



Analysis of 2000-2008 Home Health Case-mix Change

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1. Overview

In October 2000, the Centers for Medicare & Medicaid Services (CMS) implemented a prospective payment system for home health services provided to fee-for-service Medicare beneficiaries. Under the Home Health Prospective payment System (HH PPS), Medicare payment for each 60-day episode of care is made based on wage levels in the patient's locale and on the episode's classification into a "home health resource group" (HHRG). In January 2008, the 80-group HHRG system was replaced by a 153-group system.¹ Refinement of the HHRG system was based on a four-equation model that accounted for the higher average costs associated with later episodes of care (third or higher) relative to early episodes of care. In both the 80- and 153-group HHRG models, patient classification is based on the patient's characteristics at the start of the episode, as well as the patient's use of rehabilitation therapy services (physical therapy, occupational therapy, or speech language pathology) during the episode. Each HHRG has an associated case-mix weight, which determines how much the payment for the specific episode is adjusted from the standardized base payment established for the current payment year.

Since implementation of the prospective payment system, there has been a steady increase in the average case-mix weight of Medicare home health patients. From 2000 – 2008, overall observed case-mix increased by 19.40%.

Given that case-mix assignment is based on patient assessments completed by home health agencies, there are questions about the extent to which these increases reflect real case-mix change that is associated with true changes in patient characteristics versus nominal case-mix changes attributable to changes in coding practices that lead to case-mix "creep." Measuring the proportion of total case-mix change that is due to nominal versus real factors has important implications for establishing home health payment rates that are accurate and reasonable.

In this paper, we examine the changes in case-mix that occurred by 2008, updating analyses for 2006-2007 that were described in an earlier report.²

2. Data

2.1. Interim Payment System (IPS) Period Data

The IPS period data were used as our baseline period for predicting the relationship between covariates and case-mix. These data are from Federal Fiscal Year (FFY) 2000 (October 1, 1999 to September 30, 2000), a period when the Home Health Interim Payment System (IPS) was in effect. Since home health services were not yet paid on the per-episode basis used under HH PPS, we used

¹ We expanded the case-mix variables included in the payment model by providing additional variables including scores for certain wound and skin conditions; and more diagnosis groups such as pulmonary, cardiac, and cancer diagnoses. Additional refinements were made to replace the previous single therapy visit threshold of 10 to three therapy thresholds (6, 14, and 20 visits)

² http://www.cms.gov/HomeHealthPPS/Downloads/Home_Health_Case_Mix_Changes_2006-07.pdf

Medicare home health claims to construct an analysis file of simulated 60-day episodes, applying rules based on the anticipated design of the impending prospective payment system.

To assign case-mix weights to the simulated episodes, we needed the appropriate patient characteristic variables. These data were available from the Outcomes and Assessment Information Set (OASIS) assessment data collected on all Medicare and Medicaid home health patients, but the appropriate assessments needed to be matched to the patient's simulated payment episode. While the collection of OASIS on all Medicare home health patients began in July 1999, the data collection time points for each patient did not always match the starting points of our simulated payment episodes. This is because, at that time, OASIS assessments were conducted solely for outcomes monitoring purposes. When matching OASIS assessments to simulated payment episodes, we accepted any assessment within 14 days of the episode start date. If there were multiple qualifying assessments, we chose the closest start/resumption of care assessment for initial episodes, and the closest start/resumption or follow-up/recertification assessments for subsequent episodes. In approximately 18% of cases, no suitable OASIS assessment (close enough to a simulated payment episode start date) was available, and those episodes had to be excluded from the analysis.

Episodes with fewer than five visits were also excluded from the analysis because they would be considered low utilization payment adjustment (LUPA) episodes under PPS, and would not be paid using home health resource groups (HHRGs) in any case. The analysis file for the base period included episodes for a 10% sample of beneficiaries that represented 313,447 episodes. For episodes with OASIS assessments, an HHRG was assigned using the OASIS information, even though the actual claims for the services in the episodes were not paid (in 1999) using HHRGs.

2.2. HH PPS Period Data

The HH PPS period data consisted of analogous files from Calendar Years 2007 and 2008. These data were drawn from the Home Health Datalink file. This database includes 100% of Medicare fee-for-service home health episode claims from the start of HH PPS linked to matched OASIS assessments, data on other Medicare service use by the beneficiary, and additional data on provider and beneficiary characteristics. We used data for a 20% sample of Medicare home health users, selected based on beneficiary Medicare (HIC) number digits. This analysis file contained 974,974 episodes for 2007 and 872,518 episodes for 2008. Since these were records from the PPS period, the actual paid HHRGs were available (based on the 80 HHRG payment model for 2007 and the 153 HHRG model ("HHRG153") for 2008). In addition, we used the grouper program originally used in developing the 153 groups and their weights to assign the 2007 episodes to payment groups for the HHRG 153 model. In preparing the files, we corrected the HHRG and its associated case-mix relative weight in situations where claims-based information on number of allowed therapy visits during the episode was inconsistent with the submitted HHRG on the claim.

3. Methodology

The methodology used to measure case-mix change differs somewhat from the one used in the previous report that examined 2006-2007 home health case-mix change. We have changed our

methodology to account for the increase in the number of HHRGs (from 80 to 153) between 2007 and 2008. Specifically, we used a two-equation approach to analyze case-mix changes over time:

- Using the 80 HHRG model and data from the IPS period, we estimated a regression-based, predictive model of individual case-mix scores (relative weights) based on measures of patients' demographic characteristics, clinical status, inpatient history, and Medicare costs in the time period leading up to their home health episodes. The regression coefficients from the IPS period model were applied to episodes from 2007 (classified using the 80 HHRG model), allowing one to estimate how much of the change in observed case-mix is attributable to changes in patient characteristics between the IPS period and 2007.
- Using the 153 HHRG model and data from 2008, we estimated a model similar to the IPS period. The coefficients from this model were applied to episodes from 2007 (using the 153 HHRG model), allowing estimation of how much of the 2007-2008 change in HHRG153 case-mix is associated with changes in patient characteristics between 2007 and 2008.

We classify the sources of case-mix change into two major types: real (predicted) and nominal (unpredicted).

- ***Real (predicted) change:*** This is change that is based on the relationship between patient characteristics included in the regression model and case-mix (i.e., coefficients from the regression model) and changes in the characteristics of patients over time (i.e., the change in mean values of the model predictor variables). Real case-mix change arises from variation in the underlying health status of patients, which is represented by predictor variables in the model.
- ***Nominal (unpredicted) change:*** This is the portion of case-mix change that cannot be explained by changes in patient characteristics included in the regression model. Nominal case-mix change is assumed to reflect differences over time in agency coding practices

Using the results from both models, we calculate predicted case-mix for 2007 and use those results to calculate real and nominal changes in case-mix between the IPS period and 2008. The specific steps we take are described below:

- ***Calculate predicted case-mix for 2007 (80 HHRGs):*** Using coefficients from the HHRG80 IPS period model and predictor-variable means from 2007, we calculate predicted case-mix for 2007. This is calculated as the sum across all model covariates of the regression coefficients multiplied times the mean value of the covariate for 2007.
- ***Calculate predicted case-mix change for 2007 (153 HHRGs):*** Using coefficients from the HHRG153 2008 model, we calculate predicted HHRG153 case-mix for 2007 based on the regression coefficients and the 2007 mean values.
- ***Calculate real case-mix change for 2000-2007:*** This is calculated as the difference between actual case-mix for the IPS period and predicted case-mix in 2007 using the 80-HHRG system.
- ***Calculate real case-mix change for 2007-2008:*** This is calculated as the difference between actual case-mix for 2008 and predicted case-mix in 2007 using the 153-HHRG system.

- **Calculate real case-mix for 2008:** This is calculated by multiplying the ratio of actual 2008 (153-HHRG) case-mix to predicted 2007 153-HHRG case-mix by the predicted case-mix in 2007 using the 80-HHRG model $((1.3085/1.3060)*(1.1152) = 1.1173)$. This process incorporates the latest grouping system (153-HHRG) into the real case mix measurement strategy.
- **Calculate percentage of real case-mix change for 2000-2008:** We calculate the percent of total case-mix change from IPS to 2008 estimated as real by taking the ratio of the predicted difference in real case-mix from IPS to 2008 over the difference in actual case-mix from IPS to 2008. We refer to this as Ratio 1.
- **Calculate percentage of total case-mix change for 2000-2008:** We calculate the actual case-mix percentage increase for 2000-2008 by taking the ratio of 2008 average case-mix over the IPS average case-mix. We refer to this as Ratio 2.
- **Estimate amount of nominal case-mix change:** Finally, we produce the estimate of the nominal case-mix percentage increase from IPS to 2008 by multiplying (**Ratio 1** minus one) by (one minus **Ratio 2**).

The analyses described in this paper incorporate refinements to the data files, sample creation, and variable construction that were discussed in the previous report examining the analysis of 2006-2007 home health case-mix change. Imputation for living arrangement variables in 2007 was conducted using the same methodology as explained in the earlier report.

3.1. Models to Examine Relationship Between Patient Characteristics and Case-Mix

Using data from the baseline (IPS) period and 2008, we estimated two regression models of the following basic functional form:

$$\text{Relative Payment Weight}_i = \alpha + \beta * \text{Personal Characteristics}_i + \varepsilon_i$$

where:

Relative Payment Weight for individual i is the relative payment weight for that individual's 60-day home health episode (based on the then-current 80 HHRGs for the IPS model and the 153 HHRGs for the 2008 model);

α is a constant term (to be estimated);

β is a vector of coefficients (to be estimated);

Personal Characteristics is the vector of demographic and clinical variables for each individual; and

ε is an error term.

Our goal in estimating the models was to predict the case-mix weights, using variables that could be created using the available administrative data. As a result, we were not particularly concerned about

redundancy among variables, as long as groups of variables make sense broadly as correlates of case-mix. Our interest was in achieving as much predictive power as possible from the variables taken together.

The models used in this paper have similar specifications to those in the previous report examining 2006-2007 home health case-mix change. Compared to those earlier models, more APR DRG groups are now available for classifying acute stays and certain measures of patient living arrangements are now excluded as discussed below. We review each type of variable included in the models.

- ***Demographic variables:*** The demographic variables were included to control for any differences in case-mix determination associated with age, gender, and race/ethnicity. The following demographic variables were included:
 - Age (age groups 65 to 74, 75 to 84, 85 to 94, and 95 and above; age under 65 is the reference category);
 - Gender (male);
 - Race (White and African American; other, including Asian, Hawaiian/Pacific Islander, and Native American/Alaskan Native, is the reference category).

In addition, the age variables were interacted with the gender and race dummy variables to fully exploit the potential differences of the effect on case-mix from the various demographic subgroups. There were a total of 19 demographic variables in the models.

- ***Measures of prior utilization:*** Prior hospital, inpatient rehabilitation, and SNF stays and days of care are likely to be associated with home health case-mix for a variety of reasons. For example, individuals with a recent rehabilitation facility stay may be recovering from an injury or fall and may require substantial amounts of care and further rehabilitation services as they continue to recover during their home health episodes. The models included measures of utilization of acute care hospital, long-term care hospital, inpatient rehabilitation facility, and Medicare skilled nursing facility in the period preceding the home health episode:
 - Acute-Care Hospital Days in Period 14 Days Preceding Home Health Episode
 - Acute-Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode
 - Long-Term-Care Hospital Days in Period 14 Days Preceding Home Health Episode
 - Long-Term-Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode
 - Rehabilitation Facility Days in Period 14 Days Preceding Home Health Episode
 - Rehabilitation Facility Days in Period 15 to 120 Days Preceding Home Health Episode
 - Medicare Skilled Nursing Facility Days in Period 14 Days Preceding Home Health Episode
 - Medicare Skilled Nursing Facility Days in Period 15 to 120 Days Preceding Home Health Episode
- ***Measures of patient living arrangements:*** Individuals who live with other people, especially spouses and close family members, may have lower home health care needs from third parties (home health agencies), resulting in lower home health resource use and lower case-mix, all

else equal. For the IPS period, the model includes dummy variables indicating the patient's living status at home:

- Patient Lives Alone
- Patient Lives with Other (Not Family, Friends, Paid Help or Spouse)
- Patient Lives with Other Family
- Patient Lives with Paid Help
- Patient Lives with Spouse

These living status variables were the only variables in the models that came from agency-reported OASIS data.

We did not include these variables in the 2008 model because a large number of episodes were missing values for these variables in the OASIS assessment. (This is because these variables were dropped from the OASIS follow-up/recertification assessment as of 2003.) The approach for imputation discussed in the previous report that examined the analysis of 2006-2007 home health case-mix change would not work in this situation because that imputation produced an overall mean for all episodes. In order to include these variables in the 2008 model, we need values of the living arrangement variables for each individual episode rather than an overall mean. Therefore we drop these variables from the model when estimating the 2008 model and when predicting case-mix in 2007 using the results from the 2008 model. Note that the mean values of the patient living arrangement variables (for episodes where it was available) changed little between 2007 and 2008, so the impact of dropping these variables from the 2008 model is minimal. Based on the IPS period regression coefficients and the change in mean for these variables between 2007-2008, the patient living arrangement variables would have been associated with a 0.0009 (0.07%) decrease in real case-mix between 2007-2008 had they been included in the model.

- ***Measures of patient's acute care hospital inpatient history:*** We examined the patient's acute care hospital inpatient history for the four years preceding the home health episode, considering the All Patient Refined Diagnosis Related Group (APR DRG) for the patient during his or her most recent inpatient stay.³ Approximately 86-89% of beneficiaries with home health care episodes in the sample had a hospital stay during the look-back period. APR DRGs are designed to predict patient acuity and care needs in acute care hospital settings. To the extent that such acute care acuity and needs reflect the patient's need for more-intensive care in other settings (in this case, in home health settings), APR DRGs are reasonable proxy variables for home health resources need (i.e., home health case-mix). The models included dummy variables for the following:
 - The All Patient Refined Diagnosis Related Group (APR DRG) for the patient during his or her most recent inpatient stay.
 - Whether that APR DRG was procedure-based or medically-based.
 - The patient's expected risk of mortality at the time of the hospitalization (four levels – the reference group is patients with no APR DRGs– their relative mortality risk cannot be coded).

³ The APR DRG system was developed in 1990 to address both the severity of illness and risk of mortality over all patient populations. The APR DRG system includes four severity of illness classes (minor, moderate, major or extreme loss of function) and risk of mortality subclass for each base diagnostic group (minor, moderate, major, and extreme).

- Interactions between the APR DRG and APR DRG severity level

Based on a patient's personal characteristics and comorbidities at the time of the hospital stay, each patient within each APR DRG is assigned to one of four severity levels in the APR DRG algorithm. The severity levels are specified in the models as interactions, because the APR DRG severity levels are developed individually for each APR DRG classification.

Another reason for setting up the severity level effects as interactions in the regression is that this approach allows for interpreting the severity level effects relative to a severity level that serves as a reference group for each APR-DRG.

In cases where the four possible severity levels each met our sample size requirements, the reference group (labeled “any” in Appendix Table 1) is the highest severity level (i.e., extreme loss of function); then, to see the effect size of a given severity level, one adds the severity level interaction coefficient to the reference group coefficient. In other cases, the reference group will be an average effect of the severity levels whose indicator variables are left out of the model (note that there may be no sample observations for some severity levels). The procedure we used is described operationally in the bullet-points below.

For this year's analyses, we utilized a fuller version of the 3M APR DRG grouper that allowed us to expand the number of APR DRG-related variables in the model compared to previous years. This allowed us to include more diagnosis groups such as pulmonary, cardiac and cancer diagnoses.

We included all APR DRG variables and also the severity interactions in the model if there were at least 25 episodes⁴ in the IPS period that were classified with that APR DRG/severity level. For each APR DRG the following steps were taken to determine which APR DRG/Severity interactions to include in the model:⁵

- Identify all severity interactions that have greater than 0 episodes (maximum of 4 per APR DRG)
- Identify all severity interactions that have at least 25 episodes (maximum of 4 per APR DRG)
- If the number of interactions with at least 25 episodes is smaller than the number of interactions with greater than 0 episodes, drop all interactions (from step 1) with fewer than 25 episodes. Then, include in the model all other interactions identified in the first bullet.
- If the number of interactions with at least 25 episodes is equal to the number of interactions with greater than 0 episodes, drop the interaction (from step 1) representing the highest severity level. Then, include in the model all other interactions identified in the first bullet.

⁴ The 25-episode cut off was chosen to minimize the estimation of model coefficients with very few observations which might result in imprecise estimates.

⁵ We provide two examples to demonstrate the process. In the first example, for a particular APR DRG, severity level 1 has 50 episodes, severity level 2 has 75 episodes, severity level 3 has 43 episodes, and severity level 4 has 30 episodes. For that APR DRG, we include in the model severity levels 1, 2, and 3. In the second example, for a particular APR DRG, severity level 1 has 120 episodes, severity level 2 has 0, severity level 3 has 20, and severity level 4 has 160. For that APR DRG we include in the model severity levels 1 and 4.

For the analysis of 2006-2007 home health case-mix change, we consulted with clinical experts to review the findings for APR DRGs that had large changes in prevalence over time, soliciting input on whether there were “external” explanations for such changes (e.g. changes in coding guidelines) or whether the changes likely reflected actual changes in patient conditions. Based on this review, we combined APR DRGS 045 (CVA and precerebral occlusion with infarction) and 046 (non-specific (CVA and precerebral occlusion without infarction) The judgment of our clinical experts was that changes in coding directions suggested that some of the cases that would have been classified in APR DRG 045 in the base period would be classified in APR DRG 046 in the follow-up period, creating large changes in the frequency of each one that were not related to changes in patient condition. Therefore, it was decided to merge them for the analysis. Another decision was to drop APR DRG 468 (other kidney and urinary tract diagnoses, signs, and symptoms) from our models. This is because it appeared that changes in coding guidance, as well as changes (or lack of changes) in specification of the APR DRG in the grouper software produced large changes in frequency that appeared to be artifacts rather than related to actual changes in patient conditions. Since these issues could not be disentangled with a simple transformation (as with the CVA cases), this APR DRG was dropped from the analysis.

The models included a total of 848 APR DRG variables and interactions. Episodes with stays classified under an APR DRG that did not meet the sample size requirements are included in the models but not represented by an APR DRG variable. However, those episodes do have values for the variables representing the procedure- or medically- based classification and mortality risk variables. For the IPS period, 60.9% of episodes were classified as having had a medical APR DRG while 27.1% were classified as having had a procedure based APR DRG. The remainder of the sample did not have an acute hospitalization and thus no APR DRG information was available. For 2008, 59.6% of the sample was assigned a medically based APR DRG and 26.5% was assigned a procedure based APR DRG.

- ***Measures of home health agency ownership type:*** The models included dummy variables based on the agency's ownership type/type of control, as classified in CMS' Provider of Service (POS) file:
 - Free-standing, voluntary or non-profit
 - Free-standing, proprietary
 - Free-standing, government-owned
 - Facility-based, voluntary or non-profit
 - Facility-based, proprietary
 - Facility-based, government-owned
 - Other, voluntary or non-profit
 - Other, proprietary
 - Other, government-owned

The reference category to which the aforementioned dummy variables are compared to is unknown agency ownership/control.

- Measures of Medicare Part A payments. After controlling for prior utilization, measures of Medicare Part A payments may proxy for the intensity of services in the period preceding the

home health episode. The models included measures of Medicare Part A payments in the 120 days preceding the home health episode, by service type:

- Acute-care hospital payments in 120 days preceding home health episode
 - Long-term-care hospital payments in 120 days preceding home health episode
 - Rehabilitation facility payments in 120 days preceding home health episode
 - Medicare SNF payments in 120 days preceding home health episode
- Medicare payments between the IPS period and 2008 periods vary partially due to the increases in Medicare payment rates made between the IPS period and 2008 during that time. Since we estimate predicted case-mix in 2007 using both the IPS model and the 2008 model, we make two sets of adjustments to account for the payment rate changes. When computing the 2007 predicted case-mix using the IPS model, we inflated the IPS Medicare payment amounts using an inflation factor that was based on the aggregate effect of payment rate updates from IPS to 2007.⁶ We took a similar approach and deflated the 2008 Medicare payment amounts to 2007 levels when computing the 2007 predicted case-mix using the 2008 model. To adjust payments, we divided the payments by the following constants.

	<u>IPS to 2007</u>	<u>2008 to 2007</u>
• Acute care hospital:	1.252705187	0.96700
• Long-term care hospital:	1.194385134	0.99148
• Rehabilitation facility	1.252727250	0.98400
• SNF:	1.284680344	0.96775

3.2. Calculating Real Case-Mix Change

After estimating the models, the results (coefficient estimates) were applied to data from 2007. That is, a predicted relative payment weight for each episode in 2007 was estimated with the IPS model and also the 2008 model. The methodology outlined in Section 3 was used and the following calculations were made:

- **Total change in case-mix:** We calculate the total difference in case-mix between the IPS period and 2008. This was based on the change in average case-mix between the two periods.
- **Real (predicted) change in case-mix and percentage of total change in case-mix that is real (predicted):** Changes over time in patient characteristics and other variables included in the model can lead to predicted case-mix changes. We used the regression coefficients from the models and values for the variables from 2007 to calculate the predicted case-mix for 2007. The differences between the case-mix in the IPS period or the case-mix in 2008 and the predicted case-mix in 2007 indicate how much of the case-mix change is accounted for by observable differences (changes in the independent variables) in each model. We divided the predicted change in case-mix by the total change in case-mix to calculate the percentage of the total change in case-mix that was predicted by the models.

⁶ The Medicare payment increases in each setting in each year were multiplied together, and then an annual average increase was calculated. The resulting average annual increases were then raised to the power of the average difference in years for episodes in the data files.

- ***Nominal (unpredicted) change in case-mix and percentage of total change in case-mix that is nominal (unpredicted):*** The unpredicted change in case-mix is calculated as the difference between the total and predicted change in case-mix. It is a measure of the change in case-mix that is not due to observable changes in patient characteristics or other variables included in the models. The estimates of the unpredicted change in case-mix are attributed to changes in agency coding practices.

While there may be observable or unobservable factors related to patient case-mix that were not included in the model, it is important to note that the omission of these variables affects estimates of case-mix change only if there were changes in the prevalence of these variables between the IPS and later periods. Variables that remain constant over time do not contribute to real case-mix change regardless of how important they are in predicting case-mix level.

4. Results

The table in the Appendix presents the results from the IPS and 2008 regression models. It also reports means from the IPS period, 2007, and 2008 and measures of the real (expected) case-mix change associated with each variable in the model. The real case-mix change associated with a variable equals the regression coefficient times the change in mean values relative to the period of data used to estimate the model. A positive value means that the change in means that has occurred since the IPS period is associated with an expected increase in case-mix; a negative value means that the change in means is associated with an expected decrease in case-mix.

4.1. Changes in Patient Characteristics

We analyzed the means of all of the variables included in the regression models for the IPS period, 2007, and 2008 (see the Appendix). These changes may indicate differences in patient acuity and real case-mix change. Some notable differences in patient characteristics occurred between the two periods.

