



Patient Safety Indicators (PSI) Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Prepared for:

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

The following table summarizes all of the revisions made to the Patient Safety Indicators (PSI) software, software documentation and the technical specification documents since the original release of the Version 2.1 software and documents in March 2003. It also reflects changes to indicator specifications based on updates to ICD-9-CM and MS-DRG codes through Fiscal Year 2012 (effective October 1, 2011) and incorporates coding updates that were implemented in all versions of the PSI software (both SAS and Windows).

The table lists the version and revision number, the date the revision was made, the component(s) affected by the change and a short summary of the changes that were made. The nature of the change is categorized into three types:

- 1) fiscal year (FY) coding change: occurs because of coding changes to the most recent fiscal year codes dictated by the Centers for Medicare and Medicaid Services,
- 2) specification/calculation change: may impact the measure result that is something other than the most recent fiscal year coding change, and
- 3) software/documentation change: alteration to the software code to run the results as the measure is specified in the most effective manner or to the documentation to clarify the measure intent or functionality.

For convenience and ease of use, the changes are listed in reverse chronological order with the most recent changes appearing first in the table. Please note that changes prior to version 4.4 are not classified according to the currently defined types of changes. In addition, each type of change has varied shading to enhance readability.

All changes noted below have been incorporated into the software programming code, software documentation and the PSI technical specifications. With this software update, the PSI software now incorporates ICD-9-CM and DRG codes valid from October 1, 1994 through September 30, 2012.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.4	March 2012	All Area PSI	Specification/Cal culation	Updated data are used for population estimates (i.e., through 2012). The population data are used to calculate the denominator for the area-level QI. The comparative data tables have been updated using Version 4.4 of the software. Because the risk adjustment models and reference population have not changed for Version 4.4, the Risk Adjustment Coefficients remain as they were in Version 4.3.
V4.4	March 2012	Death in Low- Mortality DRGs (PSI 2)	Fiscal Year Coding	<p>1. Add denominator exclusions for immunocompromised state diagnoses or procedures (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>2. Add denominator exclusions for diagnosis of trauma (PSI Appendix G)</p> <p>Add code: 80844 PELV FX-CL W/O PLV DISRP 80854 PELV FX-OPEN W/O PELV DIS</p>

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V4.4	March 2012	Pressure Ulcer Rate (PSI 3)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusions for operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>2. Add surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusions for operating room procedure codes (PSI Appendix A) See Appendix F in this document for specific codes.</p> <p>2. Add denominator exclusions for FTR 3 Pneumonia and FTR 4 Sepsis for immunocompromised state diagnoses or procedures (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>3. Remove principal diagnosis denominator exclusion from FTR 5 Shock or Cardiac Arrest for diagnosis of shock or cardiac arrest. <i>Please note that this code set also serves as a denominator inclusion when the code is a secondary diagnosis.</i> Remove code: 9980 POSTOPERATIVE SHOCK</p> <p>4. Add principal diagnosis denominator exclusion to FTR 2 DVT/PE for pulmonary embolism and deep vein thrombosis diagnosis. <i>Please note that this code set also serves as a denominator inclusion when the code is a secondary diagnosis.</i></p> <p>Add code: 41513 SADDLE EMBOL PULMON ART</p>

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V4.4	March 2012	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4)	Fiscal Year Coding	<p>5. Add principal diagnosis denominator exclusion to FTR 3 Pneumonia for diagnosis of influenza. <i>Please note that this code set also serves as a denominator inclusion when the code is a secondary diagnosis.</i></p> <p>Add code: 48881 FLU DT NVL A VRS W PNEU 48882 FLU DT NVL A W OTH RESP 48889 FLU DT NOVEL A W OTH MAN</p> <p>6. Add denominator exclusions to FTR 4 Sepsis for diagnosis of infection diagnosis codes (PSI Appendix F)</p> <p>Add code: 04141 SHGA TXN-PRODUCE E.COLI 04142 SHGA TXN PROD E.COLI NEC 04143 SHGA TXN PROD E.COLI NOS 04149 E.COLI INFECTION NEC/NOS 53901 INF D/T GASTRC BAND PROC 53981 INF D/T OT BARIATRC PROC 59681 INFECTION OF CYSTOSTOMY 99802 POSTOP SHOCK, SEPTIC 99932 BLOOD INF DT CEN VEN CTH 99933 LCL INF DET CEN VEN CTH 99934 AC INF FOL TRANS,INF BLD</p>

