | 3.9%                        | 96.1%                      |
| 2008               | Gross                             | 0.2%             | 0.6%                               | 1.4%                           | 1.3%                          | 0.1%            | 3.6%                        | 96.4%                      |
| 2009               | Gross                             | 0.2%             | 4.3%                               | 6.3%                           | 1.5%                          | 0.1%            | 12.4%                       | 87.6%                      |
| 2010               | Gross                             | 0.1%             | 4.6%                               | 4.2%                           | 1.6%                          | 0.1%            | 10.5%                       | 89.5%                      |
| 2011               | Gross                             | 0.2%             | 5.0%                               | 3.4%                           | 1.2%                          | 0.1%            | 9.9%                        | 90.1%                      |
| 2012               | Gross                             | 0.2%             | 5.0%                               | 2.6%                           | 1.3%                          | 0.1%            | 9.3%                        | 90.7%                      |
| 2013               | Gross                             | 0.2%             | 6.1%                               | 2.8%                           | 1.5%                          | 0.2%            | 10.7%                       | 89.3%                      |
| 2014               | Gross                             | 0.1%             | 8.2%                               | 3.6%                           | 1.6%                          | 0.2%            | 13.6%                       | 86.4%                      |
| 2015               | Gross                             | 0.2%             | 8.2%                               | 2.5%                           | 1.3%                          | 0.4%            | 12.47%                      | 87.53%                     |
| 2016               | Gross                             | 0.1%             | 7.2%                               | 2.4%                           | 1.1%                          | 0.4%            | 11.19%                      | 88.81%                     |
| 2017               | Gross                             | 0.2%             | 6.1%                               | 1.8%                           | 1.2%                          | 0.3%            | 9.64%                       | 90.36%                     |
| 2018               | Gross                             | 0.2%             | 4.7%                               | 1.9%                           | 1.0%                          | 0.5%            | 8.27%                       | 91.73%                     |
| 2019               | Gross                             | 0.1%             | 4.3%                               | 1.6%                           | 1.0%                          | 0.4%            | 7.45%                       | 92.55%                     |
| 2020               | Gross                             | 0.3%             | 4.0%                               | 1.3%                           | 0.7%                          | 0.3%            | 6.56%                       | 93.44%                     |
| 2021               | Gross                             | 0.3%             | 4.0%                               | 1.0%                           | 0.7%                          | 0.4%            | 6.44%                       | 93.56%                     |
| 2022               | Gross                             | 0.3%             | 4.7%                               | 1.2%                           | 0.8%                          | 0.6%            | 7.63%                       | 92.37%                     |
| 2023               | Gross                             | 0.3%             | 4.6%                               | 1.3%                           | 0.9%                          | 0.5%            | 7.61%                       | 92.39%                     |

Table B6: Summary of National Improper Payment Rates by Year and by Error Category (Unadjusted for Impact of A/B Rebilling)<sup>13</sup>

<sup>&</sup>lt;sup>13</sup> For purposes of this report, correct payments are considered total Medicare FFS payments minus payments considered an improper payment as identified through CERT. Please note that instances of fraud or other problems not discerned during the CERT review could still be present. <sup>14</sup> FY 1996-2003 Improper payments were calculated as Overpayments - Underpayments

<sup>&</sup>lt;sup>15</sup> FY 2004-2023 Improper payments were calculated as Overpayments + absolute value of Underpayments

# Table B7: Projected Improper Payments by Length of Stay (Dollars in Billions)(Unadjusted for Impact of A/B Rebilling)

| Part A (Hospital IPPS) Length of Stay | Claims<br>Reviewed | Improper<br>Payment<br>Rate | Projected<br>Improper<br>Payments | Percent of<br>Overall<br>Improper<br>Payments |
|---------------------------------------|--------------------|-----------------------------|-----------------------------------|---|
| Medicare FFS                          | 37,508             | 7.6%                        | \$32.2                            | 100.0%  |
| Overall Part A (Hospital IPPS)        | 8,753              | 4.2%                        | \$5.0                             | 15.7%   |
| 0 or 1 day                            | 1,263              | 21.7%                       | \$1.7                             | 5.1%  |
| 2 days                                | 1,355              | 8.3%                        | \$1.1                             | 3.3%  |
| 3 days                                | 1,176              | 5.7%                        | \$0.8                             | 2.5%  |
| 4 days                                | 1,031              | 3.5%                        | \$0.5                             | 1.4%  |
| 5 days                                | 792                | 2.4%                        | \$0.3                             | 0.8%  |
| More than 5 days                      | 3,136              | 1.3%                        | \$0.8                             | 2.5%  |

All estimates in Tables B8-B11 are based on a minimum of 30 lines in the sample.

# Table B8: Medicare FFS Projected Improper Payments by State (Dollars in Millions) (Unadjusted for Impact of A/B Rebilling)

| State | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|-------|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| FL    | 2,701              | \$3,481.4                         | 10.9%                       | 8.7% - 13.2%               | 10.8%   |
| СА    | 3,979              | \$3,444.9                         | 7.3%                        | 5.4% - 9.1%                | 10.7%   |
| TX    | 2,774              | \$3,016.9                         | 9.5%                        | 6.7% - 12.2%               | 9.4%  |
| PA    | 1,676              | \$1,670.8                         | 10.2%                       | 7.3% - 13.0%               | 5.2%  |
| NY    | 2,074              | \$1,539.8                         | 5.3%                        | 3.9% - 6.6%                | 4.8%  |
| NJ    | 1,074              | \$1,248.0                         | 9.4%                        | 6.6% - 12.2%               | 3.9%  |
| ОН    | 1,412              | \$1,161.4                         | 8.1%                        | 6.1% - 10.1%               | 3.6%  |
| GA    | 992                | \$924.8                           | 8.7%                        | 5.8% - 11.6%               | 2.9%  |
| AL    | 540                | \$907.2                           | 13.9%                       | 1.9% - 25.9%               | 2.8%  |
| NC    | 1,214              | \$896.1                           | 7.3%                        | 5.3% - 9.4%                | 2.8%  |
| TN    | 990                | \$830.8                           | 7.9%                        | 5.6% - 10.2%               | 2.6%  |
| IL    | 1,599              | \$817.4                           | 5.2%                        | 3.7% - 6.6%                | 2.5%  |
| KY    | 588                | \$799.9                           | 12.5%                       | 8.0% - 17.0%               | 2.5%  |
| MD    | 904                | \$718.4                           | 5.6%                        | 3.0% - 8.2%                | 2.2%  |
| VA    | 930                | \$702.6                           | 6.9%                        | 5.0% - 8.8%                | 2.2%  |
| WV    | 258                | \$681.1                           | 23.6%                       | (5.0%) - 52.2%             | 2.1%  |
| AR    | 469                | \$640.8                           | 12.9%                       | 6.4% - 19.4%               | 2.0%  |
| AZ    | 777                | \$628.7                           | 7.6%                        | 5.2% - 9.9%                | 2.0%  |
| LA    | 604                | \$580.7                           | 9.2%                        | 5.4% - 12.9%               | 1.8%  |
| MA    | 1,027              | \$574.8                           | 4.3%                        | 2.2% - 6.3%                | 1.8%  |
| MI    | 1,038              | \$550.9                           | 4.6%                        | 3.1% - 6.1%                | 1.7%  |
| WA    | 705                | \$532.3                           | 6.4%                        | 4.0% - 8.8%                | 1.7%  |
| SC    | 632                | \$507.5                           | 9.1%                        | 5.6% - 12.5%               | 1.6%  |
| IN    | 758                | \$504.3                           | 6.9%                        | 3.4% - 10.5%               | 1.6%  |
| OK    | 539                | \$500.1                           | 9.6%                        | 6.2% - 13.0%               | 1.6%  |
| MS    | 438                | \$371.8                           | 10.1%                       | 5.8% - 14.5%               | 1.2%  |
| NE    | 267                | \$360.3                           | 13.6%                       | 6.4% - 20.8%               | 1.1%  |
| СО    | 532                | \$355.4                           | 5.9%                        | 2.7% - 9.2%                | 1.1%  |
| МО    | 748                | \$351.7                           | 4.4%                        | 2.5% - 6.2%                | 1.1%  |
| NV    | 303                | \$306.2                           | 9.8%                        | 5.8% - 13.9%               | 1.0%  |
| NM    | 184                | \$303.6                           | 18.0%                       | 5.6% - 30.4%               | 0.9%  |
| KS    | 502                | \$283.4                           | 5.2%                        | 2.5% - 7.9%                | 0.9%  |
| OR    | 352                | \$235.1                           | 5.4%                        | 0.4% - 10.4%               | 0.7%  |

| State      | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|------------|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| MN         | 603                | \$210.0                           | 3.0%                        | 1.9% - 4.2%                | 0.7%  |
| WI         | 614                | \$197.7                           | 2.6%                        | 1.4% - 3.7%                | 0.6%  |
| IA         | 441                | \$173.5                           | 3.8%                        | 2.0% - 5.6%                | 0.5%  |
| UT         | 259                | \$160.6                           | 5.1%                        | 1.3% - 8.9%                | 0.5%  |
| ID         | 181                | \$126.6                           | 8.6%                        | 2.6% - 14.5%               | 0.4%  |
| DE         | 172                | \$119.1                           | 5.7%                        | 1.5% - 9.9%                | 0.4%  |
| NH         | 205                | \$112.0                           | 6.1%                        | 2.8% - 9.4%                | 0.4%  |
| СТ         | 312                | \$102.8                           | 2.4%                        | 0.8% - 3.9%                | 0.3%  |
| HI         | 84                 | \$81.9                            | 7.8%                        | (0.0%) - 15.7%             | 0.3%  |
| SD         | 165                | \$80.4                            | 4.4%                        | (0.3%) - 9.0%              | 0.3%  |
| MT         | 144                | \$75.9                            | 7.1%                        | 1.2% - 12.9%               | 0.2%  |
| PR         | 48                 | \$64.9                            | 12.5%                       | 0.3% - 24.7%               | 0.2%  |
| WY         | 86                 | \$52.5                            | 5.4%                        | (2.5%) - 13.4%             | 0.2%  |
| DC         | 83                 | \$51.6                            | 6.1%                        | 1.3% - 10.8%               | 0.2%  |
| ME         | 154                | \$50.5                            | 2.8%                        | 0.7% - 4.9%                | 0.2%  |
| ND         | 129                | \$34.7                            | 2.8%                        | 0.6% - 5.0%                | 0.1%  |
| RI         | 83                 | \$27.5                            | 3.3%                        | (0.1%) - 6.6%              | 0.1%  |
| VT         | 84                 | \$22.0                            | 3.1%                        | (0.4%) - 6.6%              | 0.1%  |
| АК         | 61                 | \$5.3                             | 0.6%                        | (0.2%) - 1.5%              | 0.0%  |
| All States | 37,508             | \$32,200.9                        | 7.6%                        | 7.0% - 8.2%                | 100.0%  |

 Table B9: Medicare FFS Projected Improper Payments by State – Parts A & B (Excluding Home Health and Hospice) (Dollars in Millions) (Unadjusted for Impact of A/B Rebilling)

| State | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|-------|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| FL    | 1,969              | \$2,917.5                         | 10.7%                       | 8.3% - 13.2%               | 9.1%  |
| СА    | 3,023              | \$2,695.2                         | 6.7%                        | 4.6% - 8.7%                | 8.4%  |
| TX    | 1,886              | \$2,551.1                         | 9.3%                        | 6.2% - 12.5%               | 7.9%  |
| РА    | 1,249              | \$1,590.2                         | 10.7%                       | 7.6% - 13.9%               | 4.9%  |
| NY    | 1,578              | \$1,375.3                         | 5.0%                        | 3.6% - 6.4%                | 4.3%  |
| NJ    | 781                | \$1,101.8                         | 9.1%                        | 6.1% - 12.1%               | 3.4%  |
| ОН    | 1,013              | \$990.3                           | 8.2%                        | 6.1% - 10.4%               | 3.1%  |
| AL    | 386                | \$849.3                           | 15.0%                       | 1.2% - 28.8%               | 2.6%  |
| GA    | 747                | \$846.6                           | 9.1%                        | 5.9% - 12.3%               | 2.6%  |
| NC    | 853                | \$811.8                           | 7.7%                        | 5.4% - 10.0%               | 2.5%  |
| TN    | 755                | \$759.4                           | 8.1%                        | 5.6% - 10.7%               | 2.4%  |
| KY    | 405                | \$745.0                           | 12.7%                       | 7.9% - 17.6%               | 2.3%  |
| MD    | 696                | \$681.9                           | 5.5%                        | 2.8% - 8.2%                | 2.1%  |
| IL    | 1,122              | \$671.2                           | 4.9%                        | 3.3% - 6.4%                | 2.1%  |
| WV    | 188                | \$660.4                           | 24.4%                       | (5.8%) - 54.7%             | 2.1%  |
| VA    | 674                | \$656.6                           | 7.1%                        | 5.0% - 9.1%                | 2.0%  |
| AZ    | 585                | \$567.6                           | 7.7%                        | 5.1% - 10.3%               | 1.8%  |
| AR    | 322                | \$538.6                           | 12.6%                       | 5.3% - 19.9%               | 1.7%  |
| LA    | 395                | \$471.6                           | 9.4%                        | 5.0% - 13.8%               | 1.5%  |
| SC    | 447                | \$469.8                           | 9.7%                        | 5.7% - 13.6%               | 1.5%  |
| IN    | 537                | \$465.0                           | 7.1%                        | 3.2% - 11.1%               | 1.4%  |
| МА    | 784                | \$460.7                           | 3.7%                        | 1.7% - 5.7%                | 1.4%  |
| WA    | 517                | \$440.7                           | 5.9%                        | 3.5% - 8.2%                | 1.4%  |
| MI    | 734                | \$405.1                           | 3.8%                        | 2.4% - 5.3%                | 1.3%  |
| ОК    | 366                | \$345.1                           | 7.6%                        | 4.6% - 10.5%               | 1.1%  |
| СО    | 370                | \$320.8                           | 6.0%                        | 2.4% - 9.7%                | 1.0%  |
| МО    | 543                | \$305.3                           | 4.2%                        | 2.2% - 6.2%                | 1.0%  |
| NE    | 177                | \$286.4                           | 12.0%                       | 4.5% - 19.4%               | 0.9%  |
| NM    | 116                | \$284.3                           | 21.1%                       | 6.1% - 36.1%               | 0.9%  |
| KS    | 366                | \$231.8                           | 4.6%                        | 1.9% - 7.4%                | 0.7%  |
| NV    | 232                | \$230.3                           | 8.6%                        | 4.4% - 12.9%               | 0.7%  |
| MS    | 292                | \$228.3                           | 7.2%                        | 3.4% - 11.0%               | 0.7%  |
| OR    | 240                | \$221.5                           | 5.9%                        | 0.2% - 11.7%               | 0.7%  |
| MN    | 441                | \$187.3                           | 3.0%                        | 1.7% - 4.2%                | 0.6%  |
| WI    | 436                | \$163.2                           | 2.3%                        | 1.1% - 3.5%                | 0.5%  |

| State      | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |                |      |
|------------|--------------------|-----------------------------------|-----------------------------|----------------------------|---|----------------|------|
| IA         | 303                | 303 \$162.2 3.8% 1.9% - 5.7%      |                             | 1.9% - 5.7%                | 0.5%  |                |      |
| UT         | 175                | \$141.4                           | 5.3%                        | 0.8% - 9.8%                | 0.4%  |                |      |
| ID         | 122                | \$123.5                           | 11.3%                       | 3.3% - 19.2%               | 0.4%  |                |      |
| DE         | 122                | \$111.5                           | 5.8%                        | 1.3% - 10.3%               | 0.4%  |                |      |
| СТ         | 229                | \$89.7                            | 2.3%                        | 0.6% - 3.9%                | 0.3%  |                |      |
| NH         | 144                | \$81.2                            | 5.5%                        | 2.0% - 9.0%                | 0.3%  |                |      |
| HI         | 70                 |                                   | 8.0% (0.4%) - 16.3%         |                            | 0.2%  |                |      |
| MT         | 104                | \$66.9                            | 6.8%                        | 0.5% - 13.0%               | 0.2%  |                |      |
| SD         | 127                | \$65.8                            | 4.0%                        | (1.1%) - 9.0%              | 0.2%  |                |      |
| PR         | 35 \$              |                                   | 35 \$59                     |                            | 13.8%   | (0.9%) - 28.4% | 0.2% |
| DC         | 60                 | \$51.3                            | 6.5%                        | 1.3% - 11.7%               | 0.2%  |                |      |
| ME         | 111                | \$47.0                            | 3.0%                        | 0.6% - 5.4%                | 0.2%  |                |      |
| ND         | 95                 | \$29.9                            | 2.6%                        | 0.3% - 4.8%                | 0.1%  |                |      |
| RI         | 62                 | \$25.5                            | 3.5%                        | (0.4%) - 7.4%              | 0.1%  |                |      |
| VT         | 62                 | \$18.9                            | 3.1%                        | (0.9%) - 7.2%              | 0.1%  |                |      |
| АК         | 49                 | \$5.2                             | 0.7%                        | (0.2%) - 1.5%              | 0.0%  |                |      |
| WY         | 50                 | \$5.0                             | 0.6%                        | (0.2%) - 1.3%              | 0.0%  |                |      |
| All States | 27,161             | \$27,706.7                        | 7.4%                        | 6.8% - 8.0%                | 86.0%   |                |      |

 Table B10: Medicare FFS Projected Improper Payments by State – DMEPOS Only

 (Dollars in Millions) (Unadjusted for Impact of A/B Rebilling)

| State | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|-------|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| FL    | 575                | \$290.2                           | 37.0%                       | 27.8% - 46.1%              | 0.9%  |
| СА    | 694                | \$137.7                           | 19.0%                       | 14.2% - 23.9%              | 0.4%  |
| ТХ    | 511                | \$126.4                           | 21.6%                       | 15.5% - 27.7%              | 0.4%  |
| MI    | 250                | \$111.3                           | 42.4%                       | 20.7% - 64.0%              | 0.4%  |
| NY    | 447                | \$102.3                           | 26.2%                       | 8.9% - 43.5%               | 0.3%  |
| РА    | 375                | \$78.8                            | 21.5%                       | 10.7% - 32.3%              | 0.2%  |
| IL    | 388                | \$71.9                            | 17.9%                       | 12.9% - 22.9%              | 0.2%  |
| NC    | 301                | \$64.3                            | 21.9%                       | 14.7% - 29.1%              | 0.2%  |
| NJ    | 256                | \$58.1                            | 26.6%                       | 16.4% - 36.8%              | 0.2%  |
| МА    | 196                | \$55.6                            | 23.8%                       | 10.5% - 37.1%              | 0.2%  |
| KY    | 167                | \$54.9                            | 23.4%                       | 12.4% - 34.3%              | 0.2%  |
| TN    | 192                | \$54.1                            | 23.2%                       | 12.5% - 34.0%              | 0.2%  |
| ОН    | 309                | \$51.3                            | 20.9%                       | 14.0% - 27.8%              | 0.2%  |
| LA    | 136                | \$47.1                            | 34.6%                       | 15.7% - 53.5%              | 0.2%  |
| VA    | 212                | \$43.6                            | 20.7%                       | 11.7% - 29.7%              | 0.1%  |
| GA    | 195                | \$39.1                            | 21.1%                       | 5.9% - 36.3%               | 0.1%  |
| IN    | 193                | \$38.2                            | 21.3%                       | 13.9% - 28.7%              | 0.1%  |
| SC    | 162                | \$37.5                            | 19.9%                       | 11.5% - 28.2%              | 0.1%  |
| MS    | 125                | \$35.0                            | 28.0%                       | 14.0% - 42.1%              | 0.1%  |
| AL    | 113                | \$34.1                            | 29.5%                       | 16.0% - 43.0%              | 0.1%  |
| WA    | 159                | \$33.0                            | 18.9%                       | 9.2% - 28.6%               | 0.1%  |
| WI    | 155                | \$31.6                            | 29.7%                       | 17.9% - 41.5%              | 0.1%  |
| AR    | 122                | \$27.7                            | 19.0%                       | 9.4% - 28.6%               | 0.1%  |
| AZ    | 165                | \$27.0                            | 13.1%                       | 5.7% - 20.6%               | 0.1%  |
| МО    | 180                | \$25.8                            | 14.9%                       | 8.0% - 21.9%               | 0.1%  |
| СО    | 141                | \$22.7                            | 14.4%                       | 6.2% - 22.5%               | 0.1%  |
| ОК    | 97                 | \$22.3                            | 18.3%                       | 6.2% - 30.4%               | 0.1%  |
| KS    | 117                | \$21.9                            | 16.8%                       | 7.9% - 25.8%               | 0.1%  |
| MN    | 134                | \$21.5                            | 14.9%                       | 6.5% - 23.2%               | 0.1%  |
| MD    | 193                | \$19.8                            | 12.9%                       | 6.8% - 19.0%               | 0.1%  |
| NE    | 77                 | \$19.6                            | 22.7%                       | 9.7% - 35.6%               | 0.1%  |
| NH    | 50                 | \$16.0                            | 34.7%                       | 16.0% - 53.4%              | 0.1%  |
| UT    | 66                 | \$14.3                            | 19.3%                       | 6.9% - 31.6%               | 0.0%  |
| OR    | 93                 | \$13.6                            | 15.9%                       | 5.7% - 26.0%               | 0.0%  |
| СТ    | 69                 | \$13.2                            | 23.5%                       | 9.5% - 37.5%               | 0.0%  |

| State                                   | ate Claims Improper Pay |           | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|---|-------------------------|-----------|-----------------------------|----------------------------|---|
| NM                                      | 50                      | \$12.4    | 21.5%                       | 7.7% - 35.2%               | 0.0%  |
| WV                                      | 64                      | \$11.8    | 17.0%                       | 5.2% - 28.8%               | 0.0%  |
| IA                                      | 126                     | \$11.4    | 10.5%                       | 4.0% - 17.1%               | 0.0%  |
| DE                                      | 47                      | \$7.5     | 13.5%                       | 1.2% - 25.8%               | 0.0%  |
| MT                                      | 38                      | \$7.5     | 14.9%                       | 0.7% - 29.2%               | 0.0%  |
| SD                                      | 31                      | \$5.1     | 11.2%                       | (2.7%) - 25.1%             | 0.0%  |
| ND                                      | 32                      | \$4.6     | 11.1%                       | (1.3%) - 23.6%             | 0.0%  |
| WY                                      | 33                      | \$4.4     | 12.9%                       | (3.0%) - 28.8%             | 0.0%  |
| ID                                      | 45                      | \$3.1     | 8.0%                        | 0.8% - 15.2%               | 0.0%  |
| ME                                      | 37                      | \$2.0     | 6.1%                        | (1.3%) - 13.4%             | 0.0%  |
| NV                                      | 47                      | \$1.9     | 2.9%                        | (1.7%) - 7.5%              | 0.0%  |
| All States (Incl.<br>States Not Listed) | 8,248                   | \$1,947.5 | 22.5%                       | 20.5% - 24.5%              | 6.1%  |

 Table B11: Medicare FFS Projected Improper Payments by State – Home Health and

 Hospice Only (Dollars in Millions) (Unadjusted for Impact of A/B Rebilling)

| State                                   | Claims |           | Reviewed Improper Paym |                | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |  |  |
|---|--------|-----------|------------------------|----------------|-----------------------------|----------------------------|---|--|--|
| СА                                      | 262    | \$612.0   | 10.1%                  | 5.4% - 14.9%   | 1.9%                        |                            |   |  |  |
| ТХ                                      | 377    | \$339.5   | 8.4%                   | 5.2% - 11.7%   | 1.1%                        |                            |   |  |  |
| FL                                      | 157    | \$273.8   | 7.1%                   | 1.6% - 12.5%   | 0.9%                        |                            |   |  |  |
| OK                                      | 76     | \$132.7   | 24.7%                  | 7.4% - 42.0%   | 0.4%                        |                            |   |  |  |
| ОН                                      | 90     | \$119.8   | 5.8%                   | 0.5% - 11.0%   | 0.4%                        |                            |   |  |  |
| NJ                                      | 37     | \$88.1    | 9.3%                   | (0.5%) - 19.1% | 0.3%                        |                            |   |  |  |
| IL                                      | 89     | \$74.3    | 4.6%                   | (0.2%) - 9.3%  | 0.2%                        |                            |   |  |  |
| NY                                      | 49     | \$62.2    | 5.8%                   | (0.3%) - 11.8% | 0.2%                        |                            |   |  |  |
| LA                                      | 73     | \$62.0    | 5.1%                   | (1.2%) - 11.4% | 0.2%                        |                            |   |  |  |
| MA                                      | 47     | \$58.5    | 6.7%                   | (2.6%) - 15.9% | 0.2%                        |                            |   |  |  |
| GA                                      | 50     | \$39.1    | 3.5%                   | (1.7%) - 8.6%  | 0.1%                        |                            |   |  |  |
| MI                                      | 54     | \$34.5    | 2.7%                   | (0.3%) - 5.7%  | 0.1%                        |                            |   |  |  |
| AL                                      | 41     | \$23.9    | 3.2%                   | (1.3%) - 7.8%  | 0.1%                        |                            |   |  |  |
| NC                                      | 60     | \$19.9    | 1.4%                   | (1.4%) - 4.2%  | 0.1%                        |                            |   |  |  |
| TN                                      | 43     | \$17.3    | 2.0%                   | (0.9%) - 4.8%  | 0.1%                        |                            |   |  |  |
| VA                                      | 44     | \$2.4     | 0.3%                   | (0.3%) - 1.0%  | 0.0%                        |                            |   |  |  |
| РА                                      | 52     | \$1.8     | 0.2%                   | (0.1%) - 0.4%  | 0.0%                        |                            |   |  |  |
| All States (Incl.<br>States Not Listed) | 2,099  | \$2,546.7 | 6.3%                   | 5.1% - 7.6%    | 7.9%                        |                            |   |  |  |

### **Appendix C: Medicare Access and CHIP Reauthorization Act of 2015 Section 517 Reporting**

Table C1: Services Paid under the Physician Fee Schedule (PFS) in which the Fee Schedule Amount is in Excess of \$250 and the Improper Payment Rate is in Excess of 20 Percent

| Service Label                      | PFS Amount | Improper<br>Payment Rate | 95% Confidence<br>Interval |
|------------------------------------|------------|--------------------------|----------------------------|
| Radiation tx delivery imrt (G6015) | \$365.0    | 29.7%                    | 10.2% - 49.1%              |

### **Appendix D: Projected Improper Payments and Type of Error by Type of Service for Each Claim Type**

This series of tables is sorted in descending order by projected improper payments. All estimates in these tables are based on a minimum of 30 lines in the sample. For a full listing of all services with 30 or more claims, see Appendix G.