- After adjusting for payment rate updates, there was a decrease in mean acute care hospital expenditures in the 120 days preceding the home health episode. This declined from \$7,569 in the IPS period to \$6,160 in 2007, a decrease of more than 18%.
- Average acute care hospital days in the 14 days preceding the home health episode decreased from 2.26 in the IPS period, to 1.56 in 2007 and 1.44 in 2008. The average number of hospital days in the 15-120 days preceding the home health episode decreased from 4.07 in the IPS period to 3.29 in 2007 and 3.16 in 2008.
- The average number of SNF days in the 15-120 days preceding the home health episode increased from 2.77 in the IPS period to 3.75 in 2007 and 3.83 in 2008. Mean SNF days in the 14 days preceding the episode increased, but not as much, with a mean value of 1.17 days in the base period, 1.24 days for 2007 and 1.23 days for 2008.
- There were changes in the distribution of episodes by agency types:
 - The proportion of episodes for other proprietary home health agencies increased from 29.3% in the IPS period to 54% of episodes in 2007 and 57.2% in 2008. There was

also a large increase in the proportion of episodes for free-standing proprietary agencies, which increased from 4.06% in the IPS period to 7.3% in 2007 and 7.8% in 2008.⁷

- The percentage of episodes for facility-based non-profit agencies decreased from 29.9 in the IPS period to 13.6% in 2007 and 11.7% in 2008.
- The proportion of episodes for freestanding government agencies decreased from 3.9% in the IPS period to 1.9% in 2007 and 1.6% in 2008.
- While the means of most of the APR DRG variables were low, there were large changes in the mean values of some APR DRG variables:
 - The prevalence of renal failure was more than twice as high in 2008 (1.68%) than it was for the IPS period (0.67%).
 - The proportion of patients who had cardiac defibrillator and heart assist implant was more than twice as high in 2008 (0.33%) than in the IPS period (0.13%).
 - The prevalence of coronary artery bypass without cardiac catheterization or percutaneous cardiac procedure was only about half as high in 2008 (0.39%) than in the IPS period (0.69%). The proportion of this APR DRG with minor severity decreased from 0.074% to 0.021%.
 - The prevalence of knee joint replacement increased from 2.76% in the baseline period to 3.82% in 2007 and 3.80% in 2008.
 - The prevalence of knee replacement with major severity doubled between the IPS period and 2008, increasing from 0.14% to 0.28%.
 - The prevalence of intervertebral disc excision and decompression with major severity increased from 0.047% in the IPS period to 0.33% in 2008.
 - For all except the major severity level, the prevalence of heart failure decreased from the IPS period to 2008. The overall prevalence decreased from 6.07% in the IPS period to 4.57% in 2008.
 - The prevalence of malfunction, reaction, complication of cardiac/vascular device or procedure with extreme severity more than doubled between 2000 and 2008, increasing from 0.019% to 0.065%.
 - The prevalence of nervous system malignancy decreased by almost half between the IPS period and 2008, decreasing from 0.09% to 0.05%.
 - The prevalence of dorsal and lumbar fusion procedures for curvature of the back more than doubled, from 0.008% to 0.028%.

4.2. Statistical Performance of Regression Models

We measured the statistical performance of the regression models using the adjusted R-squared statistic, a measure of the percentage of the variation in relative payment weight that is explained or predicted by variation in independent variables in the model, adjusting for the number of independent variables in the model. The adjusted R-squared of the IPS period model was 0.1894, indicating that almost 19% of relative payment weight variation was accounted for by the independent variables in the model. The adjusted R-squared of the 2008 model was 0.1023. The goodness of fit for the 2008

⁷ About 84% of proprietary agencies are classified in the POS file as type “Other” – they are understood to be freestanding. About 2% of proprietary agencies are identified as facility based (including hospital-based, SNF-based, and rehab-based), the others fall in categories also taken to be freestanding.

model does not appear as strong as that of the original model. However, it should be noted that the two different R-squared statistics are not directly comparable with one another because the dependent variable has changed somewhat (the 80-HHRG casemix in the original model and the 153-HHRG casemix in the 2008 model). Also, the 2008 model has dropped independent variables on living arrangement because of substantial missing data in the OASIS assessments.

While the models are not intended for the interpretation of individual coefficients, we did examine coefficients for the two models to assess the extent to which the coefficients for key drivers of real case-mix change were similar. Focusing on the 25 variables associated with the largest change in predicted case-mix, we found that:

- Fifteen variables were among the top 25 drivers of case-mix change in both models.
- Of the 25 variables associated with the largest change in predicted case-mix for the IPS-2007 period – 2007, 20 of the variables had the same sign in the 2008 model
- The correlation between the two sets of regression coefficients for the 25 variables associated with the largest change in predicted case-mix for the IPS-2007 was 0.74.

These analyses suggest that the results produced by the two models are similar, particularly for the key drivers of real case-mix change.

4.3. Regression Coefficients

Because of the large number of independent variables used in these models, including the use of many interaction terms, the potential presence of multicollinearity means that the interpretation of individual regression coefficients should be approached with caution, as we have an imprecise estimate of the impact of independent changes in covariates. In a context where our goal is to predict the dependent variable, multicollinearity is not a problem because the predictions remain accurate. Nonetheless, there are several key model results worth noting:

Utilization in period preceding home health episode: In both regression models, the coefficients on the variables indicating the number of days of care in each setting in the 14 days preceding the home health episode and in the period 15 to 120 days prior were all positive and significant. This implies that having more days of care in these settings is associated with higher relative payment weights during the home health episode. In addition, the coefficients for the variables for days of care in the 14 days immediately preceding the home health episode were higher than those for the variables for days of care in the earlier period. Such a finding indicates that more-recent days of care in acute care hospital, long-term care hospital, rehabilitation facility, and SNF settings have a greater impact on the home health episode's relative payment weight.

Patient's living arrangements: The living arrangement variables were included in the IPS model but not the 2008 model. Relative to the reference category (those living with a friend), individuals living alone had a significantly lower relative payment weight, on average, while those living with a spouse, other family members, paid help, or someone else had higher relative payment weights. The coefficients for living alone (-0.07267) and living with paid help (0.12521) were particularly interesting, in part because they identify the living arrangements associated with the lowest average case-mix (living alone) and highest average case-mix (living with paid help), after controlling for the

other independent variables in the model. One possible explanation is a self-selection effect. Individuals with the lowest care needs are able and choose to live alone (assuming these individuals do not have a living spouse). Conversely, individuals with greater care needs may have already hired live-in help to provide custodial care and services.

Hospital inpatient history: Most of the individual APR DRG variables were not significant. Note that the analysis was not intended to identify and explain all individual effects of APR DRGs on home health episode relative payment weights. There are far too many variables, and interpreting them is complicated, given the inclusion of APR DRG and severity interactions, as well as the basic classification into either a medical APR DRG or a procedure APR DRG. That is, any measured impact of an APR DRG is understood to be relative to its basic classification. The purpose of including these variables was to capture the impact of the type and severity of an individual's most recent acute care hospital stay preceding the home health episode, after accounting for all other effects in the model.

Agency type: Relative to agencies for which the agency type is unknown, relative payment weights were lower at freestanding voluntary/non-profit agencies and also lower for facility-based government facilities. For the IPS model, relative payment weights were lower for other proprietary agencies. In the 2008 model, the opposite pattern was observed—relative payment weights were higher for other proprietary agencies.

Medicare payment amount: Adjusting for the other variables in the model, in both the IPS and 2008 models, there was a negative relationship between relative payment weight and acute care hospital payments in the 120 days preceding the home health episode and a positive relationship between relative payment weight and Medicare payments for rehabilitation facilities, and skilled nursing facilities. The coefficient for long-term care hospitals was close to zero in both models, but was positive for the IPS model and negative for the 2008 model. Each \$1,000 increase in payments was associated with the following change in case-mix:

- Acute care hospital: -0.00206 (IPS) -0.00194 (2008)
- Long-term hospital: 0.00024 (IPS) 0.00700 (2008)
- Rehabilitation facility: 0.00199 (IPS) 0.00329 (2008)
- SNF: 0.00915 (IPS) 0.00131 (2008)

The negative coefficient on the acute care hospital expenditures measure may be because the model already includes variables that could be related to inpatient payments – e.g., variables for stays and days of care in each care setting, as well as APR DRG data for the most recent acute care hospital stay. Given the large number of independent variables in the models, it is difficult to interpret the coefficients on the payment variables. One possibility is that these variables, when added to the model alongside the related variables, might be a further measure of intensity of service – i.e., the amount of service provided per day. If services are more intensive in other settings, particularly acute care hospital settings, care needs following acute care stays in the home health setting could be lower. This result may not be surprising given that research conducted to support the development of the case-mix system found that hospital discharges were not associated with higher resource use in home health. As a result, in CMS's 80-group system, a hospital discharge did not result in a higher case-mix weight whereas discharges from skilled nursing or rehabilitation stays did result in a higher case-mix weight.

4.4. Analysis of Case-Mix Change

We calculated predicted case-mix values for 2007 using results from the IPS period and 2008 as described above. We also calculated the differences between actual case-mix for 2008 and IPS and the predicted case-mix values for 2007 and compared these to the actual total change in case-mix that occurred during this period.

IPS Period-2007 Case-Mix Change

Most of the case-mix change that occurred between the IPS period and 2007 was not associated with changes in the prevalence of the independent variables included in the regression model and presumably reflects changes in nominal factors such as agency coding practices.

- The total change in case-mix between the IPS period and 2007 was 0.1647, with average case-mix increasing from 1.0959 to 1.2606 (Table 1).
- Using the IPS model, predicted case-mix for 2007 was 1.1152, an increase of 0.0193 relative to the IPS period.
- Most of the observed case-mix change between the IPS period and 2007 is nominal change that was not predicted by the model. Our estimate is that 88.3% of the case-mix change that occurred between the IPS period and 2007 is unpredicted, while 11.7% is predicted (i.e., associated with changes in the mean values of covariates between the IPS period and 2007.)
- Our best estimate is that there was a 13.27% nominal increase in case-mix between the IPS period and 2007, and a 1.76% real increase in case-mix.

Table 1:
Summary of Real and Nominal Case-mix Change Estimates: IPS period- 2007

Measure	Value
Average case-mix: IPS period	1.0959
Average case-mix: 2007	1.2606
Total change in case-mix	0.1647
Total percentage change	15.03%
Predicted case-mix (2007 using IPS coefficients)	1.1152
Estimated real (predicted) change in case-mix	0.0193
Percent of total change estimated as real	11.70%
Percent of total change estimated as nominal (creep)	88.30%
Percentage points (of total percentage change) estimated as real	1.76%
Percentage points (of total percentage change) estimated as nominal (creep)	13.27%
Notes: Estimates of real (predicted) case-mix change are based on the sum of case-mix change associated with the variables in the model (see the Appendix). Nominal case-mix change is defined as the total change in case-mix minus real change in case-mix.	
Source: Abt Associates, 2010	

2007-2008 Case-Mix Change

Our estimate of the proportion of case-mix change associated with real factors was lower for 2007-2008 than it was for the IPS period-2007. This finding is consistent with previous results that have shown that the proportion of nominal case-mix change has increased over time.

- The total change in case-mix between 2007 and 2008 was 0.0533, with average case-mix increasing from 1.2552 to 1.3085 (Table 2). Note that the 2007 mean case-mix level reported in Table 2 differs slightly from that in Table 1 because the mean in Table 2 is based on the 153-HHRG model while the mean in Table 1 is based on the 80-HHRG model. The change in case-mix between 2007 and 2008 is large, given that this is a one-year difference. The 2008 measure coincides with the introduction of the 153-group case mix system.
- Using regression coefficients from the 2008 model, predicted case-mix for 2007 was 1.306, indicating that real case-mix in 2008 (1.3085) increased by 0.0025 ($1.3085 - 1.306 = 0.0025$) relative to 2007. Our estimate is that 4.7% of the observed case-mix change is real ($0.0025/0.0533$) while the other 95.3% is nominal change ($(0.0533 - 0.0025) / 0.0533$) that was not predicted by the model.
- Our best estimate is that there was a 3.88% increase in nominal case-mix between 2007 and 2008 and a 0.19% increase in real case-mix.

Table 2:

Summary of Real and Nominal Case-mix Change Estimates: 2007-2008

Measure	Value
Average case-mix level: 2007	1.2552
Average case-mix level: 2008	1.3085
Total change in case-mix	0.0533
Total percentage change	4.07%
Predicted case-mix (2007 using 2008 coefficients)	1.3060
Estimated real (predicted) change in case-mix	0.0025
Percent of total change estimated as real	4.70%
Percent of total change estimated as nominal (creep)	95.30%
Percentage points (of total percentage change) estimated as real	0.19%
Percentage points (of total percentage change) estimated as nominal (creep)	3.88%
Notes: Estimates of real (predicted) case-mix are based on the sum of case-mix change associated with the variables in the model (see the Appendix). Nominal case-mix is defined as the total change in case-mix minus real change in case-mix.	
Source: Abt Associates, 2010	

Combining results from Tables 1 and 2, we calculated the total amount of real and nominal change in case-mix from the IPS period through 2008, using the methodology described in Section 3. We summarize our results in Table 3.

- The total change in case-mix between the IPS period and 2008 was 0.2126 ($1.3085 - 1.0959 = 0.2126$), with average case-mix increasing from 1.0959 to 1.3085, a 19.4% increase.

- Real (predicted) case-mix for 2007 was 1.1152 for 2007 and 1.1173 for 2008. The 1.1173 estimate is based on the predicted case-mix for 2007 multiplied times the ratio of actual case mix in 2008 to predicted case-mix for 2007 (from Table 2). The estimate of all real case-mix change since the IPS period is 0.0214 (total real case-mix change = 1.95% = $((1.1173/1.0959)-1)*100\%$).
- Our estimate is that 10.07% of the case-mix change that occurred between the IPS period and 2008 is predicted (real). This is estimated as the predicted (real) change in case-mix between the IPS period and 2008 (0.0214; $1.1173-1.0959 = 0.0214$) divided by the actual change in case-mix for this period (0.2126; $1.3085-1.0959 = 0.2126$), yielding $0.0214 / 0.2126 = 0.1007$ or 10.07%.
- Our estimate is that 89.93% (17.45 percentage points) of the 19.40% case-mix change that occurred between the IPS period and 2008 is nominal case-mix change that is not due to changes in patient characteristics.

Table 3:
Estimate of Total Nominal Case-mix Change: 2000-2008

Parameter	Value
Actual case-mix	
2000 (IPS period)	1.0959
2008	1.3085
Total change: 2000-2008	0.2126
Percent change: 2000-2008	19.40%
Real (predicted) case-mix	
2007 (change relative to 2000)	1.1152
2008 (change relative to 2000)	1.1173
Change in real (predicted) case-mix: 2000-2008	0.0214
Percent change in real case-mix: 2000-2008	1.95%
Percent of total case-mix change estimated as real	10.07%
Nominal case-mix percentage increase	17.45%
Notes: 1) Estimated 2008 real case-mix is calculated as 2007 real case-mix (1.1152) times the ratio of 2008 actual case-mix (1.3085) to 2007 estimated real case-mix (1.3060) (from Table 2) . 2) The percent of total case-mix change estimated as real is calculated as the percentage change in real case-mix (1.95%) divided by the percentage change in actual case-mix (19.4%). 3) The estimate of nominal case-mix percentage increase is calculated as the percentage change in actual case-mix (19.40%) times (1- the percent of total case-mix change estimated as real (10.07%). Source: Abt Associates, 2010	

4.5. Drivers of Real Case-Mix Change

Either because their regression coefficient is close to zero, or because there was only a small change in mean values relative to the IPS period, most of the variables in the model add or subtract a trivial amount to the base year level of average case-mix. For the IPS-2007 model, only 143 out of 902 variables in the model predict a case-mix increase of more than 0.01% or a decrease of more than 0.01% relative to case-mix during the IPS period. For the 2008-2007 model, only 30 of the 897 variables in the model predict a case-mix increase of more than 0.01% or a decrease of more than 0.01% relative to case-mix during 2008. The smaller number of variables for the 2008-2007 model is likely due to the smaller change in means from 2007-2008 compared to IPS-2007.

In this section, we focus on the subset of variables in the model that were associated with real changes (either increases or decreases) in predicted (real) case-mix for 2007. In addition to the regression coefficients and mean values that were reported in Appendix Table 1, Tables 4 and 5 also include information on the real case-mix change predicted by these drivers.

The table is organized by variable category.

- **Demographics (age, race, gender):** None of the demographic variables in the model led to a substantial change in expected case-mix. While the interaction terms used in the model complicate interpretation of individual parameter estimates, combined, the demographic variables included in the models led to a 0.00043 increase in expected case-mix for the IPS-2007 period and a 0.000141 decrease for 2007-2008 (Table 4)
- **Medicare utilization variables:** The Medicare utilization variables tended to be associated with higher predicted case-mix (i.e., their regression coefficients were positive), but because the mean values of many of these variables decreased over time, the Medicare utilization variables were associated with a prediction of slightly negative real case-mix change. For the IPS period-2007, the utilization variables were associated with a -0.007288 change in real case-mix; for 2007-2008, they were associated with a -0.003677 decrease.
- **Living arrangements:** Changes in the distribution of patients by living arrangement lead to a real case-mix increase of 0.002801 between the IPS period and 2007. The increase in the proportion of patients that live with paid help, which had a rather high regression coefficient (0.12521) was the major case-mix driver among the living arrangement variables. Note that the living arrangement variables were not included in the 2008 model. Our analyses suggest that this exclusion had only a minimal impact on our estimate of real case-mix change for 2007-2008, which would have been slightly lower had these variables been included.
- **APR DRG Type (procedure or medical APR DRG):** The proportion of both procedure and medical APR DRGs decreased slightly from 2000-2008. These variables had negative regression coefficients (with the exception of the medical APR DRG variable in the 2008 model). The type of hospital diagnosis variables were associated with a 0.000313 increase in predicted case-mix for the IPS period-2007 and a -0.000261 decrease for 2007-2008.
- **Mortality risk:** Over time, the proportion of patients in the minor and moderate mortality risk categories decreased while the proportion in the major risk category increased. The decrease in patients in the moderate mortality risk category was associated with an increase in expected case-mix, given the negative regression coefficients for these variables. However,

the increase in prevalence of the major mortality risk categories was associated with a prediction of lower case-mix, as this also had a negative coefficient. Overall, the mortality risk variables were associated with a 0.003062 increase in predicted case-mix for the IPS-2007 period and a 0.000918 increase for 2007-2008.

- **Hospital diagnosis (APR DRG) variables:** While the majority of variables in the model are for APR DRGs, most of these variables had low mean values and/or low regression coefficients. As a result, the APR DRG variables had only a small impact on our estimates of predicted case-mix. Combined, they led to an increase of 0.000755 for the IPS period-2007 and a 0.000329 increase for 2007-2008.
- **Agency type of control:** The two largest drivers of case-mix change were the other proprietary and facility-based Vol/NP variables. The proportion of episodes in other proprietary agencies increased by 84.5% between the IPS period and 2007. This variable had a negative regression coefficient in the IPS model, leading to lower expected case-mix in 2007. This was offset by the decrease in the proportion of episodes in facility-based Vol/NP agencies, which also had a negative regression coefficient in the IPS model. Combined, the agency type of control variables in the model led to a real case-mix change of 0.01228 between the IPS period and 2007 and an increase of 0.004964 for 2007-2008.
- **Medicare cost variables:** Combined, the four Medicare cost variables in the model led to a slight increase in expected case-mix—they were associated with a 0.006904 increase in case-mix for the IPS period-2007 and a 0.000366 increase for 2007-2008.

Table 4:
Drivers of Real Case-Mix Change by Category

Category	Real Case-Mix Change	
	IPS-2007	2007-2008
Demographics	0.000430	-0.000141
Medicare utilization	-0.007288	-0.003677
Living arrangements	0.002801	N/A
APR DRG type (Medical or Procedure)	0.000313	-0.000261
Mortality risk	0.003062	0.000918
APR DRG	0.000755	0.000329
Type of control	0.012283	0.004964
Medicare costs	0.006904	0.000366
Note: Estimates of real case-mix change in this table are derived from the table in the Appendix by summing the real case-mix change associated with the category of the variable.		
Source: Abt Associates, 2010		

We also examined the variables in the model that were associated with real changes (either increases or decreases) in predicted (real) case-mix for 2007. Table 5 shows the variables associated with the largest increase in real case-mix for the IPS-2007 period; Table 6 shows the drivers of real case-mix change for 2007-2008. The tables show the regression coefficients, the mean values for the variables, and the change in mean. The real case-mix change for each variable is calculated as the change in mean times the regression coefficient.

- For both models, the largest driver of case-mix change was ownership type: other proprietary. For the IPS-2007 period, there was a large increase in the proportion of episodes for this type of agency. Combined with a negative regression coefficient, this increase led to a -0.024 decrease in real case-mix (Table 5). This was offset by the decrease in the proportion of episodes to facility-based Vol/NP agencies, which also had a negative regression coefficient. For the 2008 model, this covariate had a positive regression coefficient and the increase in means observed between 2007 and 2008 led to a prediction of a 0.0041 increase in real case-mix (Table 6). For the IPS-2007 period, six of the 15 drivers of real case-mix change were measures of agency ownership type.
- Any hospitalization in the 14 days prior to the beginning of the home health episode was associated with lower case-mix in both the IPS and 2008 models. The mean of this covariate has decreased steadily over time and increased real case-mix in both models (0.0073 for the IPS-2007 period and 0.0013 for 2007-2008).
- The number of acute care hospital days in the 14 days preceding the episode was associated with higher case-mix. Because of the large decrease in mean hospital days (from 2.258 in the IPS period to 1.556 in 2007 and 1.438 in 2008), this variable led to a decrease in real case-mix. Similarly, acute care hospital days in the 15-120 days preceding the episode also lowered real case-mix for the IPS-2007 period and for 2007-2008 because of a decrease in mean hospital days combined with a positive regression coefficient.
- There was a substantial decrease in the proportion of patients with APR DRG 045 or 046 (CVA and preverbal occlusion with or without infarction). For both regression models, this covariate had a large positive coefficient, meaning that the change in means led to a decrease in real case-mix. This was the only APR DRG variable that was a top driver of case-mix change in both models.

Table 5:
Drivers of Real Case-Mix Change: IPS-2007

Sev	Variable	Regression Coefficient (IPS)	IPS Mean	2007 Mean	Change in Mean	Real Case-Mix Change
	Other Proprietary	-0.09851	0.292672	0.539954	0.247282	-0.024360
	Facility-Based Vol/NP	-0.14481	0.299250	0.136032	-0.163218	0.023636
	Any Hospital in Prior 14 Days IP Claims	-0.08141	0.383896	0.2933124	-0.090583	0.007374
	Free-Standing Vol/NP	-0.14221	0.158493	0.115547	-0.042946	0.006107
	Acute Care Hospital Days in Period 14 Days Preceding Home Health Episode	0.00782	2.258505	1.5558445	-0.702661	-0.005495
Any	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	0.39495	0.034957	0.024172	-0.010785	-0.004259
	Medicare SNF Payments in 120 Days Preceding Home Health Episode	0.00000915	\$1,164.79	\$1,620.68	455.890000	0.004171
	No Hosp/Rehab/SNF in 14 Days From Prior IP Claims	-0.0432	0.518078	0.601175	0.083097	-0.003590
	Acute Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode	0.00405	4.074083	3.2934306	-0.780653	-0.003162
	Facility-Based Government	-0.153	0.041200	0.020685	-0.020515	0.003139
	Acute Care Hospital Payments in 120 Days Preceding Home Health Episode	-2.06E-06	\$7,569.96	\$6,159.58	-1410.38	0.002905
	Rehabilitation Facility Days in Period 14 Days Preceding Home Health Episode	0.02284	0.441972	0.3163284	-0.125644	-0.002870
	Free-Standing Government	-0.13322	0.038689	0.018570	-0.020120	0.002680
	Free-Standing Proprietary	-0.08207	0.040565	0.072878	0.032313	-0.002652
	Facility-Based Proprietary	-0.11309	0.036217	0.012954	-0.023262	0.002631
Any	08 Knee Joint Replacement	0.21463	0.027612	0.038163	0.010551	0.002265
This is a subset of the table in the Appendix, which presents complete model results. This table reports all variables associated with a change in real case-mix of more than 0.002 or less than -0.002.						
Source: Abt Associates, 2010						

Table 6:
Drivers of Real Case-Mix Change: 2007-2008

Sev	Variable	Regression Coefficient (2008)	2007 Mean	2008 Mean	Change in Mean	Real Case-Mix Change
	Other Proprietary	0.12947	0.539954	0.572082	0.032128	0.004160
	No Hosp/Rehab/SNF in 14 Days From Prior IP Claims	-0.11448	0.601175	0.618982	0.017807	-0.002039
	Any Hospital in Prior 14 Days IP Claims	-0.07891	0.293312	0.276575	-0.016737	0.001321
	Acute Care Hospital Days in Period 14 Days Preceding Home Health Episode	0.01062	1.555845	1.437848	-0.117996	-0.001253
	Mortality Risk Level 2	-0.03992	0.418781	0.392296	-0.026486	0.001057
	Rehabilitation Facility Days in Period 14 Days Preceding Home Health Episode	0.03675	0.316328	0.293976	-0.022353	-0.000821
	Acute Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode	0.0043	3.293431	3.15967	-0.133761	-0.000575
	Free-Standing Proprietary	0.1026	0.072878	0.077890	0.005012	0.000514
	Facility-Based Vol/NP	-0.02465	0.136032	0.117245	-0.018788	0.000463
	Mortality Risk Level 3	-0.02773	0.158394	0.174935	0.016541	-0.000459
	Acute Care Hospital Payments in 120 Days Preceding Home Health Episode	-1.94E-06	\$7,979.46	\$7,753.60	-225.86	0.000438
	Rehabilitation Facility Days in Period 15 to 120 Days Preceding Home Health Episode	0.0141	0.428115	0.398906	-0.029209	-0.000412
Any	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	0.38616	0.024172	0.023159	-0.001013	-0.000391
	Medicare Skilled Nursing Facility (SNF) Days in Period 15 to 120 Days Preceding Home Health Episode	0.00459	3.751428	3.83376	0.082332	0.000378
	Mortality Risk Level 1	-0.06421	0.250267	0.245287	-0.004981	0.000320
	Age 85 to 94	0.04917	0.242232	0.247934	0.005702	0.000280
	Procedure APR DRG	0.03973	0.271464	0.264983	-0.006481	-0.000257
	Other Vol/NP	0.03959	0.078100	0.072086	-0.006014	-0.000238
Any	23 Signs, Symptoms & Other Factors Influencing Health Status	0.23715	0.004897	0.005743	0.000847	0.000201
This is a subset of the table in the Appendix, which presents complete model results. This table reports all variables associated with a change in real case-mix of more than 0.002 or less than -0.002.						
Source: Abt Associates, 2010						

5. Discussion

Since implementation of the prospective payment system, there has been a steady increase in the average case-mix of home health patients. The overall observed case-mix increased by 19.40% between 2000 and 2008, with the average relative payment weight increasing from 1.0959 to 1.3085. The purpose of the analyses described in this report was to estimate the extent to which the observed increases in average case-mix were associated with changes in patient characteristics that reflect real case-mix change versus changes in agency coding practices or other nominal factors. We used data from the IPS period and 2008 to estimate a regression-based, predictive model of individual case-mix weights based on measures of patients' demographic characteristics, clinical status, inpatient history, and Medicare costs in the time period leading up to their home health episodes.