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V4.4	March 2012	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4)	Fiscal Year Coding	<p>7. Remove/add principal diagnosis denominator exclusion from FTR 4 Sepsis. <i>Please note that this code set also serves as a denominator inclusion when the code is a secondary diagnosis.</i></p> <p>Remove code: 9980 POSTOPERATIVE SHOCK</p> <p>Add code: 99800 POSTOPERATIVE SHOCK, NOS 99802 POSTOP SHOCK, SEPTIC</p> <p>8. Add principal diagnosis denominator exclusions to FTR 5 Shock or Cardiac Arrest for diagnosis of shock or cardiac arrest. <i>Please note that this code set also serves as a denominator inclusion when the code is a secondary diagnosis.</i></p> <p>Add code: 99800 POSTOPERATIVE SHOCK, NOS 99801 POSTOP SHOCK, CARDIOGENIC 99802 POSTOP SHOCK, SEPTIC 99809 POSTOP SHOCK, OTHER 99941 ANAPHYL D/T ADM BLD/PROD 99942 ANAPHYL REACT D/T VACCIN 99949 ANAPH REACT D/T OT SERUM</p>

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V4.4	March 2102	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4)	Fiscal Year Coding	<p>9. Add denominator exclusions to FTR 5 Shock or Cardiac Arrest and FTR 6 GI Hemorrhage/Acute Ulcer for Trauma Diagnosis Codes (PSI Appendix G)</p> <p>Add code: 80844 PELV FX-CL W/O PLV DISRP 80854 PELV FX-OPEN W/O PELV DIS</p> <p>10. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>
V4.4	March 2012	Volume of Foreign Body Lef During Procedure (PSI 5)	Fiscal Year Coding	<p>Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.4	March 2012	Iatrogenic Pneumothorax Rate (PSI 6)	Fiscal Year Coding	<p>1. Add denominator exclusions for cardiac procedures</p> <p>Add code: 3506 TRNSAPCL REP AORTC VALVE 3508 TRNSAPCL REP PULM VALVE</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Central Venous Catheter-Related Blood Stream Infections (PSI 7)	Fiscal Year Coding	<p>1. Add numerator definition for diagnosis of central venous catheter-related blood stream infections diagnosed on or after October 1, 2011.</p> <p>Add code: 99932 BLOOD INF DT CEN VEN CTH</p> <p>2. Add denominator exclusions for immunocompromised state diagnosis or procedures (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>3. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Postoperative Hip Fracture Rate (PSI 8)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusions to operating room procedure codes (PSI Appendix A) See Appendix F in this document for specific codes.</p> <p>2. Add denominator exclusions for diagnosis of delirium or other psychoses</p> <p>Add code: 29420 DEMEN NOS W/O BEHV DSTRB 29421 DEMEN NOS W BEHAV DISTRB</p> <p>3. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p> <p>4. Add denominator exclusions for diagnosis of trauma (PSI Appendix G) Add code: 808.44 PELV FX-CL W/O PLV DISRP 808.54 PELV FX-OPEN W/O PELV DIS</p>

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V4.4	March 2012	Postoperative Hemorrhage or Hematoma Rate (PSI 9)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusions to operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code:</p> <p>016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Postoperative Physiologic and Metabolic Derangement Rate (PSI 10)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusions to operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>2. Add denominator exclusions for diagnosis of shock</p> <p>Add code: 99800 POSTOPERATIVE SHOCK, NOS 99801 POSTOP SHOCK,CARDIOGENIC 99802 POSTOP SHOCK, SEPTIC 99809 POSTOP SHOCK, OTHER 99941 ANAPHYL D/T ADM BLD/PROD 99942 ANAPHYL REACT D/T VACCIN 99949 ANAPH REACT D/T OT SERUM</p> <p>3. Remove denominator exclusions for diagnosis of shock</p> <p>Remove code: 9980 POSTOPERATIVE SHOCK</p> <p>4. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Postoperative Respiratory Failure Rate (PSI 11)	Fiscal Year Coding	<p>1. Add numerator inclusions for diagnosis of acute respiratory failure</p> <p>Add code: 51851 AC RESP FLR FOL TRMA/SRG 51853 AC/CHR RSP FLR FOL TR/SG</p> <p>2. Remove inclusions for diagnosis of acute respiratory failure</p> <p>Remove code: 51881 ACUTE RESPIRATORY FAILURE 51884 ACUTE & CHRONC RESP FAIL</p> <p>3. Add/Remove denominator inclusions for operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>4. Add denominator exclusions for diagnosis of degenerative neurological disorder</p> <p>Add code: 31081 PSEUDOBULBAR AFFECT 31089 NONPSYCH MNTL DISORD NEC 3316 CORTICOBASAL DEGENERATION 34882 BRAIN DEATH</p> <p>5. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p>