| Part B Services  | Projected            | Improper        | 95%                    |           | Percentage of Service Type Improper Payments by Type<br>of Error |                      |                     |       | Percent of<br>Overall |
|--|----------------------|-----------------|------------------------|-----------|--|----------------------|---------------------|-------|-----------------------|
| (BETOS Codes)  | Improper<br>Payments | Payment<br>Rate | Confidence<br>Interval | No<br>Doc | Insufficient<br>Doc  | Medical<br>Necessity | Incorrect<br>Coding | Other | Improper<br>Payments  |
| Office visits -<br>established                         | \$1,116,881,372      | 6.4%            | 5.2% - 7.6%            | 9.3%      | 17.3%  | 0.0%                 | 70.7%               | 2.7%  | 3.5%                  |
| Lab tests - other (non-<br>Medicare fee schedule)      | \$1,041,921,347      | 22.9%           | 19.4% - 26.3%          | 1.3%      | 94.1%  | 1.5%                 | 0.2%                | 2.9%  | 3.2%                  |
| Minor procedures -<br>other (Medicare fee<br>schedule) | \$819,762,199        | 15.1%           | 10.8% - 19.3%          | 2.2%      | 74.6%  | 2.6%                 | 2.9%                | 17.7% | 2.5%                  |
| Other drugs  | \$742,347,094        | 6.4%            | (0.9%) - 13.8%         | 1.9%      | 89.6%  | 4.2%                 | 2.3%                | 2.0%  | 2.3%                  |
| Specialist - other                                     | \$725,015,662        | 26.5%           | 20.2% - 32.8%          | 6.1%      | 76.7%  | 0.4%                 | 5.3%                | 11.5% | 2.3%                  |
| Hospital visit -<br>subsequent                         | \$661,117,934        | 12.9%           | 8.1% - 17.7%           | 2.5%      | 53.3%  | 0.0%                 | 39.6%               | 4.6%  | 2.1%                  |
| Hospital visit - initial                               | \$473,599,106        | 22.2%           | 19.4% - 24.9%          | 7.7%      | 25.6%  | 0.0%                 | 62.5%               | 4.2%  | 1.5%                  |
| Ambulance  | \$421,830,079        | 10.8%           | 6.9% - 14.8%           | 5.2%      | 48.2%  | 42.2%                | 4.3%                | 0.0%  | 1.3%                  |
| Major procedure -<br>Other                             | \$354,155,312        | 8.2%            | (6.8%) - 23.2%         | 0.0%      | 100.0%   | 0.0%                 | 0.0%                | 0.0%  | 1.1%                  |
| Nursing home visit                                     | \$348,327,738        | 16.1%           | 11.8% - 20.4%          | 17.7%     | 41.5%  | 0.0%                 | 33.4%               | 7.4%  | 1.1%                  |
| Oncology - radiation therapy                           | \$331,231,063        | 36.3%           | 12.5% - 60.2%          | 1.2%      | 98.4%  | 0.0%                 | 0.0%                | 0.4%  | 1.0%                  |
| Office visits - new                                    | \$319,432,777        | 9.4%            | 6.5% - 12.2%           | 3.6%      | 14.0%  | 0.0%                 | 66.4%               | 15.9% | 1.0%                  |
| Ambulatory<br>procedures - skin                        | \$250,549,621        | 10.3%           | (1.1%) - 21.7%         | 0.0%      | 95.1%  | 0.0%                 | 4.9%                | 0.0%  | 0.8%                  |
| Chiropractic   | \$214,123,439        | 39.3%           | 29.0% - 49.5%          | 5.4%      | 92.4%  | 0.6%                 | 1.6%                | 0.0%  | 0.7%                  |
| Other tests - other                                    | \$212,625,465        | 13.6%           | 8.0% - 19.2%           | 4.2%      | 91.4%  | 3.4%                 | 0.0%                | 1.0%  | 0.7%                  |
| Advanced imaging -<br>CAT/CT/CTA: other                | \$205,196,406        | 15.3%           | 8.7% - 21.9%           | 7.9%      | 88.0%  | 1.3%                 | 1.8%                | 0.9%  | 0.6%                  |
| Minor procedures -<br>musculoskeletal                  | \$201,295,802        | 19.4%           | 5.9% - 32.9%           | 0.9%      | 95.8%  | 0.0%                 | 3.2%                | 0.1%  | 0.6%                  |
| Hospital visit - critical care                         | \$188,342,835        | 17.3%           | 11.9% - 22.7%          | 9.7%      | 13.8%  | 0.0%                 | 67.3%               | 9.1%  | 0.6%                  |
| Specialist - psychiatry                                | \$186,055,660        | 13.5%           | 8.1% - 18.9%           | 7.6%      | 79.5%  | 0.1%                 | 7.1%                | 5.8%  | 0.6%                  |
| Ambulatory procedures - other                          | \$159,787,114        | 24.5%           | 14.2% - 34.9%          | 2.9%      | 95.1%  | 0.3%                 | 0.0%                | 1.6%  | 0.5%                  |
| All Type of Services<br>(Incl. Codes Not<br>Listed)    | \$10,988,112,586     | 10.0%           | 8.6% - 11.5%           | 5.0%      | 68.8%  | 2.4%                 | 19.1%               | 4.7%  | 34.1%                 |

#### Table D1: Top 20 Service Types with Highest Improper Payments: Part B

| DMEPOS (Policy                                      | Projected<br>Improper | Improper<br>Payment | 95%<br>Confidence | Percent   | Percentage of Service Type Improper Payments by Type<br>of Error |                      |                     |       | Percent of<br>Overall |
|---|-----------------------|---------------------|-------------------|-----------|--|----------------------|---------------------|-------|-----------------------|
| Group)  | Payments              | Rate                | Interval          | No<br>Doc | Insufficient<br>Doc  | Medical<br>Necessity | Incorrect<br>Coding | Other | Improper<br>Payments  |
| Surgical Dressings                                  | \$262,611,125         | 62.1%               | 50.2% - 74.1%     | 44.1%     | 47.8%  | 1.7%                 | 1.3%                | 5.0%  | 0.8%                  |
| CPAP  | \$157,518,140         | 15.0%               | 11.9% - 18.0%     | 0.5%      | 73.5%  | 1.6%                 | 0.2%                | 24.2% | 0.5%                  |
| Ventilators   | \$135,950,716         | 24.3%               | 16.2% - 32.4%     | 28.2%     | 46.2%  | 1.8%                 | 0.0%                | 23.7% | 0.4%                  |
| Urological Supplies                                 | \$116,587,196         | 28.1%               | 16.6% - 39.7%     | 0.0%      | 82.1%  | 1.6%                 | 3.4%                | 12.8% | 0.4%                  |
| Glucose Monitor                                     | \$103,199,765         | 13.5%               | 10.0% - 17.0%     | 8.6%      | 82.8%  | 4.9%                 | 0.1%                | 3.6%  | 0.3%                  |
| All Policy Groups with<br>Less than 30 Claims       | \$100,326,388         | 35.8%               | 20.9% - 50.7%     | 16.2%     | 53.8%  | 7.2%                 | 1.3%                | 21.5% | 0.3%                  |
| Lower Limb Orthoses                                 | \$92,013,669          | 36.6%               | 28.3% - 44.8%     | 35.3%     | 41.7%  | 7.8%                 | 0.0%                | 15.3% | 0.3%                  |
| Parenteral Nutrition                                | \$86,363,169          | 37.1%               | 29.4% - 44.8%     | 0.3%      | 64.5%  | 9.4%                 | 1.4%                | 24.3% | 0.3%                  |
| Oxygen<br>Supplies/Equipment                        | \$82,708,468          | 11.4%               | 7.8% - 15.0%      | 3.2%      | 65.3%  | 0.0%                 | 0.0%                | 31.5% | 0.3%                  |
| Infusion Pumps &<br>Related Drugs                   | \$80,984,423          | 12.5%               | 6.9% - 18.2%      | 13.1%     | 58.2%  | 3.3%                 | 2.6%                | 22.8% | 0.3%                  |
| Nebulizers & Related<br>Drugs                       | \$69,487,411          | 13.2%               | 9.0% - 17.3%      | 2.9%      | 58.6%  | 22.7%                | 1.4%                | 14.4% | 0.2%                  |
| Ostomy Supplies                                     | \$56,836,415          | 25.6%               | 17.7% - 33.5%     | 1.3%      | 83.8%  | 0.2%                 | 0.1%                | 14.6% | 0.2%                  |
| Wheelchairs<br>Options/Accessories                  | \$54,349,900          | 19.6%               | 9.6% - 29.6%      | 0.0%      | 33.0%  | 42.3%                | 0.0%                | 24.7% | 0.2%                  |
| Oral Anti-Cancer<br>Drugs                           | \$48,939,965          | 84.0%               | 59.8% - 108.1%    | 0.0%      | 7.3%   | 0.0%                 | 0.0%                | 92.7% | 0.2%                  |
| Diabetic Shoes                                      | \$47,463,560          | 51.4%               | 35.9% - 66.8%     | 0.0%      | 84.6%  | 0.0%                 | 0.0%                | 15.4% | 0.1%                  |
| Enteral Nutrition                                   | \$43,246,587          | 28.7%               | 18.8% - 38.5%     | 0.6%      | 52.8%  | 30.6%                | 0.7%                | 15.4% | 0.1%                  |
| Immunosuppressive<br>Drugs                          | \$43,190,520          | 15.7%               | 8.9% - 22.4%      | 0.2%      | 62.2%  | 14.7%                | 0.0%                | 22.9% | 0.1%                  |
| Wheelchairs Manual                                  | \$42,783,319          | 42.6%               | 34.6% - 50.7%     | 0.0%      | 77.8%  | 0.0%                 | 0.0%                | 22.2% | 0.1%                  |
| LSO   | \$42,602,055          | 36.4%               | 27.1% - 45.8%     | 42.8%     | 29.6%  | 19.3%                | 0.0%                | 8.3%  | 0.1%                  |
| Pneumatic<br>Compression Device                     | \$41,580,669          | 78.9%               | 65.6% - 92.2%     | 0.0%      | 55.1%  | 41.2%                | 0.0%                | 3.7%  | 0.1%                  |
| All Type of Services<br>(Incl. Codes Not<br>Listed) | \$1,947,497,111       | 22.5%               | 20.5% - 24.5%     | 13.7%     | 58.2%  | 7.6%                 | 0.8%                | 19.7% | 6.0%                  |

#### Table D2: Top 20 Service Types with Highest Improper Payments: DMEPOS

| IPPS  |                       |                     |                   |   |                     |                      |                     |                 |                       |
|---|-----------------------|---------------------|-------------------|---|---------------------|----------------------|---------------------|-----------------|-----------------------|
| Part A Excluding<br>Hospital IPPS                   | Projected<br>Improper | Improper<br>Payment | 95%<br>Confidence | Percentage of Service Type Improper Payments by<br>of Error |                     |                      |                     | by <b>Тур</b> е | Percent of<br>Overall |
| Services (TOB)                                      | Payments              | Rate                | Interval          | No<br>Doc   | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other           | Improper<br>Payments  |
| SNF Inpatient                                       | \$4,752,469,358       | 14.9%               | 12.4% - 17.4%     | 0.2%  | 79.1%               | 0.2%                 | 1.2%                | 19.4%           | 14.8%                 |
| Hospital Outpatient                                 | \$3,931,281,258       | 5.4%                | 3.6% - 7.2%       | 2.8%  | 88.4%               | 2.2%                 | 6.2%                | 0.5%            | 12.2%                 |
| Hospital Inpatient (Part A)                         | \$1,966,884,489       | 17.7%               | 14.2% - 21.2%     | 0.0%  | 6.2%                | 93.8%                | 0.0%                | 0.0%            | 6.1%                  |
| Home Health   | \$1,230,945,533       | 7.7%                | 5.9% - 9.4%       | 1.4%  | 38.6%               | 46.8%                | 2.8%                | 10.4%           | 3.8%                  |
| Nonhospital based hospice                           | \$1,165,731,047       | 5.2%                | 3.3% - 7.0%       | 7.1%  | 80.7%               | 4.8%                 | 0.5%                | 6.8%            | 3.6%                  |
| САН   | \$466,486,942         | 6.8%                | 4.0% - 9.6%       | 0.3%  | 68.5%               | 0.9%                 | 28.7%               | 1.7%            | 1.4%                  |
| Clinic ESRD   | \$204,605,640         | 2.1%                | 0.4% - 3.8%       | 0.0%  | 52.8%               | 0.0%                 | 38.6%               | 8.6%            | 0.6%                  |
| Hospital based hospice                              | \$127,383,669         | 8.2%                | 3.6% - 12.9%      | 11.4%   | 84.5%               | 0.0%                 | 0.8%                | 3.3%            | 0.4%                  |
| Clinic OPT  | \$115,475,866         | 10.8%               | 2.5% - 19.1%      | 0.0%  | 83.0%               | 0.0%                 | 3.1%                | 13.9%           | 0.4%                  |
| Clinical Rural Health                               | \$64,083,657          | 3.6%                | 1.6% - 5.6%       | 0.0%  | 82.8%               | 0.0%                 | 17.2%               | 0.0%            | 0.2%                  |
| FQHC  | \$60,839,466          | 5.3%                | 0.2% - 10.4%      | 0.0%  | 94.3%               | 0.0%                 | 0.1%                | 5.5%            | 0.2%                  |
| SNF Inpatient Part B                                | \$33,606,859          | 1.2%                | 0.1% - 2.4%       | 0.0%  | 100.0%              | 0.0%                 | 0.0%                | 0.0%            | 0.1%                  |
| Hospital Other Part B                               | \$31,864,073          | 5.0%                | 2.1% - 7.8%       | 0.0%  | 95.9%               | 0.0%                 | 4.1%                | 0.0%            | 0.1%                  |
| All Codes With Less<br>Than 30 Claims               | \$22,675,289          | 1.4%                | (1.5%) - 4.3%     | 0.0%  | 100.0%              | 0.0%                 | 0.0%                | 0.0%            | 0.1%                  |
| Clinic CORF   | \$14,278,364          | 53.5%               | 38.9% - 68.1%     | 0.0%  | 88.1%               | 0.0%                 | 0.0%                | 11.9%           | 0.0%                  |
| Hospital Inpatient Part<br>B                        | \$14,060,165          | 0.8%                | (0.1%) - 1.6%     | 0.0%  | 100.0%              | 0.0%                 | 0.0%                | 0.0%            | 0.0%                  |
| SNF Outpatient                                      | \$13,467,557          | 4.5%                | 0.2% - 8.7%       | 7.0%  | 86.6%               | 0.0%                 | 0.0%                | 6.4%            | 0.0%                  |
| All Type of Services<br>(Incl. Codes Not<br>Listed) | \$14,216,139,233      | 7.8%                | 6.8% - 8.7%       | 1.7%  | 67.8%               | 18.1%                | 4.0%                | 8.4%            | 44.1%                 |

# Table D3: Top Service Types with Highest Improper Payments: Part A Excluding Hospital IPPS

| Part A Hospital  | Projected            | Improper        | 95%                    |           | age of Service      |                      |                     | by Туре | Percent of<br>Overall |
|--|----------------------|-----------------|------------------------|-----------|---------------------|----------------------|---------------------|---------|-----------------------|
| IPPS Services (MS-<br>DRGs)  | Improper<br>Payments | Payment<br>Rate | Confidence<br>Interval | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other   | Improper<br>Payments  |
| Major Hip And Knee<br>Joint Replacement Or<br>Reattachment Of<br>Lower Extremity (469,<br>470) | \$633,818,171        | 40.6%           | 35.1% - 46.2%          | 0.0%      | 8.7%                | 91.2%                | 0.1%                | 0.0%    | 2.0%                  |
| Percutaneous<br>Intracardiac<br>Procedures (273, 274)  | \$431,040,599        | 31.0%           | 20.0% - 42.1%          | 0.0%      | 87.0%               | 12.3%                | 0.7%                | 0.0%    | 1.3%                  |
| Endovascular Cardiac<br>Valve Replacement &<br>Supplement<br>Procedures (266, 267)             | \$321,105,091        | 11.2%           | 8.2% - 14.1%           | 1.9%      | 82.0%               | 13.8%                | 2.3%                | 0.0%    | 1.0%                  |
| Respiratory Infections<br>& Inflammations (177,<br>178, 179)                                   | \$231,656,917        | 3.4%            | 0.1% - 6.6%            | 0.0%      | 51.4%               | 20.9%                | 27.7%               | 0.0%    | 0.7%                  |
| Combined<br>Anterior/Posterior<br>Spinal Fusion (453,<br>454, 455)                             | \$165,998,818        | 9.9%            | 3.6% - 16.1%           | 0.0%      | 62.2%               | 32.5%                | 5.3%                | 0.0%    | 0.5%                  |
| Renal Failure (682, 683, 684)  | \$134,932,546        | 8.5%            | 1.9% - 15.0%           | 0.0%      | 0.0%                | 39.3%                | 27.5%               | 33.3%   | 0.4%                  |
| GI Hemorrhage (377, 378, 379)  | \$90,916,394         | 5.3%            | (0.5%) - 11.1%         | 10.6%     | 6.2%                | 22.7%                | 60.6%               | 0.0%    | 0.3%                  |
| Septicemia Or Severe<br>Sepsis W/O MV >96<br>Hours (871, 872)                                  | \$84,142,339         | 0.9%            | (0.1%) - 1.8%          | 47.9%     | 4.9%                | 0.0%                 | 47.2%               | 0.0%    | 0.3%                  |
| Degenerative Nervous<br>System Disorders (056,<br>057)   | \$79,193,568         | 10.5%           | 5.3% - 15.7%           | 0.0%      | 25.9%               | 67.2%                | 6.9%                | 0.0%    | 0.2%                  |
| Infectious & Parasitic<br>Diseases W OR<br>Procedure (853, 854,<br>855)                        | \$74,645,730         | 2.1%            | 0.2% - 4.0%            | 0.0%      | 24.2%               | 0.0%                 | 75.8%               | 0.0%    | 0.2%                  |
| Other Disorders Of<br>Nervous System (091,<br>092, 093)  | \$70,850,249         | 18.1%           | 7.0% - 29.3%           | 0.0%      | 0.0%                | 97.3%                | 2.7%                | 0.0%    | 0.2%                  |
| Extensive OR<br>Procedure Unrelated<br>To Principal Diagnosis<br>(981, 982, 983)               | \$62,823,144         | 5.1%            | 0.3% - 9.8%            | 0.0%      | 24.3%               | 5.9%                 | 69.8%               | 0.0%    | 0.2%                  |
| Cardiac Defibrillator<br>Implant W/O Cardiac<br>Cath (226, 227)                                | \$55,024,135         | 18.7%           | 10.2% - 27.2%          | 0.0%      | 65.3%               | 33.6%                | 1.2%                | 0.0%    | 0.2%                  |
| Back & Neck Proc Exc<br>Spinal Fusion (518,<br>519, 520)                                       | \$54,499,746         | 19.9%           | (3.0%) - 42.8%         | 0.0%      | 2.0%                | 93.2%                | 4.8%                | 0.0%    | 0.2%                  |
| Diabetes (637, 638, 639)   | \$54,133,305         | 7.7%            | (1.2%) - 16.7%         | 0.0%      | 0.0%                | 48.3%                | 51.7%               | 0.0%    | 0.2%                  |
| Cervical Spinal Fusion<br>(471, 472, 473)  | \$51,474,366         | 10.0%           | (0.6%) - 20.6%         | 0.0%      | 49.1%               | 50.9%                | 0.0%                | 0.0%    | 0.2%                  |
| AMI, Discharged<br>Alive (280, 281, 282)   | \$50,097,047         | 2.9%            | (0.1%) - 5.8%          | 0.0%      | 0.0%                | 72.8%                | 27.2%               | 0.0%    | 0.2%                  |
| Stomach, Esophageal<br>& Duodenal Proc (326,<br>327, 328)                                      | \$49,751,673         | 7.4%            | (0.4%) - 15.1%         | 0.0%      | 24.3%               | 70.9%                | 4.8%                | 0.0%    | 0.2%                  |
| Other Kidney &<br>Urinary Tract<br>Diagnoses (698, 699,<br>700)                                | \$48,332,889         | 4.2%            | (0.5%) - 8.9%          | 0.0%      | 0.0%                | 57.6%                | 42.4%               | 0.0%    | 0.2%                  |
| Kidney & Urinary<br>Tract Infections (689,<br>690)   | \$48,281,348         | 3.8%            | (0.8%) - 8.3%          | 0.0%      | 0.0%                | 87.3%                | 12.7%               | 0.0%    | 0.1%                  |

## Table D4: Top 20 Service Types with Highest Improper Payments: Part A Hospital IPPS

| Part A Hospital                                     | Projected            | Improper        | 95%<br>Confidence      | Percent   | by <b>Тур</b> е     | Percent of<br>Overall |                     |       |                      |
|---|----------------------|-----------------|------------------------|-----------|---------------------|-----------------------|---------------------|-------|----------------------|
| IPPS Services (MS-<br>DRGs)                         | Improper<br>Payments | Payment<br>Rate | Confidence<br>Interval | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity  | Incorrect<br>Coding | Other | Improper<br>Payments |
| All Type of Services<br>(Incl. Codes Not<br>Listed) | \$5,049,136,325      | 4.2%            | 3.7% - 4.6%            | 2.1%      | 25.3%               | 52.9%                 | 18.8%               | 0.9%  | 15.7%                |

## **Appendix E: Improper Payment Rates and Type of Error by Type of Service for Each Claim Type**

Appendix E tables are sorted in descending order by improper payment rate. All estimates in these tables are based on a minimum of 30 lines in the sample. For a full listing of all services with 30 or more claims, see Appendix G.

| Part B Services  | Improper        | 95%<br>Confidence | 95%<br>Confidence |                     |                      |                     |       |                      |
|--|-----------------|-------------------|-------------------|---------------------|----------------------|---------------------|-------|----------------------|
| (BETOS Codes)  | Payment<br>Rate | Interval          | No<br>Doc         | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other | Improper<br>Payments |
| Other - non-Medicare<br>fee schedule                   | 72.7%           | 57.8% - 87.7%     | 16.4%             | 79.5%               | 0.0%                 | 4.1%                | 0.0%  | 0.1%                 |
| Other - Medicare fee schedule                          | 41.1%           | 23.7% - 58.5%     | 19.2%             | 76.2%               | 0.0%                 | 4.7%                | 0.0%  | 0.3%                 |
| Chiropractic   | 39.3%           | 29.0% - 49.5%     | 5.4%              | 92.4%               | 0.6%                 | 1.6%                | 0.0%  | 0.7%                 |
| Oncology - radiation therapy                           | 36.3%           | 12.5% - 60.2%     | 1.2%              | 98.4%               | 0.0%                 | 0.0%                | 0.4%  | 1.0%                 |
| Standard imaging -<br>other                            | 27.2%           | 11.5% - 43.0%     | 0.0%              | 95.3%               | 0.0%                 | 0.0%                | 4.7%  | 0.2%                 |
| Specialist - other                                     | 26.5%           | 20.2% - 32.8%     | 6.1%              | 76.7%               | 0.4%                 | 5.3%                | 11.5% | 2.3%                 |
| Ambulatory<br>procedures - other                       | 24.5%           | 14.2% - 34.9%     | 2.9%              | 95.1%               | 0.3%                 | 0.0%                | 1.6%  | 0.5%                 |
| Echography/ultrasonog<br>raphy - carotid arteries      | 23.7%           | 8.2% - 39.2%      | 0.0%              | 100.0%              | 0.0%                 | 0.0%                | 0.0%  | 0.1%                 |
| Lab tests - other (non-<br>Medicare fee schedule)      | 22.9%           | 19.4% - 26.3%     | 1.3%              | 94.1%               | 1.5%                 | 0.2%                | 2.9%  | 3.2%                 |
| Hospital visit - initial                               | 22.2%           | 19.4% - 24.9%     | 7.7%              | 25.6%               | 0.0%                 | 62.5%               | 4.2%  | 1.5%                 |
| Imaging/procedure -<br>other                           | 22.1%           | (0.4%) - 44.6%    | 31.9%             | 68.1%               | 0.0%                 | 0.0%                | 0.0%  | 0.2%                 |
| Lab tests - urinalysis                                 | 20.2%           | 10.8% - 29.7%     | 0.0%              | 92.9%               | 0.0%                 | 0.0%                | 7.1%  | 0.0%                 |
| Minor procedures -<br>musculoskeletal                  | 19.4%           | 5.9% - 32.9%      | 0.9%              | 95.8%               | 0.0%                 | 3.2%                | 0.1%  | 0.6%                 |
| Echography/ultrasonog raphy - other                    | 18.8%           | 5.0% - 32.5%      | 0.0%              | 97.4%               | 2.6%                 | 0.0%                | 0.0%  | 0.3%                 |
| Lab tests - blood counts                               | 18.6%           | 12.7% - 24.4%     | 4.1%              | 92.2%               | 0.0%                 | 0.3%                | 3.5%  | 0.1%                 |
| Hospital visit - critical<br>care                      | 17.3%           | 11.9% - 22.7%     | 9.7%              | 13.8%               | 0.0%                 | 67.3%               | 9.1%  | 0.6%                 |
| Nursing home visit                                     | 16.1%           | 11.8% - 20.4%     | 17.7%             | 41.5%               | 0.0%                 | 33.4%               | 7.4%  | 1.1%                 |
| Advanced imaging -<br>CAT/CT/CTA: other                | 15.3%           | 8.7% - 21.9%      | 7.9%              | 88.0%               | 1.3%                 | 1.8%                | 0.9%  | 0.6%                 |
| Lab tests - bacterial cultures                         | 15.1%           | 0.9% - 29.4%      | 0.0%              | 100.0%              | 0.0%                 | 0.0%                | 0.0%  | 0.0%                 |
| Minor procedures -<br>other (Medicare fee<br>schedule) | 15.1%           | 10.8% - 19.3%     | 2.2%              | 74.6%               | 2.6%                 | 2.9%                | 17.7% | 2.5%                 |
| Overall (incl. Service<br>Types Not Listed)            | 10.0%           | 8.6% - 11.5%      | 5.0%              | 68.8%               | 2.4%                 | 19.1%               | 4.7%  | 34.1%                |

| Table E1: Top 20 Service Type Improper Payment Rates: Part I | Table E | E1: Top | <b>20</b> Service | Type I | mproper | Payment | Rates: Part I |
|--|---------|---------|-------------------|--------|---------|---------|---------------|
|--|---------|---------|-------------------|--------|---------|---------|---------------|

| DMEPOS (Policy                                | Improper<br>Payment | 95%<br>Confidence | Confidence |                      |                      |                     |       |                      |  |  |
|---|---------------------|-------------------|------------|----------------------|----------------------|---------------------|-------|----------------------|--|--|
| Group)  | Rate                | Interval          | No<br>Doc  | Insufficien<br>t Doc | Medical<br>Necessity | Incorrect<br>Coding | Other | Improper<br>Payments |  |  |
| Orthopedic Footwear                           | 100.0%              | 100.0% - 100.0%   | 9.3%       | 84.5%                | 0.9%                 | 0.0%                | 5.3%  | 0.0%                 |  |  |
| Oral Anti-Cancer<br>Drugs                     | 84.0%               | 59.8% - 108.1%    | 0.0%       | 7.3%                 | 0.0%                 | 0.0%                | 92.7% | 0.2%                 |  |  |
| Pneumatic<br>Compression Device               | 78.9%               | 65.6% - 92.2%     | 0.0%       | 55.1%                | 41.2%                | 0.0%                | 3.7%  | 0.1%                 |  |  |
| Lenses  | 70.7%               | 55.5% - 85.8%     | 2.5%       | 43.1%                | 27.2%                | 0.0%                | 27.2% | 0.1%                 |  |  |
| Surgical Dressings                            | 62.1%               | 50.2% - 74.1%     | 44.1%      | 47.8%                | 1.7%                 | 1.3%                | 5.0%  | 0.8%                 |  |  |
| Diabetic Shoes                                | 51.4%               | 35.9% - 66.8%     | 0.0%       | 84.6%                | 0.0%                 | 0.0%                | 15.4% | 0.1%                 |  |  |
| Commodes/Bed<br>Pans/Urinals                  | 47.7%               | 30.9% - 64.4%     | 0.0%       | 52.9%                | 0.0%                 | 0.0%                | 47.1% | 0.0%                 |  |  |
| Wheelchairs Manual                            | 42.6%               | 34.6% - 50.7%     | 0.0%       | 77.8%                | 0.0%                 | 0.0%                | 22.2% | 0.1%                 |  |  |
| Upper Limb Orthoses                           | 40.9%               | 33.1% - 48.8%     | 31.1%      | 50.8%                | 5.7%                 | 0.0%                | 12.4% | 0.1%                 |  |  |
| Parenteral Nutrition                          | 37.1%               | 29.4% - 44.8%     | 0.3%       | 64.5%                | 9.4%                 | 1.4%                | 24.3% | 0.3%                 |  |  |
| Lower Limb Orthoses                           | 36.6%               | 28.3% - 44.8%     | 35.3%      | 41.7%                | 7.8%                 | 0.0%                | 15.3% | 0.3%                 |  |  |
| LSO   | 36.4%               | 27.1% - 45.8%     | 42.8%      | 29.6%                | 19.3%                | 0.0%                | 8.3%  | 0.1%                 |  |  |
| All Policy Groups with<br>Less than 30 Claims | 35.8%               | 20.9% - 50.7%     | 16.2%      | 53.8%                | 7.2%                 | 1.3%                | 21.5% | 0.3%                 |  |  |
| Repairs/DMEPOS                                | 33.3%               | 18.0% - 48.6%     | 0.0%       | 19.0%                | 0.0%                 | 62.2%               | 18.9% | 0.0%                 |  |  |
| Hospital<br>Beds/Accessories                  | 30.1%               | 17.6% - 42.6%     | 0.0%       | 68.4%                | 8.9%                 | 1.5%                | 21.2% | 0.1%                 |  |  |
| Wheelchairs Seating                           | 29.2%               | 14.3% - 44.0%     | 0.0%       | 24.4%                | 57.2%                | 0.0%                | 18.4% | 0.0%                 |  |  |
| Enteral Nutrition                             | 28.7%               | 18.8% - 38.5%     | 0.6%       | 52.8%                | 30.6%                | 0.7%                | 15.4% | 0.1%                 |  |  |
| Urological Supplies                           | 28.1%               | 16.6% - 39.7%     | 0.0%       | 82.1%                | 1.6%                 | 3.4%                | 12.8% | 0.4%                 |  |  |
| Suction Pump                                  | 26.1%               | 10.7% - 41.4%     | 0.0%       | 72.4%                | 14.7%                | 0.0%                | 12.9% | 0.0%                 |  |  |
| Ostomy Supplies                               | 25.6%               | 17.7% - 33.5%     | 1.3%       | 83.8%                | 0.2%                 | 0.1%                | 14.6% | 0.2%                 |  |  |
| Overall (incl. Service<br>Types Not Listed)   | 22.5%               | 20.5% - 24.5%     | 13.7%      | 58.2%                | 7.6%                 | 0.8%                | 19.7% | 6.0%                 |  |  |