The regression coefficients from these models were applied to episodes from 2007, allowing estimation of how much of the change in observed case-mix is attributable to changes in patient characteristics over time. We classified the sources of case-mix change into two major types: predicted and unpredicted. Real (or predicted) change is based on the relationship between patient characteristics and case-mix (i.e., coefficients from the regression model) and changes in the characteristics of patients over time (i.e., the change in mean values of the model covariates). Unpredicted (or nominal) change is the portion of case-mix change that cannot be explained by changes in patient characteristics. Nominal case-mix change is assumed to reflect differences over time in agency coding practices.

Our estimate is that 0.0214 (10.07%) of the overall observed case-mix between the IPS period and 2008 is real, while the other 0.1912 (89.93%) is nominal. This estimate is consistent with prior analyses that have found that only a small proportion of the total change in case-mix is real. With each successive sample, the predicted average national case-mix weight has changed very little because the variables (such as preadmission location, non-home health Part A Medicare expenditures, and inpatient stay classification, as mentioned above) in the model used to predict case-mix remain relatively constant over time, may have frequently have offsetting effects among them, and/or not have a strong relationship to casemix. At the same time, the actual average case-mix has continued to grow steadily. Thus, the gap between the predicted and actual has increased with each successive year of data.

Our analyses conclude that there has been a 17.45% nominal increase in case-mix ($(19.40\% \times (1 - 10.07\%))$) due to changes in coding practices and documentation rather than to treatment of more resource-intensive patients.

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
	Intercept	1.18258	1.17607	1.000000	1	1	1		
	Age 65 to 74	-0.01802	0.00896	0.245250	0.2383028	0.2383028	0.2372719	0.000125	-0.000009
	Age 75 to 84	0.00050858	0.01693	0.401318	0.3705565	0.3705565	0.3610206	-0.000016	-0.000161
	Age 85 to 94	0.04671	0.04917	0.236566	0.2422321	0.2422321	0.2479341	0.000265	0.000280
	Age 95+	0.09629	0.03333	0.024610	0.0249771	0.0249771	0.0257106	0.000035	0.000024
	Age 65 to 74 * Male	-0.00503	0.01177	0.092414	0.0902147	0.0902147	0.0891523	0.000011	-0.000013
	Age 75 to 84 * Male	-0.00643	0.03468	0.134141	0.1253233	0.1253233	0.1229602	0.000057	-0.000082
	Age 85 to 84 * male	-0.01264	0.04675	0.064177	0.0701629	0.0701629	0.0730483	-0.000076	0.000135
	Age 95+ * Male	-0.02836	0.0568	0.004875	0.0051765	0.0051765	0.0056755	-0.000009	0.000028
	Male	-0.0086	-0.03596	0.339518	0.3474452	0.3474452	0.3495584	-0.000068	-0.000076
	Age 65 to 74 * White	-0.01342	-0.00299	0.193385	0.1769986	0.1769986	0.1753362	0.000220	0.000005
	Age 75 to 84 * White	-0.01441	0.00997	0.340447	0.2941894	0.2941894	0.2856033	0.000667	-0.000086
	Age 85 to 94 * White	-0.05118	-0.00839	0.204121	0.2047367	0.2047367	0.2093607	-0.000032	-0.000039
	Age 95+ * White	-0.09787	-0.02052	0.020048	0.0204016	0.0204016	0.0209864	-0.000035	-0.000012
	White	0.01833	0.04617	0.823055	0.7760053	0.7760053	0.7721835	-0.000862	-0.000176
	Age 65 to 74 * African American	0.025	-0.00557	0.038645	0.0448771	0.0448771	0.0446123	0.000156	0.000001
	Age 75 to 84 * African American	0.04468	-0.00647	0.044595	0.0474105	0.0474105	0.0465985	0.000126	0.000005
	Age 85 to 94 * African American	0.00748	-0.01887	0.023730	0.024293	0.024293	0.0242516	0.000004	0.000001
	Age 95+ * African American	-0.02844	-0.00622	0.003509	0.003275	0.003275	0.0032549	0.000007	0.000000
	African American	-0.00638	0.03418	0.132396	0.1551231	0.1551231	0.1560724	-0.000145	0.000032
	Any Hospital in Prior 14 Days IP Claims	-0.08141	-0.07891	0.383896	0.2933124	0.2933124	0.2765754	0.007374	0.001321
	Any Rehab in 14 Days Prior from IP Claims	0.0668	-0.04333	0.044234	0.0310788	0.0310788	0.0285908	-0.000879	0.000108
	Any MCR SNF in 14 Days Prior From IP Claims	0.0283	0.04329	0.119577	0.1181519	0.1181519	0.1152538	-0.000040	-0.000125
	No Hosp/Rehab/SNF in 14 Days From Prior IP Claims	-0.0432	-0.11448	0.518078	0.601175	0.601175	0.6189821	-0.003590	-0.002039

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	Acute Care Hospital Days in Period 14 Days Preceding Home Health Episode	0.00782	0.01062	2.258505	1.5558445	1.5558445	1.4378481	-0.005495	-0.001253
	Acute Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode	0.00405	0.0043	4.074083	3.2934306	3.2934306	3.1596701	-0.003162	-0.000575
	Long Term Care Hospital Days in Period 14 Days Preceding Home Health Episode	0.02171	0.01906	0.054150	0.0599053	0.0599053	0.0544722	0.000125	-0.000104
	Long Term Care Hospital Days in Period 15 to 120 Days Preceding Home Health Episode	0.00418	0.00255	0.206123	0.26206	0.26206	0.2489274	0.000234	-0.000033
	Rehabilitation Facility Days in Period 14 Days Preceding Home Health Episode	0.02284	0.03675	0.441972	0.3163284	0.3163284	0.2939756	-0.002870	-0.000821
	Rehabilitation Facility Days in Period 15 to 120 Days Preceding Home Health Episode	0.00718	0.0141	0.679488	0.428115	0.428115	0.3989064	-0.001805	-0.000412
	Medicare Skilled Nursing Facility (SNF) Days in Period 14 Days Preceding Home Health Episode	0.01278	0.00745	1.170081	1.2425008	1.2425008	1.2262476	0.000926	-0.000121
	Medicare Skilled Nursing Facility (SNF) Days in Period 15 to 120 Days Preceding Home Health Episode	0.00194	0.00459	2.775380	3.7514276	3.7514276	3.8337598	0.001894	0.000378
	Patient Lives Alone	-0.07267		0.304597	0.29388139			0.000779	0.000000
	Patient Lives with Other (Not Family, Friends, Paid Help or Spouse)	0.05791		0.014602	0.00933568			-0.000305	0.000000
	Patient Lives with Other Family	0.06056		0.282976	0.28082996			-0.000130	0.000000
	Patient Lives with Paid Help	0.12521		0.076673	0.09165792			0.001876	0.000000
	Patient Lives with Spouse	0.04426		0.349507	0.36263278			0.000581	0.000000
	Medical APR DRG	-0.00756	-0.01052	0.609462	0.5959051	0.5959051	0.5962857	0.000102	-0.000004
	Procedure APR DRG	-0.03775	0.03973	0.277029	0.2714636	0.2714636	0.2649825	0.000210	-0.000257
	Mortality Risk Level 1	-0.0721	-0.06421	0.274601	0.2502672	0.2502672	0.2452866	0.001754	0.000320

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	Mortality Risk Level 2	-0.05438	-0.03992	0.454415	0.4187814	0.4187814	0.3922956	0.001938	0.001057
	Mortality Risk Level 3	-0.02796	-0.02773	0.135841	0.158394	0.158394	0.1749351	-0.000631	-0.000459
Any	Tracheostomy W Long Term Mechanical Ventilation W Extensive Procedure	0.3273	0.33671	0.000536	0.000487	0.000487	0.000552	-0.000016	0.000022
Major	Tracheostomy W Long Term Mechanical Ventilation W Extensive Procedure	-0.00117	-0.03861	0.000188	0.000102	0.000102	0.000100	0.000000	0.000000
Extreme	Tracheostomy W Long Term Mechanical Ventilation W Extensive Procedure	-0.12727	-0.08465	0.000313	0.000371	0.000371	0.000431	-0.000007	-0.000005
Any	Tracheostomy W Long Term Mechanical Ventilation W/O Extensive Procedure	0.19932	0.17192	0.000948	0.000878	0.000878	0.000886	-0.000014	0.000001
Mod	Tracheostomy W Long Term Mechanical Ventilation W/O Extensive Procedure	-0.18388	0.12261	0.000108	0.000046	0.000046	0.000039	0.000011	-0.000001
Major	Tracheostomy W Long Term Mechanical Ventilation W/O Extensive Procedure	0.05043	-0.04125	0.000351	0.000275	0.000275	0.000279	-0.000004	0.000000
Any	01 Craniotomy For Trauma	-0.01526	0.17991	0.000542	0.000662	0.000662	0.000674	-0.000002	0.000002
Minor	01 Craniotomy For Trauma	0.3377	-0.102	0.000309	0.000372	0.000372	0.000321	0.000021	0.000005
Mod	01 Craniotomy For Trauma	0.35483	0.26809	0.000089	0.000040	0.000040	0.000061	-0.000018	0.000006
Major	01 Craniotomy For Trauma	0.2477	-0.01433	0.000108	0.000183	0.000183	0.000187	0.000018	0.000000
Any	01 Craniotomy Except For Trauma	0.42073	0.3872	0.002351	0.002198	0.002198	0.002075	-0.000064	-0.000048
Minor	01 Craniotomy Except For Trauma	-0.13243	-0.19351	0.000922	0.000729	0.000729	0.000659	0.000026	0.000014
Mod	01 Craniotomy Except For Trauma	-0.09805	-0.17612	0.000842	0.000806	0.000806	0.000758	0.000004	0.000009
Major	01 Craniotomy Except For Trauma	-0.03669	-0.13184	0.000402	0.000397	0.000397	0.000393	0.000000	0.000001
Any	01 Ventricular Shunt Procedures	0.39968	0.20222	0.000644	0.000775	0.000775	0.000730	0.000052	-0.000009
Minor	01 Ventricular Shunt Procedures	0.09766	0.01107	0.000182	0.000179	0.000179	0.000180	0.000000	0.000000
Mod	01 Ventricular Shunt Procedures	-0.01476	0.02849	0.000367	0.000498	0.000498	0.000436	-0.000002	-0.000002

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Any	01 Spinal Procedures	0.38137	0.29507	0.000657	0.000727	0.000727	0.000685	0.000027	-0.000012
Minor	01 Spinal Procedures	-0.06927	-0.25133	0.000195	0.000157	0.000157	0.000168	0.000003	-0.000003
Mod	01 Spinal Procedures	-0.18271	-0.11864	0.000249	0.000281	0.000281	0.000265	-0.000006	0.000002
Major	01 Spinal Procedures	-0.11748	0.01089	0.000166	0.000208	0.000208	0.000204	-0.000005	0.000000
Any	01 Extracranial Vascular Procedures	0.36423	0.25751	0.003650	0.003457	0.003457	0.003483	-0.000070	0.000007
Minor	01 Extracranial Vascular Procedures	-0.2569	-0.27757	0.001200	0.001157	0.001157	0.001085	0.000011	0.000020
Mod	01 Extracranial Vascular Procedures	-0.17653	-0.23155	0.001694	0.001509	0.001509	0.001480	0.000033	0.000007
Major	01 Extracranial Vascular Procedures	-0.14735	-0.12151	0.000660	0.000677	0.000677	0.000771	-0.000002	-0.000011
Any	01 Other Nervous System & Related Procedures	0.23396	0.19363	0.000928	0.000972	0.000972	0.000813	0.000010	-0.000031
Minor	01 Other Nervous System & Related Procedures	0.01026	-0.09039	0.000131	0.000184	0.000184	0.000109	0.000001	0.000007
Mod	01 Other Nervous System & Related Procedures	0.0677	-0.0539	0.000450	0.000348	0.000348	0.000351	-0.000007	0.000000
Major	01 Other Nervous System & Related Procedures	0.12801	0.01779	0.000338	0.000382	0.000382	0.000311	0.000006	-0.000001
Any	01 Spinal Disorders & Injuries	0.29678	0.02725	0.000294	0.000254	0.000254	0.000275	-0.000012	0.000001
Mod	01 Spinal Disorders & Injuries	0.10278	0.33306	0.000166	0.000128	0.000128	0.000139	-0.000004	0.000003
Major	01 Spinal Disorders & Injuries	0.06315	0.4745	0.000102	0.000094	0.000094	0.000091	0.000000	-0.000002
Any	01 Nervous System Malignancy	-0.08084	-0.23682	0.000916	0.000582	0.000582	0.000492	0.000027	0.000021
Minor	01 Nervous System Malignancy	0.27972	0.47043	0.000089	0.000051	0.000051	0.000033	-0.000011	-0.000008
Mod	01 Nervous System Malignancy	0.27316	0.36231	0.000421	0.000250	0.000250	0.000195	-0.000047	-0.000020
Major	01 Nervous System Malignancy	0.12755	0.35261	0.000396	0.000264	0.000264	0.000245	-0.000017	-0.000006
Any	01 Degenerative Nervous System Disorders Exc Mult Sclerosis	0.36428	0.26453	0.004715	0.006806	0.006806	0.006670	0.000762	-0.000036
Minor	01 Degenerative Nervous System Disorders Exc Mult Sclerosis	-0.18549	0.00505	0.000912	0.000652	0.000652	0.000591	0.000048	0.000000
Mod	01 Degenerative Nervous System Disorders Exc Mult Sclerosis	-0.15438	-0.11661	0.002833	0.004603	0.004603	0.004493	-0.000273	0.000013
Major	01 Degenerative Nervous System Disorders Exc Mult Sclerosis	-0.13009	-0.06934	0.000881	0.001472	0.001472	0.001459	-0.000077	0.000001

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Any	01 Multiple Sclerosis & Other Demyelinating Diseases	0.58785	0.25065	0.001324	0.001216	0.001216	0.001206	-0.000063	-0.000003
Minor	01 Multiple Sclerosis & Other Demyelinating Diseases	-0.24667	0.09776	0.000491	0.000304	0.000304	0.000303	0.000046	0.000000
Mod	01 Multiple Sclerosis & Other Demyelinating Diseases	-0.28785	0.10968	0.000692	0.000752	0.000752	0.000709	-0.000017	-0.000005
Major	01 Multiple Sclerosis & Other Demyelinating Diseases	-0.15219	0.10542	0.000137	0.000153	0.000153	0.000173	-0.000002	0.000002
Any	01 Intracranial Hemorrhage	0.25023	0.33495	0.002868	0.002413	0.002413	0.002588	-0.000114	0.000058
Minor	01 Intracranial Hemorrhage	0.04772	-0.17065	0.000577	0.000353	0.000353	0.000386	-0.000011	-0.000006
Mod	01 Intracranial Hemorrhage	0.06663	-0.01829	0.001327	0.001007	0.001007	0.001011	-0.000021	0.000000
Major	01 Intracranial Hemorrhage	0.09628	0.00049387	0.000845	0.000907	0.000907	0.000998	0.000006	0.000000
Any	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	0.39495	0.38616	0.034957	0.024172	0.024172	0.023159	-0.004259	-0.000391
Minor	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	-0.07792	-0.17696	0.003548	0.001982	0.001982	0.001625	0.000122	0.000063
Mod	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	-0.07325	-0.07746	0.022527	0.014909	0.014909	0.013922	0.000558	0.000076
Major	Cva W Infarct/Nonspecific Cva & Precerebral Occl W/O Infarct	-0.06912	-0.06044	0.008391	0.006657	0.006657	0.006850	0.000120	-0.000012
Any	01 Transient Ischemia	-0.05165	0.10762	0.010952	0.009199	0.009199	0.008699	0.000091	-0.000054
Minor	01 Transient Ischemia	0.21585	0.00855	0.001921	0.001258	0.001258	0.001095	-0.000143	-0.000001
Mod	01 Transient Ischemia	0.23145	0.0424	0.007306	0.005990	0.005990	0.005735	-0.000305	-0.000011
Major	01 Transient Ischemia	0.17389	0.0162	0.001704	0.001887	0.001887	0.001773	0.000032	-0.000002
Any	01 Peripheral, Cranial & Autonomic Nerve Disorders	-0.16514	-0.06692	0.003666	0.003287	0.003287	0.003278	0.000062	0.000001
Minor	01 Peripheral, Cranial & Autonomic Nerve Disorders	0.34645	0.2768	0.000507	0.000408	0.000408	0.000460	-0.000034	0.000014
Mod	01 Peripheral, Cranial & Autonomic Nerve Disorders	0.26553	0.18874	0.001780	0.001508	0.001508	0.001444	-0.000072	-0.000012

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Major	01 Peripheral, Cranial & Autonomic Nerve Disorders	0.31229	0.21246	0.001330	0.001283	0.001283	0.001272	-0.000015	-0.000002
Any	01 Bacterial & Tuberculous Infections Of Nervous System	0.18768	0.01098	0.000262	0.000218	0.000218	0.000265	-0.000008	0.000001
Mod	01 Bacterial & Tuberculous Infections Of Nervous System	0.09716	0.14752	0.000147	0.000074	0.000074	0.000108	-0.000007	0.000005
Major	01 Bacterial & Tuberculous Infections Of Nervous System	-0.06652	0.23401	0.000096	0.000083	0.000083	0.000107	0.000001	0.000006
Any	01 Non-Bacterial Infections Of Nervous System Exc Viral Meningitis	-0.09775	0.08273	0.000412	0.000410	0.000410	0.000427	0.000000	0.000001
Minor	01 Non-Bacterial Infections Of Nervous System Exc Viral Meningitis	-0.02908	-0.0381	0.000108	0.000114	0.000114	0.000131	0.000000	-0.000001
Mod	01 Non-Bacterial Infections Of Nervous System Exc Viral Meningitis	0.22816	0.06563	0.000140	0.000141	0.000141	0.000132	0.000000	-0.000001
Major	01 Non-Bacterial Infections Of Nervous System Exc Viral Meningitis	0.3793	0.1688	0.000140	0.000115	0.000115	0.000127	-0.000010	0.000002
Any	01 Nontraumatic Stupor & Coma	0.18585	0.14078	0.001694	0.002989	0.002989	0.003327	0.000241	0.000048
Minor	01 Nontraumatic Stupor & Coma	-0.12804	-0.059	0.000191	0.000160	0.000160	0.000168	0.000004	0.000000
Mod	01 Nontraumatic Stupor & Coma	-0.03121	-0.03867	0.000699	0.000726	0.000726	0.000690	-0.000001	0.000001
Major	01 Nontraumatic Stupor & Coma	-0.05085	0.01348	0.000766	0.001929	0.001929	0.002229	-0.000059	0.000004
Any	01 Seizure	0.13094	0.04413	0.004770	0.004952	0.004952	0.004934	0.000024	-0.000001
Minor	01 Seizure	-0.0945	0.04621	0.000676	0.000576	0.000576	0.000650	0.000009	0.000003
Mod	01 Seizure	0.03536	0.07491	0.002686	0.002636	0.002636	0.002548	-0.000002	-0.000007
Major	01 Seizure	-0.04479	0.08566	0.001257	0.001514	0.001514	0.001516	-0.000012	0.000000
Any	01 Migraine & Other Headaches	0.02372	-0.00436	0.000523	0.000703	0.000703	0.000716	0.000004	0.000000
Minor	01 Migraine & Other Headaches	0.01025	0.21441	0.000134	0.000142	0.000142	0.000157	0.000000	0.000003
Mod	01 Migraine & Other Headaches	0.15649	0.06133	0.000306	0.000448	0.000448	0.000454	0.000022	0.000000
Any	01 Head Trauma W Coma >1 Hr Or Hemorrhage	0.39013	0.21446	0.000900	0.002050	0.002050	0.002225	0.000449	0.000037
Minor	01 Head Trauma W Coma >1 Hr Or Hemorrhage	-0.03567	-0.05245	0.000144	0.000241	0.000241	0.000279	-0.000003	-0.000002

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Mod	01 Head Trauma W Coma >1 Hr Or Hemorrhage	-0.17407	-0.000158	0.000472	0.001115	0.001115	0.001226	-0.000112	0.000000
Major	01 Head Trauma W Coma >1 Hr Or Hemorrhage	-0.11597	-0.07163	0.000242	0.000581	0.000581	0.000630	-0.000039	-0.000004
Any	01 Brain Contusion/Laceration & Complicated Skull Fx, Coma < 1 Hr Or No Coma	0.45473	0.185	0.000357	0.000468	0.000468	0.000508	0.000050	0.000007
Mod	01 Brain Contusion/Laceration & Complicated Skull Fx, Coma < 1 Hr Or No Coma	-0.23255	-0.03522	0.000220	0.000265	0.000265	0.000292	-0.000010	-0.000001
Major	01 Brain Contusion/Laceration & Complicated Skull Fx, Coma < 1 Hr Or No Coma	-0.40577	-0.04994	0.000083	0.000117	0.000117	0.000119	-0.000014	0.000000
Any	01 Concussion, Closed Skull Fx Nos,Uncomplicated Intracranial Injury, Coma < 1 Hr Or No Coma	-0.01457	-0.03162	0.000536	0.000762	0.000762	0.000826	-0.000003	-0.000002
Minor	01 Concussion, Closed Skull Fx Nos,Uncomplicated Intracranial Injury, Coma < 1 Hr Or No Coma	0.18334	0.22665	0.000096	0.000075	0.000075	0.000094	-0.000004	0.000004
Mod	01 Concussion, Closed Skull Fx Nos,Uncomplicated Intracranial Injury, Coma < 1 Hr Or No Coma	0.13346	0.18574	0.000316	0.000481	0.000481	0.000516	0.000022	0.000006
Major	01 Concussion, Closed Skull Fx Nos,Uncomplicated Intracranial Injury, Coma < 1 Hr Or No Coma	0.09551	0.14919	0.000115	0.000192	0.000192	0.000199	0.000007	0.000001
Any	01 Other Disorders Of Nervous System	0.27138	0.31645	0.003934	0.004676	0.004676	0.004681	0.000201	0.000001
Minor	01 Other Disorders Of Nervous System	-0.05643	-0.13934	0.001662	0.002053	0.002053	0.001924	-0.000022	0.000018
Mod	01 Other Disorders Of Nervous System	-0.02672	-0.08878	0.001640	0.001873	0.001873	0.001835	-0.000006	0.000003
Major	01 Other Disorders Of Nervous System	-0.08349	-0.04646	0.000609	0.000681	0.000681	0.000813	-0.000006	-0.000006
Any	02 Eye Procedures Except Orbit	0.0316	-0.08326	0.000415	0.000148	0.000148	0.000179	-0.000008	-0.000003