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V4.4	March 2012	Postoperative Respiratory Failure Rate (PSI 11)	Fiscal Year Coding	<p>6. Add denominator exclusions for diagnosis of neuromuscular disorders</p> <p>Add code: 35830 LAMBERT-EATON SYND NOS 35831 LAMBERT-EATON SYND NEOPL 572 SKIN DEBRIDEMENT W/O CC/MCC</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Postoperative Pulmonary Embolism or DVT Rate (PSI 12)	Fiscal Year Coding	<p>1. Add numerator inclusion for diagnosis of pulmonary embolism and deep vein thrombosis</p> <p>Add code: 41513 SADDLE EMBOL PULMON ART</p> <p>2. Add/Remove denominator inclusions for operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>3. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Postoperative Sepsis Rate (PSI 13)	Fiscal Year Coding	<p>1. Add/Remove denominator inclusion for operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p> <p>3. Add denominator exclusions for diagnosis of infection (PSI Appendix F)</p> <p>Add code: 04141 SHIGA TXN-PRODUCE E.COLI 04142 SHGA TXN PROD E.COLI NEC 04143 SHGA TXN PROD E.COLI NOS 04149 E.COLI INFECTION NEC/NOS 53901 INF D/T GASTRC BAND PROC 53981 INF D/T OT BARIATRC PROC 59681 INTESTINAL FISTULA 99802 POSTOP SHOCK, SEPTIC 99932 BLOOD INF DT CEN VEN CTH 99933 LCL INF DET CEN VEN CTH 99934 AC INF FOL TRANS,INF BLD</p>

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				<p>4. Add denominators exclusion for immunocompromised state diagnosis or procedures (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL 99800 POSTOPERATIVE SHOCK, NOS 99802 POSTOP SHOCK,SEPTIC</p> <p>5. Remove denominator exclusion from diagnosis of immunocompromised state diagnosis or procedures (PSI Appendix I)</p> <p>Remove code: 9980 POSTOPERATIVE SHOCK</p> <p>6. Add numerator inclusions for diagnosis of sepsis 99800 POSTOPERATIVE SHOCK, NOS 99802 POSTOP SHOCK, SEPTIC</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.4	March 2012	Postoperative Wound Dehiscence Rate (PSI 14)	Fiscal Year Coding	<p>1. Add denominator inclusion for abdominopelvic procedures</p> <p>Add code: 4382 LAP VERTICAL GASTRECTOMY</p> <p>2. Add denominator exclusions to diagnosis of immunocompromised state (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p>
V4.4	March 2012	Accidental Puncture or Laceration (PSI 15)	Fiscal Year Coding	<p>Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Transfusion Reaction Volume (PSI 16)	Fiscal Year Coding	Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E) Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC
V4.4	March 2012	Rate of Foreign Body Left During Procedure (PSI 21)	Fiscal Year Coding	Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E) Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC

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V4.4	March 2012	Iatrogenic Pneumothorax Rate (PSI 22)	Fiscal Year Coding	<p>1. Add denominator exclusions for cardiac procedures</p> <p>Add code: 3506 TRNSAPCL REP AORTC VALVE 3508 TRNSAPCL REP PULM VALVE</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

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V4.4	March 2012	Central Venous Catheter-Related Blood Stream Infections (PSI 23)	Fiscal Year Coding	<p>1. Add numerator definition for diagnosis of central venous catheter-related blood stream infections diagnosed on or after October 1, 2011.</p> <p>Code: 999.31 OTH/UNS INF-CEN VEN CATH 999.32 BLOOD INF DT CEN VEN CTH</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p> <p>3. Add exclusions for immunocompromised state diagnosis or procedures (PSI Appendix I)</p> <p>Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p>