## Table E2: Top 20 Service Type Improper Payment Rates: DMEPOS

| Part A Excluding                            | Improper<br>Pavment | 95%<br>Confidence | Percentage of Service Type Improper Payments by Type<br>95% of Error<br>Confidence |                     |                      |                     |       |                      |
|---|---------------------|-------------------|--|---------------------|----------------------|---------------------|-------|----------------------|
| Hospital IPPS<br>Services (TOB)             | Rate                | Interval          | No<br>Doc  | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other | Improper<br>Payments |
| Clinic CORF                                 | 53.5%               | 38.9% - 68.1%     | 0.0%   | 88.1%               | 0.0%                 | 0.0%                | 11.9% | 0.0%                 |
| Hospital Inpatient (Part<br>A)              | 17.7%               | 14.2% - 21.2%     | 0.0%   | 6.2%                | 93.8%                | 0.0%                | 0.0%  | 6.1%                 |
| SNF Inpatient                               | 14.9%               | 12.4% - 17.4%     | 0.2%   | 79.1%               | 0.2%                 | 1.2%                | 19.4% | 14.8%                |
| Clinic OPT                                  | 10.8%               | 2.5% - 19.1%      | 0.0%   | 83.0%               | 0.0%                 | 3.1%                | 13.9% | 0.4%                 |
| Hospital based hospice                      | 8.2%                | 3.6% - 12.9%      | 11.4%  | 84.5%               | 0.0%                 | 0.8%                | 3.3%  | 0.4%                 |
| Home Health                                 | 7.7%                | 5.9% - 9.4%       | 1.4%   | 38.6%               | 46.8%                | 2.8%                | 10.4% | 3.8%                 |
| САН   | 6.8%                | 4.0% - 9.6%       | 0.3%   | 68.5%               | 0.9%                 | 28.7%               | 1.7%  | 1.4%                 |
| Hospital Outpatient                         | 5.4%                | 3.6% - 7.2%       | 2.8%   | 88.4%               | 2.2%                 | 6.2%                | 0.5%  | 12.2%                |
| FQHC  | 5.3%                | 0.2% - 10.4%      | 0.0%   | 94.3%               | 0.0%                 | 0.1%                | 5.5%  | 0.2%                 |
| Nonhospital based hospice                   | 5.2%                | 3.3% - 7.0%       | 7.1%   | 80.7%               | 4.8%                 | 0.5%                | 6.8%  | 3.6%                 |
| Hospital Other Part B                       | 5.0%                | 2.1% - 7.8%       | 0.0%   | 95.9%               | 0.0%                 | 4.1%                | 0.0%  | 0.1%                 |
| SNF Outpatient                              | 4.5%                | 0.2% - 8.7%       | 7.0%   | 86.6%               | 0.0%                 | 0.0%                | 6.4%  | 0.0%                 |
| Clinical Rural Health                       | 3.6%                | 1.6% - 5.6%       | 0.0%   | 82.8%               | 0.0%                 | 17.2%               | 0.0%  | 0.2%                 |
| Clinic ESRD                                 | 2.1%                | 0.4% - 3.8%       | 0.0%   | 52.8%               | 0.0%                 | 38.6%               | 8.6%  | 0.6%                 |
| All Codes With Less<br>Than 30 Claims       | 1.4%                | (1.5%) - 4.3%     | 0.0%   | 100.0%              | 0.0%                 | 0.0%                | 0.0%  | 0.1%                 |
| SNF Inpatient Part B                        | 1.2%                | 0.1% - 2.4%       | 0.0%   | 100.0%              | 0.0%                 | 0.0%                | 0.0%  | 0.1%                 |
| Hospital Inpatient Part<br>B                | 0.8%                | (0.1%) - 1.6%     | 0.0%   | 100.0%              | 0.0%                 | 0.0%                | 0.0%  | 0.0%                 |
| Overall (incl. Service<br>Types Not Listed) | 7.8%                | 6.8% - 8.7%       | 1.7%   | 67.8%               | 18.1%                | 4.0%                | 8.4%  | 44.1%                |

| Table F2. Ten      | Some Type I     | manuanan Daumant      | Datace Dawt A D   | Funding Hognital IDDS     |
|--------------------|-----------------|-----------------------|-------------------|---------------------------|
| - 1 abie r.s: 1 ob | Service I voe I | <b>шогорег Раушен</b> | - каles: Рагі А г | Excluding Hospital IPPS   |
| I WOLC DOT I OP    | Service I per   | mproper r wymene      | ILMOUNT MITTIL    | actualing mospical in i S |

| Part A Hospital  | Improper        | 95%<br>Confidence | Percent   | age of Service      | Type Improp<br>of Error | ber Payments        | by <b>Тур</b> е | Percent of<br>Overall |
|--|-----------------|-------------------|-----------|---------------------|-------------------------|---------------------|-----------------|-----------------------|
| IPPS Services (MS-<br>DRGs)  | Payment<br>Rate | Interval          | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity    | Incorrect<br>Coding | Other           | Improper<br>Payments  |
| Major Hip And Knee<br>Joint Replacement Or<br>Reattachment Of<br>Lower Extremity (469,<br>470) | 40.6%           | 35.1% - 46.2%     | 0.0%      | 8.7%                | 91.2%                   | 0.1%                | 0.0%            | 2.0%                  |
| Percutaneous<br>Intracardiac<br>Procedures (273, 274)  | 31.0%           | 20.0% - 42.1%     | 0.0%      | 87.0%               | 12.3%                   | 0.7%                | 0.0%            | 1.3%                  |
| Bilateral Or Multiple<br>Major Joint Procs Of<br>Lower Extremity (461,<br>462)                 | 28.7%           | 18.0% - 39.4%     | 0.0%      | 5.6%                | 92.5%                   | 2.0%                | 0.0%            | 0.1%                  |
| Back & Neck Proc Exc<br>Spinal Fusion (518,<br>519, 520)                                       | 19.9%           | (3.0%) - 42.8%    | 0.0%      | 2.0%                | 93.2%                   | 4.8%                | 0.0%            | 0.2%                  |
| Cardiac Defibrillator<br>Implant W/O Cardiac<br>Cath (226, 227)                                | 18.7%           | 10.2% - 27.2%     | 0.0%      | 65.3%               | 33.6%                   | 1.2%                | 0.0%            | 0.2%                  |
| Other Disorders Of<br>Nervous System (091,<br>092, 093)  | 18.1%           | 7.0% - 29.3%      | 0.0%      | 0.0%                | 97.3%                   | 2.7%                | 0.0%            | 0.2%                  |
| Other Musculoskelet<br>Sys & Conn Tiss OR<br>Proc (515, 516, 517)                              | 16.1%           | 2.1% - 30.1%      | 0.0%      | 37.1%               | 59.5%                   | 3.3%                | 0.0%            | 0.1%                  |
| Female Reproductive<br>System Reconstructive<br>Procedures (748)                               | 15.9%           | 5.1% - 26.8%      | 0.0%      | 12.7%               | 87.3%                   | 0.0%                | 0.0%            | 0.0%                  |
| Aftercare (949, 950)   | 15.1%           | 3.9% - 26.4%      | 7.0%      | 21.0%               | 68.7%                   | 3.3%                | 0.0%            | 0.0%                  |
| Signs & Symptoms (947, 948)  | 14.7%           | 6.1% - 23.3%      | 0.0%      | 7.7%                | 88.8%                   | 3.5%                | 0.0%            | 0.1%                  |
| Aftercare,<br>Musculoskeletal<br>System & Connective<br>Tissue (559, 560, 561)                 | 14.4%           | 9.4% - 19.4%      | 2.8%      | 5.3%                | 83.9%                   | 7.4%                | 0.6%            | 0.1%                  |
| Major Joint/Limb<br>Reattachment<br>Procedure Of Upper<br>Extremities (483)                    | 12.9%           | 0.7% - 25.2%      | 29.6%     | 49.1%               | 21.3%                   | 0.0%                | 0.0%            | 0.1%                  |
| Fractures Of Hip &<br>Pelvis (535, 536)  | 11.3%           | 3.2% - 19.4%      | 0.0%      | 0.0%                | 79.8%                   | 20.2%               | 0.0%            | 0.1%                  |
| Endovascular Cardiac<br>Valve Replacement &<br>Supplement<br>Procedures (266, 267)             | 11.2%           | 8.2% - 14.1%      | 1.9%      | 82.0%               | 13.8%                   | 2.3%                | 0.0%            | 1.0%                  |
| Degenerative Nervous<br>System Disorders (056,<br>057)   | 10.5%           | 5.3% - 15.7%      | 0.0%      | 25.9%               | 67.2%                   | 6.9%                | 0.0%            | 0.2%                  |
| Cervical Spinal Fusion<br>(471, 472, 473)  | 10.0%           | (0.6%) - 20.6%    | 0.0%      | 49.1%               | 50.9%                   | 0.0%                | 0.0%            | 0.2%                  |
| Combined<br>Anterior/Posterior<br>Spinal Fusion (453,<br>454, 455)                             | 9.9%            | 3.6% - 16.1%      | 0.0%      | 62.2%               | 32.5%                   | 5.3%                | 0.0%            | 0.5%                  |
| Fx, Sprn, Strn & Disl<br>Except Femur, Hip,<br>Pelvis & Thigh (562,<br>563)                    | 9.7%            | (0.4%) - 19.8%    | 0.0%      | 0.0%                | 90.7%                   | 9.3%                | 0.0%            | 0.0%                  |
| Renal Failure (682, 683, 684)  | 8.5%            | 1.9% - 15.0%      | 0.0%      | 0.0%                | 39.3%                   | 27.5%               | 33.3%           | 0.4%                  |
| Organic Disturbances<br>& Intellectual<br>Disability (884)                                     | 8.3%            | (0.8%) - 17.4%    | 0.0%      | 0.0%                | 97.1%                   | 2.9%                | 0.0%            | 0.1%                  |

## Table E4: Top 20 Service Type Improper Payment Rates: Part A Hospital IPPS

| Part A Hospital                             | Improper        | 95%<br>Confidence      | Percent   | age of Service      | Type Improp<br>of Error | oer Payments        | by <b>Тур</b> е | Percent of<br>Overall |
|---|-----------------|------------------------|-----------|---------------------|-------------------------|---------------------|-----------------|-----------------------|
| IPPS Services (MS-<br>DRGs)                 | Payment<br>Rate | Confidence<br>Interval | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity    | Incorrect<br>Coding | Other           | Improper<br>Payments  |
| Overall (incl. Service<br>Types Not Listed) | 4.2%            | 3.7% - 4.6%            | 2.1%      | 25.3%               | 52.9%                   | 18.8%               | 0.9%            | 15.7%                 |

# **Appendix F: Projected Improper Payments by Type of Service for Each Type of Error**

This series of tables are sorted in descending order by projected improper payments. All estimates in these tables are based on a minimum of 30 lines in the sample.

| Medicare FFS Services                                      | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |
|--|-----------------------------------|-----------------------------|----------------------------|--|
| Surgical Dressings   | \$115,796,910                     | 27.4%                       | 13.0% - 41.8%              | 0.4%                                       |
| Hospital Outpatient  | \$108,690,519                     | 0.1%                        | (0.1%) - 0.4%              | 0.3%                                       |
| Office visits - established                                | \$103,952,114                     | 0.6%                        | 0.0% - 1.2%                | 0.3%                                       |
| Nonhospital based hospice                                  | \$82,773,877                      | 0.4%                        | (0.1%) - 0.9%              | 0.3%                                       |
| Nursing home visit   | \$61,649,758                      | 2.8%                        | 0.2% - 5.5%                | 0.2%                                       |
| Specialist - other   | \$44,223,221                      | 1.6%                        | (0.4%) - 3.6%              | 0.1%                                       |
| Septicemia Or Severe Sepsis W/O MV >96<br>Hours (871, 872) | \$40,322,875                      | 0.4%                        | (0.4%) - 1.2%              | 0.1%                                       |
| Advanced imaging - MRI/MRA: other                          | \$38,717,094                      | 3.1%                        | (3.0%) - 9.1%              | 0.1%                                       |
| Ventilators  | \$38,375,878                      | 6.9%                        | (1.0%) - 14.7%             | 0.1%                                       |
| Hospital visit - initial                                   | \$36,283,132                      | 1.7%                        | 0.6% - 2.8%                | 0.1%                                       |
| Lower Limb Orthoses  | \$32,489,208                      | 12.9%                       | 7.1% - 18.7%               | 0.1%                                       |
| Ambulance  | \$21,885,002                      | 0.6%                        | (0.5%) - 1.7%              | 0.1%                                       |
| Minor procedures - other (Medicare fee schedule)           | \$18,399,895                      | 0.3%                        | (0.1%) - 0.8%              | 0.1%                                       |
| Hospital visit - critical care                             | \$18,289,116                      | 1.7%                        | (0.3%) - 3.7%              | 0.1%                                       |
| LSO  | \$18,241,569                      | 15.6%                       | 9.9% - 21.4%               | 0.1%                                       |
| Home Health  | \$17,507,801                      | 0.1%                        | (0.1%) - 0.3%              | 0.1%                                       |
| Other - Medicare fee schedule                              | \$17,339,617                      | 7.9%                        | (5.6%) - 21.3%             | 0.1%                                       |
| Hospital visit - subsequent                                | \$16,817,188                      | 0.3%                        | 0.0% - 0.6%                | 0.1%                                       |
| Advanced imaging - CAT/CT/CTA: other                       | \$16,300,395                      | 1.2%                        | (1.2%) - 3.6%              | 0.1%                                       |
| All Policy Groups with Less than 30 Claims                 | \$16,292,290                      | 5.8%                        | 2.1% - 9.5%                | 0.1%                                       |
| Overall (Incl. Codes Not Listed)                           | \$1,159,297,949                   | 0.3%                        | 0.2% - 0.3%                | 3.6%                                       |

#### Table F1: Top 20 Types of Services with No Documentation Errors

| Medicare FFS Services  | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |  |
|--|-----------------------------------|-----------------------------|----------------------------|--|--|
| SNF Inpatient  | \$3,757,144,883                   | 11.8%                       | 9.6% - 14.0%               | 11.7%                                      |  |
| Hospital Outpatient  | \$3,474,230,849                   | 4.8%                        | 3.0% - 6.6%                | 10.8%                                      |  |
| Lab tests - other (non-Medicare fee schedule)                                | \$980,630,266                     | 21.5%                       | 18.1% - 24.9%              | 3.0%                                       |  |
| Nonhospital based hospice  | \$941,316,860                     | 4.2%                        | 2.5% - 5.9%                | 2.9%                                       |  |
| Other drugs  | \$665,460,681                     | 5.8%                        | (1.6%) - 13.1%             | 2.1%                                       |  |
| Minor procedures - other (Medicare fee schedule)                             | \$611,841,955                     | 11.3%                       | 7.8% - 14.7%               | 1.9%                                       |  |
| Specialist - other   | \$555,860,146                     | 20.3%                       | 14.8% - 25.9%              | 1.7%                                       |  |
| Home Health  | \$475,487,013                     | 3.0%                        | 1.5% - 4.4%                | 1.5%                                       |  |
| Percutaneous Intracardiac Procedures (273, 274)                              | \$374,852,913                     | 27.0%                       | 16.8% - 37.2%              | 1.2%                                       |  |
| Major procedure - Other  | \$354,133,665                     | 8.2%                        | (6.8%) - 23.2%             | 1.1%                                       |  |
| Hospital visit - subsequent  | \$352,048,988                     | 6.9%                        | 2.0% - 11.8%               | 1.1%                                       |  |
| Oncology - radiation therapy   | \$325,885,356                     | 35.7%                       | 11.8% - 59.7%              | 1.0%                                       |  |
| САН  | \$319,376,909                     | 4.7%                        | 2.5% - 6.8%                | 1.0%                                       |  |
| Endovascular Cardiac Valve Replacement &<br>Supplement Procedures (266, 267) | \$263,350,930                     | 9.2%                        | 6.4% - 11.9%               | 0.8%                                       |  |
| Ambulatory procedures - skin   | \$238,372,804                     | 9.8%                        | (1.7%) - 21.3%             | 0.7%                                       |  |
| Ambulance  | \$203,486,138                     | 5.2%                        | 2.2% - 8.2%                | 0.6%                                       |  |
| Chiropractic   | \$197,770,265                     | 36.3%                       | 26.1% - 46.5%              | 0.6%                                       |  |
| Other tests - other  | \$194,339,974                     | 12.4%                       | 7.0% - 17.9%               | 0.6%                                       |  |
| Office visits - established  | \$193,020,903                     | 1.1%                        | 0.5% - 1.7%                | 0.6%                                       |  |
| Minor procedures - musculoskeletal   | \$192,883,713                     | 18.6%                       | 5.1% - 32.1%               | 0.6%                                       |  |
| Overall (Incl. Codes Not Listed)   | \$19,612,324,668                  | 4.6%                        | 4.1% - 5.1%                | 60.9%                                      |  |

### Table F2: Top 20 Types of Services with Insufficient Documentation Errors

| Medicare FFS Services   | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |
|---|-----------------------------------|-----------------------------|----------------------------|--|
| Hospital Inpatient (Part A)   | \$1,845,179,563                   | 16.6%                       | 13.2% - 20.0%              | 5.7%                                       |
| Major Hip And Knee Joint Replacement Or<br>Reattachment Of Lower Extremity (469, 470) | \$578,080,061                     | 37.1%                       | 31.6% - 42.6%              | 1.8%                                       |
| Home Health   | \$575,674,746                     | 3.6%                        | 2.7% - 4.5%                | 1.8%                                       |
| Ambulance   | \$178,145,668                     | 4.6%                        | 2.0% - 7.1%                | 0.6%                                       |
| Hospital Outpatient   | \$85,866,104                      | 0.1%                        | 0.0% - 0.2%                | 0.3%                                       |
| Other Disorders Of Nervous System (091, 092, 093)                                     | \$68,959,005                      | 17.6%                       | 6.5% - 28.8%               | 0.2%                                       |
| Nonhospital based hospice   | \$56,397,817                      | 0.2%                        | (0.1%) - 0.6%              | 0.2%                                       |
| Combined Anterior/Posterior Spinal Fusion<br>(453, 454, 455)                          | \$54,016,908                      | 3.2%                        | (0.6%) - 7.0%              | 0.2%                                       |
| Degenerative Nervous System Disorders (056, 057)                                      | \$53,203,062                      | 7.1%                        | 2.7% - 11.4%               | 0.2%                                       |
| Percutaneous Intracardiac Procedures (273, 274)                                       | \$53,054,302                      | 3.8%                        | (2.5%) - 10.2%             | 0.2%                                       |
| Renal Failure (682, 683, 684)   | \$52,967,291                      | 3.3%                        | 0.2% - 6.4%                | 0.2%                                       |
| Back & Neck Proc Exc Spinal Fusion (518, 519, 520)                                    | \$50,802,089                      | 18.6%                       | (4.5%) - 41.6%             | 0.2%                                       |
| Respiratory Infections & Inflammations (177, 178, 179)                                | \$48,307,374                      | 0.7%                        | (0.0%) - 1.4%              | 0.2%                                       |
| Endovascular Cardiac Valve Replacement &<br>Supplement Procedures (266, 267)          | \$44,411,424                      | 1.5%                        | 0.4% - 2.7%                | 0.1%                                       |
| Other Major Cardiovascular Procedures (270, 271, 272)                                 | \$44,397,137                      | 3.3%                        | (2.9%) - 9.5%              | 0.1%                                       |
| Organic Disturbances & Intellectual Disability (884)                                  | \$43,466,041                      | 8.0%                        | (1.0%) - 17.1%             | 0.1%                                       |
| Circulatory Disorders Except AMI, W Card<br>Cath (286, 287)                           | \$42,173,232                      | 4.1%                        | 0.0% - 8.2%                | 0.1%                                       |
| Kidney & Urinary Tract Infections (689, 690)  | \$42,149,862                      | 3.3%                        | (1.2%) - 7.8%              | 0.1%                                       |
| Other Digestive System Diagnoses (393, 394, 395)                                      | \$38,954,379                      | 7.7%                        | 0.3% - 15.1%               | 0.1%                                       |
| Psychoses (885)   | \$36,591,817                      | 1.3%                        | (0.9%) - 3.6%              | 0.1%                                       |
| Overall (Incl. Codes Not Listed)  | \$5,658,234,587                   | 1.3%                        | 1.2% - 1.5%                | 17.6%                                      |

#### Table F3: Top 20 Types of Services with Medical Necessity Errors

| Medicare FFS Services  | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |  |
|--|-----------------------------------|-----------------------------|----------------------------|--|--|
| Office visits - established  | \$789,449,618                     | 4.5%                        | 3.7% - 5.3%                | 2.5%                                       |  |
| Hospital visit - initial   | \$296,224,511                     | 13.9%                       | 12.0% - 15.7%              | 0.9%                                       |  |
| Hospital visit - subsequent  | \$261,590,989                     | 5.1%                        | 4.1% - 6.1%                | 0.8%                                       |  |
| Hospital Outpatient  | \$243,389,204                     | 0.3%                        | (0.0%) - 0.7%              | 0.8%                                       |  |
| Office visits - new  | \$212,145,051                     | 6.2%                        | 4.4% - 8.1%                | 0.7%                                       |  |
| САН  | \$133,831,775                     | 1.9%                        | 0.1% - 3.8%                | 0.4%                                       |  |
| Hospital visit - critical care   | \$126,766,021                     | 11.7%                       | 6.5% - 16.8%               | 0.4%                                       |  |
| Nursing home visit   | \$116,302,324                     | 5.4%                        | 3.7% - 7.0%                | 0.4%                                       |  |
| Emergency room visit   | \$101,378,549                     | 5.8%                        | 4.0% - 7.6%                | 0.3%                                       |  |
| Clinic ESRD  | \$78,888,824                      | 0.8%                        | (0.6%) - 2.2%              | 0.2%                                       |  |
| Respiratory Infections & Inflammations (177, 178, 179)                     | \$64,166,119                      | 0.9%                        | (0.4%) - 2.2%              | 0.2%                                       |  |
| SNF Inpatient  | \$57,101,580                      | 0.2%                        | (0.1%) - 0.4%              | 0.2%                                       |  |
| Infectious & Parasitic Diseases W OR<br>Procedure (853, 854, 855)          | \$56,584,378                      | 1.6%                        | (0.0%) - 3.3%              | 0.2%                                       |  |
| GI Hemorrhage (377, 378, 379)  | \$55,087,961                      | 3.2%                        | (2.3%) - 8.7%              | 0.2%                                       |  |
| Extensive OR Procedure Unrelated To<br>Principal Diagnosis (981, 982, 983) | \$43,860,507                      | 3.5%                        | (1.0%) - 8.1%              | 0.1%                                       |  |
| Septicemia Or Severe Sepsis W/O MV >96<br>Hours (871, 872)                 | \$39,711,156                      | 0.4%                        | (0.0%) - 0.9%              | 0.1%                                       |  |
| Specialist - other   | \$38,430,758                      | 1.4%                        | (0.0%) - 2.8%              | 0.1%                                       |  |
| Renal Failure (682, 683, 684)  | \$37,078,836                      | 2.3%                        | (0.2%) - 4.9%              | 0.1%                                       |  |
| Home Health  | \$34,629,089                      | 0.2%                        | (0.1%) - 0.5%              | 0.1%                                       |  |
| Intracranial Hemorrhage Or Cerebral<br>Infarction (064, 065, 066)          | \$33,610,864                      | 1.8%                        | 0.0% - 3.6%                | 0.1%                                       |  |
| Overall (Incl. Codes Not Listed)   | \$3,629,058,073                   | 0.9%                        | 0.7% - 1.0%                | 11.3%                                      |  |

#### Table F4: Top 20 Types of Services with Incorrect Coding Errors

| Medicare FFS Services  | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |
|--|-----------------------------------|-----------------------------|----------------------------|--|
| Hospital Outpatient  | \$190,640,586                     | 0.3%                        | (0.1%) - 0.6%              | 0.6%                                       |
| Office visits - established  | \$116,074,627                     | 0.7%                        | 0.2% - 1.1%                | 0.4%                                       |
| Clinic ESRD  | \$78,799,152                      | 0.8%                        | (0.6%) - 2.2%              | 0.2%                                       |
| GI Hemorrhage (377, 378, 379)  | \$55,087,961                      | 3.2%                        | (2.3%) - 8.7%              | 0.2%                                       |
| САН  | \$45,346,321                      | 0.7%                        | (0.2%) - 1.6%              | 0.1%                                       |
| Hospital visit - subsequent  | \$30,286,270                      | 0.6%                        | 0.1% - 1.1%                | 0.1%                                       |
| Diabetes (637, 638, 639)   | \$28,011,675                      | 4.0%                        | (1.5%) - 9.6%              | 0.1%                                       |
| Respiratory System Diagnosis W Ventilator<br>Support <=96 Hours (208)        | \$27,629,157                      | 2.7%                        | (2.5%) - 7.9%              | 0.1%                                       |
| Septicemia Or Severe Sepsis W/O MV >96<br>Hours (871, 872)                   | \$24,847,614                      | 0.3%                        | (0.1%) - 0.6%              | 0.1%                                       |
| Office visits - new  | \$24,741,691                      | 0.7%                        | (0.1%) - 1.6%              | 0.1%                                       |
| Intracranial Hemorrhage Or Cerebral<br>Infarction (064, 065, 066)            | \$22,526,119                      | 1.2%                        | (0.1%) - 2.6%              | 0.1%                                       |
| Renal Failure (682, 683, 684)  | \$21,879,895                      | 1.4%                        | (0.4%) - 3.2%              | 0.1%                                       |
| Respiratory Infections & Inflammations (177, 178, 179)                       | \$17,286,425                      | 0.3%                        | (0.1%) - 0.6%              | 0.1%                                       |
| Hip & Femur Procedures Except Major Joint<br>(480, 481, 482)                 | \$15,218,470                      | 0.7%                        | (0.3%) - 1.6%              | 0.0%                                       |
| Cardiac Valve & Oth Maj Cardiothoracic Proc<br>W/O Card Cath (219, 220, 221) | \$14,114,091                      | 1.2%                        | (0.7%) - 3.0%              | 0.0%                                       |
| Simple Pneumonia & Pleurisy (193, 194, 195)                                  | \$12,525,571                      | 0.9%                        | (0.2%) - 2.0%              | 0.0%                                       |
| AMI, Discharged Alive (280, 281, 282)  | \$11,717,837                      | 0.7%                        | (0.7%) - 2.0%              | 0.0%                                       |
| Minor procedures - other (Medicare fee schedule)                             | \$11,182,875                      | 0.2%                        | (0.2%) - 0.6%              | 0.0%                                       |
| Esophagitis, Gastroent & Misc Digest<br>Disorders (391, 392)                 | \$10,579,035                      | 1.0%                        | (1.0%) - 3.0%              | 0.0%                                       |
| Specialist - psychiatry  | \$10,330,545                      | 0.8%                        | (0.4%) - 1.9%              | 0.0%                                       |
| Overall (Incl. Codes Not Listed)   | \$992,832,290                     | 0.2%                        | 0.2% - 0.3%                | 3.1%                                       |

#### Table F5: Top 20 Types of Services with Downcoding<sup>16</sup> Errors

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<sup>&</sup>lt;sup>16</sup> Downcoding refers to billing a lower level service or a service with a lower payment than is supported by the medical record documentation.

| Medicare FFS Services                            | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall Improper<br>Payments |  |
|--|-----------------------------------|-----------------------------|----------------------------|--|--|
| SNF Inpatient                                    | \$919,663,056                     | 2.9%                        | 1.6% - 4.2%                | 2.9%                                       |  |
| Minor procedures - other (Medicare fee schedule) | \$144,777,767                     | 2.7%                        | 0.0% - 5.3%                | 0.4%                                       |  |
| Home Health                                      | \$127,646,885                     | 0.8%                        | 0.2% - 1.4%                | 0.4%                                       |  |
| Specialist - other                               | \$83,575,411                      | 3.1%                        | 0.0% - 6.1%                | 0.3%                                       |  |
| Nonhospital based hospice                        | \$79,592,729                      | 0.4%                        | (0.0%) - 0.7%              | 0.2%                                       |  |
| Office visits - new                              | \$50,905,107                      | 1.5%                        | (0.3%) - 3.3%              | 0.2%                                       |  |
| Oral Anti-Cancer Drugs                           | \$45,380,520                      | 77.9%                       | 44.8% - 110.9%             | 0.1%                                       |  |
| Renal Failure (682, 683, 684)                    | \$44,886,419                      | 2.8%                        | (2.6%) - 8.2%              | 0.1%                                       |  |
| CPAP   | \$38,137,558                      | 3.6%                        | 2.0% - 5.3%                | 0.1%                                       |  |
| Ventilators                                      | \$32,278,603                      | 5.8%                        | 2.8% - 8.7%                | 0.1%                                       |  |
| Hospital visit - subsequent                      | \$30,660,769                      | 0.6%                        | (0.1%) - 1.3%              | 0.1%                                       |  |
| Office visits - established                      | \$30,458,737                      | 0.2%                        | (0.1%) - 0.4%              | 0.1%                                       |  |
| Lab tests - other (non-Medicare fee schedule)    | \$30,090,397                      | 0.7%                        | 0.2% - 1.1%                | 0.1%                                       |  |
| Oxygen Supplies/Equipment                        | \$26,053,122                      | 3.6%                        | 1.4% - 5.8%                | 0.1%                                       |  |
| Nursing home visit                               | \$25,673,873                      | 1.2%                        | (0.2%) - 2.5%              | 0.1%                                       |  |
| Automatic External Defibrillator                 | \$24,850,275                      | 16.5%                       | 4.9% - 28.1%               | 0.1%                                       |  |
| Lab tests - other (Medicare fee schedule)        | \$21,959,521                      | 1.4%                        | (0.6%) - 3.5%              | 0.1%                                       |  |
| All Policy Groups with Less than 30 Claims       | \$21,560,429                      | 7.7%                        | 2.6% - 12.8%               | 0.1%                                       |  |
| Parenteral Nutrition                             | \$20,992,717                      | 9.0%                        | 4.8% - 13.2%               | 0.1%                                       |  |
| Hospital visit - initial                         | \$19,734,917                      | 0.9%                        | 0.2% - 1.6%                | 0.1%                                       |  |
| Overall (Incl. Codes Not Listed)                 | \$2,141,969,977                   | 0.5%                        | 0.4% - 0.6%                | 6.7%                                       |  |