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Minor	02 Eye Procedures Except Orbit	0.03056	0.03014	0.000134	0.000057	0.000057	0.000054	-0.000002	0.000000
Mod	02 Eye Procedures Except Orbit	0.18053	0.25115	0.000223	0.000071	0.000071	0.000103	-0.000028	0.000008
Any	02 Acute Major Eye Infections	0.18497	-0.05486	0.000166	0.000201	0.000201	0.000196	0.000006	0.000000
Mod	02 Acute Major Eye Infections	-0.02851	0.07818	0.000089	0.000123	0.000123	0.000139	-0.000001	0.000001
Any	02 Eye Disorders Except Major Infections	0.11621	0.15567	0.000392	0.000486	0.000486	0.000454	0.000011	-0.000005
Mod	02 Eye Disorders Except Major Infections	-0.05748	-0.03892	0.000246	0.000277	0.000277	0.000245	-0.000002	0.000001
Major	02 Eye Disorders Except Major Infections	-0.08336	-0.03987	0.000093	0.000130	0.000130	0.000123	-0.000003	0.000000
Any	03 Major Cranial/Facial Bone Procedures	0.18856	0.15336	0.000278	0.000231	0.000231	0.000218	-0.000009	-0.000002
Major	03 Major Cranial/Facial Bone Procedures	-0.07385	-0.20696	0.000175	0.000134	0.000134	0.000128	0.000003	0.000001
Any	03 Major Larynx & Trachea Procedures	0.01359	0.04716	0.000389	0.000187	0.000187	0.000220	-0.000003	0.000002
Mod	03 Major Larynx & Trachea Procedures	-0.03584	-0.08335	0.000306	0.000145	0.000145	0.000139	0.000006	0.000000
Any	03 Other Major Head & Neck Procedures	0.10069	-0.12702	0.000242	0.000157	0.000157	0.000186	-0.000009	-0.000004
Mod	03 Other Major Head & Neck Procedures	-0.01987	0.06787	0.000144	0.000075	0.000075	0.000077	0.000001	0.000000
Any	03 Facial Bone Procedures Except Major Cranial/Facial Bone Procedures	0.12438	0.02625	0.000156	0.000099	0.000099	0.000094	-0.000007	0.000000
Mod	03 Facial Bone Procedures Except Major Cranial/Facial Bone Procedures	0.12151	-0.12247	0.000080	0.000039	0.000039	0.000048	-0.000005	-0.000001
Any	03 Other Ear, Nose, Mouth & Throat Procedures	0.05519	-0.18833	0.000558	0.000390	0.000390	0.000397	-0.000009	-0.000001
Minor	03 Other Ear, Nose, Mouth & Throat Procedures	-0.02432	0.08374	0.000160	0.000087	0.000087	0.000095	0.000002	0.000001

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Mod	03 Other Ear, Nose, Mouth & Throat Procedures	-0.06385	0.13539	0.000274	0.000173	0.000173	0.000167	0.000006	-0.000001
Major	03 Other Ear, Nose, Mouth & Throat Procedures	-0.122	0.0394	0.000096	0.000103	0.000103	0.000086	-0.000001	-0.000001
Any	Cranial/Facial Malignancies	-0.03748	-0.13047	0.000284	0.000248	0.000248	0.000251	0.000001	0.000000
Mod	03 Ear, Nose, Mouth, Throat, Cranial/Facial Malignancies	-0.03105	0.07781	0.000086	0.000067	0.000067	0.000068	0.000001	0.000000
Major	F	0.01864	0.11833	0.000128	0.000126	0.000126	0.000134	0.000000	0.000001
Any	03 Vertigo & Other Labyrinth Disorders	-0.03939	0.11874	0.002061	0.003018	0.003018	0.002823	-0.000038	-0.000023
Minor	03 Vertigo & Other Labyrinth Disorders	0.08128	-0.11175	0.000609	0.000810	0.000810	0.000675	0.000016	0.000015
Mod	03 Vertigo & Other Labyrinth Disorders	0.10758	-0.06636	0.001228	0.001780	0.001780	0.001754	0.000059	0.000002
Any	03 Infections Of Upper Respiratory Tract	-0.38314	0.06676	0.001299	0.001099	0.001099	0.001566	0.000077	0.000031
Minor	03 Infections Of Upper Respiratory Tract	0.39849	-0.06196	0.000160	0.000123	0.000123	0.000124	-0.000015	0.000000
Mod	03 Infections Of Upper Respiratory Tract	0.3867	-0.00604	0.000871	0.000666	0.000666	0.000923	-0.000079	-0.000002
Major	03 Infections Of Upper Respiratory Tract	0.4361	-0.01197	0.000258	0.000292	0.000292	0.000493	0.000015	-0.000002
Any	03 Dental & Oral Diseases & Injuries	-0.0556	-0.0174	0.000287	0.000434	0.000434	0.000516	-0.000008	-0.000001
Mod	03 Dental & Oral Diseases & Injuries	0.1599	0.13972	0.000185	0.000237	0.000237	0.000275	0.000008	0.000005
Any	03 Other Ear, Nose, Mouth, Throat & Cranial/Facial Diagnoses	-0.03881	0.1418	0.001263	0.001655	0.001655	0.001764	-0.000015	0.000015
Minor	03 Other Ear, Nose, Mouth, Throat & Cranial/Facial Diagnoses	-0.00587	-0.05888	0.000376	0.000508	0.000508	0.000499	-0.000001	0.000001
Mod	03 Other Ear, Nose, Mouth, Throat & Cranial/Facial Diagnoses	0.1169	-0.03705	0.000625	0.000856	0.000856	0.000900	0.000027	-0.000002
Major	03 Other Ear, Nose, Mouth, Throat & Cranial/Facial Diagnoses	0.0894	0.09957	0.000217	0.000233	0.000233	0.000288	0.000001	0.000005

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Any	04 Major Respiratory & Chest Procedures	0.03143	0.02537	0.001940	0.002110	0.002110	0.001993	0.000005	-0.000003
Minor	04 Major Respiratory & Chest Procedures	-0.07511	-0.13602	0.000294	0.000229	0.000229	0.000195	0.000005	0.000005
Mod	04 Major Respiratory & Chest Procedures	-0.07645	-0.08735	0.000970	0.000981	0.000981	0.000928	-0.000001	0.000005
Major	04 Major Respiratory & Chest Procedures	-0.06678	-0.02315	0.000533	0.000637	0.000637	0.000595	-0.000007	0.000001
Any	04 Other Respiratory & Chest Procedures	0.06319	-0.09625	0.001793	0.001688	0.001688	0.001747	-0.000007	-0.000006
Minor	04 Other Respiratory & Chest Procedures	-0.10817	-0.03993	0.000309	0.000192	0.000192	0.000197	0.000013	0.000000
Mod	04 Other Respiratory & Chest Procedures	-0.11261	0.01533	0.000814	0.000733	0.000733	0.000708	0.000009	0.000000
Major	04 Other Respiratory & Chest Procedures	-0.08622	0.06693	0.000495	0.000545	0.000545	0.000597	-0.000004	0.000004
Any	04 Respiratory System Diagnosis W Ventilator Support 96+ Hours	0.18301	-0.03535	0.002855	0.002018	0.002018	0.001921	-0.000153	0.000003
Mod	04 Respiratory System Diagnosis W Ventilator Support 96+ Hours	-0.10922	0.07941	0.000501	0.000223	0.000223	0.000201	0.000030	-0.000002
Major	04 Respiratory System Diagnosis W Ventilator Support 96+ Hours	-0.16609	0.12826	0.001372	0.000823	0.000823	0.000657	0.000091	-0.000021
Extreme	04 Respiratory System Diagnosis W Ventilator Support 96+ Hours	-0.1019	0.11415	0.000928	0.000956	0.000956	0.001041	-0.000003	0.000010
Any	04 Pulmonary Edema & Respiratory Failure	-0.04014	0.0063	0.006196	0.009301	0.009301	0.010485	-0.000125	0.000007
Minor	04 Pulmonary Edema & Respiratory Failure	-0.0328	0.13241	0.000124	0.000030	0.000030	0.000025	0.000003	-0.000001
Mod	04 Pulmonary Edema & Respiratory Failure	-0.0593	-0.00534	0.001452	0.001320	0.001320	0.001559	0.000008	-0.000001
Major	04 Pulmonary Edema & Respiratory Failure	-0.02843	0.02465	0.002632	0.004333	0.004333	0.005085	-0.000048	0.000019
Any	04 Pulmonary Embolism	-0.10157	0.06686	0.003407	0.005768	0.005768	0.005645	-0.000240	-0.000008
Minor	04 Pulmonary Embolism	-0.00229	-0.14798	0.000392	0.000632	0.000632	0.000530	-0.000001	0.000015

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Mod	04 Pulmonary Embolism	0.09668	-0.08123	0.001678	0.002666	0.002666	0.002587	0.000095	0.000006
Major	04 Pulmonary Embolism	0.05564	-0.02409	0.001158	0.002172	0.002172	0.002144	0.000056	0.000001
Any	04 Major Chest & Respiratory Trauma	0.00141	0.10507	0.001388	0.001461	0.001461	0.001545	0.000000	0.000009
Minor	04 Major Chest & Respiratory Trauma	0.06772	-0.023	0.000536	0.000482	0.000482	0.000515	-0.000004	-0.000001
Mod	04 Major Chest & Respiratory Trauma	0.13911	0.01472	0.000437	0.000458	0.000458	0.000484	0.000003	0.000000
Major	04 Major Chest & Respiratory Trauma	0.06419	0.02407	0.000370	0.000450	0.000450	0.000470	0.000005	0.000000
Any	04 Respiratory Malignancy	-0.12515	-0.05971	0.003130	0.002194	0.002194	0.001849	0.000117	0.000021
Minor	04 Respiratory Malignancy	0.10583	-0.11736	0.000124	0.000085	0.000085	0.000057	-0.000004	0.000003
Mod	04 Respiratory Malignancy	0.00191	-0.0141	0.001375	0.000764	0.000764	0.000572	-0.000001	0.000003
Major	04 Respiratory Malignancy	-0.00563	-0.01243	0.001519	0.001221	0.001221	0.001084	0.000002	0.000002
Any	04 Major Respiratory Infections & Inflammations	0.1555	0.13195	0.014127	0.009881	0.009881	0.010087	-0.000660	0.000027
Minor	04 Major Respiratory Infections & Inflammations	-0.17445	-0.08429	0.000587	0.000253	0.000253	0.000282	0.000058	-0.000002
Mod	04 Major Respiratory Infections & Inflammations	-0.05159	-0.01675	0.005580	0.003430	0.003430	0.003224	0.000111	0.000003
Major	04 Major Respiratory Infections & Inflammations	0.01144	0.01753	0.006646	0.004894	0.004894	0.004916	-0.000020	0.000000
Any	04 Other Pneumonia	-0.0381	0.05789	0.044333	0.037104	0.037104	0.034990	0.000275	-0.000122
Minor	04 Other Pneumonia	0.02881	-0.05164	0.002275	0.001756	0.001756	0.001730	-0.000015	0.000001
Mod	04 Other Pneumonia	0.0336	-0.0189	0.023222	0.018169	0.018169	0.016622	-0.000170	0.000029
Major	04 Other Pneumonia	0.04181	-0.02454	0.017375	0.015593	0.015593	0.014613	-0.000074	0.000024
Any	04 Chronic Obstructive Pulmonary Disease	-0.10151	-0.04399	0.029275	0.025214	0.025214	0.028926	0.000412	-0.000163
Minor	04 Chronic Obstructive Pulmonary Disease	0.01143	-0.00442	0.006256	0.003857	0.003857	0.003626	-0.000027	0.000001
Mod	04 Chronic Obstructive Pulmonary Disease	0.03585	0.03018	0.014899	0.012535	0.012535	0.013593	-0.000085	0.000032

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Major	04 Chronic Obstructive Pulmonary Disease	0.01786	0.03265	0.007143	0.007796	0.007796	0.010372	0.000012	0.000084
Any	04 Asthma	0.04547	0.28419	0.002300	0.001761	0.001761	0.001901	-0.000025	0.000040
Minor	04 Asthma	-0.04726	-0.3034	0.000396	0.000258	0.000258	0.000270	0.000006	-0.000004
Mod	04 Asthma	-0.12376	-0.295	0.001378	0.001044	0.001044	0.001154	0.000041	-0.000032
Major	04 Asthma	-0.07255	-0.28568	0.000507	0.000437	0.000437	0.000445	0.000005	-0.000002
Any	04 Interstitial Lung Disease	-0.0996	0.19013	0.001273	0.001171	0.001171	0.001129	0.000010	-0.000008
Mod	04 Interstitial Lung Disease	0.0509	-0.16608	0.000561	0.000501	0.000501	0.000454	-0.000003	0.000008
Major	04 Interstitial Lung Disease	0.11287	-0.20893	0.000577	0.000561	0.000561	0.000539	-0.000002	0.000005
Any	04 Other Respiratory Diagnoses Except Signs, Symptoms & Minor Diagnoses	-0.01016	0.08958	0.002900	0.002253	0.002253	0.002460	0.000007	0.000018
Minor	04 Other Respiratory Diagnoses Except Signs, Symptoms & Minor Diagnoses	0.02987	0.02246	0.000223	0.000142	0.000142	0.000104	-0.000002	-0.000001
Mod	04 Other Respiratory Diagnoses Except Signs, Symptoms & Minor Diagnoses	0.00153	-0.07325	0.001471	0.001086	0.001086	0.001026	-0.000001	0.000004
Major	04 Other Respiratory Diagnoses Except Signs, Symptoms & Minor Diagnoses	0.05195	-0.06942	0.001011	0.000825	0.000825	0.001065	-0.000010	-0.000017
Any	04 Respiratory Signs, Symptoms & Minor Diagnoses	0.23861	0.12102	0.006604	0.006141	0.006141	0.006539	-0.000111	0.000048
Minor	04 Respiratory Signs, Symptoms & Minor Diagnoses	-0.22731	-0.10904	0.001372	0.001224	0.001224	0.001261	0.000034	-0.000004
Mod	04 Respiratory Signs, Symptoms & Minor Diagnoses	-0.19844	-0.04933	0.003691	0.003410	0.003410	0.003516	0.000056	-0.000005
Major	04 Respiratory Signs, Symptoms & Minor Diagnoses	-0.1964	-0.06709	0.001493	0.001395	0.001395	0.001606	0.000019	-0.000014
Any	05 Cardiac Defibrillator & Heart Assist Implant	-0.07126	-0.12147	0.001257	0.003308	0.003308	0.003286	-0.000146	0.000003
Mod	05 Cardiac Defibrillator & Heart Assist Implant	0.07897	-0.00164	0.000415	0.000970	0.000970	0.000886	0.000044	0.000000

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Major	05 Cardiac Defibrillator & Heart Assist Implant	-0.01013	0.05112	0.000613	0.001880	0.001880	0.001882	-0.000013	0.000000
Extreme	05 Cardiac Defibrillator & Heart Assist Implant	0.11118	0.04235	0.000153	0.000330	0.000330	0.000369	0.000020	0.000002
Any	05 Cardiac Valve Procedures W Cardiac Catheterization	-0.01012	-0.05949	0.002316	0.001937	0.001937	0.001786	0.000004	0.000009
Minor	05 Cardiac Valve Procedures W Cardiac Catheterization	-0.10774	-0.17154	0.000121	0.000066	0.000066	0.000078	0.000006	-0.000002
Mod	05 Cardiac Valve Procedures W Cardiac Catheterization	-0.08774	-0.15223	0.000597	0.000369	0.000369	0.000334	0.000020	0.000005
Major	05 Cardiac Valve Procedures W Cardiac Catheterization	-0.05744	-0.06401	0.001353	0.000977	0.000977	0.000901	0.000022	0.000005
Any	05 Cardiac Valve Procedures W/O Cardiac Catheterization	0.0463	0.0099	0.003312	0.003257	0.003257	0.003189	-0.000003	-0.000001
Minor	05 Cardiac Valve Procedures W/O Cardiac Catheterization	-0.23228	-0.22444	0.000297	0.000221	0.000221	0.000211	0.000018	0.000002
Mod	05 Cardiac Valve Procedures W/O Cardiac Catheterization	-0.14621	-0.17531	0.001257	0.001035	0.001035	0.000887	0.000032	0.000026
Major	05 Cardiac Valve Procedures W/O Cardiac Catheterization	-0.13906	-0.16686	0.001436	0.001440	0.001440	0.001487	-0.000001	-0.000008
Any	05 Coronary Bypass W Cardiac Cath Or Percutaneous Cardiac Procedure	0.06255	-0.06247	0.011201	0.006414	0.006414	0.005720	-0.000299	0.000043
Minor	05 Coronary Bypass W Cardiac Cath Or Percutaneous Cardiac Procedure	-0.19524	-0.14838	0.000657	0.000262	0.000262	0.000222	0.000077	0.000006
Mod	05 Coronary Bypass W Cardiac Cath Or Percutaneous Cardiac Procedure	-0.16022	-0.12149	0.005816	0.002637	0.002637	0.002257	0.000509	0.000046
Major	05 Coronary Bypass W Cardiac Cath Or Percutaneous Cardiac Procedure	-0.12918	-0.07795	0.003892	0.002649	0.002649	0.002323	0.000161	0.000025
Any	05 Coronary Bypass W/O Cardiac Cath Or Percutaneous Cardiac Procedure	-0.03305	-0.1052	0.006939	0.004401	0.004401	0.003936	0.000084	0.000049
Minor	05 Coronary Bypass W/O Cardiac Cath Or Percutaneous Cardiac Procedure	-0.12286	-0.10352	0.07%	0.03%	0.03%	0.02%	0.000057	0.000007

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Mod	05 Coronary Bypass W/O Cardiac Cath Or Percutaneous Cardiac Procedure	-0.07994	-0.07708	0.004013	0.002159	0.002159	0.001923	0.000148	0.000018
Major	05 Coronary Bypass W/O Cardiac Cath Or Percutaneous Cardiac Procedure	-0.01555	-0.04108	0.001876	0.001493	0.001493	0.001356	0.000006	0.000006
Any	05 Other Cardiothoracic Procedures	-0.13653	-0.08319	0.000313	0.000308	0.000308	0.000338	0.000001	-0.000003
Major	05 Other Cardiothoracic Procedures	-0.01263	0.00334	0.000163	0.000149	0.000149	0.000152	0.000000	0.000000
Any	05 Major Thoracic & Abdominal Vascular Procedures	0.03085	0.0122	0.003411	0.001813	0.001813	0.001592	-0.000049	-0.000003
Minor	05 Major Thoracic & Abdominal Vascular Procedures	0.01834	-0.22394	0.000242	0.000109	0.000109	0.000085	-0.000002	0.000005
Mod	05 Major Thoracic & Abdominal Vascular Procedures	-0.08289	-0.09934	0.001445	0.000670	0.000670	0.000630	0.000064	0.000004
Major	05 Major Thoracic & Abdominal Vascular Procedures	-0.02152	-0.11397	0.001222	0.000651	0.000651	0.000544	0.000012	0.000012
Any	05 Permanent Cardiac Pacemaker Implant W Ami, Heart Failure Or Shock	-0.13838	0.03034	0.001133	0.000841	0.000841	0.000641	0.000040	-0.000006
Minor	05 Permanent Cardiac Pacemaker Implant W Ami, Heart Failure Or Shock	0.04907	-0.17444	0.000134	0.000045	0.000045	0.000032	-0.000004	0.000002
Mod	05 Permanent Cardiac Pacemaker Implant W Ami, Heart Failure Or Shock	0.11044	-0.07522	0.000571	0.000419	0.000419	0.000289	-0.000017	0.000010
Major	05 Permanent Cardiac Pacemaker Implant W Ami, Heart Failure Or Shock	0.1489	-0.09156	0.000386	0.000315	0.000315	0.000260	-0.000011	0.000005
Any	05 Perm Cardiac Pacemaker Implant W/O Ami, Heart Failure Or Shock	0.18454	-0.02765	0.007239	0.007863	0.007863	0.008120	0.000115	-0.000007
Minor	05 Perm Cardiac Pacemaker Implant W/O Ami, Heart Failure Or Shock	-0.19878	-0.05436	0.001914	0.001829	0.001829	0.001882	0.000017	-0.000003
Mod	05 Perm Cardiac Pacemaker Implant W/O Ami, Heart Failure Or Shock	-0.17207	-0.001	0.003921	0.004195	0.004195	0.004174	-0.000047	0.000000

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Major	05 Perm Cardiac Pacemaker Implant W/O Ami, Heart Failure Or Shock	-0.20099	0.03102	0.001260	0.001630	0.001630	0.001791	-0.000074	0.000005
Any	05 Other Vascular Procedures Drg Med - Surg Mdc Long Descriptions	0.17388	-0.01169	0.011488	0.010260	0.010260	0.009976	-0.000214	0.000003
Minor	05 Other Vascular Procedures Drg Med - Surg Mdc Long Descriptions	-0.13183	-0.0778	0.002221	0.001915	0.001915	0.001803	0.000040	0.000009
Mod	05 Other Vascular Procedures Drg Med - Surg Mdc Long Descriptions	-0.09287	-0.0232	0.004451	0.003907	0.003907	0.003571	0.000050	0.000008
Major	05 Other Vascular Procedures Drg Med - Surg Mdc Long Descriptions	-0.08703	-0.03517	0.004013	0.003452	0.003452	0.003482	0.000049	-0.000001
Any	05 Percutaneous Cardiovascular Procedures W Ami	-0.05866	-0.06028	0.002875	0.004179	0.004179	0.003966	-0.000076	0.000013
Minor	05 Percutaneous Cardiovascular Procedures W Ami	0.00838	-0.01468	0.000268	0.000423	0.000423	0.000389	0.000001	0.000000
Mod	05 Percutaneous Cardiovascular Procedures W Ami	0.00818	-0.01282	0.001397	0.001894	0.001894	0.001748	0.000004	0.000002
Major	05 Percutaneous Cardiovascular Procedures W Ami	0.0112	0.02068	0.000715	0.001221	0.001221	0.001168	0.000006	-0.000001
Any	05 Percutaneous Cardiovascular Procedures W/O Ami	0.05225	0.0277	0.005149	0.007996	0.007996	0.007743	0.000149	-0.000007
Minor	05 Percutaneous Cardiovascular Procedures W/O Ami	-0.06542	-0.09656	0.001158	0.002208	0.002208	0.002152	-0.000069	0.000005
Mod	05 Percutaneous Cardiovascular Procedures W/O Ami	-0.0712	-0.09253	0.002450	0.003439	0.003439	0.003185	-0.000070	0.000024
Major	05 Percutaneous Cardiovascular Procedures W/O Ami	-0.12773	-0.05881	0.001209	0.001924	0.001924	0.001947	-0.000091	-0.000001
Any	05 Cardiac Pacemaker & Defibrillator Device Replacement	0.05205	0.04228	0.000555	0.000769	0.000769	0.000814	0.000011	0.000002
Minor	05 Cardiac Pacemaker & Defibrillator Device Replacement	-0.03142	-0.03369	0.000399	0.000457	0.000457	0.000465	-0.000002	0.000000
Major	05 Cardiac Pacemaker & Defibrillator Device Replacement	-0.06681	-0.05453	0.000118	0.000223	0.000223	0.000244	-0.000007	-0.000001
Any	05 Percutaneous Cardiovascular Procedures W Ami	-0.10606	-0.09869	0.000290	0.000598	0.000598	0.000675	-0.000033	-0.000008