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V4.4	March 2012	Postoperative Wound Dehiscence Rate (PSI 24)	Fiscal Year Coding	Add exclusions for immunocompromised state diagnosis or procedures (PSI Appendix I) Add code: 28411 ANTIN CHEMO INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL
V4.4	March 2012	Accidental Puncture of Laceration Rate (PSI 25)	Fiscal Year Coding	Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E) Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC
V4.4	March 2012	Transfusion Reaction Rate (PSI 26)	Fiscal Year Coding	Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E) Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC

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V4.4	March 2012	Rate of Complications of Anesthesia (EXP 1)	Fiscal Year Coding	<p>1. Add and remove operating room procedure codes (PSI Appendix A)</p> <p>See Appendix F in this document for specific codes.</p> <p>2. Add denominator inclusion for surgical discharge MS-DRGs (PSI Appendix E)</p> <p>Add code: 016 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 017 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>
V4.4	March 2012	Software	Software/ Documentation	Revised the data step of creating permanent data set containing all records which are deleted from the analysis because key variable values having missing data
V4.4	March 2012	Software	Software/ Documentation	Both SAS and WinQI v4.3 were improperly truncating the (Observed rate)/(Expected rate) ratio and associated upper confidence bound (95%) to be ≤ 1.0 in cases where a stratification of the rates was being implemented. This issue was fixed in WinQI and partially fixed in SAS so that this truncation only applies in cases where no stratification is being performed. In SAS, (Observed rate)/(Expected rate) ratio upper confidence bounds for provider-level, non-risk-adjusted IQI and provider-level, non-risk-adjusted PSI are still truncated to be ≤ 1.0 in cases where a stratification of the rates is being implemented. This issue will be fixed in v4.5. Users may obtain the upper confidence bound (95%) using the following formula: upper confidence bound = $(2 * \text{ratio}) - \text{lower confidence bound}$.

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V4.4	March 2012	Software	Software/ Documentation	SAS v4.3 did not properly handle stratifications where the user requested a two-way stratification that overlapped with a one-way stratification (e.g., Age-by-Gender at the same time as Age by itself). This issue was in fixed in v4.4 of SAS.
V4.4	March 2012	Software	Software/ Documentation	PSSASA2.SAS program was revised to include denominator adjustment when the population count for certain combination of strata was zero.
V4.4	March 2012	Software	Software/ Documentation	Minor SAS versus WinQI coding differences were corrected in the implementation of the technical specifications for PSI-03.
V4.4	March 2012	Software	Software/ Documentation	PSI# 07: Modified inclusion logic to include time dependent logic to discharges before October 1, 2011 and after October 1, 2011 for central line-associated blood stream infection diagnosis code
V4.4	March 2012	Software	Software/ Documentation	PSI# 23: Modified inclusion logic to include time dependent logic to discharges before October 1, 2011 and after October 1, 2011 for central line-associated blood stream infection diagnosis code
V4.4	March 2012	Software	Software/ Documentation	PSI #11: Modified the order of denominator exclusion/inclusions and numerator flags.

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.4	March 2012	Software	Software/ Documentation	Added the major operating room procedure codes (\$ORPROC) of FY2011 which were not included in V4.3 0120 IMP/REPL BRAIN PULSE GEN 0129 REM BRAIN PULSE GENERATR 3227 BRNC THRMPLSTYABLT MSCL 3597 PERC MTRL VLV REPR W IMP 3737 EXC/DEST HRT LES THRSPC 3981 IMP CRTD SINUS STMTOTL 3982 IMP/REP CRTD SINUS LEAD 3983 IMP/REP CRTD SINUS GNRTR 3984 REV CRTD SINUS STM LEADS 3985 REV CRTD SINUS PULSE GEN 3986 REM CRTD SINUS STM TOTL 3987 REM CRTD SINUS STM LEAD 3988 REM CRTD SINUS PULSE GEN 3989 OTH CARTD BODY/SINUS OP 8188 RVRS TOTL SHLDR REPLACMT 8494 INS STRN FIX W RGD PLATE 8555 FAT GRAFT TO BREAST 8687 FAT GRFT SKIN/SUBQ TISS 8690 EXT FAT FOR GRFT/BANKING
V4.4	March 2012	Software	Software/ Documentation	Changes were made to the SAS and WinQI software to implement a re-estimation of the signal variance in order to correct the fact that the smoothed rates in v4.3 of the software were constant for all providers for four indicators (PSI-08).
V4.4	March 2012	Software	Software/ Documentation	The WinQI v4.3 patient-level report showed incorrect POA exclusions in some cases. This issue was fixed in v4.4 of WinQI.
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 did not properly implement a user selection of year 2010 during report generation. This issue was fixed in v4.4 of WinQI.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 was not properly calculating quarterly rates when requested by the user. This issue was fixed in v4.4 of WinQI.
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 and v4.4 do not check for a possible issue with user-defined composite weighting – users must set weights for all possible individual indicators, including zero weights for indicators that are not to be included in the composite. This requirement has been included in the software documentation.
V4.4	March 2012	Software	Software/ Documentation	SAS and WinQI v4.4 remain 32-bit applications developed on a Windows XP operating system. Some limited testing has been performed to ensure that these applications will run successfully under a 64-bit, Windows 7 environment. One additional installation requirement related to administrator rights has been included in the software documentation.
V4.4	March 2012	Software	Software/ Documentation	SAS v4.3 did not properly handle stratifications where the user requested a two-way stratification that overlapped with a one-way stratification (e.g., Age-by-Gender at the same time as Age by itself). This issue was in fixed in v4.4 of SAS.
V4.3	April 29, 2010	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4) Denominator (Exclusion, influenza)	Coding	Add to denominator exclusion for diagnosis of influenza (FTR #3) 48801 FLU DR IDEN AVIAN W PNEU 48802 FLU DT AVIAN W OTH RESP 48809 FLU DT AVIAN MANFEST NEC 48811 FLU DT H1N1 FLU W PNEU 48812 FLU DT H1N1 W OTH RESP 48819 FLU DT H1N1 MANFEST NEC