#### Table F6: Top 20 Types of Services with Other Errors

# **Appendix G: Projected Improper Payments by Type of Service for Each Claim Type**

This series of tables is sorted in descending order by projected improper payments. All estimates in these tables are based on a minimum of 30 lines in the sample.

| Part B Services (BETOS Codes)                    | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Office visits - established                      | 955                | \$1,116,881,372                   | 6.4%                        | 5.2% - 7.6%                | 3.5%  |
| Lab tests - other (non-Medicare fee schedule)    | 1,774              | \$1,041,921,347                   | 22.9%                       | 19.4% - 26.3%              | 3.2%  |
| Minor procedures - other (Medicare fee schedule) | 1,370              | \$819,762,199                     | 15.1%                       | 10.8% - 19.3%              | 2.5%  |
| Other drugs                                      | 1,187              | \$742,347,094                     | 6.4%                        | (0.9%) - 13.8%             | 2.3%  |
| Specialist - other                               | 972                | \$725,015,662                     | 26.5%                       | 20.2% - 32.8%              | 2.3%  |
| Hospital visit - subsequent                      | 728                | \$661,117,934                     | 12.9%                       | 8.1% - 17.7%               | 2.1%  |
| Hospital visit - initial                         | 558                | \$473,599,106                     | 22.2%                       | 19.4% - 24.9%              | 1.5%  |
| Ambulance  | 362                | \$421,830,079                     | 10.8%                       | 6.9% - 14.8%               | 1.3%  |
| Major procedure - Other                          | 213                | \$354,155,312                     | 8.2%                        | (6.8%) - 23.2%             | 1.1%  |
| Nursing home visit                               | 469                | \$348,327,738                     | 16.1%                       | 11.8% - 20.4%              | 1.1%  |
| Oncology - radiation therapy                     | 108                | \$331,231,063                     | 36.3%                       | 12.5% - 60.2%              | 1.0%  |
| Office visits - new                              | 263                | \$319,432,777                     | 9.4%                        | 6.5% - 12.2%               | 1.0%  |
| All Codes With Less Than 30 Claims               | 1,097              | \$312,555,735                     | 2.3%                        | 1.1% - 3.6%                | 1.0%  |
| Ambulatory procedures - skin                     | 243                | \$250,549,621                     | 10.3%                       | (1.1%) - 21.7%             | 0.8%  |
| Chiropractic                                     | 157                | \$214,123,439                     | 39.3%                       | 29.0% - 49.5%              | 0.7%  |
| Other tests - other                              | 687                | \$212,625,465                     | 13.6%                       | 8.0% - 19.2%               | 0.7%  |
| Advanced imaging - CAT/CT/CTA: other             | 263                | \$205,196,406                     | 15.3%                       | 8.7% - 21.9%               | 0.6%  |
| Minor procedures - musculoskeletal               | 158                | \$201,295,802                     | 19.4%                       | 5.9% - 32.9%               | 0.6%  |
| Hospital visit - critical care                   | 212                | \$188,342,835                     | 17.3%                       | 11.9% - 22.7%              | 0.6%  |
| Specialist - psychiatry                          | 437                | \$186,055,660                     | 13.5%                       | 8.1% - 18.9%               | 0.6%  |
| Ambulatory procedures - other                    | 277                | \$159,787,114                     | 24.5%                       | 14.2% - 34.9%              | 0.5%  |
| Eye procedure - other                            | 109                | \$155,075,870                     | 11.6%                       | (3.6%) - 26.9%             | 0.5%  |
| Eye procedure - cataract removal/lens insertion  | 145                | \$149,241,566                     | 8.2%                        | 3.1% - 13.4%               | 0.5%  |
| Emergency room visit                             | 241                | \$132,720,969                     | 7.6%                        | 5.1% - 10.1%               | 0.4%  |
| Advanced imaging - MRI/MRA: other                | 116                | \$120,916,587                     | 9.6%                        | 1.1% - 18.1%               | 0.4%  |
| Anesthesia                                       | 173                | \$114,310,438                     | 7.3%                        | 1.0% - 13.5%               | 0.4%  |
| Echography/ultrasonography - other               | 142                | \$96,278,253                      | 18.8%                       | 5.0% - 32.5%               | 0.3%  |
| Other - Medicare fee schedule                    | 185                | \$90,454,464                      | 41.1%                       | 23.7% - 58.5%              | 0.3%  |
| Minor procedures - skin                          | 186                | \$78,343,286                      | 7.8%                        | 3.2% - 12.5%               | 0.2%  |
| Dialysis services (Medicare Fee Schedule)        | 87                 | \$72,734,794                      | 8.4%                        | (0.8%) - 17.5%             | 0.2%  |
| Specialist - ophthalmology                       | 154                | \$72,517,422                      | 3.8%                        | 0.8% - 6.8%                | 0.2%  |
| Standard imaging - nuclear medicine              | 225                | \$70,831,067                      | 7.8%                        | 2.5% - 13.1%               | 0.2%  |

#### Table G1: Improper Payment Rates by Service Type: Part B

| Part B Services (BETOS Codes)                                   | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Standard imaging - other  | 98                 | \$67,535,807                      | 27.2%                       | 11.5% - 43.0%              | 0.2%  |
| Lab tests - other (Medicare fee schedule)                       | 202                | \$62,957,630                      | 4.1%                        | 0.6% - 7.6%                | 0.2%  |
| Endoscopy - colonoscopy   | 81                 | \$52,985,213                      | 6.5%                        | (3.6%) - 16.6%             | 0.2%  |
| Imaging/procedure - other                                       | 161                | \$48,886,884                      | 22.1%                       | (0.4%) - 44.6%             | 0.2%  |
| Standard imaging - musculoskeletal                              | 170                | \$45,207,465                      | 9.0%                        | 3.6% - 14.4%               | 0.1%  |
| Lab tests - blood counts  | 284                | \$37,717,431                      | 18.6%                       | 12.7% - 24.4%              | 0.1%  |
| Echography/ultrasonography - carotid arteries                   | 71                 | \$36,405,913                      | 23.7%                       | 8.2% - 39.2%               | 0.1%  |
| Lab tests - automated general profiles                          | 252                | \$35,808,787                      | 12.8%                       | 7.7% - 17.9%               | 0.1%  |
| Standard imaging - chest  | 135                | \$29,364,731                      | 12.8%                       | 5.2% - 20.5%               | 0.1%  |
| Other - non-Medicare fee schedule                               | 93                 | \$27,970,321                      | 72.7%                       | 57.8% - 87.7%              | 0.1%  |
| Standard imaging - breast                                       | 76                 | \$23,596,950                      | 4.0%                        | (1.1%) - 9.1%              | 0.1%  |
| Other tests - electrocardiograms                                | 245                | \$23,206,031                      | 9.1%                        | 4.5% - 13.7%               | 0.1%  |
| Advanced imaging - CAT/CT/CTA:<br>brain/head/neck               | 46                 | \$13,437,063                      | 3.9%                        | (1.7%) - 9.4%              | 0.0%  |
| Lab tests - routine venipuncture (non-<br>Medicare fee schedule | 341                | \$12,843,865                      | 12.9%                       | 8.4% - 17.4%               | 0.0%  |
| Echography/ultrasonography - heart                              | 153                | \$9,813,110                       | 1.5%                        | (0.5%) - 3.4%              | 0.0%  |
| Lab tests - bacterial cultures                                  | 40                 | \$9,562,347                       | 15.1%                       | 0.9% - 29.4%               | 0.0%  |
| Lab tests - urinalysis  | 105                | \$6,834,258                       | 20.2%                       | 10.8% - 29.7%              | 0.0%  |
| Undefined codes   | 410                | \$4,158,411                       | 1.6%                        | 0.0% - 3.1%                | 0.0%  |
| Immunizations/Vaccinations                                      | 365                | \$241,894                         | 0.0%                        | (0.0%) - 0.0%              | 0.0%  |
| All Type of Services (Incl. Codes Not Listed)                   | 12,001             | \$10,988,112,586                  | 10.0%                       | 8.6% - 11.5%               | 34.1%   |

| DMEPOS (Policy Group)                      | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Surgical Dressings                         | 370                | \$262,611,125                     | 62.1%                       | 50.2% - 74.1%              | 0.8%  |
| СРАР                                       | 1,034              | \$157,518,140                     | 15.0%                       | 11.9% - 18.0%              | 0.5%  |
| Ventilators                                | 241                | \$135,950,716                     | 24.3%                       | 16.2% - 32.4%              | 0.4%  |
| Urological Supplies                        | 255                | \$116,587,196                     | 28.1%                       | 16.6% - 39.7%              | 0.4%  |
| Glucose Monitor                            | 791                | \$103,199,765                     | 13.5%                       | 10.0% - 17.0%              | 0.3%  |
| All Policy Groups with Less than 30 Claims | 295                | \$100,326,388                     | 35.8%                       | 20.9% - 50.7%              | 0.3%  |
| Lower Limb Orthoses                        | 432                | \$92,013,669                      | 36.6%                       | 28.3% - 44.8%              | 0.3%  |
| Parenteral Nutrition                       | 295                | \$86,363,169                      | 37.1%                       | 29.4% - 44.8%              | 0.3%  |
| Oxygen Supplies/Equipment                  | 480                | \$82,708,468                      | 11.4%                       | 7.8% - 15.0%               | 0.3%  |
| Infusion Pumps & Related Drugs             | 396                | \$80,984,423                      | 12.5%                       | 6.9% - 18.2%               | 0.3%  |
| Nebulizers & Related Drugs                 | 804                | \$69,487,411                      | 13.2%                       | 9.0% - 17.3%               | 0.2%  |
| Ostomy Supplies                            | 233                | \$56,836,415                      | 25.6%                       | 17.7% - 33.5%              | 0.2%  |
| Wheelchairs Options/Accessories            | 336                | \$54,349,900                      | 19.6%                       | 9.6% - 29.6%               | 0.2%  |
| Oral Anti-Cancer Drugs                     | 49                 | \$48,939,965                      | 84.0%                       | 59.8% - 108.1%             | 0.2%  |
| Diabetic Shoes                             | 126                | \$47,463,560                      | 51.4%                       | 35.9% - 66.8%              | 0.1%  |
| Enteral Nutrition                          | 246                | \$43,246,587                      | 28.7%                       | 18.8% - 38.5%              | 0.1%  |
| Immunosuppressive Drugs                    | 376                | \$43,190,520                      | 15.7%                       | 8.9% - 22.4%               | 0.1%  |
| Wheelchairs Manual                         | 264                | \$42,783,319                      | 42.6%                       | 34.6% - 50.7%              | 0.1%  |
| LSO  | 216                | \$42,602,055                      | 36.4%                       | 27.1% - 45.8%              | 0.1%  |
| Pneumatic Compression Device               | 84                 | \$41,580,669                      | 78.9%                       | 65.6% - 92.2%              | 0.1%  |
| Upper Limb Orthoses                        | 232                | \$41,576,093                      | 40.9%                       | 33.1% - 48.8%              | 0.1%  |
| Intravenous Immune Globulin                | 138                | \$25,749,928                      | 13.5%                       | 4.8% - 22.1%               | 0.1%  |
| Automatic External Defibrillator           | 38                 | \$24,850,275                      | 16.5%                       | 4.9% - 28.1%               | 0.1%  |
| Negative Pressure Wound Therapy            | 79                 | \$23,382,800                      | 25.4%                       | 11.2% - 39.7%              | 0.1%  |
| Lower Limb Prostheses                      | 171                | \$20,668,386                      | 6.0%                        | 1.9% - 10.2%               | 0.1%  |
| Hospital Beds/Accessories                  | 103                | \$18,591,948                      | 30.1%                       | 17.6% - 42.6%              | 0.1%  |
| Lenses                                     | 56                 | \$16,103,713                      | 70.7%                       | 55.5% - 85.8%              | 0.1%  |
| Wheelchairs Seating                        | 162                | \$15,478,679                      | 29.2%                       | 14.3% - 44.0%              | 0.0%  |
| Respiratory Assist Device                  | 87                 | \$8,921,648                       | 9.9%                        | 2.8% - 17.1%               | 0.0%  |
| Walkers                                    | 77                 | \$8,723,698                       | 24.8%                       | 11.5% - 38.2%              | 0.0%  |
| Tracheostomy Supplies                      | 65                 | \$8,288,037                       | 22.5%                       | 9.6% - 35.5%               | 0.0%  |
| Wheelchairs Motorized                      | 101                | \$5,082,585                       | 4.3%                        | (0.3%) - 9.0%              | 0.0%  |
| Suction Pump                               | 101                | \$4,623,583                       | 26.1%                       | 10.7% - 41.4%              | 0.0%  |
| Commodes/Bed Pans/Urinals                  | 72                 | \$4,403,166                       | 47.7%                       | 30.9% - 64.4%              | 0.0%  |
| Orthopedic Footwear                        | 39                 | \$4,347,018                       | 100.0%                      | 100.0% - 100.0%            | 0.0%  |
| Repairs/DMEPOS                             | 38                 | \$2,535,586                       | 33.3%                       | 18.0% - 48.6%              | 0.0%  |
| Other Neuromuscular Stimulators            | 40                 | \$2,129,090                       | 22.6%                       | 9.4% - 35.7%               | 0.0%  |
| HFCWO Device                               | 40                 | \$1,779,477                       | 2.6%                        | (2.5%) - 7.7%              | 0.0%  |
| Patient Lift                               | 55                 | \$1,517,941                       | 10.9%                       | 2.7% - 19.1%               | 0.0%  |

## Table G2: Improper Payment Rates by Service Type: DMEPOS

| DMEPOS (Policy Group)                         | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Misc Drugs                                    | 35                 | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| Routinely Denied Items                        | 128                | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| All Type of Services (Incl. Codes Not Listed) | 8,248              | \$1,947,497,111                   | 22.5%                       | 20.5% - 24.5%              | 6.0%  |

| Part A Excluding Hospital IPPS<br>Services (TOB) | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| SNF Inpatient                                    | 1,500              | \$4,752,469,358                   | 14.9%                       | 12.4% - 17.4%              | 14.8%   |
| Hospital Outpatient                              | 2,249              | \$3,931,281,258                   | 5.4%                        | 3.6% - 7.2%                | 12.2%   |
| Hospital Inpatient (Part A)                      | 950                | \$1,966,884,489                   | 17.7%                       | 14.2% - 21.2%              | 6.1%  |
| Home Health                                      | 1,206              | \$1,230,945,533                   | 7.7%                        | 5.9% - 9.4%                | 3.8%  |
| Nonhospital based hospice                        | 737                | \$1,165,731,047                   | 5.2%                        | 3.3% - 7.0%                | 3.6%  |
| САН  | 270                | \$466,486,942                     | 6.8%                        | 4.0% - 9.6%                | 1.4%  |
| Clinic ESRD                                      | 616                | \$204,605,640                     | 2.1%                        | 0.4% - 3.8%                | 0.6%  |
| Hospital based hospice                           | 148                | \$127,383,669                     | 8.2%                        | 3.6% - 12.9%               | 0.4%  |
| Clinic OPT                                       | 88                 | \$115,475,866                     | 10.8%                       | 2.5% - 19.1%               | 0.4%  |
| Clinical Rural Health                            | 302                | \$64,083,657                      | 3.6%                        | 1.6% - 5.6%                | 0.2%  |
| FQHC   | 69                 | \$60,839,466                      | 5.3%                        | 0.2% - 10.4%               | 0.2%  |
| SNF Inpatient Part B                             | 88                 | \$33,606,859                      | 1.2%                        | 0.1% - 2.4%                | 0.1%  |
| Hospital Other Part B                            | 101                | \$31,864,073                      | 5.0%                        | 2.1% - 7.8%                | 0.1%  |
| All Codes With Less Than 30 Claims               | 11                 | \$22,675,289                      | 1.4%                        | (1.5%) - 4.3%              | 0.1%  |
| Clinic CORF                                      | 76                 | \$14,278,364                      | 53.5%                       | 38.9% - 68.1%              | 0.0%  |
| Hospital Inpatient Part B                        | 45                 | \$14,060,165                      | 0.8%                        | (0.1%) - 1.6%              | 0.0%  |
| SNF Outpatient                                   | 50                 | \$13,467,557                      | 4.5%                        | 0.2% - 8.7%                | 0.0%  |
| All Type of Services (Incl. Codes Not Listed)    | 8,506              | \$14,216,139,233                  | 7.8%                        | 6.8% - 8.7%                | 44.1%   |

### Table G3: Improper Payment Rates by Service Type: Part A Excluding Hospital IPPS

| Part A Hospital IPPS Services (MS-<br>DRGs)   | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| All Codes With Less Than 30 Claims  | 1,768              | \$1,078,427,937                   | 3.6%                        | 2.7% - 4.5%                | 3.3%  |
| Major Hip And Knee Joint Replacement Or<br>Reattachment Of Lower Extremity (469, 470) | 456                | \$633,818,171                     | 40.6%                       | 35.1% - 46.2%              | 2.0%  |
| Percutaneous Intracardiac Procedures (273, 274)                                       | 178                | \$431,040,599                     | 31.0%                       | 20.0% - 42.1%              | 1.3%  |
| Endovascular Cardiac Valve Replacement &<br>Supplement Procedures (266, 267)          | 424                | \$321,105,091                     | 11.2%                       | 8.2% - 14.1%               | 1.0%  |
| Respiratory Infections & Inflammations (177, 178, 179)                                | 120                | \$231,656,917                     | 3.4%                        | 0.1% - 6.6%                | 0.7%  |
| Combined Anterior/Posterior Spinal Fusion (453, 454, 455)                             | 79                 | \$165,998,818                     | 9.9%                        | 3.6% - 16.1%               | 0.5%  |
| Renal Failure (682, 683, 684)   | 108                | \$134,932,546                     | 8.5%                        | 1.9% - 15.0%               | 0.4%  |
| GI Hemorrhage (377, 378, 379)   | 114                | \$90,916,394                      | 5.3%                        | (0.5%) - 11.1%             | 0.3%  |
| Septicemia Or Severe Sepsis W/O MV >96<br>Hours (871, 872)                            | 390                | \$84,142,339                      | 0.9%                        | (0.1%) - 1.8%              | 0.3%  |
| Degenerative Nervous System Disorders (056, 057)                                      | 200                | \$79,193,568                      | 10.5%                       | 5.3% - 15.7%               | 0.2%  |
| Infectious & Parasitic Diseases W OR<br>Procedure (853, 854, 855)                     | 93                 | \$74,645,730                      | 2.1%                        | 0.2% - 4.0%                | 0.2%  |
| Other Disorders Of Nervous System (091, 092, 093)                                     | 52                 | \$70,850,249                      | 18.1%                       | 7.0% - 29.3%               | 0.2%  |
| Extensive OR Procedure Unrelated To<br>Principal Diagnosis (981, 982, 983)            | 84                 | \$62,823,144                      | 5.1%                        | 0.3% - 9.8%                | 0.2%  |
| Cardiac Defibrillator Implant W/O Cardiac<br>Cath (226, 227)                          | 90                 | \$55,024,135                      | 18.7%                       | 10.2% - 27.2%              | 0.2%  |
| Back & Neck Proc Exc Spinal Fusion (518, 519, 520)                                    | 111                | \$54,499,746                      | 19.9%                       | (3.0%) - 42.8%             | 0.2%  |
| Diabetes (637, 638, 639)  | 50                 | \$54,133,305                      | 7.7%                        | (1.2%) - 16.7%             | 0.2%  |
| Cervical Spinal Fusion (471, 472, 473)  | 80                 | \$51,474,366                      | 10.0%                       | (0.6%) - 20.6%             | 0.2%  |
| AMI, Discharged Alive (280, 281, 282)   | 100                | \$50,097,047                      | 2.9%                        | (0.1%) - 5.8%              | 0.2%  |
| Stomach, Esophageal & Duodenal Proc (326, 327, 328)                                   | 40                 | \$49,751,673                      | 7.4%                        | (0.4%) - 15.1%             | 0.2%  |
| Other Kidney & Urinary Tract Diagnoses (698, 699, 700)                                | 66                 | \$48,332,889                      | 4.2%                        | (0.5%) - 8.9%              | 0.2%  |
| Kidney & Urinary Tract Infections (689, 690)  | 63                 | \$48,281,348                      | 3.8%                        | (0.8%) - 8.3%              | 0.1%  |
| Intracranial Hemorrhage Or Cerebral<br>Infarction (064, 065, 066)                     | 157                | \$46,482,678                      | 2.5%                        | 0.5% - 4.5%                | 0.1%  |
| Other Major Cardiovascular Procedures (270, 271, 272)                                 | 99                 | \$46,338,378                      | 3.4%                        | (2.7%) - 9.6%              | 0.1%  |
| Major Joint/Limb Reattachment Procedure Of<br>Upper Extremities (483)                 | 32                 | \$44,791,001                      | 12.9%                       | 0.7% - 25.2%               | 0.1%  |
| Organic Disturbances & Intellectual Disability<br>(884)                               | 31                 | \$44,766,291                      | 8.3%                        | (0.8%) - 17.4%             | 0.1%  |
| Cardiac Arrhythmia & Conduction Disorders<br>(308, 309, 310)                          | 142                | \$44,548,309                      | 3.8%                        | 1.1% - 6.4%                | 0.1%  |
| Misc Disorders Of Nutrition, Metabolism,<br>Fluids/Electrolytes (640, 641)            | 82                 | \$43,253,085                      | 4.1%                        | 1.2% - 7.0%                | 0.1%  |
| Circulatory Disorders Except AMI, W Card<br>Cath (286, 287)                           | 67                 | \$42,173,232                      | 4.1%                        | 0.0% - 8.2%                | 0.1%  |
| Psychoses (885)   | 76                 | \$39,965,285                      | 1.5%                        | (0.8%) - 3.8%              | 0.1%  |
| Other Musculoskelet Sys & Conn Tiss OR<br>Proc (515, 516, 517)                        | 72                 | \$39,728,934                      | 16.1%                       | 2.1% - 30.1%               | 0.1%  |
| Other Digestive System Diagnoses (393, 394, 395)                                      | 55                 | \$39,287,598                      | 7.8%                        | 0.4% - 15.2%               | 0.1%  |
| Major Small & Large Bowel Procedures (329, 330, 331)                                  | 85                 | \$38,570,936                      | 1.5%                        | (1.2%) - 4.1%              | 0.1%  |
| Hip & Femur Procedures Except Major Joint<br>(480, 481, 482)                          | 109                | \$36,561,975                      | 1.6%                        | (0.1%) - 3.3%              | 0.1%  |
| Signs & Symptoms (947, 948)   | 95                 | \$32,371,640                      | 14.7%                       | 6.1% - 23.3%               | 0.1%  |

## Table G4: Improper Payment Rates by Service Type: Part A Hospital IPPS

| Part A Hospital IPPS Services (MS-<br>DRGs)                                  | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Medical Back Problems (551, 552)   | 43                 | \$31,813,783                      | 6.8%                        | 0.1% - 13.5%               | 0.1%  |
| Peripheral Vascular Disorders (299, 300, 301)                                | 46                 | \$30,880,280                      | 6.0%                        | (2.0%) - 14.1%             | 0.1%  |
| Other Vascular Procedures (252, 253, 254)                                    | 84                 | \$29,162,930                      | 2.8%                        | (1.0%) - 6.6%              | 0.1%  |
| Fractures Of Hip & Pelvis (535, 536)   | 45                 | \$28,188,872                      | 11.3%                       | 3.2% - 19.4%               | 0.1%  |
| Respiratory System Diagnosis W Ventilator<br>Support <=96 Hours (208)        | 41                 | \$27,629,157                      | 2.7%                        | (2.5%) - 7.9%              | 0.1%  |
| Chronic Obstructive Pulmonary Disease (190, 191, 192)                        | 87                 | \$27,389,766                      | 3.1%                        | 0.3% - 5.9%                | 0.1%  |
| Complications Of Treatment (919, 920, 921)                                   | 31                 | \$23,860,956                      | 5.5%                        | (5.0%) - 16.0%             | 0.1%  |
| Cirrhosis & Alcoholic Hepatitis (432, 433, 434)                              | 36                 | \$21,919,756                      | 6.1%                        | (2.2%) - 14.4%             | 0.1%  |
| Aftercare, Musculoskeletal System &<br>Connective Tissue (559, 560, 561)     | 313                | \$21,295,408                      | 14.4%                       | 9.4% - 19.4%               | 0.1%  |
| Seizures (100, 101)  | 49                 | \$21,212,727                      | 3.4%                        | (0.6%) - 7.4%              | 0.1%  |
| Red Blood Cell Disorders (811, 812)  | 58                 | \$20,584,555                      | 3.7%                        | (1.7%) - 9.0%              | 0.1%  |
| Cellulitis (602, 603)  | 89                 | \$20,416,057                      | 4.3%                        | 0.8% - 7.8%                | 0.1%  |
| Nonspecific Cerebrovascular Disorders (070, 071, 072)                        | 47                 | \$20,170,820                      | 6.6%                        | 0.1% - 13.1%               | 0.1%  |
| Revision Of Hip Or Knee Replacement (466, 467, 468)                          | 64                 | \$18,928,157                      | 2.2%                        | (0.8%) - 5.3%              | 0.1%  |
| Simple Pneumonia & Pleurisy (193, 194, 195)                                  | 91                 | \$18,646,425                      | 1.3%                        | (0.1%) - 2.7%              | 0.1%  |
| Bilateral Or Multiple Major Joint Procs Of<br>Lower Extremity (461, 462)     | 72                 | \$18,131,138                      | 28.7%                       | 18.0% - 39.4%              | 0.1%  |
| Heart Transplant Or Implant Of Heart Assist<br>System (001, 002)             | 30                 | \$17,820,997                      | 3.0%                        | (0.3%) - 6.2%              | 0.1%  |
| Coronary Bypass W/O Cardiac Cath (235, 236)                                  | 33                 | \$16,740,131                      | 2.2%                        | (0.7%) - 5.1%              | 0.1%  |
| Permanent Cardiac Pacemaker Implant (242, 243, 244)                          | 57                 | \$16,672,721                      | 1.4%                        | (0.6%) - 3.5%              | 0.1%  |
| Other Circulatory System Diagnoses (314, 315, 316)                           | 73                 | \$15,781,373                      | 2.4%                        | (1.1%) - 5.9%              | 0.0%  |
| Heart Failure & Shock (291, 292, 293)  | 55                 | \$15,713,772                      | 0.4%                        | (0.2%) - 1.1%              | 0.0%  |
| Cardiac Valve & Oth Maj Cardiothoracic Proc<br>W/O Card Cath (219, 220, 221) | 39                 | \$15,109,930                      | 1.2%                        | (0.6%) - 3.1%              | 0.0%  |
| GI Obstruction (388, 389, 390)   | 70                 | \$14,960,640                      | 2.6%                        | (0.4%) - 5.7%              | 0.0%  |
| Fx, Sprn, Strn & Disl Except Femur, Hip,<br>Pelvis & Thigh (562, 563)        | 30                 | \$13,889,069                      | 9.7%                        | (0.4%) - 19.8%             | 0.0%  |
| Esophagitis, Gastroent & Misc Digest<br>Disorders (391, 392)                 | 61                 | \$13,676,845                      | 1.3%                        | (0.8%) - 3.4%              | 0.0%  |
| ECMO Or Trach W MV >96 Hrs Or PDX Exc<br>Face, Mouth & Neck (003)            | 37                 | \$12,897,526                      | 0.6%                        | (0.3%) - 1.5%              | 0.0%  |
| Pulmonary Edema & Respiratory Failure (189)                                  | 106                | \$10,019,181                      | 0.6%                        | (0.6%) - 1.8%              | 0.0%  |
| Septicemia Or Severe Sepsis W MV >96<br>Hours (870)                          | 169                | \$9,774,698                       | 0.5%                        | (0.4%) - 1.4%              | 0.0%  |
| Hip Replacement With Principal Diagnosis Of<br>Hip Fracture (521, 522)       | 69                 | \$9,681,902                       | 0.6%                        | (0.6%) - 1.9%              | 0.0%  |
| Cardiac Valve & Oth Maj Cardiothoracic Proc<br>W Card Cath (216, 217, 218)   | 60                 | \$8,945,707                       | 1.7%                        | (0.2%) - 3.6%              | 0.0%  |
| Other OR Procedures For Injuries (907, 908, 909)                             | 38                 | \$8,549,652                       | 1.7%                        | (1.3%) - 4.7%              | 0.0%  |
| Aftercare (949, 950)   | 109                | \$8,190,802                       | 15.1%                       | 3.9% - 26.4%               | 0.0%  |
| Postoperative Or Post-Traumatic Infections W<br>OR Proc (856, 857, 858)      | 33                 | \$8,124,301                       | 3.0%                        | (1.4%) - 7.4%              | 0.0%  |
| Lower Extrem & Humer Proc Except Hip,<br>Foot, Femur (492, 493, 494)         | 62                 | \$7,401,389                       | 1.7%                        | (0.4%) - 3.7%              | 0.0%  |
| Other Circulatory System OR Procedures (264)                                 | 57                 | \$7,183,146                       | 4.2%                        | (1.2%) - 9.5%              | 0.0%  |

| Part A Hospital IPPS Services (MS-<br>DRGs)                               | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Hypertension (304, 305)   | 32                 | \$6,753,671                       | 2.9%                        | (2.7%) - 8.5%              | 0.0%  |
| Laparoscopic Cholecystectomy W/O C.D.E. (417, 418, 419)                   | 36                 | \$6,609,300                       | 1.2%                        | (1.1%) - 3.5%              | 0.0%  |
| Disorders Of Pancreas Except Malignancy (438, 439, 440)                   | 41                 | \$5,204,033                       | 1.3%                        | (1.3%) - 3.9%              | 0.0%  |
| Autologous Bone Marrow Transplant (016, 017)                              | 32                 | \$3,648,834                       | 2.9%                        | (2.6%) - 8.5%              | 0.0%  |
| AICD Generator Procedures (245)   | 52                 | \$2,155,374                       | 5.9%                        | (0.5%) - 12.3%             | 0.0%  |
| Female Reproductive System Reconstructive<br>Procedures (748)             | 56                 | \$1,504,677                       | 15.9%                       | 5.1% - 26.8%               | 0.0%  |
| Amputation For Circ Sys Disorders Exc Upper<br>Limb & Toe (239, 240, 241) | 30                 | \$1,003,804                       | 0.3%                        | (0.2%) - 0.8%              | 0.0%  |
| Disorders Of Liver Except Malig, Cirr, Alc<br>Hepa (441, 442, 443)        | 38                 | \$422,796                         | 0.1%                        | (0.1%) - 0.4%              | 0.0%  |
| Pulmonary Embolism (175, 176)   | 39                 | \$292,242                         | 0.1%                        | (0.1%) - 0.2%              | 0.0%  |
| Major Chest Procedures (163, 164, 165)                                    | 45                 | \$191,672                         | 0.0%                        | (0.0%) - 0.1%              | 0.0%  |
| Alcohol/Drug Abuse Or Dependence W/O<br>Rehabilitation Therapy (896, 897) | 47                 | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| Coronary Bypass W Cardiac Cath (233, 234)                                 | 48                 | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| Kidney & Ureter Procedures For Non-<br>Neoplasm (659, 660, 661)           | 31                 | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| Trach W MV >96 Hrs Or PDX Exc Face,<br>Mouth & Neck (004)                 | 74                 | \$0                               | 0.0%                        | N/A                        | 0.0%  |
| All Type of Services (Incl. Codes Not Listed)                             | 8,753              | \$5,049,136,325                   | 4.2%                        | 3.7% - 4.6%                | 15.7%   |