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Minor	05 Percutaneous Cardiovascular Procedures W Ami	0.01836	0.07075	0.000124	0.000186	0.000186	0.000252	0.000001	0.000005
Mod	05 Percutaneous Cardiovascular Procedures W Ami	-0.0966	-0.0305	0.000121	0.000229	0.000229	0.000222	-0.000010	0.000000
Any	05 Other Circulatory System Procedures	0.03398	0.04813	0.001927	0.001265	0.001265	0.001169	-0.000023	-0.000005
Minor	05 Other Circulatory System Procedures	-0.03879	-0.18022	0.000386	0.000095	0.000095	0.000103	0.000011	-0.000001
Mod	05 Other Circulatory System Procedures	-0.01486	-0.08929	0.000561	0.000377	0.000377	0.000344	0.000003	0.000003
Major	05 Other Circulatory System Procedures	-0.02025	-0.05817	0.000817	0.000578	0.000578	0.000521	0.000005	0.000003
Any	05 Acute Myocardial Infarction	-0.04724	0.01983	0.013345	0.009329	0.009329	0.009151	0.000190	-0.000004
Minor	05 Acute Myocardial Infarction	-0.02241	-0.01404	0.001314	0.000705	0.000705	0.000637	0.000014	0.000001
Mod	05 Acute Myocardial Infarction	-0.02352	0.01095	0.005794	0.003378	0.003378	0.003192	0.000057	-0.000002
Major	05 Acute Myocardial Infarction	-0.01039	0.02498	0.004878	0.003859	0.003859	0.003831	0.000011	-0.000001
Any	05 Cardiac Catheterization W Circ Disord Exc Ischemic Heart Disease	-0.14573	-0.05735	0.003385	0.003450	0.003450	0.003514	-0.000010	-0.000004
Minor	05 Cardiac Catheterization W Circ Disord Exc Ischemic Heart Disease	0.09156	0.0706	0.000242	0.000253	0.000253	0.000324	0.000001	0.000005
Mod	05 Cardiac Catheterization W Circ Disord Exc Ischemic Heart Disease	0.07185	0.03167	0.000638	0.000707	0.000707	0.000708	0.000005	0.000000
Major	05 Cardiac Catheterization W Circ Disord Exc Ischemic Heart Disease	0.01882	-0.0201	0.002300	0.002092	0.002092	0.002013	-0.000004	0.000002
Any	05 Cardiac Catheterization For Ischemic Heart Disease	-0.06392	0.02368	0.003755	0.004554	0.004554	0.004568	-0.000051	0.000000
Minor	05 Cardiac Catheterization For Ischemic Heart Disease	0.01755	-0.02829	0.000951	0.001158	0.001158	0.001238	0.000004	-0.000002
Mod	05 Cardiac Catheterization For Ischemic Heart Disease	0.0356	-0.00209	0.001962	0.002285	0.002285	0.002201	0.000012	0.000000
Major	05 Cardiac Catheterization For Ischemic Heart Disease	-0.00279	-0.01707	0.000772	0.001018	0.001018	0.001034	-0.000001	0.000000
Any	05 Acute & Subacute Endocarditis	-0.02502	0.01749	0.000412	0.000305	0.000305	0.000288	0.000003	0.000000

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Mod	05 Acute & Subacute Endocarditis	-0.08975	-0.07522	0.000144	0.000075	0.000075	0.000068	0.000006	0.000001
Major	05 Acute & Subacute Endocarditis	0.01372	-0.08047	0.000191	0.000135	0.000135	0.000143	-0.000001	-0.000001
Any	05 Heart Failure	-0.05508	0.00951	0.060932	0.049014	0.049014	0.045716	0.000656	-0.000031
Minor	05 Heart Failure	-0.02686	-0.0634	0.008470	0.004699	0.004699	0.003638	0.000101	0.000067
Mod	05 Heart Failure	-0.00863	-0.02146	0.037780	0.027416	0.027416	0.024293	0.000089	0.000067
Major	05 Heart Failure	0.01093	-0.02566	0.013234	0.015005	0.015005	0.015618	0.000019	-0.000016
Any	05 Cardiac Arrest	-0.02919	0.10904	0.000093	0.000083	0.000083	0.000083	0.000000	0.000000
Any	05 Peripheral & Other Vascular Disorders	0.0785	0.03289	0.013849	0.011744	0.011744	0.011706	-0.000165	-0.000001
Minor	05 Peripheral & Other Vascular Disorders	-0.11006	-0.07818	0.003050	0.002433	0.002433	0.002315	0.000068	0.000009
Mod	05 Peripheral & Other Vascular Disorders	-0.05834	-0.01699	0.007437	0.005784	0.005784	0.005458	0.000096	0.000006
Major	05 Peripheral & Other Vascular Disorders	-0.04389	-0.01763	0.003200	0.003187	0.003187	0.003591	0.000001	-0.000007
Any	05 Angina Pectoris & Coronary Atherosclerosis	-0.01396	0.08566	0.012576	0.009733	0.009733	0.009025	0.000040	-0.000061
Minor	05 Angina Pectoris & Coronary Atherosclerosis	-0.01233	-0.10347	0.003181	0.002382	0.002382	0.002120	0.000010	0.000027
Mod	05 Angina Pectoris & Coronary Atherosclerosis	-0.01551	-0.07584	0.007188	0.005297	0.005297	0.004905	0.000029	0.000030
Major	05 Angina Pectoris & Coronary Atherosclerosis	-0.02624	-0.08006	0.002138	0.001916	0.001916	0.001896	0.000006	0.000002
Any	05 Hypertension	-0.24351	-0.25557	0.002431	0.003473	0.003473	0.003294	-0.000254	0.000046
Minor	05 Hypertension	0.16794	0.22842	0.000833	0.000997	0.000997	0.000929	0.000028	-0.000015
Mod	05 Hypertension	0.22529	0.23572	0.001273	0.001945	0.001945	0.001758	0.000151	-0.000044
Major	05 Hypertension	0.13723	0.29125	0.000316	0.000503	0.000503	0.000571	0.000026	0.000020
Any	05 Cardiac Structural & Valvular Disorders	0.04773	-0.02564	0.000485	0.000474	0.000474	0.000525	-0.000001	-0.000001
Mod	05 Cardiac Structural & Valvular Disorders	-0.06702	0.02208	0.000274	0.000245	0.000245	0.000253	0.000002	0.000000

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Major	05 Cardiac Structural & Valvular Disorders	-0.00761	-0.00003368	0.000131	0.000169	0.000169	0.000197	0.000000	0.000000
Any	05 Cardiac Arrhythmia & Conduction Disorders	-0.00984	-0.02482	0.015250	0.015946	0.015946	0.016833	-0.000007	-0.000022
Minor	05 Cardiac Arrhythmia & Conduction Disorders	-0.02638	-0.00492	0.002600	0.002369	0.002369	0.002371	0.000006	0.000000
Mod	05 Cardiac Arrhythmia & Conduction Disorders	-0.01703	0.00701	0.008582	0.008087	0.008087	0.008125	0.000008	0.000000
Major	05 Cardiac Arrhythmia & Conduction Disorders	-0.01521	0.01281	0.003768	0.004934	0.004934	0.005668	-0.000018	0.000009
Any	05 Chest Pain	-0.049	-0.116	0.004623	0.006653	0.006653	0.006281	-0.000099	0.000043
Minor	05 Chest Pain	0.07393	0.14561	0.001691	0.001937	0.001937	0.001885	0.000018	-0.000007
Mod	05 Chest Pain	0.07075	0.17112	0.002370	0.003596	0.003596	0.003387	0.000087	-0.000036
Major	05 Chest Pain	0.10473	0.16565	0.000546	0.001041	0.001041	0.000949	0.000052	-0.000015
Any	05 Syncope & Collapse	-0.06111	0.01048	0.009992	0.013022	0.013022	0.013603	-0.000185	0.000006
Minor	05 Syncope & Collapse	0.07699	0.04914	0.002045	0.002050	0.002050	0.002158	0.000000	0.000005
Mod	05 Syncope & Collapse	0.11569	0.07915	0.006336	0.007953	0.007953	0.008242	0.000187	0.000023
Major	05 Syncope & Collapse	0.11948	0.06111	0.001582	0.002908	0.002908	0.003037	0.000158	0.000008
Any	05 Cardiomyopathy	-0.15218	-0.1784	0.000399	0.000159	0.000159	0.000154	0.000036	0.000001
Mod	05 Cardiomyopathy	0.04063	0.10984	0.000207	0.000084	0.000084	0.000050	-0.000005	-0.000004
Major	05 Cardiomyopathy	0.05236	0.07645	0.000137	0.000055	0.000055	0.000080	-0.000004	0.000002
Any	05 Malfunction,Reaction,Complication Of Cardiac/Vasc Device Or Procedure	-0.08752	-0.03569	0.001461	0.002083	0.002083	0.002160	-0.000054	-0.000003
Mod	05 Malfunction,Reaction,Complication Of Cardiac/Vasc Device Or Procedure	-0.01012	-0.02484	0.000651	0.000580	0.000580	0.000533	0.000001	0.000001

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Major	05 Malfunction,Reaction,Complication Of Cardiac/Vasc Device Or Procedure	0.07412	0.01591	0.000555	0.000909	0.000909	0.000927	0.000026	0.000000
Extreme	05 Malfunction,Reaction,Complication Of Cardiac/Vasc Device Or Procedure	0.05034	0.10178	0.000188	0.000535	0.000535	0.000654	0.000017	0.000012
Any	05 Other Circulatory System Diagnoses	-0.10684	-0.01194	0.002638	0.003653	0.003653	0.003969	-0.000108	-0.000004
Minor	05 Other Circulatory System Diagnoses	0.11816	0.13046	0.001094	0.001258	0.001258	0.001390	0.000019	0.000017
Mod	05 Other Circulatory System Diagnoses	0.09652	0.06562	0.000967	0.001406	0.001406	0.001520	0.000042	0.000007
Major	05 Other Circulatory System Diagnoses	0.04267	-0.05312	0.000504	0.000723	0.000723	0.000739	0.000009	-0.000001
Any	06 Major Stomach, Esophageal & Duodenal Procedures	0.04306	-0.03016	0.002533	0.002007	0.002007	0.002038	-0.000023	-0.000001
Minor	06 Major Stomach, Esophageal & Duodenal Procedures	-0.05649	-0.08112	0.000341	0.000336	0.000336	0.000306	0.000000	0.000002
Mod	06 Major Stomach, Esophageal & Duodenal Procedures	-0.03838	-0.08532	0.000833	0.000556	0.000556	0.000543	0.000011	0.000001
Major	06 Major Stomach, Esophageal & Duodenal Procedures	-0.06662	-0.11291	0.001024	0.000700	0.000700	0.000682	0.000022	0.000002
Any	06 Major Small & Large Bowel Procedures	0.00099355	-0.04203	0.016258	0.013448	0.013448	0.012477	-0.000003	0.000041
Minor	06 Major Small & Large Bowel Procedures	-0.05773	-0.08278	0.001669	0.001396	0.001396	0.001383	0.000016	0.000001
Mod	06 Major Small & Large Bowel Procedures	-0.04508	-0.08822	0.007402	0.005131	0.005131	0.004548	0.000102	0.000051
Major	06 Major Small & Large Bowel Procedures	-0.02596	-0.05756	0.005701	0.004764	0.004764	0.004333	0.000024	0.000025
Any	06 Other Stomach, Esophageal & Duodenal Procedures	0.06063	-0.09058	0.000195	0.000155	0.000155	0.000167	-0.000002	-0.000001

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Mod	06 Other Stomach, Esophageal & Duodenal Procedures	-0.0383	0.10094	0.000093	0.000061	0.000061	0.000063	0.000001	0.000000
Any	06 Other Small & Large Bowel Procedures	0.21663	-0.05934	0.001576	0.001439	0.001439	0.001451	-0.000030	-0.000001
Minor	06 Other Small & Large Bowel Procedures	-0.22343	-0.09434	0.000472	0.000347	0.000347	0.000325	0.000028	0.000002
Mod	06 Other Small & Large Bowel Procedures	-0.22418	-0.05994	0.000609	0.000533	0.000533	0.000497	0.000017	0.000002
Major	06 Other Small & Large Bowel Procedures	-0.26116	-0.02033	0.000415	0.000405	0.000405	0.000418	0.000003	0.000000
Any	06 Peritoneal Adhesiolysis	0.07064	0.01761	0.001078	0.001006	0.001006	0.000957	-0.000005	-0.000001
Minor	06 Peritoneal Adhesiolysis	-0.14474	-0.13275	0.000163	0.000103	0.000103	0.000086	0.000009	0.000002
Mod	06 Peritoneal Adhesiolysis	-0.05491	-0.02247	0.000482	0.000392	0.000392	0.000358	0.000005	0.000001
Major	06 Peritoneal Adhesiolysis	-0.04942	-0.02212	0.000338	0.000338	0.000338	0.000308	0.000000	0.000001
Any	06 Appendectomy	-0.18154	-0.12576	0.000852	0.000784	0.000784	0.000830	0.000012	-0.000006
Mod	06 Appendectomy	0.10027	0.04441	0.000485	0.000376	0.000376	0.000391	-0.000011	0.000001
Major	06 Appendectomy	0.09473	0.07582	0.000262	0.000256	0.000256	0.000251	0.000000	0.000000
Any	06 Anal Procedures	0.05519	0.0338	0.000747	0.000648	0.000648	0.000623	-0.000005	-0.000001
Minor	06 Anal Procedures	-0.09461	-0.16957	0.000345	0.000229	0.000229	0.000210	0.000011	0.000003
Mod	06 Anal Procedures	-0.03848	-0.06678	0.000319	0.000296	0.000296	0.000284	0.000001	0.000001
Any	06 Hernia Procedures Except Inguinal, Femoral & Umbilical	0.08383	0.03802	0.001908	0.002062	0.002062	0.002256	0.000013	0.000007
Minor	06 Hernia Procedures Except Inguinal, Femoral & Umbilical	-0.11543	-0.18466	0.000644	0.000574	0.000574	0.000619	0.000008	-0.000008
Mod	06 Hernia Procedures Except Inguinal, Femoral & Umbilical	-0.12688	-0.11647	0.000951	0.000993	0.000993	0.001040	-0.000005	-0.000005
Major	06 Hernia Procedures Except Inguinal, Femoral & Umbilical	-0.12692	-0.12977	0.000265	0.000397	0.000397	0.000470	-0.000017	-0.000009
Any	06 Inguinal, Femoral & Umbilical Hernia Procedures	0.07441	0.05283	0.001219	0.001201	0.001201	0.001173	-0.000001	-0.000002
Minor	06 Inguinal, Femoral & Umbilical Hernia Procedures	-0.0742	-0.05474	0.000370	0.000276	0.000276	0.000270	0.000007	0.000000

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Mod	06 Inguinal, Femoral & Umbilical Hernia Procedures	-0.06345	-0.08364	0.000600	0.000636	0.000636	0.000630	-0.000002	0.000000
Major	06 Inguinal, Femoral & Umbilical Hernia Procedures	-0.11495	-0.19404	0.000217	0.000240	0.000240	0.000230	-0.000003	0.000002
Any	06 Other Digestive System & Abdominal Procedures	-0.14787	-0.05856	0.000775	0.000652	0.000652	0.000664	0.000018	-0.000001
Mod	06 Other Digestive System & Abdominal Procedures	0.15197	-0.03392	0.000284	0.000256	0.000256	0.000221	-0.000004	0.000001
Major	06 Other Digestive System & Abdominal Procedures	0.12871	0.04082	0.000332	0.000253	0.000253	0.000242	-0.000010	0.000000
Extreme	06 Other Digestive System & Abdominal Procedures	0.11276	0.00472	0.000099	0.000079	0.000079	0.000136	-0.000002	0.000000
Any	06 Digestive Malignancy	-0.03302	-0.08379	0.001458	0.001024	0.001024	0.000877	0.000014	0.000012
Minor	06 Digestive Malignancy	-0.00736	-0.02412	0.000083	0.000040	0.000040	0.000028	0.000000	0.000000
Mod	06 Digestive Malignancy	-0.04158	0.00918	0.000565	0.000372	0.000372	0.000307	0.000008	-0.000001
Major	06 Digestive Malignancy	-0.03737	0.00715	0.000740	0.000531	0.000531	0.000458	0.000008	-0.000001
Any	06 Peptic Ulcer & Gastritis	-0.00749	0.02473	0.008997	0.007860	0.007860	0.006846	0.000009	-0.000025
Minor	06 Peptic Ulcer & Gastritis	0.05229	-0.02532	0.001072	0.000846	0.000846	0.000727	-0.000012	0.000003
Mod	06 Peptic Ulcer & Gastritis	0.02801	0.02151	0.004798	0.003792	0.003792	0.003089	-0.000028	-0.000015
Major	06 Peptic Ulcer & Gastritis	0.07065	0.02067	0.002929	0.002866	0.002866	0.002652	-0.000004	-0.000004
Any	06 Major Esophageal Disorders	0.13683	-0.11277	0.000568	0.000662	0.000662	0.000597	0.000013	0.000007
Mod	06 Major Esophageal Disorders	-0.02379	0.11255	0.000271	0.000264	0.000264	0.000259	0.000000	-0.000001
Major	06 Major Esophageal Disorders	-0.07716	0.21107	0.000246	0.000315	0.000315	0.000262	-0.000005	-0.000011
Any	06 Other Esophageal Disorders	0.02921	-0.004	0.002811	0.002750	0.002750	0.002643	-0.000002	0.000000
Minor	06 Other Esophageal Disorders	-0.02482	0.00705	0.000418	0.000364	0.000364	0.000298	0.000001	0.000000
Mod	06 Other Esophageal Disorders	-0.00791	0.07825	0.001633	0.001539	0.001539	0.001435	0.000001	-0.000008
Major	06 Other Esophageal Disorders	0.04485	0.07501	0.000699	0.000786	0.000786	0.000811	0.000004	0.000002
Any	06 Diverticulitis & Diverticulosis	0.01658	0.03303	0.006074	0.006672	0.006672	0.006171	0.000010	-0.000017
Minor	06 Diverticulitis & Diverticulosis	0.01719	0.0487	0.000747	0.000948	0.000948	0.000839	0.000003	-0.000005
Mod	06 Diverticulitis & Diverticulosis	-0.00773	0.02398	0.003870	0.003699	0.003699	0.003370	0.000001	-0.000008

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Major	06 Diverticulitis & Diverticulosis	0.00068285	0.02573	0.001378	0.001894	0.001894	0.001787	0.000000	-0.000003
Any	06 Inflammatory Bowel Disease	-0.02266	-0.01474	0.000632	0.000563	0.000563	0.000586	0.000002	0.000000
Mod	06 Inflammatory Bowel Disease	0.03538	0.09028	0.000338	0.000244	0.000244	0.000242	-0.000003	0.000000
Major	06 Inflammatory Bowel Disease	0.01053	0.06507	0.000211	0.000229	0.000229	0.000240	0.000000	0.000001
Any	06 Gastrointestinal Vascular Insufficiency	0.0203	0.09431	0.000887	0.001190	0.001190	0.001389	0.000006	0.000019
Minor	06 Gastrointestinal Vascular Insufficiency	-0.09681	0.05677	0.000080	0.000102	0.000102	0.000140	-0.000002	0.000002
Mod	06 Gastrointestinal Vascular Insufficiency	-0.03003	-0.02889	0.000498	0.000596	0.000596	0.000666	-0.000003	-0.000002
Major	06 Gastrointestinal Vascular Insufficiency	0.09183	0.06854	0.000255	0.000434	0.000434	0.000494	0.000016	0.000004
Any	06 Intestinal Obstruction	0.06595	0.12666	0.007105	0.006220	0.006220	0.006427	-0.000058	0.000026
Minor	06 Intestinal Obstruction	-0.02548	-0.09298	0.000622	0.000663	0.000663	0.000632	-0.000001	0.000003
Mod	06 Intestinal Obstruction	0.00574	-0.06189	0.004262	0.003310	0.003310	0.003354	-0.000005	-0.000003
Major	06 Intestinal Obstruction	0.02802	-0.05645	0.002032	0.001997	0.001997	0.002164	-0.000001	-0.000009
Any	06 Major Gastrointestinal & Peritoneal Infections	0.06627	0.09752	0.002246	0.004324	0.004324	0.004736	0.000138	0.000040
Minor	06 Major Gastrointestinal & Peritoneal Infections	-0.09516	0.01566	0.000121	0.000120	0.000120	0.000156	0.000000	0.000001
Mod	06 Major Gastrointestinal & Peritoneal Infections	-0.01698	-0.02835	0.000999	0.001724	0.001724	0.001632	-0.000012	0.000003
Major	06 Major Gastrointestinal & Peritoneal Infections	-0.00869	-0.00081193	0.001066	0.002073	0.002073	0.002438	-0.000009	0.000000
Any	06 Non-Bacterial Gastroenteritis, Nausea & Vomiting	0.10293	-0.03172	0.007347	0.009905	0.009905	0.009019	0.000263	0.000028
Minor	06 Non-Bacterial Gastroenteritis, Nausea & Vomiting	-0.03836	0.12072	0.000495	0.000692	0.000692	0.000693	-0.000008	0.000000
Mod	06 Non-Bacterial Gastroenteritis, Nausea & Vomiting	-0.06835	0.11482	0.004910	0.006090	0.006090	0.005342	-0.000081	-0.000086
Major	06 Non-Bacterial Gastroenteritis, Nausea & Vomiting	-0.0217	0.07638	0.001870	0.002960	0.002960	0.002792	-0.000024	-0.000013

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Any	06 Abdominal Pain	0.15094	-0.04846	0.002122	0.002577	0.002577	0.002268	0.000069	0.000015
Minor	06 Abdominal Pain	-0.08509	0.09649	0.000370	0.000409	0.000409	0.000376	-0.000003	-0.000003
Mod	06 Abdominal Pain	-0.13037	0.08563	0.001356	0.001499	0.001499	0.001246	-0.000019	-0.000022
Major	06 Abdominal Pain	-0.17154	0.11838	0.000376	0.000623	0.000623	0.000595	-0.000042	-0.000003
Any	06 Malfunction, Reaction & Complication Of Gi Device Or Procedure	0.04451	0.00964	0.001378	0.001374	0.001374	0.001218	0.000000	-0.000002
Minor	06 Malfunction, Reaction & Complication Of Gi Device Or Procedure	0.00010214	0.16661	0.000121	0.000085	0.000085	0.000074	0.000000	-0.000002
Mod	06 Malfunction, Reaction & Complication Of Gi Device Or Procedure	0.14598	0.07603	0.000692	0.000624	0.000624	0.000531	-0.000010	-0.000007
Major	06 Malfunction, Reaction & Complication Of Gi Device Or Procedure	0.11109	0.00399	0.000510	0.000569	0.000569	0.000500	0.000007	0.000000
Any	06 Other & Unspecified Gastrointestinal Hemorrhage	-0.07484	0.06689	0.006342	0.006540	0.006540	0.006705	-0.000015	0.000011
Minor	06 Other & Unspecified Gastrointestinal Hemorrhage	0.06936	-0.03296	0.000683	0.000599	0.000599	0.000645	-0.000006	-0.000002
Mod	06 Other & Unspecified Gastrointestinal Hemorrhage	0.1206	-0.00944	0.003474	0.003096	0.003096	0.003064	-0.000046	0.000000
Major	06 Other & Unspecified Gastrointestinal Hemorrhage	0.11956	-0.0133	0.002051	0.002466	0.002466	0.002598	0.000050	-0.000002
Any	06 Other Digestive System Diagnoses	0.03811	0.03223	0.006703	0.007475	0.007475	0.007491	0.000029	0.000001
Minor	06 Other Digestive System Diagnoses	0.02866	0.04259	0.002061	0.002111	0.002111	0.002150	0.000001	0.000002
Mod	06 Other Digestive System Diagnoses	0.00595	0.03783	0.002859	0.002893	0.002893	0.002840	0.000000	-0.000002
Major	06 Other Digestive System Diagnoses	0.00915	0.01466	0.001637	0.002212	0.002212	0.002166	0.000005	-0.000001
Any	07 Major Pancreas, Liver & Shunt Procedures	-0.10134	-0.14183	0.000833	0.000861	0.000861	0.000813	-0.000003	0.000007