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.3	April 29, 2010	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, thoracic procedure)	Coding	Add to denominator exclusion for thoracic procedure 3227 BRNC THRMPLSTY, ABLT MSCL
V4.3	April 29, 2010	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, cardiac procedure)	Coding	Add to denominator exclusion for cardiac procedure 3597 PERC MTRL VLV REPR W IMP 3737 EXC/DEST HRT LES, THRSPC
V4.3	April 29, 2010	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, seizure)	Coding	Add to denominator exclusion for diagnosis of seizure 78033 POST TRAUMATIC SEIZURES

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.3	April 29, 2010	Transfusion Reaction (PSI 16) Numerator (Inclusion, transfusion reaction)	Coding	Add to numerator inclusion for diagnosis of transfusion reaction 99960 ABO INCOMPAT REAC NOS 99961 ABO INCOMP/HTR NEC 99962 ABO INCOMPAT/ACUTE HTR 99963 ABO INCOMPAT/DELAY HTR 99969 ABO INCOMPAT REACTN NEC 99970 RH INCOMPAT REACTION NOS 99971 RH INCOMP/HTR NEC 99972 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/DELAY HTR 99974 RH INCOMPAT REACTION NEC
V4.3	April 29, 2010	AHRQ Comorbidity Software	Coding	Add codes for NEURO 78033 POST TRAUMATIC SEIZURES
V4.3	April 29, 2010	AHRQ Comorbidity Software	Coding	Add codes for OBESE 27803 OBESITY HYPOVENT SYND V8541 BMI 40.0-44.9, ADULT V8542 BMI 45.0-49.9, ADULT V8453 BMI 50.0-59.9, ADULT V8544 BMI 60.0-69.9, ADULT V8545 BMI 70 AND OVER, ADULT
V4.3	April 29, 2010	Multiple Surgical MS-DRG	Coding	Add to numerator inclusion for Surgical Diagnosis Related Group 014 ALLOGENIC BONE MARROR TRANSPLANT 015 AUTOLOGOUS BONE MARROW TRANSPLANT
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	Updated ICD-9-CM codes for FY2011 and made specification code changes (see FY2011 Coding and Specification Changes)