## **Appendix H: Projected Improper Payments by Referring Provider Type for Specific Types of Service**

This series of tables is sorted in descending order by projected improper payments. All estimates in these tables are based on a minimum of 30 lines in the sample. Appendix H shows the referring providers or provider types for the top three service types for Part B and DMEPOS.

| Office visits - established                 | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Internal Medicine                           | 152                | \$209,937,302                     | 8.2%                        | 3.8% - 12.6%               | 18.8%  |
| Family Practice                             | 120                | \$157,006,837                     | 7.2%                        | 3.2% - 11.2%               | 14.1%  |
| Nurse Practitioner                          | 102                | \$116,678,708                     | 6.8%                        | 3.0% - 10.7%               | 10.4%  |
| All Provider Types With Less Than 30 Claims | 69                 | \$68,466,588                      | 5.8%                        | 2.5% - 9.1%                | 6.1%   |
| Cardiology                                  | 66                 | \$55,120,537                      | 3.8%                        | 0.8% - 6.8%                | 4.9%   |
| Dermatology                                 | 36                 | \$45,911,080                      | 5.1%                        | (0.5%) - 10.7%             | 4.1%   |
| Physician Assistant                         | 60                 | \$27,426,417                      | 2.5%                        | (0.4%) - 5.4%              | 2.5%   |
| Hematology/Oncology                         | 33                 | \$27,204,726                      | 5.1%                        | 0.8% - 9.5%                | 2.4%   |
| All Provider Types                          | 955                | \$1,116,881,372                   | 6.4%                        | 5.2% - 7.6%                | 100.0%   |

#### Table H1: Improper Payment Rates for Office visits - established by Referring Provider

# Table H2: Improper Payment Rates for Lab tests - other (non-Medicare fee schedule) by Provider Type

| Lab tests - other (non-Medicare fee<br>schedule) | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Internal Medicine                                | 606                | \$321,198,366                     | 20.3%                       | 14.9% - 25.6%              | 30.8%  |
| Nurse Practitioner                               | 214                | \$210,054,147                     | 28.3%                       | 18.3% - 38.4%              | 20.2%  |
| Family Practice                                  | 218                | \$149,996,375                     | 21.0%                       | 11.6% - 30.4%              | 14.4%  |
| Physician Assistant                              | 79                 | \$67,550,544                      | 21.3%                       | 8.8% - 33.7%               | 6.5%   |
| No Referring Provider Type                       | 64                 | \$36,470,989                      | 24.5%                       | 9.8% - 39.2%               | 3.5%   |
| General Surgery                                  | 82                 | \$32,680,086                      | 28.5%                       | 7.6% - 49.3%               | 3.1%   |
| Anesthesiology                                   | 67                 | \$28,649,741                      | 42.6%                       | 28.1% - 57.1%              | 2.7%   |
| Urology  | 89                 | \$26,402,283                      | 15.4%                       | 1.3% - 29.4%               | 2.5%   |
| Physical Medicine and Rehabilitation             | 35                 | \$21,067,909                      | 51.0%                       | 31.7% - 70.3%              | 2.0%   |
| Obstetrics/Gynecology                            | 35                 | \$18,814,694                      | 17.3%                       | 2.4% - 32.2%               | 1.8%   |
| Interventional Pain Management                   | 38                 | \$12,348,925                      | 19.3%                       | (1.0%) - 39.7%             | 1.2%   |
| Radiation Oncology                               | 32                 | \$4,051,574                       | 23.8%                       | 1.1% - 46.5%               | 0.4%   |
| All Referring Providers                          | 1,774              | \$1,041,921,347                   | 22.9%                       | 19.4% - 26.3%              | 100.0%   |

# Table H3: Improper Payment Rates for Minor procedures - other (Medicare fee schedule) by Provider Type

| Minor procedures - other (Medicare<br>fee schedule) | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|---|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| General Surgery                                     | 168                | \$216,211,220                     | 20.9%                       | 12.4% - 29.4%              | 26.4%  |
| Family Practice                                     | 176                | \$164,014,479                     | 14.8%                       | 2.7% - 26.9%               | 20.0%  |
| Internal Medicine                                   | 395                | \$143,723,928                     | 14.8%                       | 3.0% - 26.6%               | 17.5%  |
| Nurse Practitioner                                  | 81                 | \$65,081,279                      | 19.7%                       | 6.5% - 33.0%               | 7.9%   |
| No Referring Provider Type                          | 214                | \$53,108,365                      | 11.8%                       | 2.1% - 21.6%               | 6.5%   |
| Physician Assistant                                 | 42                 | \$26,176,537                      | 12.6%                       | (0.9%) - 26.2%             | 3.2%   |
| Neurology   | 78                 | \$23,772,105                      | 13.8%                       | (5.5%) - 33.1%             | 2.9%   |
| Otolaryngology                                      | 33                 | \$140,646                         | 0.4%                        | (0.3%) - 1.0%              | 0.0%   |
| Dermatology   | 30                 | \$0                               | 0.0%                        | 0.0% - 0.0%                | 0.0%   |
| All Referring Providers                             | 1,370              | \$819,762,199                     | 15.1%                       | 10.8% - 19.3%              | 100.0%   |

### Table H4: Improper Payment Rates for Surgical Dressings by Referring Provider

| Surgical Dressings      | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|-------------------------|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Family Practice         | 94                 | \$93,945,876                      | 72.5%                       | 51.2% - 93.8%              | 35.8%  |
| General Surgery         | 51                 | \$88,519,236                      | 87.7%                       | 77.3% - 98.0%              | 33.7%  |
| Internal Medicine       | 89                 | \$28,439,928                      | 37.3%                       | 23.5% - 51.1%              | 10.8%  |
| Nurse Practitioner      | 48                 | \$13,620,085                      | 52.3%                       | 28.5% - 76.2%              | 5.2%   |
| Podiatry                | 30                 | \$8,090,217                       | 25.5%                       | 8.4% - 42.5%               | 3.1%   |
| All Referring Providers | 370                | \$262,611,125                     | 62.1%                       | 50.2% - 74.1%              | 100.0%   |

### Table H5: Improper Payment Rates for CPAP by Referring Provider

| СРАР                    | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|-------------------------|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Internal Medicine       | 509                | \$94,052,243                      | 18.4%                       | 13.7% - 23.1%              | 59.7%  |
| Family Practice         | 160                | \$16,467,960                      | 10.0%                       | 3.9% - 16.2%               | 10.5%  |
| Nurse Practitioner      | 157                | \$14,962,427                      | 10.0%                       | 3.4% - 16.6%               | 9.5%   |
| Neurology               | 52                 | \$9,166,006                       | 15.3%                       | 2.0% - 28.5%               | 5.8%   |
| Physician Assistant     | 66                 | \$6,476,182                       | 10.2%                       | 1.1% - 19.3%               | 4.1%   |
| All Referring Providers | 1,034              | \$157,518,140                     | 15.0%                       | 11.9% - 18.0%              | 100.0%   |

### Table H6: Improper Payment Rates for Ventilators by Referring Provider

| Ventilators             | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Type of<br>Service<br>Improper<br>Payments |
|-------------------------|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Internal Medicine       | 142                | \$62,479,249                      | 20.4%                       | 13.3% - 27.6%              | 46.0%  |
| Nurse Practitioner      | 37                 | \$13,141,093                      | 15.5%                       | 3.0% - 28.0%               | 9.7%   |
| All Referring Providers | 241                | \$135,950,716                     | 24.3%                       | 16.2% - 32.4%              | 100.0%   |

# **Appendix I: Projected Improper Payments by Provider Type for Each Claim Type**

This series of tables is sorted in descending order by projected improper payments. All estimates in these tables are based on a minimum of 30 lines in the sample.

| Providers Billing to<br>Part B                                 | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Clinical Laboratory (Billing Independently)                    | 1,634              | \$1,096,443,871                   | 24.3%                       | 20.6% - 27.9%              | 3.4%  |
| Internal Medicine  | 934                | \$1,037,996,182                   | 12.9%                       | 10.2% - 15.7%              | 3.2%  |
| Cardiology   | 596                | \$773,446,615                     | 16.1%                       | 4.7% - 27.5%               | 2.4%  |
| Family Practice  | 463                | \$637,311,268                     | 13.8%                       | 9.8% - 17.8%               | 2.0%  |
| Physical Therapist in Private Practice                         | 377                | \$583,305,341                     | 18.6%                       | 14.0% - 23.3%              | 1.8%  |
| Pulmonary Disease  | 129                | \$564,425,253                     | 32.4%                       | (0.9%) - 65.6%             | 1.8%  |
| All Provider Types With Less Than 30 Claims                    | 743                | \$534,557,530                     | 11.4%                       | 6.9% - 15.8%               | 1.7%  |
| Nurse Practitioner   | 696                | \$439,231,481                     | 9.3%                        | 7.1% - 11.4%               | 1.4%  |
| Diagnostic Radiology   | 639                | \$436,040,823                     | 11.4%                       | 7.5% - 15.2%               | 1.4%  |
| Ambulance Service Supplier (e.g., private ambulance companies) | 362                | \$421,830,079                     | 10.8%                       | 6.9% - 14.8%               | 1.3%  |
| Radiation Oncology   | 160                | \$391,622,945                     | 34.9%                       | 14.2% - 55.6%              | 1.2%  |
| Ophthalmology  | 300                | \$266,590,400                     | 3.3%                        | 0.8% - 5.8%                | 0.8%  |
| Orthopedic Surgery   | 77                 | \$246,444,601                     | 10.7%                       | 1.4% - 20.0%               | 0.8%  |
| Unknown Provider Type  | 269                | \$226,815,273                     | 37.2%                       | 26.2% - 48.2%              | 0.7%  |
| Psychiatry   | 86                 | \$215,641,010                     | 26.2%                       | 1.6% - 50.7%               | 0.7%  |
| Chiropractic   | 158                | \$214,123,439                     | 39.3%                       | 29.0% - 49.5%              | 0.7%  |
| Nephrology   | 177                | \$188,727,829                     | 11.7%                       | 6.1% - 17.2%               | 0.6%  |
| Ambulatory Surgical Center                                     | 140                | \$188,367,525                     | 2.6%                        | (0.3%) - 5.4%              | 0.6%  |
| Emergency Medicine   | 302                | \$185,198,022                     | 8.7%                        | 5.6% - 11.8%               | 0.6%  |
| Podiatry   | 211                | \$181,033,082                     | 6.6%                        | 1.6% - 11.5%               | 0.6%  |
| Physician Assistant  | 275                | \$180,547,943                     | 7.0%                        | 3.6% - 10.5%               | 0.6%  |
| Neurology  | 162                | \$180,285,934                     | 13.7%                       | 7.7% - 19.7%               | 0.6%  |
| Dermatology  | 182                | \$173,902,675                     | 4.6%                        | (0.3%) - 9.6%              | 0.5%  |
| Hematology/Oncology  | 380                | \$167,173,471                     | 2.1%                        | 0.5% - 3.8%                | 0.5%  |
| Hospitalist  | 190                | \$116,913,282                     | 10.8%                       | 5.2% - 16.4%               | 0.4%  |
| Infectious Disease   | 67                 | \$115,266,587                     | 25.0%                       | 12.4% - 37.7%              | 0.4%  |
| Physical Medicine and Rehabilitation                           | 112                | \$113,496,387                     | 13.7%                       | 6.4% - 21.1%               | 0.4%  |
| Gastroenterology   | 95                 | \$103,583,553                     | 8.2%                        | 0.1% - 16.4%               | 0.3%  |
| CRNA   | 38                 | \$88,444,528                      | 11.8%                       | (0.0%) - 23.7%             | 0.3%  |
| Clinical Psychologist  | 106                | \$86,144,303                      | 9.4%                        | 4.4% - 14.4%               | 0.3%  |
| Anesthesiology   | 102                | \$84,692,048                      | 5.9%                        | 0.3% - 11.6%               | 0.3%  |
| Portable X-Ray Supplier (Billing<br>Independently)             | 79                 | \$79,661,276                      | 47.2%                       | 28.7% - 65.7%              | 0.2%  |

#### Table I1: Improper Payment Rates and Amounts by Provider Type: Part B

| Providers Billing to<br>Part B   | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Optometry  | 66                 | \$76,545,181                      | 8.5%                        | 4.0% - 13.1%               | 0.2%  |
| Urology  | 80                 | \$75,669,532                      | 4.7%                        | 1.9% - 7.5%                | 0.2%  |
| Cardiac Electrophysiology  | 109                | \$73,227,017                      | 10.6%                       | 2.7% - 18.5%               | 0.2%  |
| IDTF   | 223                | \$68,398,374                      | 8.4%                        | 4.2% - 12.5%               | 0.2%  |
| General Surgery  | 82                 | \$60,030,280                      | 4.0%                        | (0.0%) - 8.0%              | 0.2%  |
| Clinical Social Worker   | 115                | \$58,986,322                      | 12.5%                       | 4.3% - 20.7%               | 0.2%  |
| Interventional Cardiology  | 118                | \$48,382,876                      | 7.1%                        | 2.3% - 11.8%               | 0.2%  |
| Otolaryngology   | 94                 | \$47,939,093                      | 7.2%                        | 2.3% - 12.1%               | 0.1%  |
| Endocrinology  | 45                 | \$33,069,224                      | 4.3%                        | 0.3% - 8.3%                | 0.1%  |
| Medical Oncology   | 113                | \$32,079,740                      | 2.5%                        | 0.4% - 4.6%                | 0.1%  |
| Vascular Surgery   | 102                | \$26,583,009                      | 3.6%                        | (0.1%) - 7.4%              | 0.1%  |
| Pathology  | 101                | \$23,441,675                      | 2.3%                        | 0.5% - 4.0%                | 0.1%  |
| Rheumatology   | 156                | \$14,345,286                      | 0.6%                        | (0.1%) - 1.3%              | 0.0%  |
| Interventional Radiology   | 36                 | \$13,926,535                      | 5.4%                        | (2.7%) - 13.5%             | 0.0%  |
| Occupational Therapist in Private Practice   | 39                 | \$13,576,838                      | 3.2%                        | (1.6%) - 7.9%              | 0.0%  |
| All other suppliers, e.g., Drug Stores   | 30                 | \$2,647,048                       | 12.8%                       | (1.3%) - 26.9%             | 0.0%  |
| Centralized Flu  | 78                 | \$0                               | 0.0%                        | 0.0% - 0.0%                | 0.0%  |
| Mass Immunization Roster Billers (Mass<br>Immunizers have to roster bill assigned claims<br>and can only bill for immunizations) | 175                | \$0                               | 0.0%                        | 0.0% - 0.0%                | 0.0%  |
| <b>Overall (Incl. Codes Not Listed)</b>  | 12,001             | \$10,988,112,586                  | 10.0%                       | 8.6% - 11.5%               | 34.1%   |

| Providers Billing to<br>DMEPOS   | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| Medical supply company not included in 51, 52, or 53   | 3,865              | \$1,147,505,612                   | 25.6%                       | 22.6% - 28.7%              | 3.6%  |
| Pharmacy   | 2,492              | \$460,540,965                     | 18.5%                       | 14.8% - 22.2%              | 1.4%  |
| Medical Supply Company with Respiratory<br>Therapist   | 832                | \$132,041,846                     | 17.8%                       | 14.0% - 21.6%              | 0.4%  |
| All Provider Types With Less Than 30 Claims  | 236                | \$67,381,864                      | 40.5%                       | 28.9% - 52.0%              | 0.2%  |
| Orthopedic Surgery   | 146                | \$31,492,946                      | 41.1%                       | 30.9% - 51.4%              | 0.1%  |
| Podiatry   | 94                 | \$29,934,209                      | 47.5%                       | 28.4% - 66.6%              | 0.1%  |
| Medical supply company with orthotic<br>personnel certified by an accrediting<br>organization            | 126                | \$19,233,143                      | 17.4%                       | 6.7% - 28.2%               | 0.1%  |
| Individual orthotic personnel certified by an accrediting organization                                   | 124                | \$18,302,378                      | 10.6%                       | 2.6% - 18.6%               | 0.1%  |
| Medical supply company with<br>prosthetic/orthotic personnel certified by an<br>accrediting organization | 63                 | \$11,387,146                      | 11.4%                       | 0.8% - 22.0%               | 0.0%  |
| Supplier of oxygen and/or oxygen related equipment   | 53                 | \$9,526,265                       | 14.7%                       | 2.2% - 27.2%               | 0.0%  |
| Individual prosthetic personnel certified by an accrediting organization                                 | 101                | \$8,182,383                       | 5.5%                        | 1.6% - 9.5%                | 0.0%  |
| General Practice   | 78                 | \$6,447,663                       | 18.8%                       | 6.1% - 31.4%               | 0.0%  |
| Multispecialty Clinic or Group Practice  | 38                 | \$5,520,691                       | 39.2%                       | 18.6% - 59.8%              | 0.0%  |
| Overall (Incl. Codes Not Listed)   | 8,248              | \$1,947,497,111                   | 22.5%                       | 20.5% - 24.5%              | 6.0%  |

### Table I2: Improper Payment Rates and Amounts by Provider Type<sup>17</sup>: DMEPOS

<sup>&</sup>lt;sup>17</sup> Herein, "provider" will be used to refer to both providers and suppliers in DMEPOS provider type reporting.

| Table I3: Improper Payment Rates and Amounts by Provider Type: Part A Excluding |
|---|
| Hospital IPPS   |

| Providers Billing to Part A Excluding<br>Hospital IPPS | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| SNF  | 1,638              | \$4,799,543,774                   | 13.8%                       | 11.5% - 16.1%              | 14.9%   |
| OPPS, Laboratory, Ambulatory                           | 2,398              | \$3,977,205,496                   | 5.2%                        | 3.5% - 6.9%                | 12.4%   |
| Hospice  | 885                | \$1,293,114,716                   | 5.4%                        | 3.6% - 7.1%                | 4.0%  |
| ННА  | 1,214              | \$1,253,620,822                   | 7.8%                        | 6.0% - 9.6%                | 3.9%  |
| Inpatient Rehabilitation Hospitals                     | 246                | \$1,134,190,716                   | 27.6%                       | 20.7% - 34.5%              | 3.5%  |
| Inpatient Rehab Unit                                   | 319                | \$723,344,030                     | 26.9%                       | 19.2% - 34.7%              | 2.2%  |
| CAH Outpatient Services                                | 270                | \$466,486,942                     | 6.8%                        | 4.0% - 9.6%                | 1.4%  |
| ESRD   | 616                | \$204,605,640                     | 2.1%                        | 0.4% - 3.8%                | 0.6%  |
| ORF  | 88                 | \$115,475,866                     | 10.8%                       | 2.5% - 19.1%               | 0.4%  |
| RHC  | 302                | \$64,083,657                      | 3.6%                        | 1.6% - 5.6%                | 0.2%  |
| FQHC   | 69                 | \$60,839,466                      | 5.3%                        | 0.2% - 10.4%               | 0.2%  |
| Inpatient CAH  | 297                | \$60,455,402                      | 2.4%                        | (0.2%) - 5.0%              | 0.2%  |
| Other MAC Service Types                                | 23                 | \$31,169,731                      | 8.5%                        | (5.2%) - 22.2%             | 0.1%  |
| CORF   | 76                 | \$14,278,364                      | 53.5%                       | 38.9% - 68.1%              | 0.0%  |
| Non PPS Short Term Hospital Inpatient                  | 53                 | \$9,825,803                       | 0.8%                        | (0.8%) - 2.3%              | 0.0%  |
| All Codes With Less Than 30 Claims                     | 12                 | \$7,898,807                       | 5.1%                        | (5.0%) - 15.3%             | 0.0%  |
| Overall (Incl. Codes Not Listed)                       | 8,506              | \$14,216,139,233                  | 7.8%                        | 6.8% - 8.7%                | 44.1%   |

### Table I4: Improper Payment Rates and Amounts by Provider Type: Part A Hospital IPPS

| Providers Billing to Part A Hospital<br>IPPS | Claims<br>Reviewed | Projected<br>Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence<br>Interval | Percent of<br>Overall<br>Improper<br>Payments |
|--|--------------------|-----------------------------------|-----------------------------|----------------------------|---|
| DRG Short Term                               | 8,430              | \$4,910,897,198                   | 4.3%                        | 3.8% - 4.7%                | 15.3%   |
| Other MAC Service Type                       | 174                | \$133,294,696                     | 4.2%                        | 0.8% - 7.7%                | 0.4%  |
| DRG Long Term                                | 149                | \$4,944,432                       | 0.2%                        | (0.1%) - 0.4%              | 0.0%  |
| Overall (Incl. Codes Not Listed)             | 8,753              | \$5,049,136,325                   | 4.2%                        | 3.7% - 4.6%                | 15.7%   |

## **Appendix J: Improper Payment Rates and Type of Error by Provider Type for Each Claim Type**

### Table J1: Improper Payment Rates by Provider Type and Type of Error: Part B

| Provider Types Billing to                                      | Improper        | Claims   | Percentage of Provider Type Improper Payments by<br>Type of Error |                     |                      |                     |       |  |
|--|-----------------|----------|---|---------------------|----------------------|---------------------|-------|--|
| Part B   | Payment<br>Rate | Reviewed | No<br>Doc   | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other |  |
| Portable X-Ray Supplier (Billing<br>Independently)             | 47.2%           | 79       | 0.0%  | 95.0%               | 0.0%                 | 0.0%                | 5.0%  |  |
| Chiropractic   | 39.3%           | 158      | 5.4%  | 92.4%               | 0.6%                 | 1.6%                | 0.0%  |  |
| Unknown Provider Type  | 37.2%           | 269      | 0.8%  | 95.5%               | 0.0%                 | 0.0%                | 3.7%  |  |
| Radiation Oncology   | 34.9%           | 160      | 5.0%  | 93.0%               | 0.7%                 | 0.5%                | 0.8%  |  |
| Pulmonary Disease  | 32.4%           | 129      | 0.2%  | 83.3%               | 0.0%                 | 13.3%               | 3.2%  |  |
| Psychiatry   | 26.2%           | 86       | 0.0%  | 86.9%               | 0.0%                 | 12.8%               | 0.3%  |  |
| Infectious Disease   | 25.0%           | 67       | 21.5%   | 31.2%               | 0.0%                 | 47.3%               | 0.0%  |  |
| Clinical Laboratory (Billing<br>Independently)                 | 24.3%           | 1,634    | 1.1%  | 93.7%               | 1.4%                 | 0.3%                | 3.5%  |  |
| Physical Therapist in Private<br>Practice                      | 18.6%           | 377      | 3.1%  | 81.8%               | 0.0%                 | 1.1%                | 13.9% |  |
| Cardiology   | 16.1%           | 596      | 0.9%  | 83.0%               | 0.9%                 | 14.6%               | 0.6%  |  |
| Family Practice  | 13.8%           | 463      | 11.6%   | 55.9%               | 0.0%                 | 31.9%               | 0.6%  |  |
| Physical Medicine and<br>Rehabilitation                        | 13.7%           | 112      | 2.0%  | 73.8%               | 0.0%                 | 21.4%               | 2.9%  |  |
| Neurology  | 13.7%           | 162      | 5.3%  | 51.1%               | 0.8%                 | 37.6%               | 5.2%  |  |
| Internal Medicine  | 12.9%           | 934      | 11.7%   | 46.5%               | 0.3%                 | 35.1%               | 6.4%  |  |
| All other suppliers, e.g., Drug<br>Stores                      | 12.8%           | 30       | 0.0%  | 74.2%               | 0.0%                 | 0.0%                | 25.8% |  |
| Clinical Social Worker   | 12.5%           | 115      | 0.0%  | 81.7%               | 0.0%                 | 7.4%                | 11.0% |  |
| CRNA   | 11.8%           | 38       | 0.0%  | 100.0%              | 0.0%                 | 0.0%                | 0.0%  |  |
| Nephrology   | 11.7%           | 177      | 4.3%  | 56.6%               | 0.0%                 | 33.9%               | 5.3%  |  |
| Diagnostic Radiology   | 11.4%           | 639      | 21.3%   | 77.2%               | 0.0%                 | 1.5%                | 0.0%  |  |
| All Provider Types With Less<br>Than 30 Claims                 | 11.4%           | 743      | 4.1%  | 62.2%               | 0.0%                 | 19.7%               | 14.1% |  |
| Ambulance Service Supplier (e.g., private ambulance companies) | 10.8%           | 362      | 5.2%  | 48.2%               | 42.2%                | 4.3%                | 0.0%  |  |
| Hospitalist  | 10.8%           | 190      | 24.2%   | 33.6%               | 0.0%                 | 40.2%               | 1.9%  |  |
| Orthopedic Surgery   | 10.7%           | 77       | 0.0%  | 54.8%               | 0.0%                 | 41.8%               | 3.4%  |  |
| Cardiac Electrophysiology                                      | 10.6%           | 109      | 7.6%  | 56.2%               | 0.0%                 | 36.2%               | 0.0%  |  |
| Clinical Psychologist  | 9.4%            | 106      | 15.2%   | 57.9%               | 0.0%                 | 23.0%               | 4.0%  |  |
| Nurse Practitioner   | 9.3%            | 696      | 4.7%  | 41.7%               | 9.1%                 | 40.7%               | 3.8%  |  |
| Emergency Medicine   | 8.7%            | 302      | 7.4%  | 36.7%               | 0.0%                 | 54.8%               | 1.1%  |  |
| Optometry  | 8.5%            | 66       | 0.0%  | 63.9%               | 0.0%                 | 32.9%               | 3.2%  |  |
| IDTF   | 8.4%            | 223      | 2.6%  | 88.9%               | 0.0%                 | 0.1%                | 8.3%  |  |
| Gastroenterology   | 8.2%            | 95       | 6.0%  | 82.9%               | 0.0%                 | 11.1%               | 0.0%  |  |
| Otolaryngology   | 7.2%            | 94       | 8.9%  | 11.7%               | 0.0%                 | 79.3%               | 0.1%  |  |