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Mod	07 Major Pancreas, Liver & Shunt Procedures	-0.05253	0.02728	0.000220	0.000226	0.000226	0.000211	0.000000	0.000000
Major	07 Major Pancreas, Liver & Shunt Procedures	0.0258	0.03656	0.000456	0.000444	0.000444	0.000417	0.000000	-0.000001
Extreme	07 Major Pancreas, Liver & Shunt Procedures	0.0109	0.0229	0.000124	0.000147	0.000147	0.000148	0.000000	0.000000
Any	07 Major Biliary Tract Procedures	0.11299	0.0608	0.000651	0.000313	0.000313	0.000314	-0.000038	0.000000
Mod	07 Major Biliary Tract Procedures	-0.19016	-0.22748	0.000300	0.000121	0.000121	0.000125	0.000034	-0.000001
Major	07 Major Biliary Tract Procedures	-0.21398	-0.14907	0.000230	0.000134	0.000134	0.000140	0.000020	-0.000001
Any	07 Cholecystectomy Except Laparoscopic	-0.03449	0.00666	0.002335	0.001611	0.001611	0.001534	0.000025	-0.000001
Minor	07 Cholecystectomy Except Laparoscopic	0.02876	-0.14356	0.000252	0.000157	0.000157	0.000167	-0.000003	-0.000001
Mod	07 Cholecystectomy Except Laparoscopic	0.05303	-0.05718	0.001133	0.000610	0.000610	0.000557	-0.000028	0.000003
Major	07 Cholecystectomy Except Laparoscopic	0.06707	-0.07877	0.000740	0.000630	0.000630	0.000576	-0.000007	0.000004
Any	07 Laparoscopic Cholecystectomy	0.0818	-0.04657	0.003876	0.004876	0.004876	0.004934	0.000082	-0.000003
Minor	07 Laparoscopic Cholecystectomy	-0.02245	-0.00604	0.000584	0.000644	0.000644	0.000617	-0.000001	0.000000
Mod	07 Laparoscopic Cholecystectomy	0.01586	0.06599	0.001739	0.002117	0.002117	0.002154	0.000006	0.000002
Major	07 Laparoscopic Cholecystectomy	-0.07994	0.04225	0.001337	0.001812	0.001812	0.001817	-0.000038	0.000000
Any	07 Other Hepatobiliary, Pancreas & Abdominal Procedures	-0.18022	-0.04368	0.000367	0.000267	0.000267	0.000221	0.000018	0.000002
Mod	07 Other Hepatobiliary, Pancreas & Abdominal Procedures	0.08562	-0.09142	0.000080	0.000059	0.000059	0.000052	-0.000002	0.000001
Major	07 Other Hepatobiliary, Pancreas & Abdominal Procedures	0.09663	0.01604	0.000185	0.000121	0.000121	0.000103	-0.000006	0.000000
Any	07 Hepatic Coma & Other Major Acute Liver Disorders	0.01574	0.11567	0.000731	0.000988	0.000988	0.001003	0.000004	0.000002
Mod	07 Hepatic Coma & Other Major Acute Liver Disorders	-0.05263	-0.14068	0.000341	0.000375	0.000375	0.000410	-0.000002	-0.000005
Major	07 Hepatic Coma & Other Major Acute Liver Disorders	-0.12555	-0.13083	0.000335	0.000478	0.000478	0.000485	-0.000018	-0.000001

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Any	07 Alcoholic Liver Disease	0.07183	-0.12424	0.000558	0.000412	0.000412	0.000358	-0.000010	0.000007
Mod	07 Alcoholic Liver Disease	-0.23564	0.2297	0.000160	0.000110	0.000110	0.000070	0.000012	-0.000009
Major	07 Alcoholic Liver Disease	-0.15066	0.09965	0.000351	0.000244	0.000244	0.000237	0.000016	-0.000001
Any	07 Malignancy Of Hepatobiliary System & Pancreas	-0.1041	-0.22743	0.001110	0.000710	0.000710	0.000643	0.000042	0.000015
Mod	07 Malignancy Of Hepatobiliary System & Pancreas	-0.03612	0.16239	0.000520	0.000256	0.000256	0.000236	0.000010	-0.000003
Major	07 Malignancy Of Hepatobiliary System & Pancreas	-0.00253	0.14	0.000466	0.000361	0.000361	0.000339	0.000000	-0.000003
Any	07 Disorders Of Pancreas Except Malignancy	-0.00683	-0.09187	0.002319	0.002821	0.002821	0.002774	-0.000003	0.000004
Minor	07 Disorders Of Pancreas Except Malignancy	-0.04211	0.01244	0.000271	0.000298	0.000298	0.000283	-0.000001	0.000000
Mod	07 Disorders Of Pancreas Except Malignancy	-0.0251	0.12151	0.001314	0.001349	0.001349	0.001289	-0.000001	-0.000007
Major	07 Disorders Of Pancreas Except Malignancy	0.02589	0.10079	0.000648	0.000971	0.000971	0.000983	0.000008	0.000001
Any	07 Other Disorders Of The Liver	-0.03645	0.04264	0.001066	0.001092	0.001092	0.001027	-0.000001	-0.000003
Mod	07 Other Disorders Of The Liver	0.09027	0.00971	0.000303	0.000370	0.000370	0.000332	0.000006	0.000000
Major	07 Other Disorders Of The Liver	-0.0452	-0.07795	0.000600	0.000578	0.000578	0.000527	0.000001	0.000004
Extreme	07 Other Disorders Of The Liver	0.0673	-0.02595	0.000105	0.000113	0.000113	0.000117	0.000001	0.000000
Any	07 Disorders Of Gallbladder & Biliary Tract	-0.0599	-0.02857	0.002138	0.002503	0.002503	0.002623	-0.000022	-0.000003
Minor	07 Disorders Of Gallbladder & Biliary Tract	0.09303	0.07321	0.000163	0.000232	0.000232	0.000203	0.000006	-0.000002
Mod	07 Disorders Of Gallbladder & Biliary Tract	0.06167	0.07322	0.001088	0.001209	0.001209	0.001220	0.000007	0.000001
Major	07 Disorders Of Gallbladder & Biliary Tract	0.05988	0.06463	0.000778	0.000895	0.000895	0.001048	0.000007	0.000010
Any	08 Hip Joint Replacement	0.15321	0.16291	0.031431	0.030015	0.030015	0.029154	-0.000217	-0.000140
Minor	08 Hip Joint Replacement	0.11393	-0.0313	0.003478	0.002121	0.002121	0.001791	-0.000155	0.000010
Mod	08 Hip Joint Replacement	0.05304	-0.04484	0.016165	0.013085	0.013085	0.012401	-0.000163	0.000031

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	08 Hip Joint Replacement	0.04714	-0.04367	0.011578	0.014349	0.014349	0.014344	0.000131	0.000000
Any	08 Knee Joint Replacement	0.21463	0.11908	0.027612	0.038163	0.038163	0.038030	0.002265	-0.000016
Minor	08 Knee Joint Replacement	0.02531	0.02458	0.013923	0.016032	0.016032	0.014848	0.000053	-0.000029
Mod	08 Knee Joint Replacement	0.01546	0.03545	0.012232	0.019344	0.019344	0.020135	0.000110	0.000028
Major	08 Knee Joint Replacement	-0.00075663	0.03476	0.001381	0.002585	0.002585	0.002848	-0.000001	0.000009
Any	08 Dorsal & Lumbar Fusion Proc For Curvature Of Back	0.19356	0.1842	0.000083	0.000323	0.000323	0.000280	0.000046	-0.000008
Any	08 Dorsal & Lumbar Fusion Proc Except For Curvature Of Back	0.17272	0.06049	0.002814	0.005105	0.005105	0.005340	0.000396	0.000014
Minor	08 Dorsal & Lumbar Fusion Proc Except For Curvature Of Back	-0.01348	-0.02088	0.000957	0.001354	0.001354	0.001458	-0.000005	-0.000002
Mod	08 Dorsal & Lumbar Fusion Proc Except For Curvature Of Back	0.00753	0.0136	0.001353	0.002629	0.002629	0.002682	0.000010	0.000001
Major	08 Dorsal & Lumbar Fusion Proc Except For Curvature Of Back	-0.01919	0.07425	0.000475	0.000995	0.000995	0.001068	-0.000010	0.000005
Any	08 Amputation Of Lower Limb Except Toes	0.24443	0.13598	0.007376	0.004241	0.004241	0.003703	-0.000766	-0.000073
Minor	08 Amputation Of Lower Limb Except Toes	-0.01916	-0.01087	0.000648	0.000290	0.000290	0.000205	0.000007	0.000001
Mod	08 Amputation Of Lower Limb Except Toes	0.00998	0.0163	0.003522	0.001533	0.001533	0.001228	-0.000020	-0.000005
Major	08 Amputation Of Lower Limb Except Toes	-0.00557	0.02588	0.002817	0.001898	0.001898	0.001685	0.000005	-0.000006
Any	08 Hip & Femur Procedures For Trauma Except Joint Replacement	0.23189	0.27007	0.024135	0.019863	0.019863	0.019441	-0.000991	-0.000114
Minor	08 Hip & Femur Procedures For Trauma Except Joint Replacement	0.07959	-0.10083	0.005599	0.003012	0.003012	0.002767	-0.000206	0.000025
Mod	08 Hip & Femur Procedures For Trauma Except Joint Replacement	0.06575	-0.08916	0.013562	0.010984	0.010984	0.010636	-0.000170	0.000031
Major	08 Hip & Femur Procedures For Trauma Except Joint Replacement	0.05825	-0.07232	0.004632	0.005301	0.005301	0.005396	0.000039	-0.000007
Any	08 Hip & Femur Procedures For Non-Trauma Except Joint Replacement	0.44508	0.12425	0.001771	0.001948	0.001948	0.001905	0.000079	-0.000005

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Minor	08 Hip & Femur Procedures For Non-Trauma Except Joint Replacement	-0.24277	0.08647	0.000281	0.000325	0.000325	0.000292	-0.000011	-0.000003
Mod	08 Hip & Femur Procedures For Non-Trauma Except Joint Replacement	-0.22936	0.0026	0.001059	0.001032	0.001032	0.001069	0.000006	0.000000
Major	08 Hip & Femur Procedures For Non-Trauma Except Joint Replacement	-0.18734	-0.06624	0.000415	0.000514	0.000514	0.000500	-0.000019	0.000001
Any	08 Intervertebral Disc Excision & Decompression	0.38265	0.13465	0.004680	0.007785	0.007785	0.007710	0.001188	-0.000010
Minor	08 Intervertebral Disc Excision & Decompression	-0.24059	-0.13986	0.001819	0.001332	0.001332	0.001310	0.000117	0.000003
Mod	08 Intervertebral Disc Excision & Decompression	-0.17169	-0.06834	0.002367	0.003053	0.003053	0.002986	-0.000118	0.000005
Major	08 Intervertebral Disc Excision & Decompression	-0.20536	-0.01744	0.000475	0.003284	0.003284	0.003302	-0.000577	0.000000
Any	08 Skin Graft, Except Hand, For Musculoskeletal & Connective Tissue Diagnoses	0.19985	-0.16058	0.000424	0.000327	0.000327	0.000313	-0.000019	0.000002
Mod	08 Skin Graft, Except Hand, For Musculoskeletal & Connective Tissue Diagnoses	-0.19157	0.12526	0.000169	0.000133	0.000133	0.000142	0.000007	0.000001
Major	08 Skin Graft, Except Hand, For Musculoskeletal & Connective Tissue Diagnoses	0.01348	0.11422	0.000166	0.000135	0.000135	0.000107	0.000000	-0.000003
Any	08 Knee & Lower Leg Procedures Except Foot	0.31507	0.15488	0.006078	0.006461	0.006461	0.006409	0.000121	-0.000008
Minor	08 Knee & Lower Leg Procedures Except Foot	-0.0498	-0.0226	0.002358	0.001897	0.001897	0.001939	0.000023	-0.000001
Mod	08 Knee & Lower Leg Procedures Except Foot	-0.0896	0.01838	0.002942	0.003410	0.003410	0.003247	-0.000042	-0.000003
Major	08 Knee & Lower Leg Procedures Except Foot	-0.12229	-0.01239	0.000667	0.001015	0.001015	0.001057	-0.000043	-0.000001
Any	08 Foot & Toe Procedures	0.07147	-0.13353	0.003860	0.003475	0.003475	0.003242	-0.000028	0.000031
Minor	08 Foot & Toe Procedures	0.15238	0.08601	0.000396	0.000207	0.000207	0.000222	-0.000029	0.000001
Mod	08 Foot & Toe Procedures	-0.01654	0.11304	0.001767	0.001388	0.001388	0.001207	0.000006	-0.000020

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Major	08 Foot & Toe Procedures	-0.05818	0.03682	0.001560	0.001621	0.001621	0.001524	-0.000004	-0.000004
Any	08 Shoulder, Upper Arm & Forearm Procedures	0.45981	0.26365	0.005440	0.006557	0.006557	0.006458	0.000514	-0.000026
Minor	08 Shoulder, Upper Arm & Forearm Procedures	-0.18825	-0.02116	0.001551	0.001105	0.001105	0.001049	0.000084	0.000001
Mod	08 Shoulder, Upper Arm & Forearm Procedures	-0.11975	0.04978	0.003554	0.004646	0.004646	0.004472	-0.000131	-0.000009
Major	08 Shoulder, Upper Arm & Forearm Procedures	-0.15573	-0.00937	0.000316	0.000758	0.000758	0.000854	-0.000069	-0.000001
Any	08 Hand & Wrist Procedures	0.18267	-0.01829	0.000434	0.000296	0.000296	0.000283	-0.000025	0.000000
Mod	08 Hand & Wrist Procedures	-0.08046	0.09427	0.000319	0.000130	0.000130	0.000127	0.000015	0.000000
Any	08 Tendon, Muscle & Other Soft Tissue Procedures	-0.01123	0.04951	0.001525	0.001490	0.001490	0.001509	0.000000	0.000001
Minor	08 Tendon, Muscle & Other Soft Tissue Procedures	0.16238	0.05399	0.000549	0.000407	0.000407	0.000385	-0.000023	-0.000001
Mod	08 Tendon, Muscle & Other Soft Tissue Procedures	0.10922	-0.02546	0.000651	0.000611	0.000611	0.000620	-0.000004	0.000000
Major	08 Tendon, Muscle & Other Soft Tissue Procedures	0.09909	-0.13713	0.000287	0.000414	0.000414	0.000419	0.000013	-0.000001
Any	08 Other Musculoskeletal System & Connective Tissue Procedures	0.39482	0.20437	0.001142	0.001310	0.001310	0.001351	0.000066	0.000008
Minor	08 Other Musculoskeletal System & Connective Tissue Procedures	-0.19471	-0.1934	0.000179	0.000156	0.000156	0.000166	0.000004	-0.000002
Mod	08 Other Musculoskeletal System & Connective Tissue Procedures	-0.23752	-0.14681	0.000715	0.000724	0.000724	0.000771	-0.000002	-0.000007
Major	08 Other Musculoskeletal System & Connective Tissue Procedures	-0.19551	-0.18666	0.000214	0.000383	0.000383	0.000344	-0.000033	0.000007
Any	08 Cervical Spinal Fusion & Other Back/Neck Proc Exc Disc Excis/ Decomp	-0.01311	0.39694	0.001777	0.002426	0.002426	0.002497	-0.000009	0.000028
Minor	08 Cervical Spinal Fusion & Other Back/Neck Proc Exc Disc Excis/ Decomp	0.18949	-0.2867	0.000667	0.000813	0.000813	0.000834	0.000028	-0.000006

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Mod	08 Cervical Spinal Fusion & Other Back/Neck Proc Exc Disc Excis/ Decomp	0.1797	-0.24617	0.000865	0.001160	0.001160	0.001210	0.000053	-0.000012
Major	08 Cervical Spinal Fusion & Other Back/Neck Proc Exc Disc Excis/ Decomp	0.23674	-0.17909	0.000233	0.000371	0.000371	0.000356	0.000033	0.000003
Any	08 Fracture Of Femur	0.19997	0.24176	0.002221	0.001571	0.001571	0.001383	-0.000130	-0.000045
Minor	08 Fracture Of Femur	0.12867	-0.07738	0.000558	0.000278	0.000278	0.000240	-0.000036	0.000003
Mod	08 Fracture Of Femur	0.06793	-0.13788	0.001161	0.000890	0.000890	0.000768	-0.000018	0.000017
Major	08 Fracture Of Femur	-0.02382	-0.0015	0.000479	0.000383	0.000383	0.000346	0.000002	0.000000
Any	08 Fracture Of Pelvis Or Dislocation Of Hip	0.24225	0.39101	0.004400	0.004466	0.004466	0.004472	0.000016	0.000002
Minor	08 Fracture Of Pelvis Or Dislocation Of Hip	-0.08598	-0.26924	0.001171	0.000811	0.000811	0.000818	0.000031	-0.000002
Mod	08 Fracture Of Pelvis Or Dislocation Of Hip	-0.07492	-0.25288	0.002348	0.002395	0.002395	0.002352	-0.000004	0.000011
Major	08 Fracture Of Pelvis Or Dislocation Of Hip	-0.03247	-0.21897	0.000845	0.001197	0.001197	0.001225	-0.000011	-0.000006
Any	08 Fractures & Dislocations Except Femur, Pelvis & Back	0.19038	0.45638	0.005902	0.005963	0.005963	0.005668	0.000012	-0.000135
Minor	08 Fractures & Dislocations Except Femur, Pelvis & Back	0.04374	-0.222	0.001774	0.001180	0.001180	0.001066	-0.000026	0.000025
Mod	08 Fractures & Dislocations Except Femur, Pelvis & Back	0.06435	-0.19829	0.003359	0.003613	0.003613	0.003271	0.000016	0.000068
Major	08 Fractures & Dislocations Except Femur, Pelvis & Back	0.06305	-0.22216	0.000731	0.001109	0.001109	0.001234	0.000024	-0.000028
Any	08 Musculoskeletal Malignancy & Pathol Fracture D/T Muscskel Malig	-0.12506	-0.02979	0.001327	0.000751	0.000751	0.000701	0.000072	0.000001
Minor	08 Musculoskeletal Malignancy & Pathol Fracture D/T Muscskel Malig	0.12315	-0.0918	0.000099	0.000042	0.000042	0.000048	-0.000007	-0.000001
Mod	08 Musculoskeletal Malignancy & Pathol Fracture D/T Muscskel Malig	0.17323	0.14069	0.000635	0.000282	0.000282	0.000270	-0.000061	-0.000002
Major	08 Musculoskeletal Malignancy & Pathol Fracture D/T Muscskel Malig	0.12559	0.07602	0.000565	0.000403	0.000403	0.000345	-0.000020	-0.000004

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Any	08 Osteomyelitis, Septic Arthritis & Other Musculoskeletal Infections	0.02178	0.14037	0.002144	0.002141	0.002141	0.002252	0.000000	0.000016
Minor	08 Osteomyelitis, Septic Arthritis & Other Musculoskeletal Infections	-0.03296	-0.20358	0.000099	0.000070	0.000070	0.000083	0.000001	-0.000003
Mod	08 Osteomyelitis, Septic Arthritis & Other Musculoskeletal Infections	0.00205	-0.16806	0.001053	0.000920	0.000920	0.000982	0.000000	-0.000010
Major	08 Osteomyelitis, Septic Arthritis & Other Musculoskeletal Infections	0.12209	-0.13623	0.000912	0.001011	0.001011	0.001012	0.000012	0.000000
Any	08 Connective Tissue Disorders	-0.03587	0.04514	0.001688	0.001219	0.001219	0.001099	0.000017	-0.000005
Minor	08 Connective Tissue Disorders	0.14218	0.13049	0.000507	0.000282	0.000282	0.000268	-0.000032	-0.000002
Mod	08 Connective Tissue Disorders	0.15704	0.02191	0.000695	0.000483	0.000483	0.000395	-0.000033	-0.000002
Major	08 Connective Tissue Disorders	0.07419	-0.00095514	0.000447	0.000375	0.000375	0.000336	-0.000005	0.000000
Any	08 Other Back & Neck Disorders, Fractures & Injuries	0.0041	0.1645	0.014331	0.012654	0.012654	0.011822	-0.000007	-0.000137
Minor	08 Other Back & Neck Disorders, Fractures & Injuries	0.17213	-0.02941	0.004661	0.003880	0.003880	0.003217	-0.000134	0.000019
Mod	08 Other Back & Neck Disorders, Fractures & Injuries	0.13002	-0.01813	0.007539	0.006111	0.006111	0.005900	-0.000186	0.000004
Major	08 Other Back & Neck Disorders, Fractures & Injuries	0.14773	-0.01446	0.002048	0.002499	0.002499	0.002543	0.000067	-0.000001
Any	08 Malfunction, Reaction, Complic Of Orthopedic Device Or Procedure	0.06958	-0.08681	0.001547	0.001472	0.001472	0.001516	-0.000005	-0.000004
Minor	08 Malfunction, Reaction, Complic Of Orthopedic Device Or Procedure	0.12997	0.23302	0.000319	0.000216	0.000216	0.000217	-0.000013	0.000000
Mod	08 Malfunction, Reaction, Complic Of Orthopedic Device Or Procedure	0.03561	0.25164	0.000903	0.000786	0.000786	0.000810	-0.000004	0.000006
Major	08 Malfunction, Reaction, Complic Of Orthopedic Device Or Procedure	0.05968	0.13923	0.000306	0.000404	0.000404	0.000415	0.000006	0.000002
Any	08 Other Musculoskeletal System & Connective Tissue Diagnoses	-0.13294	0.02863	0.006020	0.008061	0.008061	0.007922	-0.000271	-0.000004
Minor	08 Other Musculoskeletal System & Connective Tissue Diagnoses	0.25998	0.07334	0.001474	0.001347	0.001347	0.001186	-0.000033	-0.000012
Mod	08 Other Musculoskeletal System & Connective Tissue Diagnoses	0.23918	0.09426	0.003493	0.004568	0.004568	0.004312	0.000257	-0.000024

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	08 Other Musculoskeletal System & Connective Tissue Diagnoses	0.2231	0.07755	0.001021	0.001993	0.001993	0.002244	0.000217	0.000019
Any	09 Skin Graft For Skin & Subcutaneous Tissue Diagnoses	0.44743	-0.0251	0.003181	0.001659	0.001659	0.001610	-0.000681	0.000001
Minor	09 Skin Graft For Skin & Subcutaneous Tissue Diagnoses	-0.41087	-0.10445	0.001113	0.000549	0.000549	0.000479	0.000232	0.000007
Mod	09 Skin Graft For Skin & Subcutaneous Tissue Diagnoses	-0.29901	0.00506	0.001420	0.000722	0.000722	0.000699	0.000209	0.000000
Major	09 Skin Graft For Skin & Subcutaneous Tissue Diagnoses	-0.25278	0.0214	0.000609	0.000350	0.000350	0.000391	0.000066	0.000001
Any	09 Mastectomy Procedures	-0.01155	-0.03817	0.003844	0.002598	0.002598	0.002330	0.000014	0.000010
Minor	09 Mastectomy Procedures	-0.09938	-0.06931	0.002469	0.001478	0.001478	0.001284	0.000099	0.000013
Mod	09 Mastectomy Procedures	-0.04776	-0.02852	0.001308	0.001014	0.001014	0.000957	0.000014	0.000002
Any	09 Breast Procedures Except Mastectomy	0.0281	-0.06085	0.000479	0.000282	0.000282	0.000238	-0.000006	0.000003
Minor	09 Breast Procedures Except Mastectomy	-0.12284	-0.04495	0.000367	0.000219	0.000219	0.000189	0.000018	0.000001
Any	09 Other Skin, Subcutaneous Tissue & Related Procedures	0.1981	0.00967	0.001589	0.001925	0.001925	0.001890	0.000067	0.000000
Minor	09 Other Skin, Subcutaneous Tissue & Related Procedures	-0.22027	-0.11413	0.000249	0.000245	0.000245	0.000223	0.000001	0.000002
Mod	09 Other Skin, Subcutaneous Tissue & Related Procedures	-0.0652	-0.08076	0.000775	0.000968	0.000968	0.000942	-0.000013	0.000002
Major	09 Other Skin, Subcutaneous Tissue & Related Procedures	-0.01874	-0.08921	0.000504	0.000598	0.000598	0.000622	-0.000002	-0.000002
Any	09 Skin Ulcers	0.30134	-0.05464	0.007465	0.005375	0.005375	0.005019	-0.000630	0.000019
Minor	09 Skin Ulcers	-0.34909	0.00257	0.000839	0.000355	0.000355	0.000270	0.000169	0.000000
Mod	09 Skin Ulcers	-0.15064	0.09988	0.004540	0.003018	0.003018	0.002727	0.000229	-0.000029
Major	09 Skin Ulcers	-0.13585	0.08351	0.001997	0.001858	0.001858	0.001853	0.000019	0.000000
Any	09 Major Skin Disorders	0.05339	0.06223	0.000660	0.000531	0.000531	0.000542	-0.000007	0.000001
Mod	09 Major Skin Disorders	-0.05469	0.02091	0.000396	0.000318	0.000318	0.000309	0.000004	0.000000
Major	09 Major Skin Disorders	-0.01052	-0.03593	0.000182	0.000146	0.000146	0.000142	0.000000	0.000000