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #2: Removed numerator inclusion for Low Mortality Diagnosis Related Group (DRG121 & 122, MS-DRG 280, 281, 282). Added denominator exclusions for missing discharge disposition or transfer to acute care facility.
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #3: Modified denominator exclusion for diagnosis of stage I and II pressure ulcers to capture potential diagnosis of stage III or IV ulcers.
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #4: Removed numerator inclusion for diagnosis of deep vein thrombosis (451.9, 453.8, 453.9). Added denominator exclusions for lung cancer procedures (32.39, 32.49, 32.59).
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #6 and 22: Added denominator exclusion for thoracic procedures (43.5, 43.99, 44.67). Removed denominator exclusion for thoracic procedures (33.26, 33.28, 34.24, 77.81, 77.91)
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #11: Added denominator exclusion for esophageal resection procedures (MDC 4), lung cancer procedure (32.39, 32.49, 32.59), ENT/neck procedures (CCS 33), degenerative neurological disorder (CCS 653)
V4.3	April 29, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	PSI #12: Removed numerator inclusion for diagnosis of deep vein thrombosis (451.9, 453.8, 453.9)
V4.3	June 30, 2011	Software (SAS and WinQI) and Documentation	Software/ Documents	Surgical DRG: Added numerator inclusion codes 014 and 015 which were previously assigned to 009.
V4.3	June 30, 2011	Guide	Software/ Documents	Revised and updated all sections of the guide document to reflect current state of indicators, software and body of evidence.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Death in Low Mortality DRGs (PSI 2) Denominator (Exclusion, cancer)	Coding	Add code: 209.30 Malignant poorly differentiated neuroendocrine carcinoma, any site 209.31 Merkel cell carcinoma of the face 209.32 Merkel cell carcinoma of the scalp and neck 209.33 Merkel cell carcinoma of the upper limb 209.34 Merkel cell carcinoma of the lower limb 209.35 Merkel cell carcinoma of the trunk 209.36 Merkel cell carcinoma of other sites 209.70 Secondary neuroendocrine tumor, unspecified site 209.71 Secondary neuroendocrine tumor of distant lymph nodes 209.72 Secondary neuroendocrine tumor of liver 209.73 Secondary neuroendocrine tumor of bone 209.74 Secondary neuroendocrine tumor of peritoneum 209.75 Secondary Merkel cell carcinoma 209.79 Secondary neuroendocrine tumor of other sites V10.90 Personal history of unspecified malignant neoplasm V10.91 Personal history of malignant neuroendocrine tumor
V4.2	September 30, 2010	Death in Low Mortality DRGs (PSI 2) Denominator (Exclusion, immunocompro mised)	Coding	279.41 Autoimmune lymphoproliferative syndrome ALPS 279.49 Autoimmune disease, not elsewhere classified

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Death in Low Mortality DRGs (PSI 2) Denominator (Exclusion, trauma)	Coding	813.46 Torus fracture of ulna 816.47 Torus fracture of radius and ulna
V4.2	September 30, 2010	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion,meta static cancer)	Coding	209.70 Secondary neuroendocrine tumor, unspecified site 209.71 Secondary neuroendocrine tumor of distant lymph nodes 209.72 Secondary neuroendocrine tumor of liver 209.73 Secondary neuroendocrine tumor of bone 209.74 Secondary neuroendocrine tumor of peritoneum 209.75 Secondary Merkel cell carcinoma 209.79 Secondary neuroendocrine tumor of other sites
V4.2	September 30, 2010	Postoperative Respiratory Failure (PSI 11) Denominator (Exclusion, neuromuscular disorders)	Coding	359.71 Inclusion body myositis IBM 359.79 Other inflammatory and immune myopathies, NEC
V4.2	September 30, 2010	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4) Denominator (Inclusion, renal failure)	Coding	Modify codes: 584.5 Acute kidney failure, tubr necr 584.6 Acute kidney failure, cort necr 584.7 Acute kidney failure, medu necr 584.8 Acute kidney failure NEC 584.9 Acute kidney failure NOS

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Death Among Surgical Inpatients with Serious Treatable Complications (PSI 4) Denominator (Exclusion, infection)	Coding	Modify codes: 670.00 Major puerperal infection, unspecified 670.02 Major puerperal infection, NOS-del p/p 670.04 Major puerperal infection NOS-p/p Add codes: 670.10 Puerperal endometritis-unsp 670.12 Puerperal endometritis del w p/p 670.14 Puerperal endometritis-postpart 670.20 Puerperal sepsis-unsp 670.22 Puerperal sepsis-del w p/p 670.24 Puerperal sepsis-postpart 670.30 Puerperal septic thrombophlebitis-unsp 670.32 Puerperal septic thrombophlebitis-del w p/p 670.34 Puerperal septic thrombophlebitis-postpart 670.80 Major puerperal infection NEC-suspec 670.82 Major puerperal infection NEC-dl w p/p 670.84 Major puerperal infection NEC-p/p
V4.2	September 30, 2010	Postoperative Physiologic and Metabolic Derangements (PSI 10) Denominator (Inclusion, PO physiological derangement)	Coding	Modify codes: 584.5 Acute kidney failure, tubr necr 584.6 Acute kidney failure, cort necr 584.7 Acute kidney failure, medu necr 584.8 Acute kidney failure NEC 584.9 Acute kidney failure NOS