| Provider Types Billing to   | Improper        | Claims   | Perce     | ntage of Provid     | der Type Imp<br>Type of Erroi |                     | nts by |
|---|-----------------|----------|-----------|---------------------|-------------------------------|---------------------|--------|
| Part B  | Payment<br>Rate | Reviewed | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity          | Incorrect<br>Coding | Other  |
| Interventional Cardiology   | 7.1%            | 118      | 0.1%      | 56.6%               | 0.0%                          | 33.9%               | 9.4%   |
| Physician Assistant   | 7.0%            | 275      | 2.1%      | 49.4%               | 4.4%                          | 37.9%               | 6.1%   |
| Podiatry  | 6.6%            | 211      | 0.0%      | 95.1%               | 0.0%                          | 4.7%                | 0.2%   |
| Anesthesiology  | 5.9%            | 102      | 0.5%      | 76.0%               | 3.8%                          | 8.1%                | 11.6%  |
| Interventional Radiology  | 5.4%            | 36       | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| Urology   | 4.7%            | 80       | 0.0%      | 24.6%               | 0.6%                          | 74.8%               | 0.0%   |
| Dermatology   | 4.6%            | 182      | 0.0%      | 15.9%               | 0.0%                          | 27.9%               | 56.2%  |
| Endocrinology   | 4.3%            | 45       | 0.0%      | 27.9%               | 0.0%                          | 53.8%               | 18.3%  |
| General Surgery   | 4.0%            | 82       | 0.0%      | 53.6%               | 0.0%                          | 46.3%               | 0.0%   |
| Vascular Surgery  | 3.6%            | 102      | 0.0%      | 47.6%               | 11.7%                         | 40.7%               | 0.0%   |
| Ophthalmology   | 3.3%            | 300      | 0.0%      | 81.6%               | 0.0%                          | 18.4%               | 0.0%   |
| Occupational Therapist in Private<br>Practice   | 3.2%            | 39       | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| Ambulatory Surgical Center  | 2.6%            | 140      | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| Medical Oncology  | 2.5%            | 113      | 0.0%      | 19.6%               | 0.0%                          | 80.4%               | 0.0%   |
| Pathology   | 2.3%            | 101      | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| Hematology/Oncology   | 2.1%            | 380      | 1.4%      | 56.1%               | 0.0%                          | 36.0%               | 6.4%   |
| Rheumatology  | 0.6%            | 156      | 0.2%      | 77.4%               | 0.0%                          | 22.3%               | 0.1%   |
| Centralized Flu   | 0.0%            | 78       | N/A       | N/A                 | N/A                           | N/A                 | N/A    |
| Mass Immunization Roster Billers<br>(Mass Immunizers have to roster<br>bill assigned claims and can only<br>bill for immunizations) | 0.0%            | 175      | N/A       | N/A                 | N/A                           | N/A                 | N/A    |
| All Provider Types  | 10.0%           | 12,001   | 5.0%      | 68.8%               | 2.4%                          | 19.1%               | 4.7%   |

| Provider Types Billing to   | Improper        | Claims   | Perce     | entage of Provi     | der Type Imp<br>Fype of Erroi |                     | nts by |
|---|-----------------|----------|-----------|---------------------|-------------------------------|---------------------|--------|
| DMEPOS  | Payment<br>Rate | Reviewed | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity          | Incorrect<br>Coding | Other  |
| Podiatry  | 47.5%           | 94       | 0.0%      | 86.6%               | 1.0%                          | 0.2%                | 12.2%  |
| Orthopedic Surgery  | 41.1%           | 146      | 2.9%      | 59.3%               | 13.3%                         | 0.0%                | 24.5%  |
| All Provider Types With Less<br>Than 30 Claims  | 40.5%           | 236      | 1.0%      | 58.9%               | 12.9%                         | 0.0%                | 27.1%  |
| Multispecialty Clinic or Group<br>Practice  | 39.2%           | 38       | 11.8%     | 51.6%               | 2.5%                          | 3.9%                | 30.2%  |
| Medical supply company not included in 51, 52, or 53  | 25.6%           | 3,865    | 20.9%     | 57.1%               | 6.7%                          | 1.0%                | 14.4%  |
| General Practice  | 18.8%           | 78       | 9.4%      | 45.0%               | 17.1%                         | 0.9%                | 27.7%  |
| Pharmacy  | 18.5%           | 2,492    | 3.9%      | 57.6%               | 9.7%                          | 0.9%                | 27.9%  |
| Medical Supply Company with<br>Respiratory Therapist  | 17.8%           | 832      | 0.5%      | 60.0%               | 3.9%                          | 0.1%                | 35.5%  |
| Medical supply company with<br>orthotic personnel certified by an<br>accrediting organization               | 17.4%           | 126      | 26.1%     | 52.2%               | 9.9%                          | 0.0%                | 11.7%  |
| Supplier of oxygen and/or oxygen related equipment  | 14.7%           | 53       | 0.0%      | 77.4%               | 1.5%                          | 0.0%                | 21.1%  |
| Medical supply company with<br>prosthetic/orthotic personnel<br>certified by an accrediting<br>organization | 11.4%           | 63       | 0.0%      | 33.0%               | 43.6%                         | 0.0%                | 23.4%  |
| Individual orthotic personnel<br>certified by an accrediting<br>organization                                | 10.6%           | 124      | 0.0%      | 90.2%               | 2.6%                          | 0.0%                | 7.2%   |
| Individual prosthetic personnel<br>certified by an accrediting<br>organization                              | 5.5%            | 101      | 15.1%     | 64.4%               | 0.0%                          | 0.0%                | 20.5%  |
| All Provider Types  | 22.5%           | 8,248    | 13.7%     | 58.2%               | 7.6%                          | 0.8%                | 19.7%  |

## Table J2: Improper Payment Rates by Provider Type and Type of Error: DMEPOS

| Table J3: Improper Payment Rates by Provider Type and Type of Error: Part A Excluding |  |
|---|--|
| Hospital IPPS   |  |

| Provider Types Billing to                | Improper        | Claims   | Perce     | ntage of Provi      | der Type Imj<br>Fype of Erroi |                     | nts by |
|--|-----------------|----------|-----------|---------------------|-------------------------------|---------------------|--------|
| Part A Excluding Hospital<br>IPPS        | Payment<br>Rate | Reviewed | No<br>Doc | Insufficient<br>Doc | Medical<br>Necessity          | Incorrect<br>Coding | Other  |
| CORF                                     | 53.5%           | 76       | 0.0%      | 88.1%               | 0.0%                          | 0.0%                | 11.9%  |
| Inpatient Rehabilitation Hospitals       | 27.6%           | 246      | 0.0%      | 0.3%                | 99.7%                         | 0.0%                | 0.0%   |
| Inpatient Rehab Unit                     | 26.9%           | 319      | 0.0%      | 13.9%               | 86.1%                         | 0.0%                | 0.0%   |
| SNF                                      | 13.8%           | 1,638    | 0.2%      | 79.2%               | 0.2%                          | 1.2%                | 19.2%  |
| ORF                                      | 10.8%           | 88       | 0.0%      | 83.0%               | 0.0%                          | 3.1%                | 13.9%  |
| Other MAC Service Types                  | 8.5%            | 23       | 0.0%      | 0.0%                | 100.0%                        | 0.0%                | 0.0%   |
| ННА                                      | 7.8%            | 1,214    | 1.4%      | 39.7%               | 45.9%                         | 2.8%                | 10.2%  |
| CAH Outpatient Services                  | 6.8%            | 270      | 0.3%      | 68.5%               | 0.9%                          | 28.7%               | 1.7%   |
| Hospice                                  | 5.4%            | 885      | 7.5%      | 81.1%               | 4.4%                          | 0.5%                | 6.5%   |
| FQHC                                     | 5.3%            | 69       | 0.0%      | 94.3%               | 0.0%                          | 0.1%                | 5.5%   |
| OPPS, Laboratory, Ambulatory             | 5.2%            | 2,398    | 2.7%      | 88.5%               | 2.2%                          | 6.2%                | 0.5%   |
| All Codes With Less Than 30<br>Claims    | 5.1%            | 12       | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| RHC                                      | 3.6%            | 302      | 0.0%      | 82.8%               | 0.0%                          | 17.2%               | 0.0%   |
| Inpatient CAH                            | 2.4%            | 297      | 0.0%      | 0.0%                | 100.0%                        | 0.0%                | 0.0%   |
| ESRD                                     | 2.1%            | 616      | 0.0%      | 52.8%               | 0.0%                          | 38.6%               | 8.6%   |
| Non PPS Short Term Hospital<br>Inpatient | 0.8%            | 53       | 0.0%      | 100.0%              | 0.0%                          | 0.0%                | 0.0%   |
| All Provider Types                       | 7.8%            | 8,506    | 1.7%      | 67.8%               | 18.1%                         | 4.0%                | 8.4%   |

# Table J4: Improper Payment Rates by Provider Type and Type of Error: Part A Hospital IPPS

| Provider Types Billing to | Improper        | Claims   | Perce | ntage of Provid<br>T | der Type Imp<br>Type of Error |                     | nts by |
|---------------------------|-----------------|----------|-------|----------------------|-------------------------------|---------------------|--------|
| Part A Hospital IPPS      | Payment<br>Rate | Reviewed |       | Insufficient<br>Doc  | Medical<br>Necessity          | Incorrect<br>Coding | Other  |
| DRG Short Term            | 4.3%            | 8,430    | 2.2%  | 24.7%                | 53.0%                         | 19.2%               | 0.9%   |
| Other MAC Service Types   | 4.2%            | 174      | 0.0%  | 49.9%                | 47.4%                         | 2.7%                | 0.0%   |
| DRG Long Term             | 0.2%            | 149      | 11.5% | 0.0%                 | 84.9%                         | 3.5%                | 0.0%   |
| All Provider Types        | 4.2%            | 8,753    | 2.1%  | 25.3%                | 52.9%                         | 18.8%               | 0.9%   |

# **Appendix K: Coding Information**

### Table K1: E&M Service Types by Improper Payments

| E & M Codes                              | Projected<br>Improper | Improper<br>Payment |                | Percentage of Service Improper Payments by Type of<br>Error |                     |                      | 6 Error             | ype of | Percent of<br>Overall |
|--|-----------------------|---------------------|----------------|---|---------------------|----------------------|---------------------|--------|-----------------------|
| E & M Coues                              | Payments              | Rate                | Interval       | No<br>Doc   | Insufficient<br>Doc | Medical<br>Necessity | Incorrect<br>Coding | Other  | Improper<br>Payments  |
| Office o/p est mod 30-39<br>min (99214)  | \$666,517,510         | 6.7%                | 5.0% - 8.4%    | 15.3%   | 13.5%               | 0.0%                 | 67.7%               | 3.5%   | 2.1%                  |
| All Codes With Less<br>Than 30 Claims    | \$554,501,336         | 27.7%               | 20.0% - 35.3%  | 4.7%  | 85.3%               | 1.2%                 | 4.1%                | 4.7%   | 1.7%                  |
| 1st hosp ip/obs high 75<br>(99223)       | \$368,500,910         | 25.6%               | 22.3% - 28.9%  | 9.8%  | 22.9%               | 0.0%                 | 65.1%               | 2.2%   | 1.1%                  |
| Sbsq hosp ip/obs high 50<br>(99233)      | \$332,814,421         | 15.8%               | 13.0% - 18.7%  | 5.1%  | 27.4%               | 0.0%                 | 64.6%               | 3.0%   | 1.0%                  |
| Office o/p est hi 40-54<br>min (99215)   | \$251,258,522         | 16.3%               | 12.6% - 20.1%  | 0.0%  | 16.7%               | 0.0%                 | 80.5%               | 2.9%   | 0.8%                  |
| Sbsq hosp ip/obs<br>moderate 35 (99232)  | \$207,578,524         | 9.3%                | (0.4%) - 19.0% | 0.0%  | 85.7%               | 0.0%                 | 5.1%                | 9.2%   | 0.6%                  |
| Critical care first hour (99291)         | \$169,784,422         | 16.1%               | 10.7% - 21.5%  | 10.8%   | 14.1%               | 0.0%                 | 70.5%               | 4.6%   | 0.5%                  |
| Office o/p new mod 45-<br>59 min (99204) | \$122,801,002         | 7.1%                | 3.2% - 11.1%   | 0.0%  | 0.1%                | 0.0%                 | 79.4%               | 20.5%  | 0.4%                  |
| Emergency dept visit hi<br>mdm (99285)   | \$112,606,535         | 8.8%                | 5.8% - 11.8%   | 8.0%  | 9.7%                | 0.0%                 | 82.2%               | 0.0%   | 0.3%                  |
| Office o/p est low 20-29<br>min (99213)  | \$108,733,225         | 2.0%                | 0.5% - 3.5%    | 0.0%  | 0.0%                | 0.0%                 | 100.0%              | 0.0%   | 0.3%                  |
| Chrnc care mgmt staff 1st 20 (99490)     | \$108,434,597         | 60.6%               | 47.8% - 73.4%  | 3.9%  | 94.1%               | 0.0%                 | 0.0%                | 2.0%   | 0.3%                  |
| Office o/p new hi 60-74<br>min (99205)   | \$98,811,864          | 19.2%               | 13.2% - 25.3%  | 0.0%  | 18.3%               | 0.0%                 | 71.8%               | 10.0%  | 0.3%                  |
| Sbsq nf care moderate<br>mdm 30 (99309)  | \$79,352,402          | 10.9%               | 4.0% - 17.7%   | 26.2%   | 28.7%               | 0.0%                 | 19.5%               | 25.6%  | 0.2%                  |
| Sbsq nf care low mdm 15<br>(99308)       | \$73,295,833          | 14.9%               | 6.5% - 23.2%   | 29.7%   | 64.2%               | 0.0%                 | 6.1%                | 0.0%   | 0.2%                  |
| 1st hosp ip/obs moderate<br>55 (99222)   | \$62,561,828          | 14.3%               | 8.5% - 20.1%   | 0.0%  | 35.1%               | 0.0%                 | 64.9%               | 0.0%   | 0.2%                  |
| 1st nf care high mdm 45<br>(99306)       | \$57,287,233          | 34.1%               | 27.2% - 41.0%  | 0.0%  | 27.7%               | 0.0%                 | 72.3%               | 0.0%   | 0.2%                  |
| Office o/p new low 30-44<br>min (99203)  | \$51,787,009          | 5.1%                | 0.4% - 9.9%    | 0.0%  | 32.7%               | 0.0%                 | 36.6%               | 30.7%  | 0.2%                  |
| Initial observation care (99220)         | \$42,524,118          | 22.9%               | 14.6% - 31.2%  | 0.0%  | 35.1%               | 0.0%                 | 37.4%               | 27.5%  | 0.1%                  |
| Phone e/m phys/qhp 11-<br>20 min (99442) | \$40,320,136          | 25.8%               | 15.5% - 36.0%  | 0.0%  | 75.4%               | 0.0%                 | 13.8%               | 10.7%  | 0.1%                  |
| Sbsq nf care high mdm 45 (99310)         | \$40,260,124          | 22.3%               | 13.4% - 31.3%  | 0.0%  | 43.3%               | 0.0%                 | 50.5%               | 6.2%   | 0.1%                  |
| Phone e/m phys/qhp 21-<br>30 min (99443) | \$39,012,506          | 22.8%               | 12.9% - 32.6%  | 0.0%  | 72.0%               | 0.0%                 | 15.1%               | 12.8%  | 0.1%                  |
| Office o/p est sf 10-19<br>min (99212)   | \$28,773,540          | 6.6%                | 1.6% - 11.7%   | 0.5%  | 27.0%               | 0.0%                 | 72.5%               | 0.0%   | 0.1%                  |
| Hosp ip/obs dschrg mgmt<br>>30 (99239)   | \$27,852,210          | 6.8%                | 3.2% - 10.4%   | 0.0%  | 51.5%               | 0.0%                 | 48.5%               | 0.0%   | 0.1%                  |
| Advncd care plan 30 min<br>(99497)       | \$26,699,028          | 19.1%               | 9.5% - 28.8%   | 1.7%  | 98.3%               | 0.0%                 | 0.0%                | 0.0%   | 0.1%                  |
| Domicil/r-home visit est<br>pat (99336)  | \$22,464,712          | 11.6%               | 3.4% - 19.8%   | 14.1%   | 36.4%               | 0.0%                 | 37.6%               | 11.9%  | 0.1%                  |
| Emergency dept visit mod<br>mdm (99284)  | \$13,631,014          | 3.4%                | (0.6%) - 7.5%  | 0.0%  | 83.2%               | 0.0%                 | 16.8%               | 0.0%   | 0.0%                  |
| Overall (E&M Codes)                      | \$3,708,164,563       | 10.7%               | 9.5% - 11.9%   | 7.5%  | 34.0%               | 0.0%                 | 52.4%               | 6.1%   | 11.5%                 |

| Final E & M Codes                    | Projected Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence Interval |  |
|--------------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| Office o/p est mod 30-39 min (99214) | \$418,428,801                  | 4.2%                        | 3.2% - 5.2%             |  |
| Sbsq hosp ip/obs high 50 (99233)     | \$191,951,906                  | 9.1%                        | 7.6% - 10.6%            |  |
| Office o/p est hi 40-54 min (99215)  | \$135,930,471                  | 8.8%                        | 6.3% - 11.4%            |  |
| Office o/p est low 20-29 min (99213) | \$108,733,225                  | 2.0%                        | 0.5% - 3.5%             |  |
| 1st hosp ip/obs high 75 (99223)      | \$95,859,028                   | 6.7%                        | 5.3% - 8.0%             |  |
| Office o/p new mod 45-59 min (99204) | \$92,244,283                   | 5.4%                        | 2.5% - 8.2%             |  |
| Emergency dept visit hi mdm (99285)  | \$83,166,335                   | 6.5%                        | 4.5% - 8.5%             |  |
| Office o/p new hi 60-74 min (99205)  | \$60,140,080                   | 11.7%                       | 8.6% - 14.8%            |  |
| Office o/p new low 30-44 min (99203) | \$18,961,027                   | 1.9%                        | 0.1% - 3.7%             |  |
| 1st hosp ip/obs moderate 55 (99222)  | \$17,696,126                   | 4.1%                        | 1.8% - 6.3%             |  |
| Office o/p est sf 10-19 min (99212)  | \$16,665,779                   | 3.9%                        | 0.5% - 7.2%             |  |
| Hosp ip/obs dschrg mgmt >30 (99239)  | \$13,507,357                   | 3.3%                        | 1.5% - 5.1%             |  |
| 1st nf care high mdm 45 (99306)      | \$12,061,953                   | 7.2%                        | 4.4% - 9.9%             |  |
| Sbsq nf care moderate mdm 30 (99309) | \$11,865,221                   | 1.6%                        | 0.3% - 3.0%             |  |
| Sbsq nf care high mdm 45 (99310)     | \$11,827,228                   | 6.6%                        | 3.5% - 9.6%             |  |
| Initial observation care (99220)     | \$10,120,679                   | 5.4%                        | 2.9% - 8.0%             |  |
| Domicil/r-home visit est pat (99336) | \$8,785,471                    | 4.5%                        | 1.9% - 7.2%             |  |
| Phone e/m phys/qhp 11-20 min (99442) | \$5,579,871                    | 3.6%                        | 0.5% - 6.6%             |  |
| Phone e/m phys/qhp 21-30 min (99443) | \$5,149,449                    | 3.0%                        | 0.9% - 5.1%             |  |
| Sbsq nf care low mdm 15 (99308)      | \$4,445,378                    | 0.9%                        | (0.3%) - 2.1            |  |
| All Other Codes                      | \$59,958,612                   | 0.1%                        | 0.0% - 0.1%             |  |
| Overall (1-Level E&M Codes)          | \$1,383,078,280                | 1.3%                        | 1.1% - 1.4%             |  |

### Table K2: Impact of 1-Level E&M (Top 20)18

<sup>&</sup>lt;sup>18</sup> Table K2 shows the improper payment rate estimate for claims that were found in error due to 1-Level E&M coding difference.

| Part B Services (BETOS Codes)                    | Projected Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence Interval |  |
|--|--------------------------------|-----------------------------|-------------------------|--|
| Office visits - established                      | \$673,374,992                  | 3.8%                        | 3.1% - 4.6%             |  |
| Hospital visit - initial                         | \$292,447,649                  | 13.7%                       | 11.8% - 15.5%           |  |
| Hospital visit - subsequent                      | \$231,304,719                  | 4.5%                        | 3.6% - 5.4%             |  |
| Office visits - new                              | \$187,403,360                  | 5.5%                        | 3.8% - 7.2%             |  |
| Hospital visit - critical care                   | \$119,765,480                  | 11.0%                       | 6.0% - 16.1%            |  |
| Nursing home visit                               | \$111,856,946                  | 5.2%                        | 3.5% - 6.8%             |  |
| Emergency room visit                             | \$94,895,129                   | 5.4%                        | 3.8% - 7.1%             |  |
| Specialist - other                               | \$33,205,749                   | 1.2%                        | (0.2%) - 2.6%           |  |
| Ambulance  | \$14,523,921                   | 0.4%                        | 0.1% - 0.7%             |  |
| Minor procedures - other (Medicare fee schedule) | \$12,627,136                   | 0.2%                        | 0.0% - 0.5%             |  |
| Other drugs                                      | \$11,817,744                   | 0.1%                        | 0.0% - 0.2%             |  |
| Ambulatory procedures - skin                     | \$4,207,919                    | 0.2%                        | (0.1%) - 0.4%           |  |
| Other - Medicare fee schedule                    | \$4,206,912                    | 1.9%                        | (1.8%) - 5.6%           |  |
| Chiropractic                                     | \$2,973,627                    | 0.5%                        | (0.2%) - 1.3%           |  |
| Specialist - psychiatry                          | \$2,868,139                    | 0.2%                        | (0.0%) - 0.5%           |  |
| Dialysis services (Medicare Fee Schedule)        | \$2,322,217                    | 0.3%                        | (0.1%) - 0.6%           |  |
| Lab tests - other (non-Medicare fee schedule)    | \$2,133,941                    | 0.0%                        | (0.0%) - 0.1%           |  |
| Other - non-Medicare fee schedule                | \$1,095,016                    | 2.8%                        | (0.4%) - 6.0%           |  |
| Standard imaging - nuclear medicine              | \$1,076,135                    | 0.1%                        | (0.1%) - 0.3%           |  |
| Minor procedures - skin                          | \$616,390                      | 0.1%                        | (0.1%) - 0.2%           |  |
| All Other Codes                                  | \$22,101,656                   | 0.1%                        | (0.0%) - 0.1%           |  |
| Overall (Part B)                                 | \$1,826,824,776                | 1.7%                        | 1.4% - 1.9%             |  |

### Table K3: Type of Services with Upcoding<sup>19</sup> Errors: Part B

<sup>&</sup>lt;sup>19</sup> Upcoding refers to billing a higher level service or a service with a higher payment than is supported by the medical record documentation

| DMEPOS (Policy Group)                      | Projected Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence Interval |  |
|--|--------------------------------|-----------------------------|-------------------------|--|
| Urological Supplies                        | \$4,003,569                    | 1.0%                        | (0.7%) - 2.7%           |  |
| Surgical Dressings                         | \$3,430,219                    | 0.8%                        | 0.1% - 1.5%             |  |
| Infusion Pumps & Related Drugs             | \$1,764,957                    | 0.3%                        | (0.0%) - 0.6%           |  |
| Repairs/DMEPOS                             | \$1,576,224                    | 20.7%                       | 6.3% - 35.1%            |  |
| All Policy Groups with Less than 30 Claims | \$1,312,822                    | 0.5%                        | (0.4%) - 1.4%           |  |
| Parenteral Nutrition                       | \$1,228,864                    | 0.5%                        | (0.3%) - 1.4%           |  |
| СРАР                                       | \$385,557                      | 0.0%                        | (0.0%) - 0.1%           |  |
| Enteral Nutrition                          | \$306,384                      | 0.2%                        | 0.0% - 0.4%             |  |
| Hospital Beds/Accessories                  | \$274,004                      | 0.4%                        | (0.4%) - 1.3%           |  |
| Walkers                                    | \$115,250                      | 0.3%                        | (0.3%) - 1.0%           |  |
| Glucose Monitor                            | \$95,758                       | 0.0%                        | (0.0%) - 0.0%           |  |
| Ostomy Supplies                            | \$41,534                       | 0.0%                        | (0.0%) - 0.0%           |  |
| Overall (DMEPOS)                           | \$14,535,141                   | 0.2%                        | 0.1% - 0.3%             |  |

# Table K4: Type of Services with Upcoding Errors: DMEPOS

# Table K5: Type of Services with Upcoding Errors: Part A Excluding Hospital IPPS

| Part A Excluding Hospital IPPS<br>Services (TOB) | Projected Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence Interval |  |
|--|--------------------------------|-----------------------------|-------------------------|--|
| САН  | \$88,485,453                   | 1.3%                        | (0.3%) - 2.9%           |  |
| SNF Inpatient                                    | \$57,101,580                   | 0.2%                        | (0.1%) - 0.4%           |  |
| Hospital Outpatient                              | \$52,748,618                   | 0.1%                        | 0.0% - 0.1%             |  |
| Home Health                                      | \$34,629,089                   | 0.2%                        | (0.1%) - 0.5%           |  |
| Clinical Rural Health                            | \$11,027,018                   | 0.6%                        | (0.3%) - 1.5%           |  |
| Nonhospital based hospice                        | \$3,208,147                    | 0.0%                        | (0.0%) - 0.0%           |  |
| Clinic OPT                                       | \$3,020,079                    | 0.3%                        | (0.3%) - 0.8%           |  |
| Hospital Other Part B                            | \$1,302,733                    | 0.2%                        | (0.2%) - 0.6%           |  |
| Hospital based hospice                           | \$234,722                      | 0.0%                        | (0.0%) - 0.0%           |  |
| Clinic ESRD                                      | \$89,673                       | 0.0%                        | (0.0%) - 0.0%           |  |
| Overall (Part A Excluding Hospital IPPS)         | \$251,847,111                  | 0.1%                        | 0.1% - 0.2%             |  |

| Part A Hospital IPPS Services (MS-<br>DRGs)                                | Projected Improper<br>Payments | Improper<br>Payment<br>Rate | 95% Confidence Interval |  |
|--|--------------------------------|-----------------------------|-------------------------|--|
| Infectious & Parasitic Diseases W OR<br>Procedure (853, 854, 855)          | \$56,584,378                   | 1.6%                        | (0.0%) - 3.3%           |  |
| Respiratory Infections & Inflammations (177, 178, 179)                     | \$46,879,694                   | 0.7%                        | (0.6%) - 1.9%           |  |
| Extensive OR Procedure Unrelated To Principal Diagnosis (981, 982, 983)    | \$40,656,066                   | 3.3%                        | (1.2%) - 7.8%           |  |
| Other Kidney & Urinary Tract Diagnoses (698, 699, 700)                     | \$20,472,320                   | 1.8%                        | (1.1%) - 4.7%           |  |
| Renal Failure (682, 683, 684)  | \$15,198,940                   | 1.0%                        | (0.9%) - 2.8%           |  |
| Septicemia Or Severe Sepsis W/O MV >96<br>Hours (871, 872)                 | \$14,863,542                   | 0.2%                        | (0.1%) - 0.5%           |  |
| Chronic Obstructive Pulmonary Disease (190, 191, 192)                      | \$13,761,349                   | 1.6%                        | (0.1%) - 3.2%           |  |
| ECMO Or Trach W MV >96 Hrs Or PDX Exc<br>Face, Mouth & Neck (003)          | \$12,897,526                   | 0.6%                        | (0.3%) - 1.5%           |  |
| Intracranial Hemorrhage Or Cerebral Infarction (064, 065, 066)             | \$11,084,745                   | 0.6%                        | (0.6%) - 1.8%           |  |
| Hip Replacement With Principal Diagnosis Of<br>Hip Fracture (521, 522)     | \$9,681,902                    | 0.6%                        | (0.6%) - 1.9%           |  |
| Septicemia Or Severe Sepsis W MV >96 Hours<br>(870)                        | \$9,427,646                    | 0.5%                        | (0.4%) - 1.3%           |  |
| Heart Transplant Or Implant Of Heart Assist<br>System (001, 002)           | \$7,327,759                    | 1.2%                        | (1.2%) - 3.6%           |  |
| Combined Anterior/Posterior Spinal Fusion (453, 454, 455)                  | \$7,162,872                    | 0.4%                        | (0.2%) - 1.0%           |  |
| Cardiac Arrhythmia & Conduction Disorders (308, 309, 310)                  | \$7,009,263                    | 0.6%                        | (0.3%) - 1.5%           |  |
| Cellulitis (602, 603)  | \$6,466,182                    | 1.4%                        | (0.2%) - 3.0%           |  |
| Cardiac Valve & Oth Maj Cardiothoracic Proc<br>W Card Cath (216, 217, 218) | \$6,183,532                    | 1.2%                        | (0.4%) - 2.8%           |  |
| Kidney & Urinary Tract Infections (689, 690)                               | \$6,131,486                    | 0.5%                        | (0.4%) - 1.4%           |  |
| Hip & Femur Procedures Except Major Joint (480, 481, 482)                  | \$6,079,950                    | 0.3%                        | (0.3%) - 0.8%           |  |
| Postoperative Or Post-Traumatic Infections W<br>OR Proc (856, 857, 858)    | \$5,864,506                    | 2.2%                        | (2.0%) - 6.3%           |  |
| Misc Disorders Of Nutrition, Metabolism,<br>Fluids/Electrolytes (640, 641) | \$5,391,736                    | 0.5%                        | (0.1%) - 1.1%           |  |
| All Other Codes  | \$233,893,360                  | 0.3%                        | 0.1% - 0.4%             |  |
| Overall (Part A Hospital IPPS)   | \$543,018,755                  | 0.4%                        | 0.3% - 0.6%             |  |