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Any	09 Malignant Breast Disorders	-0.14142	-0.00552	0.000134	0.000142	0.000142	0.000128	-0.000001	0.000000
Mod	09 Malignant Breast Disorders	0.01955	0.02386	0.000083	0.000046	0.000046	0.000055	-0.000001	0.000000
Any	09 Cellulitis & Other Bacterial Skin Infections	0.05708	0.1048	0.015352	0.017660	0.017660	0.017978	0.000132	0.000033
Minor	09 Cellulitis & Other Bacterial Skin Infections	-0.0639	-0.12468	0.002259	0.002063	0.002063	0.002178	0.000013	-0.000014
Mod	09 Cellulitis & Other Bacterial Skin Infections	-0.06071	-0.07736	0.008557	0.009412	0.009412	0.009536	-0.000052	-0.000010
Major	09 Cellulitis & Other Bacterial Skin Infections	-0.02989	-0.06593	0.004339	0.005810	0.005810	0.005876	-0.000044	-0.000004
Any	09 Contusion, Open Wound & Other Trauma To Skin & Subcutaneous Tissue	-0.73963	-0.07192	0.003165	0.003337	0.003337	0.003319	-0.000127	0.000001
Minor	09 Contusion, Open Wound & Other Trauma To Skin & Subcutaneous Tissue	0.84764	0.13792	0.000711	0.000481	0.000481	0.000525	-0.000195	0.000006
Mod	09 Contusion, Open Wound & Other Trauma To Skin & Subcutaneous Tissue	0.89099	0.20755	0.001921	0.002065	0.002065	0.002009	0.000128	-0.000012
Major	09 Contusion, Open Wound & Other Trauma To Skin & Subcutaneous Tissue	0.86233	0.19835	0.000530	0.000729	0.000729	0.000740	0.000172	0.000002
Any	09 Other Skin, Subcutaneous Tissue & Breast Disorders	0.25961	0.21604	0.000769	0.000935	0.000935	0.000936	0.000043	0.000000
Minor	09 Other Skin, Subcutaneous Tissue & Breast Disorders	-0.36284	-0.31767	0.000204	0.000214	0.000214	0.000185	-0.000004	0.000009
Mod	09 Other Skin, Subcutaneous Tissue & Breast Disorders	-0.31994	-0.15895	0.000396	0.000479	0.000479	0.000454	-0.000027	0.000004
Major	09 Other Skin, Subcutaneous Tissue & Breast Disorders	-0.21507	-0.1989	0.000163	0.000214	0.000214	0.000267	-0.000011	-0.000010
Any	10 Pituitary & Adrenal Procedures	-0.01574	0.08183	0.000105	0.000102	0.000102	0.000115	0.000000	0.000001
Any	10 Procedures For Obesity	0.01792	0.03187	0.000108	0.000297	0.000297	0.000314	0.000003	0.000001
Any	10 Thyroid, Parathyroid & Thyroglossal Procedures	-0.04397	-0.09064	0.000319	0.000644	0.000644	0.000606	-0.000014	0.000003

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Minor	10 Thyroid, Parathyroid & Thyroglossal Procedures	0.0938	0.01113	0.000163	0.000302	0.000302	0.000317	0.000013	0.000000
Mod	10 Thyroid, Parathyroid & Thyroglossal Procedures	0.09357	-0.00976	0.000118	0.000258	0.000258	0.000218	0.000013	0.000000
Any	10 Other Procedures For Endocrine, Nutritional & Metabolic Disorders	0.26553	-0.0013	0.000316	0.000283	0.000283	0.000307	-0.000009	0.000000
Mod	10 Other Procedures For Endocrine, Nutritional & Metabolic Disorders	-0.18678	0.03939	0.000131	0.000075	0.000075	0.000087	0.000010	0.000000
Major	10 Other Procedures For Endocrine, Nutritional & Metabolic Disorders	-0.19132	-0.01189	0.000144	0.000154	0.000154	0.000170	-0.000002	0.000000
Any	10 Diabetes	-0.06868	0.02045	0.008636	0.008643	0.008643	0.008482	0.000000	-0.000003
Minor	10 Diabetes	0.06354	-0.02474	0.003264	0.002659	0.002659	0.002445	-0.000038	0.000005
Mod	10 Diabetes	0.09207	0.01895	0.003184	0.003433	0.003433	0.003448	0.000023	0.000000
Major	10 Diabetes	0.08454	-0.01939	0.002023	0.002247	0.002247	0.002261	0.000019	0.000000
Any	10 Malnutrition, Failure To Thrive & Other Nutritional Disorders	0.11751	0.23083	0.001528	0.001321	0.001321	0.001304	-0.000024	-0.000004
Mod	10 Malnutrition, Failure To Thrive & Other Nutritional Disorders	-0.1392	-0.10453	0.000705	0.000589	0.000589	0.000590	0.000016	0.000000
Major	10 Malnutrition, Failure To Thrive & Other Nutritional Disorders	0.08468	-0.14257	0.000766	0.000657	0.000657	0.000645	-0.000009	0.000002
Any	10 Hypovolemia & Related Electrolyte Disorders	0.14646	0.15685	0.014041	0.010238	0.010238	0.009465	-0.000557	-0.000121
Minor	10 Hypovolemia & Related Electrolyte Disorders	-0.07589	-0.17184	0.000380	0.000257	0.000257	0.000347	0.000009	-0.000015
Mod	10 Hypovolemia & Related Electrolyte Disorders	-0.07628	-0.08294	0.008330	0.006094	0.006094	0.005794	0.000171	0.000025
Major	10 Hypovolemia & Related Electrolyte Disorders	-0.08228	-0.0804	0.005066	0.003609	0.003609	0.003104	0.000120	0.000041
Any	10 Other Endocrine Disorders	0.22535	0.01698	0.001892	0.002332	0.002332	0.002399	0.000099	0.000001
Minor	10 Other Endocrine Disorders	-0.21165	0.01158	0.000447	0.000352	0.000352	0.000327	0.000020	0.000000
Mod	10 Other Endocrine Disorders	-0.19119	0.06365	0.000925	0.001066	0.001066	0.001059	-0.000027	0.000000
Major	10 Other Endocrine Disorders	-0.1812	0.01846	0.000482	0.000807	0.000807	0.000870	-0.000059	0.000001

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Any	10 Electrolyte Disorders Except Hypovolemia Related	0.05147	0.05154	0.005283	0.006933	0.006933	0.007231	0.000085	0.000015
Minor	10 Electrolyte Disorders Except Hypovolemia Related	-0.04656	-0.02548	0.000597	0.000737	0.000737	0.000752	-0.000007	0.000000
Mod	10 Electrolyte Disorders Except Hypovolemia Related	-0.01375	0.01902	0.003197	0.003674	0.003674	0.003746	-0.000007	0.000001
Major	10 Electrolyte Disorders Except Hypovolemia Related	0.03698	-0.02406	0.001401	0.002342	0.002342	0.002462	0.000035	-0.000003
Any	11 Kidney Transplant	-0.09761	-0.16484	0.000335	0.000418	0.000418	0.000418	-0.000008	0.000000
Mod	11 Kidney Transplant	-0.07291	-0.09485	0.000156	0.000155	0.000155	0.000134	0.000000	0.000002
Major	11 Kidney Transplant	0.00476	-0.01545	0.000128	0.000216	0.000216	0.000237	0.000000	0.000000
	11 Major Bladder Procedures	0.0038	0.09451	0.001133	0.000915	0.000915	0.000856	-0.000001	-0.000006
Mod	11 Major Bladder Procedures	-0.1502	-0.19977	0.000405	0.000235	0.000235	0.000240	0.000026	-0.000001
Major	11 Major Bladder Procedures	-0.16737	-0.25614	0.000654	0.000566	0.000566	0.000493	0.000015	0.000019
Any	11 Kidney & Urinary Tract Procedures For Malignancy	-0.05043	-0.00274	0.001110	0.000957	0.000957	0.001051	0.000008	0.000000
Minor	11 Kidney & Urinary Tract Procedures For Malignancy	-0.0373	-0.08602	0.000287	0.000197	0.000197	0.000188	0.000003	0.000001
Mod	11 Kidney & Urinary Tract Procedures For Malignancy	0.00701	-0.05303	0.000389	0.000361	0.000361	0.000386	0.000000	-0.000001
Major	11 Kidney & Urinary Tract Procedures For Malignancy	0.05191	-0.11097	0.000357	0.000336	0.000336	0.000375	-0.000001	-0.000004
Any	11 Kidney & Urinary Tract Procedures For Nonmalignancy	0.1281	0.00651	0.001311	0.001070	0.001070	0.001016	-0.000031	0.000000
Minor	11 Kidney & Urinary Tract Procedures For Nonmalignancy	-0.19464	-0.15489	0.000255	0.000141	0.000141	0.000139	0.000022	0.000000
Mod	11 Kidney & Urinary Tract Procedures For Nonmalignancy	-0.18175	-0.1092	0.000447	0.000347	0.000347	0.000337	0.000018	0.000001
Major	11 Kidney & Urinary Tract Procedures For Nonmalignancy	-0.2516	-0.12749	0.000507	0.000493	0.000493	0.000440	0.000004	0.000007
Any	11 Renal Dialysis Access Device Procedure Only	0.0038	-0.06063	0.001579	0.001406	0.001406	0.001307	-0.000001	0.000006

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Minor	11 Renal Dialysis Access Device Procedure Only	0.04816	-0.05907	0.000191	0.000064	0.000064	0.000019	-0.000006	0.000003
Mod	11 Renal Dialysis Access Device Procedure Only	0.05035	-0.03182	0.000798	0.000501	0.000501	0.000416	-0.000015	0.000003
Major	11 Renal Dialysis Access Device Procedure Only	0.06738	0.00336	0.000546	0.000733	0.000733	0.000759	0.000013	0.000000
Any	11 Other Bladder Procedures	-0.5007	0.20009	0.000814	0.000552	0.000552	0.000550	0.000131	0.000000
Minor	11 Other Bladder Procedures	0.5474	-0.25858	0.000329	0.000153	0.000153	0.000152	-0.000096	0.000000
Mod	11 Other Bladder Procedures	0.55054	-0.14359	0.000281	0.000234	0.000234	0.000214	-0.000026	0.000003
Major	11 Other Bladder Procedures	0.65712	-0.24066	0.000198	0.000148	0.000148	0.000159	-0.000033	-0.000003
Any	11 Urethral & Transurethral Procedures	0.09169	0.03043	0.001487	0.001403	0.001403	0.001412	-0.000008	0.000000
Minor	11 Urethral & Transurethral Procedures	-0.08707	-0.00229	0.000309	0.000257	0.000257	0.000201	0.000005	0.000000
Mod	11 Urethral & Transurethral Procedures	-0.04472	-0.01934	0.000938	0.000742	0.000742	0.000687	0.000009	0.000001
Any	11 Other Kidney, Urinary Tract & Related Procedures	0.0845	-0.07789	0.001187	0.001440	0.001440	0.001358	0.000021	0.000006
Minor	11 Other Kidney, Urinary Tract & Related Procedures	-0.05654	-0.00388	0.000160	0.000155	0.000155	0.000124	0.000000	0.000000
Mod	11 Other Kidney, Urinary Tract & Related Procedures	-0.07899	0.07946	0.000549	0.000454	0.000454	0.000439	0.000007	-0.000001
Major	11 Other Kidney, Urinary Tract & Related Procedures	-0.06204	0.06858	0.000386	0.000679	0.000679	0.000654	-0.000018	-0.000002
Any	11 Renal Failure	0.01888	0.01095	0.006706	0.016224	0.016224	0.016784	0.000180	0.000006
Minor	11 Renal Failure	0.03173	-0.02947	0.000121	0.000041	0.000041	0.000017	-0.000003	0.000001
Mod	11 Renal Failure	-0.02687	0.0762	0.001126	0.000745	0.000745	0.000681	0.000010	-0.000005
Major	11 Renal Failure	-0.01825	0.04226	0.005050	0.014554	0.014554	0.014927	-0.000173	0.000016
Any	11 Kidney & Urinary Tract Malignancy	-0.04585	0.02235	0.000233	0.000229	0.000229	0.000204	0.000000	-0.000001
Major	11 Kidney & Urinary Tract Malignancy	-0.11308	-0.09757	0.000128	0.000114	0.000114	0.000113	0.000002	0.000000
Any	11 Nephritis & Nephrosis	-0.06725	0.01852	0.000118	0.000072	0.000072	0.000070	0.000003	0.000000
Any	11 Kidney & Urinary Tract Infections	0.2772	0.11469	0.023267	0.025415	0.025415	0.026272	0.000595	0.000098

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Minor	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.19348	-0.03312	0.001362	0.001311	0.001311	0.001524	0.000010	-0.000007
Mod	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.15011	0.0101	0.013042	0.014011	0.014011	0.014196	-0.000145	0.000002
Major	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.098	0.00075016	0.008435	0.009395	0.009395	0.009803	-0.000094	0.000000
Any	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	0.62128	0.03121	0.000756	0.000885	0.000885	0.000870	0.000080	0.000000
Minor	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.60379	-0.13868	0.000083	0.000097	0.000097	0.000061	-0.000009	0.000005
Mod	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.53576	0.02836	0.000482	0.000507	0.000507	0.000516	-0.000013	0.000000
Major	11 Urinary Stones & Acquired Upper Urinary Tract Obstruction	-0.62226	-0.03426	0.000185	0.000251	0.000251	0.000242	-0.000041	0.000000
Any	11 Malfunction, Reaction, Complic Of Genitourinary Device Or Proc	-0.02099	-0.12254	0.003493	0.004403	0.004403	0.004584	-0.000019	-0.000022
Mod	11 Malfunction, Reaction, Complic Of Genitourinary Device Or Proc	0.10188	0.2257	0.001257	0.001006	0.001006	0.000905	-0.000026	-0.000023
Major	11 Malfunction, Reaction, Complic Of Genitourinary Device Or Proc	0.12537	0.18356	0.001930	0.002326	0.002326	0.002448	0.000050	0.000022
Extreme	11 Malfunction, Reaction, Complic Of Genitourinary Device Or Proc	0.08014	0.19758	0.000274	0.001038	0.001038	0.001214	0.000061	0.000035
Any	12 Major Male Pelvic Procedures	-0.14206	-0.00795	0.000861	0.000520	0.000520	0.000516	0.000048	0.000000
Minor	12 Major Male Pelvic Procedures	-0.02506	-0.16614	0.000498	0.000288	0.000288	0.000259	0.000005	0.000005
Mod	12 Major Male Pelvic Procedures	0.05447	-0.07531	0.000306	0.000173	0.000173	0.000205	-0.000007	-0.000002
Any	12 Penis Procedures	0.29856	-0.12099	0.000246	0.000185	0.000185	0.000186	-0.000018	0.000000
Minor	12 Penis Procedures	-0.29223	-0.11959	0.000115	0.000050	0.000050	0.000046	0.000019	0.000001
Mod	12 Penis Procedures	-0.22426	-0.05372	0.000105	0.000103	0.000103	0.000093	0.000001	0.000001
Any	12 Transurethral Prostatectomy	0.02632	-0.06743	0.002989	0.001949	0.001949	0.001752	-0.000027	0.000013
Minor	12 Transurethral Prostatectomy	0.027	-0.00309	0.001085	0.000733	0.000733	0.000711	-0.000009	0.000000
Mod	12 Transurethral Prostatectomy	0.04861	0.04583	0.001627	0.000992	0.000992	0.000848	-0.000031	-0.000007
Major	12 Transurethral Prostatectomy	-0.02344	0.11796	0.000233	0.000206	0.000206	0.000163	0.000001	-0.000005

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Any	12 Testes & Scrotal Procedures	0.08948	0.03914	0.000160	0.000093	0.000093	0.000085	-0.000006	0.000000
Any	12 Other Male Reproductive System & Related Procedures	-0.12564	-0.05069	0.000278	0.000188	0.000188	0.000177	0.000011	0.000001
Mod	12 Other Male Reproductive System & Related Procedures	0.02998	-0.11186	0.000099	0.000072	0.000072	0.000068	-0.000001	0.000000
Major	12 Other Male Reproductive System & Related Procedures	0.04282	-0.07098	0.000108	0.000075	0.000075	0.000057	-0.000001	0.000001
Any	12 Malignancy, Male Reproductive System	-0.21935	0.04294	0.000367	0.000135	0.000135	0.000170	0.000051	0.000001
Mod	12 Malignancy, Male Reproductive System	0.23241	-0.11424	0.000195	0.000056	0.000056	0.000094	-0.000032	-0.000004
Major	12 Malignancy, Male Reproductive System	0.00982	-0.12625	0.000124	0.000055	0.000055	0.000057	-0.000001	0.000000
Any	12 Male Reproductive System Diagnoses Except Malignancy	0.13624	0.16405	0.000699	0.000917	0.000917	0.000965	0.000030	0.000008
Minor	12 Male Reproductive System Diagnoses Except Malignancy	-0.26206	-0.36992	0.000080	0.000075	0.000075	0.000115	0.000001	-0.000015
Mod	12 Male Reproductive System Diagnoses Except Malignancy	-0.11248	-0.13748	0.000412	0.000497	0.000497	0.000505	-0.000010	-0.000001
Major	12 Male Reproductive System Diagnoses Except Malignancy	-0.14208	-0.07393	0.000191	0.000316	0.000316	0.000312	-0.000018	0.000000
Any	13 Pelvic Evisceration, Radical Hysterectomy & Other Radical Gyn Procs	-0.00647	-0.00519	0.000373	0.000231	0.000231	0.000207	0.000001	0.000000
Minor	13 Pelvic Evisceration, Radical Hysterectomy & Other Radical Gyn Procs	-0.13719	-0.17455	0.000131	0.000052	0.000052	0.000038	0.000011	0.000003
Mod	13 Pelvic Evisceration, Radical Hysterectomy & Other Radical Gyn Procs	-0.0066	-0.22828	0.000153	0.000099	0.000099	0.000097	0.000000	0.000000
Any	13 Uterine & Adnexa Procedures For Ovarian & Adnexal Malignancy	0.07812	-0.0671	0.000501	0.000371	0.000371	0.000362	-0.000010	0.000001
Mod	13 Uterine & Adnexa Procedures For Ovarian & Adnexal Malignancy	-0.22147	-0.08648	0.000278	0.000134	0.000134	0.000158	0.000032	-0.000002

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	13 Uterine & Adnexa Procedures For Ovarian & Adnexal Malignancy	-0.19183	-0.115	0.000172	0.000170	0.000170	0.000136	0.000000	0.000004
Any	13 Uterine & Adnexa Procedures For Non-Ovarian & Non-Adnexal Malig	-0.32511	0.05466	0.000858	0.000833	0.000833	0.000792	0.000008	-0.000002
Minor	13 Uterine & Adnexa Procedures For Non-Ovarian & Non-Adnexal Malig	0.27117	-0.13607	0.000233	0.000179	0.000179	0.000181	-0.000014	0.000000
Mod	13 Uterine & Adnexa Procedures For Non-Ovarian & Non-Adnexal Malig	0.30653	-0.11876	0.000495	0.000459	0.000459	0.000411	-0.000011	0.000006
Major	13 Uterine & Adnexa Procedures For Non-Ovarian & Non-Adnexal Malig	0.36432	-0.13724	0.000124	0.000163	0.000163	0.000171	0.000014	-0.000001
Any	13 Uterine & Adnexa Procedures For Non-Malignancy Except Leiomyoma	-0.20766	-0.05117	0.001678	0.001331	0.001331	0.001249	0.000072	0.000004
Minor	13 Uterine & Adnexa Procedures For Non-Malignancy Except Leiomyoma	0.13418	-0.0678	0.000635	0.000445	0.000445	0.000457	-0.000025	-0.000001
Mod	13 Uterine & Adnexa Procedures For Non-Malignancy Except Leiomyoma	0.22395	-0.00866	0.000814	0.000669	0.000669	0.000621	-0.000032	0.000000
Major	13 Uterine & Adnexa Procedures For Non-Malignancy Except Leiomyoma	0.15676	-0.08922	0.000191	0.000193	0.000193	0.000138	0.000000	0.000005
Any	13 Female Reproductive System Reconstructive Procedures	0.07356	-0.04061	0.001366	0.001024	0.001024	0.000910	-0.000025	0.000005
Minor	13 Female Reproductive System Reconstructive Procedures	-0.13827	-0.04066	0.000785	0.000473	0.000473	0.000419	0.000043	0.000002
Mod	13 Female Reproductive System Reconstructive Procedures	-0.15367	-0.04287	0.000526	0.000497	0.000497	0.000440	0.000004	0.000002
Any	13 Dilation & Curettage For Non-Obstetric Diagnoses	-0.0261	-0.04823	0.000144	0.000121	0.000121	0.000121	0.000001	0.000000
Any	13 Other Female Reproductive System & Related Procedures	-0.02677	-0.11937	0.000399	0.000347	0.000347	0.000301	0.000001	0.000005
Minor	13 Other Female Reproductive System & Related Procedures	-0.03144	0.15931	0.000204	0.000102	0.000102	0.000095	0.000003	-0.000001
Mod	13 Other Female Reproductive System & Related Procedures	-0.13708	0.04522	0.000147	0.000158	0.000158	0.000121	-0.000002	-0.000002
Any	13 Uterine & Adnexa Procedures For Leiomyoma	0.36233	-0.03616	0.000223	0.000232	0.000232	0.000273	0.000003	-0.000001

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Minor	13 Uterine & Adnexa Procedures For Leiomyoma	-0.38328	-0.14503	0.000089	0.000101	0.000101	0.000141	-0.000004	-0.000006
Mod	13 Uterine & Adnexa Procedures For Leiomyoma	-0.42493	0.00883	0.000124	0.000099	0.000099	0.000104	0.000011	0.000000
Any	13 Female Reproductive System Malignancy	-0.17391	-0.05707	0.000309	0.000202	0.000202	0.000194	0.000019	0.000000
Mod	13 Female Reproductive System Malignancy	0.05397	0.01596	0.000156	0.000074	0.000074	0.000076	-0.000004	0.000000
Major	13 Female Reproductive System Malignancy	0.06987	-0.03601	0.000137	0.000086	0.000086	0.000089	-0.000004	0.000000
Any	13 Female Reproductive System Infections	0.05841	0.07032	0.000322	0.000389	0.000389	0.000369	0.000004	-0.000001
Mod	13 Female Reproductive System Infections	0.22322	-0.05266	0.000175	0.000149	0.000149	0.000164	-0.000006	-0.000001
Major	13 Female Reproductive System Infections	-0.00222	-0.03141	0.000108	0.000209	0.000209	0.000164	0.000000	0.000001
Any	13 Menstrual & Other Female Reproductive System Disorders	-0.00542	-0.0671	0.000204	0.000250	0.000250	0.000258	0.000000	-0.000001
Mod	13 Menstrual & Other Female Reproductive System Disorders	-0.00877	0.14485	0.000131	0.000148	0.000148	0.000148	0.000000	0.000000
Any	16 Splenectomy	-0.05058	-0.1015	0.000169	0.000130	0.000130	0.000101	0.000002	0.000003
Any	16 Other Procedures Of Blood & Blood-Forming Organs	-0.12197	-0.20034	0.000080	0.000095	0.000095	0.000102	-0.000002	-0.000001
Any	16 Major Hematologic/Immunologic Diag Exc Sickle Cell Crisis & Coagul	-0.04088	0.12146	0.001567	0.001122	0.001122	0.001097	0.000018	-0.000003
Minor	16 Major Hematologic/Immunologic Diag Exc Sickle Cell Crisis & Coagul	-0.12216	-0.07229	0.000131	0.000049	0.000049	0.000041	0.000010	0.000001
Mod	16 Major Hematologic/Immunologic Diag Exc Sickle Cell Crisis & Coagul	-0.06552	-0.07417	0.000798	0.000508	0.000508	0.000445	0.000019	0.000005
Major	16 Major Hematologic/Immunologic Diag Exc Sickle Cell Crisis & Coagul	0.0233	-0.12	0.000606	0.000494	0.000494	0.000515	-0.000003	-0.000002
Any	16 Coagulation & Platelet Disorders	0.06996	-0.0075	0.001270	0.000878	0.000878	0.000778	-0.000027	0.000001
Minor	16 Coagulation & Platelet Disorders	-0.07955	0.10721	0.000571	0.000319	0.000319	0.000272	0.000020	-0.000005
Mod	16 Coagulation & Platelet Disorders	-0.03068	-0.01119	0.000501	0.000339	0.000339	0.000288	0.000005	0.000001