# Table K6: Type of Services with Upcoding Errors: Part A Hospital IPPS

# **Appendix L: Overpayments**

Tables L1 through L4 provide the service-specific overpayment rates for each claim type. The tables are sorted in descending order by projected improper payments.

| Part B Services<br>(HCPCS Codes)         | Claims<br>Reviewed | Lines<br>Reviewed | Sample Dollars<br>Overpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Overpaid | Overpayment<br>Rate | 95%<br>Confidence<br>Interval |
|--|--------------------|-------------------|----------------------------|------------------------------|----------------------------------|---------------------|-------------------------------|
| All Codes With Less<br>Than 30 Claims    | 5,009              | 10,437            | \$187,210                  | \$1,650,934                  | \$4,217,270,120                  | 8.3%                | 5.6% - 11.0%                  |
| Office o/p est mod 30-<br>39 min (99214) | 442                | 442               | \$3,549                    | \$51,971                     | \$666,517,510                    | 6.7%                | 5.0% - 8.4%                   |
| 1st hosp ip/obs high 75<br>(99223)       | 394                | 396               | \$18,147                   | \$71,987                     | \$367,203,155                    | 25.5%               | 22.2% - 28.8%                 |
| Sbsq hosp ip/obs high<br>50 (99233)      | 479                | 665               | \$9,963                    | \$63,110                     | \$332,814,421                    | 15.8%               | 13.0% - 18.7%                 |
| Therapeutic exercises (97110)            | 233                | 245               | \$2,150                    | \$9,384                      | \$277,558,793                    | 22.5%               | 15.9% - 29.1%                 |
| Ppps, subseq visit<br>(G0439)            | 199                | 199               | \$5,971                    | \$22,576                     | \$275,628,512                    | 28.3%               | 18.9% - 37.6%                 |
| Office o/p est hi 40-54<br>min (99215)   | 182                | 182               | \$4,846                    | \$29,666                     | \$251,258,522                    | 16.3%               | 12.6% - 20.1%                 |
| Sbsq hosp ip/obs<br>moderate 35 (99232)  | 180                | 326               | \$1,302                    | \$21,118                     | \$199,373,643                    | 8.9%                | (0.8%) - 18.7%                |
| BLS-emergency<br>(A0429)                 | 71                 | 72                | \$4,591                    | \$22,583                     | \$174,314,884                    | 21.6%               | 10.8% - 32.5%                 |
| Critical care first hour<br>(99291)      | 212                | 278               | \$8,099                    | \$52,740                     | \$169,784,422                    | 16.1%               | 10.7% - 21.5%                 |
| Chiropract manj 3-4<br>regions (98941)   | 73                 | 82                | \$1,180                    | \$2,974                      | \$159,864,807                    | 39.2%               | 27.3% - 51.1%                 |
| Xcapsl ctrc rmvl w/o<br>ecp (66984)      | 142                | 143               | \$7,831                    | \$85,533                     | \$149,241,566                    | 9.3%                | 3.7% - 15.0%                  |
| Therapeutic activities (97530)           | 196                | 205               | \$1,409                    | \$9,954                      | \$132,520,507                    | 17.0%               | 10.9% - 23.0%                 |
| Office o/p new mod 45-<br>59 min (99204) | 74                 | 74                | \$904                      | \$11,730                     | \$122,801,002                    | 7.1%                | 3.2% - 11.1%                  |
| Radiation tx delivery<br>imrt (G6015)    | 91                 | 118               | \$14,082                   | \$43,505                     | \$122,581,820                    | 29.7%               | 10.2% - 49.1%                 |
| Cov-19 amp prb hgh<br>thruput (U0003)    | 64                 | 64                | \$825                      | \$3,925                      | \$121,586,729                    | 23.1%               | 11.3% - 35.0%                 |
| Psytx w pt 60 minutes<br>(90837)         | 144                | 190               | \$4,365                    | \$24,048                     | \$117,919,599                    | 17.7%               | 9.9% - 25.5%                  |
| Emergency dept visit hi<br>mdm (99285)   | 164                | 164               | \$2,368                    | \$26,781                     | \$112,606,535                    | 8.8%                | 5.8% - 11.8%                  |
| Chrnc care mgmt staff<br>1st 20 (99490)  | 73                 | 77                | \$2,086                    | \$3,414                      | \$108,434,597                    | 60.6%               | 47.8% - 73.4%                 |
| Office o/p new hi 60-74<br>min (99205)   | 73                 | 73                | \$2,487                    | \$14,036                     | \$98,811,864                     | 19.2%               | 13.2% - 25.3%                 |
| All Other Codes                          | 7,775              | 11,298            | \$1,173,525                | \$17,290,835                 | \$2,541,375,429                  | 8.7%                | 7.8% - 9.6%                   |
| Total (Part B)                           | 12,001             | 25,730            | \$1,456,890                | \$19,512,803                 | \$10,719,468,437                 | 9.8%                | 8.4% - 11.2%                  |

### Table L1: Top 20 Service-Specific Overpayment Rates: Part B

#### Table L2: Top 20 Service-Specific Overpayment Rates: DMEPOS

| Table L2: Top 2     DMEPOS     (HCPCS)  | Claims<br>Reviewed | Lines<br>Reviewed | Sample Dollars<br>Overpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Overpaid | Overpayment<br>Rate | 95%<br>Confidence<br>Interval |
|---|--------------------|-------------------|----------------------------|------------------------------|----------------------------------|---------------------|-------------------------------|
| All Codes With Less<br>Than 30 Claims   | 2,556              | 5,357             | \$359,778                  | \$2,894,601                  | \$547,559,193                    | 25.8%               | 20.3% - 31.4%                 |
| Collagen dressing <=16<br>sq in (A6021) | 46                 | 54                | \$64,385                   | \$74,618                     | \$101,406,829                    | 83.1%               | 70.5% - 95.7%                 |
| Coude tip urinary<br>catheter (A4352)   | 41                 | 42                | \$24,553                   | \$53,464                     | \$89,426,462                     | 45.7%               | 25.8% - 65.6%                 |
| Home vent non-invasive inter (E0466)    | 194                | 207               | \$36,013                   | \$197,828                    | \$86,848,530                     | 18.1%               | 12.5% - 23.7%                 |
| Ther cgm supply allowance (K0553)       | 306                | 309               | \$7,055                    | \$68,656                     | \$67,337,881                     | 10.3%               | 6.7% - 13.9%                  |
| Oxygen concentrator<br>(E1390)          | 329                | 334               | \$3,334                    | \$29,838                     | \$65,729,055                     | 11.1%               | 7.3% - 14.9%                  |
| Parenteral sol 74-100<br>gm pro (B4197) | 133                | 171               | \$78,729                   | \$194,766                    | \$37,472,773                     | 40.2%               | 30.1% - 50.4%                 |
| Insulin for insulin pump<br>use (J1817) | 93                 | 93                | \$27,115                   | \$93,563                     | \$34,654,333                     | 29.2%               | 18.3% - 40.1%                 |
| CPAP full face mask<br>(A7030)          | 275                | 275               | \$4,987                    | \$27,795                     | \$28,189,526                     | 17.5%               | 11.7% - 23.4%                 |
| Blood glucose/reagent<br>strips (A4253) | 109                | 116               | \$754                      | \$2,116                      | \$28,095,956                     | 35.8%               | 23.6% - 47.9%                 |
| Aed garment w elec<br>analysis (K0606)  | 38                 | 38                | \$16,459                   | \$99,998                     | \$24,850,275                     | 16.5%               | 4.9% - 28.1%                  |
| Pneum compressor<br>segmental (E0651)   | 40                 | 40                | \$28,926                   | \$37,204                     | \$24,441,296                     | 78.2%               | 64.5% - 91.8%                 |
| Nasal application device (A7034)        | 223                | 223               | \$2,697                    | \$14,270                     | \$23,906,925                     | 18.9%               | 13.5% - 24.2%                 |
| Elec stim cancer<br>treatment (E0766)   | 41                 | 41                | \$178,077                  | \$259,741                    | \$23,545,567                     | 68.7%               | 47.9% - 89.5%                 |
| Alginate drsg >16 <=48<br>sq in (A6197) | 53                 | 54                | \$17,595                   | \$32,179                     | \$23,251,446                     | 63.1%               | 42.0% - 84.3%                 |
| Replacement facemask<br>interfa (A7031) | 159                | 160               | \$2,182                    | \$14,793                     | \$23,021,865                     | 14.9%               | 9.2% - 20.6%                  |
| Inj cuvitru, 100 mg<br>(J1555)          | 41                 | 51                | \$69,762                   | \$219,647                    | \$22,607,218                     | 31.5%               | 15.3% - 47.7%                 |
| Ko single upright prefab<br>ots (L1851) | 163                | 201               | \$59,061                   | \$101,582                    | \$22,115,578                     | 58.3%               | 48.6% - 68.0%                 |
| Parenteral sol 52-73 gm<br>prot (B4193) | 70                 | 105               | \$30,250                   | \$69,271                     | \$20,947,514                     | 44.7%               | 26.7% - 62.7%                 |
| Neg press wound<br>therapy pump (E2402) | 39                 | 39                | \$8,772                    | \$30,160                     | \$20,254,306                     | 28.7%               | 12.7% - 44.8%                 |
| All Other Codes                         | 5,786              | 10,044            | \$447,633                  | \$2,408,252                  | \$629,164,383                    | 19.2%               | 17.5% - 20.9%                 |
| Total (DMEPOS)                          | 8,248              | 17,954            | \$1,468,118                | \$6,924,340                  | \$1,944,826,910                  | 22.5%               | 20.5% - 24.5%                 |

## Table L3: Service-Specific Overpayment Rates: Part A Excluding Hospital IPPS

| Part A Excluding<br>Hospital IPPS<br>Services (TOB) | Claims<br>Reviewed | Sample Dollars<br>Overpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Overpaid | Overpayment<br>Rate | 95%<br>Confidence<br>Interval |
|---|--------------------|----------------------------|------------------------------|----------------------------------|---------------------|-------------------------------|
| SNF Inpatient                                       | 1,500              | \$2,284,123                | \$11,894,170                 | \$4,733,902,539                  | 14.8%               | 12.4% - 17.3%                 |
| Hospital Outpatient                                 | 2,249              | \$155,841                  | \$3,349,962                  | \$3,739,355,582                  | 5.2%                | 3.4% - 6.9%                   |
| Hospital Inpatient (Part<br>A)                      | 950                | \$3,503,357                | \$18,803,811                 | \$1,966,884,489                  | 17.7%               | 14.2% - 21.2%                 |
| Home Health   | 1,206              | \$279,040                  | \$2,020,420                  | \$1,230,945,533                  | 7.7%                | 5.9% - 9.4%                   |
| Nonhospital based hospice                           | 737                | \$154,792                  | \$2,991,869                  | \$1,163,289,431                  | 5.2%                | 3.3% - 7.0%                   |
| САН   | 270                | \$9,094                    | \$154,129                    | \$421,140,621                    | 6.1%                | 3.5% - 8.8%                   |
| Clinic ESRD   | 616                | \$22,836                   | \$1,863,432                  | \$125,806,488                    | 1.3%                | 0.4% - 2.2%                   |
| Hospital based hospice                              | 148                | \$43,868                   | \$544,290                    | \$125,727,876                    | 8.1%                | 3.5% - 12.8%                  |
| Clinic OPT  | 88                 | \$4,151                    | \$33,052                     | \$114,887,186                    | 10.8%               | 2.5% - 19.0%                  |
| Clinical Rural Health                               | 302                | \$2,038                    | \$55,512                     | \$64,083,657                     | 3.6%                | 1.6% - 5.6%                   |
| FQHC  | 69                 | \$505                      | \$9,860                      | \$60,754,302                     | 5.3%                | 0.2% - 10.4%                  |
| SNF Inpatient Part B                                | 88                 | \$930                      | \$77,636                     | \$33,606,859                     | 1.2%                | 0.1% - 2.4%                   |
| Hospital Other Part B                               | 101                | \$252                      | \$5,040                      | \$31,864,073                     | 5.0%                | 2.1% - 7.8%                   |
| Home Health (Part B<br>Only)                        | 8                  | \$903                      | \$1,476                      | \$22,675,289                     | 49.9%               | (4.8%) - 104.6%               |
| Clinic CORF   | 76                 | \$9,137                    | \$16,798                     | \$14,278,364                     | 53.5%               | 38.9% - 68.1%                 |
| Hospital Inpatient Part<br>B                        | 45                 | \$1,184                    | \$117,005                    | \$14,060,165                     | 0.8%                | (0.1%) - 1.6%                 |
| SNF Outpatient                                      | 50                 | \$1,668                    | \$35,341                     | \$13,467,557                     | 4.5%                | 0.2% - 8.7%                   |
| All Other Codes                                     | 3                  | \$0                        | \$53,192                     | \$0                              | 0.0%                | 0.0% - 0.0%                   |
| Total (Part A<br>Excluding Hospital<br>IPPS)        | 8,506              | \$6,473,720                | \$42,026,993                 | \$13,876,730,010                 | 7.6%                | 6.6% - 8.5%                   |

## Table L4: Top 20 Service-Specific Overpayment Rates: Part A Hospital IPPS

| Part A Inpatient Hospital           PPS Services (DRG)                                      | Claims<br>Reviewed | Sample Dollars<br>Overpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Overpaid | Overpayment<br>Rate | 95%<br>Confidence<br>Interval |
|---|--------------------|----------------------------|------------------------------|----------------------------------|---------------------|-------------------------------|
| All Codes With Less Than 30<br>Claims   | 3,158              | \$2,005,355                | \$55,784,304                 | \$2,048,084,499                  | 3.4%                | 2.8% - 4.1%                   |
| Major Hip And Knee Joint<br>Replacement Or Reattachment Of<br>Lower Extremity W/O MCC (470) | 421                | \$2,564,993                | \$5,179,076                  | \$621,800,117                    | 44.7%               | 38.8% - 50.6%                 |
| Percutaneous Intracardiac<br>Procedures W/O MCC (274)                                       | 165                | \$985,516                  | \$3,446,424                  | \$262,133,215                    | 29.1%               | 21.2% - 37.0%                 |
| Endovascular Cardiac Valve<br>Replacement & Supplement<br>Procedures W/O MCC (267)          | 239                | \$1,226,033                | \$10,231,862                 | \$203,522,372                    | 11.9%               | 8.0% - 15.7%                  |
| Respiratory Infections &<br>Inflammations W MCC (177)                                       | 72                 | \$31,176                   | \$1,246,003                  | \$166,063,118                    | 2.6%                | (0.8%) - 6.0%                 |
| Endovascular Cardiac Valve<br>Replacement & Supplement<br>Procedures W MCC (266)            | 185                | \$970,346                  | \$9,902,181                  | \$113,691,270                    | 9.8%                | 5.4% - 14.2%                  |
| Infectious & Parasitic Diseases W<br>OR Procedure W MCC (853)                               | 73                 | \$69,612                   | \$2,672,364                  | \$74,567,191                     | 2.4%                | 0.3% - 4.5%                   |
| Degenerative Nervous System<br>Disorders W/O MCC (057)                                      | 169                | \$294,570                  | \$2,097,380                  | \$68,263,440                     | 14.8%               | 7.4% - 22.2%                  |
| Septicemia Or Severe Sepsis W/O<br>MV >96 Hours W MCC (871)                                 | 285                | \$28,403                   | \$4,357,280                  | \$59,294,724                     | 0.7%                | (0.3%) - 1.7%                 |
| Renal Failure W CC (683)  | 71                 | \$35,749                   | \$492,710                    | \$52,967,291                     | 8.7%                | 0.9% - 16.4%                  |
| Major Joint/Limb Reattachment<br>Procedure Of Upper Extremities<br>(483)                    | 32                 | \$59,754                   | \$461,780                    | \$44,791,001                     | 12.9%               | 0.7% - 25.2%                  |
| Organic Disturbances &<br>Intellectual Disability (884)                                     | 31                 | \$32,980                   | \$421,527                    | \$44,766,291                     | 8.3%                | (0.8%) - 17.4%                |
| Kidney & Urinary Tract Infections<br>W/O MCC (690)  | 31                 | \$12,747                   | \$205,319                    | \$42,149,862                     | 6.6%                | (2.3%) - 15.6%                |
| Other Kidney & Urinary Tract<br>Diagnoses W MCC (698)                                       | 30                 | \$17,813                   | \$380,059                    | \$41,936,608                     | 4.7%                | (1.2%) - 10.7%                |
| Psychoses (885)   | 76                 | \$11,978                   | \$881,414                    | \$39,965,285                     | 1.5%                | (0.8%) - 3.8%                 |
| Other Disorders Of Nervous<br>System W CC (092)   | 34                 | \$63,008                   | \$266,924                    | \$39,199,333                     | 23.2%               | 7.0% - 39.4%                  |
| Misc Disorders Of Nutrition,<br>Metabolism, Fluids/Electrolytes<br>W/O MCC (641)            | 56                 | \$35,778                   | \$334,227                    | \$38,821,772                     | 9.1%                | 2.2% - 15.9%                  |
| Combined Anterior/Posterior<br>Spinal Fusion W MCC (453)                                    | 34                 | \$250,912                  | \$2,422,976                  | \$37,761,006                     | 11.3%               | (0.1%) - 22.8%                |
| Cardiac Defibrillator Implant W/O<br>Cardiac Cath W/O MCC (227)                             | 65                 | \$486,168                  | \$2,190,450                  | \$28,395,996                     | 22.6%               | 11.9% - 33.2%                 |
| Other Digestive System Diagnoses<br>W CC (394)  | 38                 | \$26,075                   | \$257,684                    | \$28,143,661                     | 10.5%               | (0.7%) - 21.7%                |
| All Other Codes   | 3,488              | \$4,041,717                | \$83,147,445                 | \$588,200,500                    | 1.9%                | 1.5% - 2.3%                   |
| Total (Part A Hospital IPPS)  | 8,753              | \$13,250,684               | \$186,379,390                | \$4,644,518,552                  | 3.8%                | 3.4% - 4.3%                   |

# Table L5: Overpayment Rate: All Claim Types

| All Services | Claims Reviewed | Sample Dollars<br>Overpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Overpaid | Overpayment<br>Rate | 95%<br>Confidence<br>Interval |
|--------------|-----------------|----------------------------|------------------------------|----------------------------------|---------------------|-------------------------------|
| All          | 37,508          | \$22,649,411               | \$254,843,526                | \$31,185,543,910                 | 7.4%                | 6.8% - 7.9%                   |

# **Appendix M: Underpayments**

The following tables provide the service-specific underpayment rates for each claim type. The tables are sorted in descending order by projected dollars underpaid. All estimates in these tables are based on a minimum of 30 claims in the sample with at least one claim underpaid.

| Part B Services<br>(HCPCS Codes)         | Claims<br>Reviewed | Lines<br>Reviewed | Sample<br>Dollars<br>Underpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Underpaid | Underpayment<br>Rate | 95%<br>Confidence<br>Interval |
|--|--------------------|-------------------|--------------------------------|------------------------------|-----------------------------------|----------------------|-------------------------------|
| All Codes With Less<br>Than 30 Claims    | 5,009              | 10,437            | \$8,499                        | \$1,650,934                  | \$100,888,265                     | 0.2%                 | 0.1% - 0.3%                   |
| Office o/p est low 20-29<br>min (99213)  | 171                | 175               | \$278                          | \$13,897                     | \$88,890,712                      | 1.6%                 | 0.2% - 3.0%                   |
| Office o/p est sf 10-19<br>min (99212)   | 103                | 103               | \$293                          | \$5,183                      | \$20,856,739                      | 4.8%                 | 1.0% - 8.6%                   |
| Inj pembrolizumab<br>(J9271)             | 68                 | 68                | \$10,551                       | \$713,507                    | \$14,412,147                      | 1.5%                 | (1.5%) - 4.5%                 |
| Psytx w pt 45 minutes<br>(90834)         | 69                 | 97                | \$281                          | \$7,823                      | \$10,330,545                      | 3.5%                 | (1.5%) - 8.5%                 |
| Sbsq hosp ip/obs<br>moderate 35 (99232)  | 180                | 326               | \$56                           | \$21,118                     | \$8,204,881                       | 0.4%                 | (0.3%) - 1.0%                 |
| Sbsq nf care low mdm<br>15 (99308)       | 97                 | 108               | \$36                           | \$6,640                      | \$4,445,378                       | 0.9%                 | (0.3%) - 2.1%                 |
| Phone e/m phys/qhp 11-<br>20 min (99442) | 65                 | 65                | \$113                          | \$4,935                      | \$3,877,455                       | 2.5%                 | (0.2%) - 5.2%                 |
| Ground mileage<br>(A0425)                | 357                | 361               | \$163                          | \$37,101                     | \$3,789,350                       | 0.5%                 | (0.3%) - 1.4%                 |
| 1st hosp ip/obs<br>moderate 55 (99222)   | 82                 | 82                | \$62                           | \$10,267                     | \$2,479,107                       | 0.6%                 | (0.5%) - 1.7%                 |
| Inj., rituximab, 10 mg<br>(J9312)        | 70                 | 80                | \$5,793                        | \$499,423                    | \$2,425,734                       | 0.9%                 | (0.9%) - 2.6%                 |
| Inj, atezolizumab,10 mg<br>(J9022)       | 71                 | 71                | \$9,579                        | \$631,874                    | \$2,119,922                       | 1.5%                 | (1.4%) - 4.4%                 |
| Ppps, subseq visit<br>(G0439)            | 199                | 199               | \$38                           | \$22,576                     | \$1,347,555                       | 0.1%                 | (0.1%) - 0.4%                 |
| 1st hosp ip/obs high 75<br>(99223)       | 394                | 396               | \$77                           | \$71,987                     | \$1,297,755                       | 0.1%                 | (0.0%) - 0.2%                 |
| Eculizumab injection<br>(J1300)          | 65                 | 65                | \$7,545                        | \$1,616,927                  | \$926,792                         | 0.5%                 | (0.4%) - 1.3%                 |
| Omalizumab injection<br>(J2357)          | 70                 | 80                | \$568                          | \$134,183                    | \$720,844                         | 0.4%                 | (0.4%) - 1.2%                 |
| Chiropract manj 1-2<br>regions (98940)   | 77                 | 94                | \$12                           | \$2,252                      | \$524,398                         | 0.5%                 | (0.5%) - 1.6%                 |
| CT thorax dx c- (71250)                  | 72                 | 73                | \$16                           | \$4,640                      | \$431,413                         | 0.3%                 | (0.3%) - 0.9%                 |
| Injection,onabotulinumt<br>oxina (J0585) | 71                 | 103               | \$170                          | \$76,225                     | \$381,596                         | 0.2%                 | (0.2%) - 0.5%                 |
| Ther/proph/diag inj<br>sc/im (96372)     | 227                | 236               | \$175                          | \$3,767                      | \$238,835                         | 0.2%                 | 0.1% - 0.4%                   |
| All Other Codes                          | 8,559              | 12,511            | \$966                          | \$13,977,543                 | \$54,726                          | 0.0%                 | (0.0%) - 0.0%                 |
| Total (Part B)                           | 12,001             | 25,730            | \$45,273                       | \$19,512,803                 | \$268,644,148                     | 0.2%                 | 0.2% - 0.3%                   |

#### Table M1: Service-Specific Underpayment Rates: Part B

#### Table M2: Service-Specific Underpayment Rates: DMEPOS

| DMEPOS<br>(HCPCS)                       | Claims<br>Reviewed | Lines<br>Reviewed | Sample<br>Dollars<br>Underpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Underpaid | Underpayment<br>Rate | 95%<br>Confidence<br>Interval |
|---|--------------------|-------------------|--------------------------------|------------------------------|-----------------------------------|----------------------|-------------------------------|
| Pneuma/vac walk boot<br>pre ots (L4361) | 44                 | 44                | \$289                          | \$9,508                      | \$1,101,281                       | 3.0%                 | (3.0%) - 9.0%                 |
| Budesonide non-comp<br>unit (J7626)     | 92                 | 98                | \$99                           | \$5,756                      | \$955,352                         | 2.5%                 | (2.4%) - 7.4%                 |
| Insulin for insulin pump<br>use (J1817) | 93                 | 93                | \$214                          | \$93,563                     | \$306,715                         | 0.3%                 | (0.2%) - 0.8%                 |
| Ko single upright prefab<br>ots (L1851) | 163                | 201               | \$759                          | \$101,582                    | \$266,019                         | 0.7%                 | (0.7%) - 2.1%                 |
| All Codes With Less<br>Than 30 Claims   | 2,556              | 5,357             | \$29                           | \$2,894,601                  | \$34,491                          | 0.0%                 | (0.0%) - 0.0%                 |
| Lancets per box<br>(A4259)              | 286                | 289               | \$1                            | \$472                        | \$6,342                           | 0.3%                 | (0.3%) - 0.8%                 |
| All Other Codes                         | 6,476              | 11,872            | \$0                            | \$3,818,858                  | \$0                               | 0.0%                 | 0.0% - 0.0%                   |
| Total (DMEPOS)                          | 8,248              | 17,954            | \$1,391                        | \$6,924,340                  | \$2,670,200                       | 0.0%                 | (0.0%) - 0.1%                 |

### Table M3: Service-Specific Underpayment Rates: Part A Excluding Hospital IPPS

| Part A Excluding<br>Hospital IPPS Services<br>(TOB) | Claims<br>Reviewed | Lines<br>Reviewed | Sample<br>Dollars<br>Underpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Underpaid | Underpayment<br>Rate | 95%<br>Confidence<br>Interval |
|---|--------------------|-------------------|--------------------------------|------------------------------|-----------------------------------|----------------------|-------------------------------|
| Hospital Outpatient                                 | 2,249              | 2,249             | \$10,682                       | \$3,349,962                  | \$191,925,677                     | 0.3%                 | (0.1%) - 0.6%                 |
| Clinic ESRD   | 616                | 616               | \$16,962                       | \$1,863,432                  | \$78,799,152                      | 0.8%                 | (0.6%) - 2.2%                 |
| САН   | 270                | 270               | \$982                          | \$154,129                    | \$45,346,321                      | 0.7%                 | (0.2%) - 1.6%                 |
| SNF Inpatient                                       | 1,500              | 1,500             | \$6,000                        | \$11,894,170                 | \$18,566,819                      | 0.1%                 | 0.0% - 0.1%                   |
| Nonhospital based hospice                           | 737                | 737               | \$344                          | \$2,991,869                  | \$2,441,617                       | 0.0%                 | (0.0%) - 0.0%                 |
| Hospital based hospice                              | 148                | 148               | \$508                          | \$544,290                    | \$1,655,793                       | 0.1%                 | (0.0%) - 0.3%                 |
| Clinic OPT  | 88                 | 88                | \$21                           | \$33,052                     | \$588,680                         | 0.1%                 | (0.1%) - 0.2%                 |
| FQHC  | 69                 | 69                | \$1                            | \$9,860                      | \$85,164                          | 0.0%                 | (0.0%) - 0.0%                 |
| All Other Codes                                     | 2,829              | 2,829             | \$0                            | \$21,186,230                 | \$0                               | 0.0%                 | 0.0% - 0.0%                   |
| Total (Part A Excluding<br>Hospital IPPS)           | 8,506              | 8,506             | \$35,500                       | \$42,026,993                 | \$339,409,223                     | 0.2%                 | 0.0% - 0.3%                   |