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	16 Coagulation & Platelet Disorders	-0.03252	0.02584	0.000153	0.000163	0.000163	0.000181	0.000000	0.000000
Any	16 Other Anemia & Disorders Of Blood & Blood-Forming Organs	-0.1025	0.11692	0.004629	0.006980	0.006980	0.007055	-0.000241	0.000009
Minor	16 Other Anemia & Disorders Of Blood & Blood-Forming Organs	0.08175	-0.05931	0.001870	0.002058	0.002058	0.002057	0.000015	0.000000
Mod	16 Other Anemia & Disorders Of Blood & Blood-Forming Organs	0.09292	-0.0635	0.001870	0.003061	0.003061	0.003009	0.000111	0.000003
Major	16 Other Anemia & Disorders Of Blood & Blood-Forming Organs	0.07444	-0.08766	0.000829	0.001649	0.001649	0.001749	0.000061	-0.000009
Any	17 Major O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	0.06619	-0.09875	0.000453	0.000434	0.000434	0.000338	-0.000001	0.000009
Mod	17 Major O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	-0.13016	0.03597	0.000195	0.000186	0.000186	0.000119	0.000001	-0.000002
Major	17 Major O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	-0.15658	0.02481	0.000147	0.000139	0.000139	0.000130	0.000001	0.000000
Any	17 Other O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	0.19687	-0.18759	0.000689	0.000533	0.000533	0.000512	-0.000031	0.000004
Minor	17 Other O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	-0.29409	0.07631	0.000169	0.000098	0.000098	0.000092	0.000021	-0.000001
Mod	17 Other O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	-0.25614	0.03692	0.000348	0.000247	0.000247	0.000213	0.000026	-0.000001
Major	17 Other O.R. Procedures For Lymphatic/Hematopoietic/Other Neoplasms	-0.20635	0.13479	0.000147	0.000154	0.000154	0.000171	-0.000001	0.000002
Any	17 Acute Leukemia	-0.2478	-0.03481	0.000294	0.000182	0.000182	0.000143	0.000028	0.000001
Mod	17 Acute Leukemia	0.09013	-0.19884	0.000080	0.000056	0.000056	0.000038	-0.000002	0.000004
Major	17 Acute Leukemia	0.17244	-0.06946	0.000128	0.000076	0.000076	0.000071	-0.000009	0.000000

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Any	17 Lymphoma, Myeloma & Non-Acute Leukemia	0.15584	0.02903	0.001570	0.000967	0.000967	0.000887	-0.000094	-0.000002
Minor	17 Lymphoma, Myeloma & Non-Acute Leukemia	-0.29222	-0.06568	0.000089	0.000073	0.000073	0.000033	0.000005	0.000003
Mod	17 Lymphoma, Myeloma & Non-Acute Leukemia	-0.18952	-0.00669	0.000718	0.000350	0.000350	0.000316	0.000070	0.000000
Major	17 Lymphoma, Myeloma & Non-Acute Leukemia	-0.26594	0.01338	0.000644	0.000442	0.000442	0.000450	0.000054	0.000000
Any	17 Radiotherapy	-0.10251	0.02933	0.000160	0.000103	0.000103	0.000081	0.000006	-0.000001
Mod	17 Radiotherapy	0.30459	0.30418	0.000121	0.000072	0.000072	0.000054	-0.000015	-0.000005
Any	17 Chemotherapy	-0.1196	-0.1281	0.001496	0.000701	0.000701	0.000641	0.000095	0.000008
Minor	17 Chemotherapy	0.00365	0.00278	0.000657	0.000266	0.000266	0.000207	-0.000001	0.000000
Mod	17 Chemotherapy	0.07576	0.1272	0.000619	0.000270	0.000270	0.000282	-0.000026	0.000002
Major	17 Chemotherapy	-0.02195	0.07626	0.000134	0.000124	0.000124	0.000125	0.000000	0.000000
Any	17 Lymphatic & Other Malignancies & Neoplasms Of Uncertain Behavior	-0.05927	-0.09021	0.000948	0.000626	0.000626	0.000628	0.000019	0.000000
Minor	17 Lymphatic & Other Malignancies & Neoplasms Of Uncertain Behavior	-0.0541	0.3777	0.000080	0.000040	0.000040	0.000034	0.000002	-0.000002
Mod	17 Lymphatic & Other Malignancies & Neoplasms Of Uncertain Behavior	0.0428	0.02647	0.000402	0.000231	0.000231	0.000289	-0.000007	0.000002
Major	17 Lymphatic & Other Malignancies & Neoplasms Of Uncertain Behavior	0.05568	0.10386	0.000424	0.000309	0.000309	0.000264	-0.000006	-0.000005
	18 Infectious & Parasitic Diseases Including Hiv W O.R. Procedure	-0.13565	0.01564	0.001643	0.002609	0.002609	0.002792	-0.000131	0.000003
Mod	18 Infectious & Parasitic Diseases Including Hiv W O.R. Procedure	0.24315	-0.0589	0.000434	0.000282	0.000282	0.000252	-0.000037	0.000002
Major	18 Infectious & Parasitic Diseases Including Hiv W O.R. Procedure	0.26109	-0.00443	0.000852	0.001105	0.001105	0.001077	0.000066	0.000000
Extreme	18 Infectious & Parasitic Diseases Including Hiv W O.R. Procedure	0.18815	-0.00118	0.000335	0.001204	0.001204	0.001444	0.000164	0.000000
Any	18 Post-Op, Post-Trauma, Other Device Infections W O.R. Procedure	-0.03992	-0.03237	0.002131	0.002048	0.002048	0.002048	0.000003	0.000000

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Minor	18 Post-Op, Post-Trauma, Other Device Infections W O.R. Procedure	-0.00087647	-0.14594	0.000278	0.000284	0.000284	0.000257	0.000000	0.000004
Mod	18 Post-Op, Post-Trauma, Other Device Infections W O.R. Procedure	0.01401	-0.06066	0.000932	0.000870	0.000870	0.000842	-0.000001	0.000002
Major	18 Post-Op, Post-Trauma, Other Device Infections W O.R. Procedure	0.09548	-0.00314	0.000724	0.000678	0.000678	0.000682	-0.000004	0.000000
Any	18 Septicemia & Disseminated Infections	0.05778	0.07565	0.014494	0.018500	0.018500	0.020449	0.000231	0.000147
Minor	18 Septicemia & Disseminated Infections	-0.0685	0.05206	0.000204	0.000238	0.000238	0.000227	-0.000002	-0.000001
Mod	18 Septicemia & Disseminated Infections	0.03276	0.0208	0.006192	0.005021	0.005021	0.005070	-0.000038	0.000001
Major	18 Septicemia & Disseminated Infections	0.03394	0.01379	0.006741	0.008452	0.008452	0.009013	0.000058	0.000008
Any	18 Post-Operative, Post-Traumatic, Other Device Infections	-0.16361	0.02269	0.004297	0.004172	0.004172	0.003933	0.000020	-0.000005
Minor	18 Post-Operative, Post-Traumatic, Other Device Infections	0.05096	-0.06653	0.000960	0.000711	0.000711	0.000618	-0.000013	0.000006
Mod	18 Post-Operative, Post-Traumatic, Other Device Infections	0.12858	-0.05908	0.002221	0.002061	0.002061	0.001844	-0.000021	0.000013
Major	18 Post-Operative, Post-Traumatic, Other Device Infections	0.11966	-0.02911	0.000983	0.001159	0.001159	0.001189	0.000021	-0.000001
Any	18 Fever	-0.10893	0.0792	0.001046	0.001048	0.001048	0.001049	0.000000	0.000000
Minor	18 Fever	0.1742	-0.03905	0.000108	0.000073	0.000073	0.000109	-0.000006	-0.000001
Mod	18 Fever	0.14572	0.03743	0.000619	0.000577	0.000577	0.000578	-0.000006	0.000000
Major	18 Fever	0.26241	-0.04474	0.000313	0.000365	0.000365	0.000325	0.000014	0.000002
Any	18 Viral Illness	0.30241	-0.01047	0.000762	0.000656	0.000656	0.000803	-0.000032	-0.000002
Minor	18 Viral Illness	-0.28522	0.17872	0.000093	0.000033	0.000033	0.000030	0.000017	-0.000001
Mod	18 Viral Illness	-0.24571	0.03903	0.000453	0.000386	0.000386	0.000370	0.000017	-0.000001
Major	18 Viral Illness	-0.3473	0.05034	0.000201	0.000218	0.000218	0.000370	-0.000006	0.000008
Any	18 Other Infectious & Parasitic Diseases	0.27446	-0.00185	0.001085	0.001367	0.001367	0.001286	0.000078	0.000000

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Minor	18 Other Infectious & Parasitic Diseases	-0.21646	-0.01645	0.000236	0.000316	0.000316	0.000285	-0.000017	0.000001
Mod	18 Other Infectious & Parasitic Diseases	-0.26738	0.05325	0.000475	0.000638	0.000638	0.000586	-0.000043	-0.000003
Major	18 Other Infectious & Parasitic Diseases	-0.31766	-0.04695	0.000303	0.000249	0.000249	0.000251	0.000017	0.000000
Any	19 Mental Illness Diagnosis W O.R. Procedure	0.23463	-0.22069	0.000083	0.000045	0.000045	0.000060	-0.000009	-0.000003
Any	19 Schizophrenia	-0.52967	0.1308	0.002578	0.003585	0.003585	0.003828	-0.000533	0.000032
Minor	19 Schizophrenia	0.16307	-0.31749	0.000756	0.000869	0.000869	0.000902	0.000018	-0.000011
Mod	19 Schizophrenia	0.26682	-0.2575	0.001681	0.002389	0.002389	0.002586	0.000189	-0.000051
Major	19 Schizophrenia	0.37919	-0.2269	0.000124	0.000303	0.000303	0.000307	0.000068	-0.000001
Any	19 Major Depressive Disorders & Other/Unspecified Psychoses	-0.1418	0.0767	0.007067	0.005563	0.005563	0.005658	0.000213	0.000007
Minor	19 Major Depressive Disorders & Other/Unspecified Psychoses	0.02758	-0.12548	0.000223	0.000237	0.000237	0.000203	0.000000	0.000004
Mod	19 Major Depressive Disorders & Other/Unspecified Psychoses	0.11288	-0.00763	0.005510	0.004238	0.004238	0.004268	-0.000144	0.000000
Major	19 Major Depressive Disorders & Other/Unspecified Psychoses	0.1287	-0.03072	0.001046	0.000861	0.000861	0.000948	-0.000024	-0.000003
Any	19 Bipolar Disorders	-0.14582	0.11424	0.001713	0.002210	0.002210	0.002394	-0.000072	0.000021
Minor	19 Bipolar Disorders	-0.15147	-0.16354	0.000265	0.000367	0.000367	0.000364	-0.000016	0.000000
Mod	19 Bipolar Disorders	0.03475	-0.13242	0.001295	0.001520	0.001520	0.001717	0.000008	-0.000026
Major	19 Bipolar Disorders	0.06594	-0.20106	0.000131	0.000250	0.000250	0.000241	0.000008	0.000002
Any	19 Depression Except Major Depressive Disorder	0.1936	0.04067	0.000884	0.000648	0.000648	0.000594	-0.000046	-0.000002
Minor	19 Depression Except Major Depressive Disorder	-0.42514	0.06274	0.000096	0.000106	0.000106	0.000105	-0.000004	0.000000
Mod	19 Depression Except Major Depressive Disorder	-0.21887	-0.01374	0.000718	0.000454	0.000454	0.000392	0.000058	0.000001
Any	19 Adjustment Disorders & Neuroses Except Depressive Diagnoses	-0.19965	-0.14443	0.000185	0.000134	0.000134	0.000150	0.000010	-0.000002

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Minor	19 Adjustment Disorders & Neuroses Except Depressive Diagnoses	0.1135	0.25941	0.000089	0.000062	0.000062	0.000069	-0.000003	0.000002
Mod	19 Adjustment Disorders & Neuroses Except Depressive Diagnoses	0.18339	0.20293	0.000080	0.000065	0.000065	0.000071	-0.000003	0.000001
Any	19 Acute Anxiety & Delirium States	-0.13778	-0.26093	0.001678	0.000887	0.000887	0.000721	0.000109	0.000043
Minor	19 Acute Anxiety & Delirium States	0.0603	0.26552	0.000526	0.000334	0.000334	0.000283	-0.000012	-0.000014
Mod	19 Acute Anxiety & Delirium States	0.25635	0.34546	0.000788	0.000393	0.000393	0.000313	-0.000101	-0.000028
Major	19 Acute Anxiety & Delirium States	0.24339	0.44766	0.000338	0.000152	0.000152	0.000112	-0.000045	-0.000018
Any	19 Organic Mental Health Disturbances	0.21646	0.17446	0.005216	0.003083	0.003083	0.003117	-0.000462	0.000006
Minor	19 Organic Mental Health Disturbances	-0.17276	-0.07119	0.001761	0.000645	0.000645	0.000602	0.000193	0.000003
Mod	19 Organic Mental Health Disturbances	-0.15738	-0.08015	0.002674	0.001781	0.001781	0.001899	0.000141	-0.000009
Major	19 Organic Mental Health Disturbances	-0.102	-0.10737	0.000759	0.000620	0.000620	0.000581	0.000014	0.000004
Any	19 Other Mental Health Disorders	-0.02406	-0.15408	0.000354	0.000271	0.000271	0.000327	0.000002	-0.000009
Minor	19 Other Mental Health Disorders	0.09665	0.23757	0.000083	0.000025	0.000025	0.000039	-0.000006	0.000003
Mod	19 Other Mental Health Disorders	0.11724	0.14118	0.000207	0.000193	0.000193	0.000227	-0.000002	0.000005
Any	20 Alcohol & Drug Dependence W Rehab Or Rehab/Detox Therapy	-0.14321	0.0334	0.000083	0.000103	0.000103	0.000123	-0.000003	0.000001
Any	20 Alcohol Abuse & Dependence	-0.00301	-0.04153	0.000530	0.000599	0.000599	0.000621	0.000000	-0.000001
Mod	20 Alcohol Abuse & Dependence	0.00098008	0.06378	0.000341	0.000330	0.000330	0.000353	0.000000	0.000001
Major	20 Alcohol Abuse & Dependence	-0.16142	0.00539	0.000102	0.000164	0.000164	0.000165	-0.000010	0.000000
Any	20 Other Drug Abuse & Dependence	-0.0893	0.01337	0.000967	0.000861	0.000861	0.000857	0.000009	0.000000
Minor	20 Other Drug Abuse & Dependence	0.22062	0.03165	0.000102	0.000063	0.000063	0.000065	-0.000009	0.000000
Mod	20 Other Drug Abuse & Dependence	0.18428	0.08183	0.000597	0.000483	0.000483	0.000496	-0.000021	0.000001
Major	20 Other Drug Abuse & Dependence	0.27851	0.15537	0.000255	0.000289	0.000289	0.000265	0.000009	-0.000004

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Any	21 O.R. Procedure For Other Complications Of Treatment	-0.03645	-0.18301	0.001866	0.001725	0.001725	0.001742	0.000005	-0.000003
Minor	21 O.R. Procedure For Other Complications Of Treatment	-0.00593	0.15685	0.000367	0.000236	0.000236	0.000206	0.000001	-0.000005
Mod	21 O.R. Procedure For Other Complications Of Treatment	0.01173	0.1861	0.000909	0.000788	0.000788	0.000831	-0.000001	0.000008
Major	21 O.R. Procedure For Other Complications Of Treatment	0.09849	0.16565	0.000475	0.000516	0.000516	0.000539	0.000004	0.000004
Any	21 Allergic Reactions	0.134	0.0309	0.000182	0.000338	0.000338	0.000372	0.000021	0.000001
Mod	21 Allergic Reactions	-0.10884	-0.00719	0.000093	0.000162	0.000162	0.000173	-0.000008	0.000000
Any	21 Poisoning Of Medicinal Agents	0.06752	0.05751	0.001761	0.002114	0.002114	0.002308	0.000024	0.000011
Minor	21 Poisoning Of Medicinal Agents	-0.13046	-0.0353	0.000128	0.000112	0.000112	0.000146	0.000002	-0.000001
Mod	21 Poisoning Of Medicinal Agents	-0.07502	-0.04148	0.000992	0.001001	0.001001	0.001137	-0.000001	-0.000006
Major	21 Poisoning Of Medicinal Agents	-0.0667	-0.03199	0.000581	0.000801	0.000801	0.000800	-0.000015	0.000000
Any	21 Other Complications Of Treatment	0.41196	0.05477	0.001930	0.002086	0.002086	0.002017	0.000064	-0.000004
Minor	21 Other Complications Of Treatment	-0.41494	-0.07571	0.000428	0.000310	0.000310	0.000300	0.000049	0.000001
Mod	21 Other Complications Of Treatment	-0.41327	-0.04761	0.000973	0.000959	0.000959	0.000901	0.000006	0.000003
Major	21 Other Complications Of Treatment	-0.35757	-0.03644	0.000485	0.000700	0.000700	0.000705	-0.000077	0.000000
Any	21 Other Injury, Poisoning & Toxic Effect Diagnoses	0.39773	0.17752	0.000475	0.000407	0.000407	0.000392	-0.000027	-0.000003
Minor	21 Other Injury, Poisoning & Toxic Effect Diagnoses	-0.27559	-0.16832	0.000118	0.000088	0.000088	0.000086	0.000008	0.000000
Mod	21 Other Injury, Poisoning & Toxic Effect Diagnoses	-0.2959	-0.10899	0.000201	0.000192	0.000192	0.000182	0.000003	0.000001
Major	21 Other Injury, Poisoning & Toxic Effect Diagnoses	-0.37748	-0.28308	0.000124	0.000114	0.000114	0.000097	0.000004	0.000005
Any	21 Toxic Effects Of Non-Medicinal Substances	-0.08727	0.00685	0.000182	0.000329	0.000329	0.000324	-0.000013	0.000000

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	24 Hiv W Major Hiv Related Condition	-0.00541	-0.07165	0.000160	0.000148	0.000148	0.000134	0.000000	0.000001
Any	24 Hiv W One Signif Hiv Cond Or W/O Signif Related Cond	-0.09393	0.0425	0.000220	0.000181	0.000181	0.000213	0.000004	0.000001
Mod	24 Hiv W One Signif Hiv Cond Or W/O Signif Related Cond	-0.0264	-0.15764	0.000115	0.000102	0.000102	0.000124	0.000000	-0.000004
Any	25 Musculoskeletal & Other Procedures For Multiple Significant Trauma	0.24488	0.12109	0.000542	0.000652	0.000652	0.000723	0.000027	0.000009
Mod	25 Musculoskeletal & Other Procedures For Multiple Significant Trauma	0.06123	0.08782	0.000242	0.000218	0.000218	0.000237	-0.000001	0.000002
Major	25 Musculoskeletal & Other Procedures For Multiple Significant Trauma	0.1112	-0.04704	0.000214	0.000314	0.000314	0.000358	0.000011	-0.000002
Any	25 Multiple Significant Trauma W/O O.R. Procedure	0.20028	0.03445	0.000290	0.000494	0.000494	0.000432	0.000041	-0.000002
Mod	25 Multiple Significant Trauma W/O O.R. Procedure	0.04338	0.15146	0.000156	0.000204	0.000204	0.000195	0.000002	-0.000001
Major	25 Multiple Significant Trauma W/O O.R. Procedure	-0.12974	0.00982	0.000108	0.000231	0.000231	0.000194	-0.000016	0.000000
Any	Extensive Procedure Unrelated To Principal Diagnosis	0.09132	0.09184	0.002249	0.002004	0.002004	0.001945	-0.000022	-0.000005
Minor	Extensive Procedure Unrelated To Principal Diagnosis	0.00727	-0.13812	0.000156	0.000072	0.000072	0.000063	-0.000001	0.000001
Mod	Extensive Procedure Unrelated To Principal Diagnosis	-0.02153	0.02897	0.000648	0.000444	0.000444	0.000424	0.000004	-0.000001
Major	Extensive Procedure Unrelated To Principal Diagnosis	0.08518	-0.00902	0.001050	0.001006	0.001006	0.000909	-0.000004	0.000001
Any	Moderately Extensive Procedure Unrelated To Principal Diagnosis	0.08974	-0.00944	0.002737	0.002916	0.002916	0.003297	0.000016	-0.000004
Minor	Moderately Extensive Procedure Unrelated To Principal Diagnosis	-0.01413	0.08104	0.000124	0.000110	0.000110	0.000100	0.000000	-0.000001
Mod	Moderately Extensive Procedure Unrelated To Principal Diagnosis	-0.02473	0.07131	0.000871	0.000805	0.000805	0.000827	0.000002	0.000002

Sev	Variable	Regression Coefficient (IPS)	2008 Model (deflation factor applied to 2008)	IPS Mean	2007 Mean (IPS Model)	2007 Mean(2008 model)	2008 Mean	IPS-2007	2008-2007
Major	Moderately Extensive Procedure Unrelated To Principal Diagnosis	0.00949	0.05386	0.001404	0.001400	0.001400	0.001650	0.000000	0.000013
Any	Nonextensive Procedure Unrelated To Principal Diagnosis	0.18751	-0.00191	0.003267	0.002325	0.002325	0.002071	-0.000177	0.000000
Minor	Nonextensive Procedure Unrelated To Principal Diagnosis	-0.1752	-0.13871	0.000284	0.000155	0.000155	0.000133	0.000023	0.000003
Mod	Nonextensive Procedure Unrelated To Principal Diagnosis	-0.152	-0.02114	0.001391	0.000815	0.000815	0.000688	0.000087	0.000003
Major	Nonextensive Procedure Unrelated To Principal Diagnosis	-0.0973	-0.00939	0.001369	0.001066	0.001066	0.000956	0.000029	0.000001
	Free-Standing Vol/NP	-0.14221	-0.00202	0.158493	0.115547	0.115547	0.107286	0.006107	0.000017
	Free-Standing Proprietary	-0.08207	0.1026	0.040565	0.072878	0.072878	0.077890	-0.002652	0.000514
	Free-Standing Government	-0.13322	-0.00299	0.038689	0.018570	0.018570	0.016254	0.002680	0.000007
	Facility-Based Vol/NP	-0.14481	-0.02465	0.299250	0.136032	0.136032	0.117245	0.023636	0.000463
	Facility-Based Proprietary	-0.11309	0.04423	0.036217	0.012954	0.012954	0.013092	0.002631	0.000006
	Facility-Based Government	-0.153	-0.02804	0.041200	0.020685	0.020685	0.019381	0.003139	0.000037
	Other Vol/NP	-0.11094	0.03959	0.088324	0.078100	0.078100	0.072086	0.001134	-0.000238
	Other Proprietary	-0.09851	0.12947	0.292672	0.539954	0.539954	0.572082	-0.024360	0.004160
	Other Government	-0.11499	0.05356	0.004406	0.004689	0.004689	0.004672	-0.000033	-0.000001
	Acute Care Hospital Payments in 120 Days Preceding Home Health Episode	-0.00000206	-0.00000194	\$7,569.96	\$6,159.58	\$7,979.46	\$7,753.60	0.002905	0.000438
	Long Term Care Hospital Payments in 120 Days Preceding Home Health Episode	-2.3995E-07	7.04541E-07	\$214.01	\$316.43	\$381.19	\$367.96	-0.000025	-0.000009
	Rehabilitation Facility Payments in 120 Days Preceding Home Health Episode	0.00000199	0.00000329	\$799.97	\$725.61	\$923.77	\$863.94	-0.000148	-0.000197
	Medicare SNF Payments in 120 Days Preceding Home Health Episode	0.00000915	0.00000131	\$1,164.79	\$1,620.68	\$2,151.44	\$2,253.75	0.004171	0.000134