### Table M4: Service-Specific Underpayment Rates: Part A Hospital IPPS

| Table M4: Service-           Part A Hospital IPPS  |                    |                   |                             |                              | Projected            |                      | 95%                    |
|--|--------------------|-------------------|-----------------------------|------------------------------|----------------------|----------------------|------------------------|
| Services<br>(DRG)  | Claims<br>Reviewed | Lines<br>Reviewed | Sample Dollars<br>Underpaid | Total Sample<br>Dollars Paid | Dollars<br>Underpaid | Underpayment<br>Rate | Confidence<br>Interval |
| All Codes With Less Than 30<br>Claims  | 3,158              | 3,158             | \$218,391                   | \$55,784,304                 | \$244,391,876        | 0.4%                 | 0.2% - 0.6%            |
| Respiratory System Diagnosis W<br>Ventilator Support <=96 Hours<br>(208)                       | 41                 | 41                | \$19,910                    | \$862,979                    | \$27,629,157         | 2.7%                 | (2.5%) - 7.9%          |
| Septicemia Or Severe Sepsis W/O<br>MV >96 Hours W MCC (871)                                    | 285                | 285               | \$14,592                    | \$4,357,280                  | \$24,419,185         | 0.3%                 | (0.1%) - 0.6%          |
| Intracranial Hemorrhage Or<br>Cerebral Infarction W CC Or TPA<br>In 24 Hrs (065)               | 65                 | 65                | \$15,229                    | \$517,274                    | \$17,085,189         | 2.8%                 | (1.1%) - 6.8%          |
| Hip & Femur Procedures Except<br>Major Joint W CC (481)  | 71                 | 71                | \$9,037                     | \$1,198,748                  | \$13,538,818         | 0.9%                 | (0.6%) - 2.4%          |
| Simple Pneumonia & Pleurisy W<br>CC (194)  | 52                 | 52                | \$11,026                    | \$348,555                    | \$12,525,571         | 3.0%                 | (0.7%) - 6.8%          |
| Esophagitis, Gastroent & Misc<br>Digest Disorders W/O MCC (392)                                | 31                 | 31                | \$3,667                     | \$214,908                    | \$10,579,035         | 1.6%                 | (1.6%) - 4.8%          |
| Respiratory Infections &<br>Inflammations W CC (178)   | 43                 | 43                | \$7,421                     | \$438,604                    | \$10,258,361         | 2.3%                 | (1.6%) - 6.2%          |
| Renal Failure W CC (683)   | 71                 | 71                | \$5,473                     | \$492,710                    | \$8,255,767          | 1.4%                 | (0.6%) - 3.3%          |
| Respiratory Infections &<br>Inflammations W MCC (177)  | 72                 | 72                | \$1,414                     | \$1,246,003                  | \$7,028,064          | 0.1%                 | (0.1%) - 0.3%          |
| GI Hemorrhage W CC (378)   | 69                 | 69                | \$5,328                     | \$511,200                    | \$6,278,334          | 1.0%                 | (0.9%) - 2.9%          |
| Cardiac Arrhythmia &<br>Conduction Disorders W CC<br>(309)                                     | 60                 | 60                | \$4,641                     | \$378,228                    | \$5,813,401          | 1.3%                 | (0.5%) - 3.0%          |
| Endovascular Cardiac Valve<br>Replacement & Supplement<br>Procedures W/O MCC (267)             | 239                | 239               | \$19,901                    | \$10,231,862                 | \$3,665,514          | 0.2%                 | (0.1%) - 0.5%          |
| Extensive OR Procedure<br>Unrelated To Principal Diagnosis<br>W CC (982)                       | 55                 | 55                | \$14,990                    | \$975,191                    | \$3,204,441          | 1.6%                 | (1.5%) - 4.6%          |
| Back & Neck Proc Exc Spinal<br>Fusion W MCC Or Disc<br>Device/Neurostim (518)                  | 48                 | 48                | \$39,654                    | \$1,260,241                  | \$1,817,584          | 3.6%                 | (1.6%) - 8.8%          |
| Other Musculoskelet Sys & Conn<br>Tiss OR Proc W/O CC/MCC<br>(517)                             | 63                 | 63                | \$10,581                    | \$629,713                    | \$1,327,161          | 1.8%                 | (0.4%) - 3.9%          |
| Other Major Cardiovascular<br>Procedures W/O CC/MCC (272)                                      | 69                 | 69                | \$14,240                    | \$1,293,337                  | \$1,108,788          | 1.2%                 | (0.6%) - 3.1%          |
| Cardiac Defibrillator Implant<br>W/O Cardiac Cath W/O MCC<br>(227)                             | 65                 | 65                | \$10,439                    | \$2,190,450                  | \$636,076            | 0.5%                 | (0.5%) - 1.5%          |
| Cellulitis W/O MCC (603)   | 36                 | 36                | \$426                       | \$216,913                    | \$624,977            | 0.2%                 | (0.2%) - 0.7%          |
| Major Hip And Knee Joint<br>Replacement Or Reattachment Of<br>Lower Extremity W/O MCC<br>(470) | 421                | 421               | \$1,847                     | \$5,179,076                  | \$576,113            | 0.0%                 | (0.0%) - 0.1%          |
| All Other Codes  | 3,739              | 3,739             | \$55,451                    | \$98,051,812                 | \$3,854,360          | 0.0%                 | 0.0% - 0.0%            |
| Total (Part A Hospital IPPS)   | 8,753              | 8,753             | \$483,656                   | \$186,379,390                | \$404,617,773        | 0.3%                 | 0.2% - 0.5%            |

# Table M5: Underpayment Rate: All Claim Types

| All Services | Claims Reviewed | Lines<br>Reviewed | Sample Dollars<br>Underpaid | Total Sample<br>Dollars Paid | Projected<br>Dollars<br>Underpaid | Underpayment<br>Rate | 95%<br>Confidence<br>Interval |
|--------------|-----------------|-------------------|-----------------------------|------------------------------|-----------------------------------|----------------------|-------------------------------|
| All          | 37,508          | 60,943            | \$565,820                   | \$254,843,526                | \$1,015,341,344                   | 0.2%                 | 0.2% - 0.3%                   |

# **Appendix N: Statistics and Other Information for the CERT Sample**

#### Summary of Sampling and Estimation Methodology for the CERT Program

The improper payment rate calculation complies with the requirements of Office of Management and Budget (OMB) Circular A-123, Appendix C.

The sampling process for CERT follows a service level stratification plan. This system allots approximately 100 service level strata per claim type, except for Part A Excluding Hospital IPPS, for which service level stratification is not possible. For this case, strata were designated by a two-digit type of bill, which results in fewer than 20 strata. This stratification system, by design, leads to greater sample sizes for the larger Medicare Administrative Contractors (MACs). Thus, the precision is greater for larger MAC jurisdictions. However, MAC jurisdictions are sufficiently large, therefore most jurisdictions should observe ample number of claims to obtain internal precision goals of plus or minus three percentage points with 95% confidence.

#### **Enhanced Stratification**

In addition, CERT uses sub-strata for strata that represent high total payments as well as exhibit heterogeneity in improper payment rate by provider. Sub-strata consist of two or more strata contained within a service level stratum and are defined by provider profile scores. Additionally, the CERT Hospital Outpatient stratum has been divided into high and low payment strata to sample the larger payment claims more effectively, while ensuring a specific level of lower payment hospital outpatient claims. These sub-strata have been developed with CMS collaboration to increase CERT's ability to adequately sample not just services, but also providers who are more likely to have improper billing.

For RY2023, the following strata contain sub-strata:

- Home Health
- Hospital Outpatient
- Inpatient Rehab Facility
- Skilled Nursing Facility
- DRGs 469 and 470

#### **Improper Payment Rate Formula**

Sampled claims are subject to reviews, and an improper payment rate is calculated based on those reviews. The improper payment rate is an estimate of the proportion of improper payments made in the Medicare program to the total payments made.

After the claims have been reviewed for improper payments, the sample is projected to the universe statistically using a combination of sampling weights and universe expenditure amounts. CERT utilizes a generalized estimator to handle national, contractor cluster, and service level estimation. National level estimation reduces to a better-known estimator known as the separate ratio estimator. Using the separate ratio estimator, improper payment rates for contractor clusters are combined using their relative share of universe expenditures as weights.

#### Generalized ("Hybrid") Ratio Estimator

For CERT estimation, the Medicare universe can be partitioned by different groups. The groups relevant for developing the CERT estimator are defined as follows:

partition = group by which payment information is available (denoted by subscript 'i') strata = sampling group (denoted by subscript 'k') domain = area of interest within the universe (denoted by superscript 'd')

A partition is defined by the contractor cluster level payment amounts.<sup>20</sup> Strata are defined by service categorization and sampling quarter. Domains are areas that CERT focuses analysis on (e.g., motorized wheelchairs). Note for national level estimation, the domain, d, is the entire universe.

The estimator for a domain, d, is expressed as

$$\hat{R}^{d}_{HybridEstimator} = \frac{\hat{t}^{*d}_{e}}{\hat{t}^{*d}_{p}} = \frac{\sum_{i} \hat{t}^{*di}_{e}}{\sum_{i} \hat{t}^{*di}_{p}} = \frac{\sum_{i} \frac{\hat{t}^{di}_{e}}{\hat{t}^{i}_{p}} t^{*i}_{p}}{\sum_{i} \frac{\hat{t}^{di}_{p}}{\hat{t}^{i}_{p}} t^{*j}_{p}}$$

where,

 $\hat{t}_e^{*d}$  = projected improper payment for the domain, d.  $\hat{t}_p^{*d}$  = projected payment for the domain, d.  $t_P^{*i}$  = known payment for partition 'i'  $\hat{t}_p^i$  = projected payment for partition 'i'.  $\hat{t}_e^{di}$  = projected error for domain 'd' in partition 'i'.  $\hat{t}_n^{di}$  = projected payment for domain 'd' in partition 'i'.

Now, the projected error and payment for domain 'd' within partition 'i' can be computed using the following formulas:

$$\hat{t}_{e}^{di} = \sum_{k=1}^{a} \frac{N_{k}}{n_{k}} \sum_{j=1}^{n_{k}^{di}} e_{kj} = \sum_{k=1}^{a} W_{k} \sum_{j=1}^{n_{k}^{di}} e_{kj}$$
$$\hat{t}_{p}^{di} = \sum_{k=1}^{a} \frac{N_{k}}{n_{k}} \sum_{j=1}^{n_{k}^{di}} p_{kj} = \sum_{k=1}^{a} W_{k} \sum_{j=1}^{n_{k}^{di}} p_{kj}$$

where,

 $N_k$  = total number of claims in the universe for strata 'k'

 $n_k$  = total number of sampled claims for strata 'k'

<sup>&</sup>lt;sup>20</sup> An A/B MAC consists of two contractor clusters. Each cluster represents their respective Part A and Part B claims. Expenditures (payments) are reported to CERT by contractor cluster. DMEPOS MACs are composed of a single cluster.

The following tables provide information on the sample size for each category for which this report makes national estimates. These tables also show the number of claims containing errors and the percent of claims with payment errors. Data in these tables for Part B and DMEPOS data is expressed in terms of line items, and data in these tables for Part A data is expressed in terms of claims. Totals cannot be calculated for these categories since CMS uses different units for each type of service.

#### **Table N1: Lines in Error: Part B**

| Variable   | Lines<br>Reviewed | Lines<br>Containing<br>Errors | Percent of Lines<br>Containing<br>Errors |
|--|-------------------|-------------------------------|--|
| НСРСЯ  |                   |                               |  |
| 1st hosp ip/obs high 75 (99223)                  | 396               | 178                           | 44.9%                                    |
| All Codes With Less Than 30 Claims               | 10,437            | 1,476                         | 14.1%                                    |
| Critical care first hour (99291)                 | 275               | 64                            | 23.3%                                    |
| Factor viii recombinant nos (J7192)              | 476               | 37                            | 7.8%                                     |
| Ground mileage (A0425)                           | 361               | 35                            | 9.7%                                     |
| Office o/p est mod 30-39 min (99214)             | 442               | 72                            | 16.3%                                    |
| Routine venipuncture (36415)                     | 339               | 43                            | 12.7%                                    |
| Sbsq hosp ip/obs high 50 (99233)                 | 648               | 229                           | 35.3%                                    |
| Sbsq hosp ip/obs moderate 35 (99232)             | 322               | 22                            | 6.8%                                     |
| Unlisted molecular pathology (81479)             | 377               | 54                            | 14.3%                                    |
| Other  | 11,633            | 2,084                         | 17.9%                                    |
| TOS Code   |                   |                               |  |
| All Codes With Less Than 30 Claims               | 1,828             | 131                           | 7.2%                                     |
| Ambulance  | 737               | 68                            | 9.2%                                     |
| Hospital visit - subsequent                      | 1,182             | 291                           | 24.6%                                    |
| Lab tests - other (non-Medicare fee schedule)    | 3,806             | 876                           | 23.0%                                    |
| Minor procedures - other (Medicare fee schedule) | 2,330             | 290                           | 12.4%                                    |
| Office visits - established                      | 967               | 182                           | 18.8%                                    |
| Other drugs                                      | 2,181             | 218                           | 10.0%                                    |
| Other tests - other                              | 787               | 176                           | 22.4%                                    |
| Specialist - other                               | 1,392             | 328                           | 23.6%                                    |
| Undefined codes                                  | 735               | 17                            | 2.3%                                     |
| Other  | 9,761             | 1,717                         | 17.6%                                    |
| Resolution Type <sup>21</sup>                    |                   |                               |  |
| Automated  | 5,924             | 310                           | 5.2%                                     |
| Complex  | 5                 | 1                             | 20.0%                                    |
| None   | 19,772            | 3,983                         | 20.1%                                    |
| Routine  | 5                 | 0                             | 0.0%                                     |
| Diagnosis Code                                   |                   |                               |  |
| All Codes With Less Than 30 Claims               | 1,696             | 262                           | 15.4%                                    |
| Diseases of arteries, arterioles and capillaries | 1,037             | 64                            | 6.2%                                     |
| Encounters for other specific health care        | 719               | 90                            | 12.5%                                    |

<sup>&</sup>lt;sup>21</sup> Created using the type of review a line received based upon the resolution code that the contractor used to resolve the line.

| Variable  | Lines<br>Reviewed | Lines<br>Containing<br>Errors | Percent of Lines<br>Containing<br>Errors |
|---|-------------------|-------------------------------|--|
| Hypertensive diseases   | 807               | 211                           | 26.1%                                    |
| Other dorsopathies  | 695               | 149                           | 21.4%                                    |
| Other forms of heart disease  | 812               | 189                           | 23.3%                                    |
| Persons encountering health services for examinations   | 1,075             | 156                           | 14.5%                                    |
| Persons with potential health hazards related to communicable diseases                                    | 743               | 77                            | 10.4%                                    |
| Persons with potential health hazards<br>related to family and personal history and<br>certain conditions | 1,008             | 251                           | 24.9%                                    |
| Symptoms and signs involving the<br>circulatory and respiratory systems                                   | 818               | 147                           | 18.0%                                    |
| Other   | 16,296            | 2,698                         | 16.6%                                    |

## Table N2: Lines in Error: DMEPOS

| Variable  | Lines<br>Reviewed | Lines<br>Containing<br>Errors | Percent of Lines<br>Containing<br>Errors |
|---|-------------------|-------------------------------|--|
| Service   |                   |                               |  |
| All Codes With Less Than 30 Claims                  | 5,357             | 1,126                         | 21.0%                                    |
| Lancets per box (A4259)                             | 289               | 142                           | 49.1%                                    |
| Nebulizer with compression (E0570)                  | 384               | 40                            | 10.4%                                    |
| Oxygen concentrator (E1390)                         | 334               | 32                            | 9.6%                                     |
| Parenteral administration ki (B4224)                | 353               | 69                            | 19.5%                                    |
| Parenteral supply kit premix (B4220)                | 296               | 66                            | 22.3%                                    |
| Pos airway press headgear (A7035)                   | 332               | 51                            | 15.4%                                    |
| Pos airway pressure filter (A7038)                  | 456               | 87                            | 19.1%                                    |
| Ther cgm supply allowance (K0553)                   | 309               | 29                            | 9.4%                                     |
| Tubing with heating element (A4604)                 | 307               | 49                            | 16.0%                                    |
| Other   | 9,537             | 2,282                         | 23.9%                                    |
| TOS Code  | - 1 1             |                               |  |
| СРАР  | 2,786             | 449                           | 16.1%                                    |
| Glucose Monitor                                     | 818               | 242                           | 29.6%                                    |
| Immunosuppressive Drugs                             | 738               | 149                           | 20.2%                                    |
| Infusion Pumps & Related Drugs                      | 769               | 163                           | 21.2%                                    |
| Lower Limb Orthoses                                 | 688               | 287                           | 41.7%                                    |
| Lower Limb Prostheses                               | 1,167             | 85                            | 7.3%                                     |
| Nebulizers & Related Drugs                          | 1,378             | 206                           | 14.9%                                    |
| Parenteral Nutrition                                | 1,249             | 266                           | 21.3%                                    |
| Surgical Dressings                                  | 881               | 389                           | 44.2%                                    |
| Wheelchairs Options/Accessories                     | 1,233             | 217                           | 17.6%                                    |
| Other   | 6,247             | 1,520                         | 24.3%                                    |
| Resolution Type <sup>22</sup>                       |                   |                               |  |
| Automated   | 3,508             | 59                            | 1.7%                                     |
| Complex   | 23                | 8                             | 34.8%                                    |
| None  | 14,379            | 3,894                         | 27.1%                                    |
| Routine   | 44                | 12                            | 27.3%                                    |
| Diagnosis Code                                      |                   |                               |  |
| All Codes With Less Than 30 Claims                  | 1,549             | 399                           | 25.8%                                    |
| Cerebral palsy and other paralytic syndromes        | 518               | 44                            | 8.5%                                     |
| Chronic lower respiratory diseases                  | 1,858             | 271                           | 14.6%                                    |
| Diabetes mellitus                                   | 1,504             | 476                           | 31.6%                                    |
| Episodic and paroxysmal disorders                   | 2,871             | 465                           | 16.2%                                    |
| In situ neoplasms                                   | 379               | 69                            | 18.2%                                    |
| Malnutrition  | 520               | 54                            | 10.4%                                    |
| Osteoarthritis                                      | 607               | 266                           | 43.8%                                    |
| Other disorders of the skin and subcutaneous tissue | 616               | 227                           | 36.9%                                    |

<sup>&</sup>lt;sup>22</sup> Created using the type of review a line received based upon the resolution code that the contractor used to resolve the line.

| Variable  | Lines<br>Reviewed | Lines<br>Containing<br>Errors | Percent of Lines<br>Containing<br>Errors |
|---|-------------------|-------------------------------|--|
| Persons with potential health hazards<br>related to family and personal history and<br>certain conditions | 2,852             | 491                           | 17.2%                                    |
| Other   | 4,680             | 1,211                         | 25.9%                                    |

# Table N3: Claims in Error: Part A Excluding Hospital IPPS

| Variable  | Claims<br>Reviewed | Claims<br>Containing<br>Errors | Percent of<br>Claims<br>Containing<br>Errors |
|---|--------------------|--------------------------------|--|
| Type of Bill                                      |                    |                                |  |
| Clinic ESRD                                       | 616                | 29                             | 4.7%   |
| Clinical Rural Health                             | 302                | 18                             | 6.0%   |
| САН   | 270                | 62                             | 23.0%  |
| Home Health                                       | 1,206              | 194                            | 16.1%  |
| Hospital Inpatient (Part A)                       | 950                | 180                            | 18.9%  |
| Hospital Other Part B                             | 101                | 15                             | 14.9%  |
| Hospital Outpatient                               | 2,249              | 272                            | 12.1%  |
| Hospital based hospice                            | 148                | 23                             | 15.5%  |
| Nonhospital based hospice                         | 737                | 74                             | 10.0%  |
| SNF Inpatient                                     | 1,500              | 447                            | 29.8%  |
| Other   | 427                | 91                             | 21.3%  |
| TOS Code  | L                  |                                |  |
| Clinic ESRD                                       | 616                | 29                             | 4.7%   |
| Clinical Rural Health                             | 302                | 18                             | 6.0%   |
| САН   | 270                | 62                             | 23.0%  |
| Home Health                                       | 1,206              | 194                            | 16.1%  |
| Hospital Inpatient (Part A)                       | 950                | 180                            | 18.9%  |
| Hospital Other Part B                             | 101                | 15                             | 14.9%  |
| Hospital Outpatient                               | 2,249              | 272                            | 12.1%  |
| Hospital based hospice                            | 148                | 23                             | 15.5%  |
| Nonhospital based hospice                         | 737                | 74                             | 10.0%  |
| SNF Inpatient                                     | 1,500              | 447                            | 29.8%  |
| Other   | 427                | 91                             | 21.3%  |
| Diagnosis Code                                    |                    |                                |  |
| Acute kidney failure and chronic kidney disease   | 684                | 45                             | 6.6%   |
| All Codes With Less Than 30 Claims                | 556                | 83                             | 14.9%  |
| Cerebrovascular diseases                          | 406                | 85                             | 20.9%  |
| Chronic lower respiratory diseases                | 217                | 44                             | 20.3%  |
| Diabetes mellitus                                 | 289                | 62                             | 21.5%  |
| Encounters for other specific health care         | 448                | 67                             | 15.0%  |
| Hypertensive diseases                             | 385                | 73                             | 19.0%  |
| No Matching Diagnosis Code Label                  | 269                | 73                             | 27.1%  |
| Other degenerative diseases of the nervous system | 236                | 28                             | 11.9%  |
| Other forms of heart disease                      | 353                | 65                             | 18.4%  |
| Other   | 4,663              | 780                            | 16.7%  |

# Table N4: Claims in Error: Part A Hospital IPPS

| Variable  | Claims<br>Reviewed | Claims<br>Containing<br>Errors | Percent of<br>Claims<br>Containing<br>Errors |
|---|--------------------|--------------------------------|--|
| DRG Label   |                    |                                |  |
| Aftercare W CC/MCC (949)  | 109                | 27                             | 24.8%  |
| Aftercare, Musculoskeletal System &   | 144                | 32                             | 22.2%  |
| Connective Tissue W CC (560)<br>All Codes With Less Than 30 Claims                          | 3,158              | 423                            | 13.4%  |
| Degenerative Nervous System Disorders   | 169                | 42                             | 24.9%  |
| W/O MCC (057)<br>Endovascular Cardiac Valve Replacement                                     | 185                | 42                             | 16.2%  |
| & Supplement Procedures W MCC (266)<br>Endovascular Cardiac Valve Replacement               | 105                | 50                             | 10.270                                       |
| & Supplement Procedures W/O MCC (267)   | 239                | 43                             | 18.0%  |
| Major Hip And Knee Joint Replacement<br>Or Reattachment Of Lower Extremity<br>W/O MCC (470) | 421                | 202                            | 48.0%  |
| Percutaneous Intracardiac Procedures<br>W/O MCC (274)                                       | 165                | 47                             | 28.5%  |
| Septicemia Or Severe Sepsis W MV >96<br>Hours (870)   | 169                | 8                              | 4.7%   |
| Septicemia Or Severe Sepsis W/O MV<br>>96 Hours W MCC (871)                                 | 285                | 28                             | 9.8%   |
| Other   | 3,709              | 614                            | 16.6%  |
| TOS Code  |                    |                                |  |
| Aftercare, Musculoskeletal System &<br>Connective Tissue (559, 560, 561)                    | 313                | 81                             | 25.9%  |
| All Codes With Less Than 30 Claims  | 1,768              | 247                            | 14.0%  |
| Cardiac Arrhythmia & Conduction   | 142                | 18                             | 12.7%  |
| Disorders (308, 309, 310)<br>Degenerative Nervous System Disorders<br>(056, 057)            | 200                | 46                             | 23.0%  |
| Endovascular Cardiac Valve Replacement<br>& Supplement Procedures (266, 267)                | 424                | 73                             | 17.2%  |
| Intracranial Hemorrhage Or Cerebral<br>Infarction (064, 065, 066)                           | 157                | 23                             | 14.6%  |
| Major Hip And Knee Joint Replacement<br>Or Reattachment Of Lower Extremity<br>(469, 470)    | 456                | 208                            | 45.6%  |
| Percutaneous Intracardiac Procedures (273, 274)   | 178                | 52                             | 29.2%  |
| Septicemia Or Severe Sepsis W MV >96<br>Hours (870)   | 169                | 8                              | 4.7%   |
| Septicemia Or Severe Sepsis W/O MV<br>>96 Hours (871, 872)                                  | 390                | 37                             | 9.5%   |
| Other   | 4,556              | 703                            | 15.4%  |
| Diagnosis Code  |                    |                                |  |
| All Codes With Less Than 30 Claims  | 364                | 54                             | 14.8%  |
| Cerebrovascular diseases  | 303                | 36                             | 11.9%  |
| Complications of surgical and medical care, not elsewhere classified                        | 666                | 94                             | 14.1%  |
| Hypertensive diseases   | 237                | 28                             | 11.8%  |
| Injuries to the hip and thigh   | 227                | 35                             | 15.4%  |
| Ischemic heart diseases   | 276                | 33                             | 12.0%  |
| Osteoarthritis  | 519                | 231                            | 44.5%  |
| Other bacterial diseases  | 681                | 63                             | 9.3%   |
| Other forms of heart disease  | 960                | 175                            | 18.2%  |

| Variable        | Claims<br>Reviewed | Claims<br>Containing<br>Errors | Percent of<br>Claims<br>Containing<br>Errors |
|-----------------|--------------------|--------------------------------|--|
| Spondylopathies | 258                | 54                             | 20.9%  |
| Other           | 4,262              | 693                            | 16.3%  |

# Table N5: Frequency of Claims "Included In" and "Excluded From" Paid Claims<sup>23</sup> Improper Payment Rate by Claim Type

| Claim Type                                   | Included | Excluded | Total  | Percent Included |
|--|----------|----------|--------|------------------|
| Part B                                       | 12,001   | 302      | 12,303 | 97.5%            |
| DMEPOS                                       | 8,248    | 160      | 8,408  | 98.1%            |
| Part A Including Hospital IPPS <sup>24</sup> | 17,259   | 7,340    | 24,599 | 70.2%            |

<sup>&</sup>lt;sup>23</sup> The paid claim improper payment rate includes paid line items, unpaid line items, line items denied for non-medical reasons, as well as automated medical review denials. The paid claim improper payment rate excludes no resolution, RTP, late resolution as well as inpatient, RAPS, or technical error line items.
<sup>24</sup> Part A Including Hospital IPPS includes Part A (Hospital IPPS) and Part A (Excluding Hospital IPPS).

# **Appendix O: List of Acronyms**

| Acronym    | Definition  |
|------------|---|
| AFR        | Agency Financial Report   |
| AICD       | Automatic Implantable Cardioverter Defibrillator                              |
| AMI        | Acute Myocardial Infarction   |
| ANSI       | American National Standards Institute   |
| ASC        | Accredited Standards Committee  |
| AWV        | Annual Wellness Visit   |
| BETOS      | Berenson-Eggers Type of Service   |
| BLS        | Basic Life Support  |
| САН        | Critical Access Hospital  |
| CAT/CT/CTA | Computed Axial Tomography/Computed Tomography/Computed Tomography Angiography |
| CC         | Comorbidity or Complication   |
| C.D.E.     | Common Bile Duct Exploration  |
| CERT       | Comprehensive Error Rate Testing  |
| CGM        | Continuous Glucose Monitor  |
| CMG        | Case Mix Group  |
| CMS        | Centers for Medicare & Medicaid Services                                      |
| CORF       | Comprehensive Outpatient Rehabilitation Facility                              |
| COVID      | Coronavirus Disease   |
| СРАР       | Continuous Positive Airway Pressure   |
| CRNA       | Certified Registered Nurse Anesthetist  |
| DMEPOS     | Durable Medical Equipment, Prosthetics, Orthotics & Supplies                  |
| DRG        | Diagnosis Related Group   |
| ECMO       | Extracorporeal Membrane Oxygenation   |
| E&M or E/M | Evaluation and Management   |
| ESRD       | End-Stage Renal Disease   |
| FFS        | Fee-For-Service   |
| FQHC       | Federally Qualified Health Center   |
| FY         | Fiscal Year   |
| GI         | Gastrointestinal  |
| HCPCS      | Healthcare Common Procedure Coding System                                     |
| HFCWO      | High Frequency Chest Wall Oscillation   |
| ННА        | Home Health Agency  |
| HHS        | Department of Human and Health Services                                       |
| HIPPS      | Health Insurance Prospective Payment System                                   |
| IDT        | Interdisciplinary Team  |
| IDTF       | Independent Diagnostic Testing Facility                                       |
| IMRT       | Intensity-Modulated Radiation Therapy   |
| IPPS       | Inpatient Prospective Payment System  |
| КО         | Knee Orthoses   |
| LCD/LCA    | Local Coverage Determination/Local Coverage Article                           |
| LSO        | Lumbar-Sacral Orthosis  |

| Acronym | Definition  |
|---------|---|
| MAC     | Medicare Administrative Contractor                        |
| MCC     | Major Complication or Comorbidity                         |
| MDM     | Medical Decision Making                                   |
| MRI/MRA | Magnetic Resonance Imaging/Magnetic Resonance Angiography |
| MS-DRG  | Medicare Severity Diagnosis Related Group                 |
| MV      | Mechanical Ventilation                                    |
| NCD     | National Coverage Determination                           |
| NF      | Nursing Facility  |
| NOS     | Not Otherwise Specified                                   |
| OMB     | Office of Management and Budget                           |
| OPT     | Outpatient Physical Therapy                               |
| OPPS    | Outpatient Prospective Payment System                     |
| OR      | Operating Room  |
| ORF     | Outpatient Rehabilitation Facility                        |
| PDX     | Principal Diagnosis                                       |
| PFS     | Physician Fee Schedule                                    |
| PIIA    | Payment Integrity Information Act of 2019                 |
| PPPS    | Personalized Prevention Plan Services                     |
| PPS     | Prospective Payment System                                |
| QHP     | Qualified Healthcare Professional                         |
| RAP     | Request for Advanced Payment                              |
| RHC     | Rural Health Clinic                                       |
| RTP     | Return to Provider  |
| RUG     | Resource Utilization Group                                |
| SIA     | Service Intensity Add-On                                  |
| SNF     | Skilled Nursing Facility                                  |
| ТОВ     | Type of Bill  |
| TOS     | Type of Service   |
| UB      | Uniform Billing   |
| UOS     | Units of Service  |
| W       | With  |
| W/O     | Without   |