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Pressure Ulcer (PSI 3) Denominator (Exclusion, hemi-, para- or quadriplegia)	Coding	Add codes: 768.70 Hypoxic-ischemic encephalopathy, unspecified 768.72 Moderate hypoxic-ischemic encephalopathy 768.73 Severe hypoxic-ischemic encephalopathy
V4.2	September 30, 2010	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, poisoning)	Coding	Add codes: 969.00 Poisoning by antidepressant, unspecified 969.01 Poisoning by MAOI 969.02 Poisoning by SSNRI 969.03 Poisoning by SSRI 969.04 Poisoning by tetracyclics 969.05 Poisoning by tricyclics 969.09 Poisoning by other antidepressants 969.70 Poisoning by psychostimulant, unspec 969.71 Poisoning by caffeine 969.72 Poisoning by amphetamines/methamph 969.73 Poisoning by methylphenidate 969.79 Poisoning by other psychostimulants
V4.2	September 30, 2010	Multiple Indicators	Coding	Add MS-DRG: 265 Acid lead procedures

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Multiple Indicators (Comorbidity Changes)	Coding	416.2 Chronic pulmonary embolism 768.70 Hypoxic-ischemic encephalopathy, unspecified 768.71 Mild hypoxic-ischemic encephalopathy 768.72 Moderate hypoxic-ischemic encephalopathy 768.73 Severe hypoxic-ischemic encephalopathy 209.70 Secondary neuroendocrine tumor, unspecified site 209.71 Secondary neuroendocrine tumor of distant lymph nodes 209.72 Secondary neuroendocrine tumor of liver 209.73 Secondary neuroendocrine tumor of bone 209.74 Secondary neuroendocrine tumor of peritoneum 209.75 Merkel cell carcinoma, unknown primary site 209.79 Secondary neuroendocrine tumor of other sites 209.31 Merkel carcinoma of the face 209.32 Merkel cell carcinoma of the scalp and neck 209.33 Merkel cell carcinoma of the upper limb 209.34 Merkel cell carcinoma of the lower limb 209.35 Merkel cell carcinoma of the trunk 209.36 Merkel cell carcinoma of other sites

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Multiple Indicators	Coding	Add new operating procedure codes: 1751 Implant CCM, total system 1752 Implant CCM pulse gentr 1761 LITT lesn brain, guidance 1762 LITT les hd/nck, guidance 1763 LITT lesn liver, guidance 1769 LITT lesn, guide oth/NOS 3975 Endo emb hd/nk, bare coil 3976 Endo em hed/nk, bioac coil 4850 ABDPERNEAL RES RECTM NOS 8570 TOTL RECONSTC BREAST NOS Modify: 9227 RADIOACTIVE ELEM IMPLANT 3760 Imp Bivn Ext Hrt Ast Sys 4840 Pull-thru Res Rectum NOS 3768 PERCUTAN HRT ASSIST SYST

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.2	September 30, 2010	Multiple Indicators	Coding	Remove operating procedure codes: 0044 PROC-VESSEL BIFURCATION 0074 HIP REPL SURFMETAL/POLY 0075 HIP REP SURFMETAL/METAL 0076 HIP REP SURFCERMC/CERMC 0077 HIP REPL SURF- CERMC/POLY 0126 INS CATHCRANIAL CAVITY 0127 REM CATHCRANIAL CAVITY 1741 OPEN ROBOTIC ASSIST PROC 1742 LAP ROBOTIC ASSIST PROC 1743 PERC ROBOTIC ASSIST PROC 1744 ENDO ROBOTIC ASSIST PROC 1745 THORACO ROBOTIC AST PROC 1749 ROBOTIC AST PROC NEC/NOS 3372 ENDO PULM ARWY FLOW MSMT 3736 EXC LEFT A TRAIL APPENDAG 3790 INS LEFT ATR APPEND DEV 3823 INTRAVASCLR SPECTROSCOPY 7094 INSERT BIOLOGICAL GRAFT 7095 INSERT SYNTH GRAFT/PROST 8472 APP EXT FIX DEVRING SYS 8473 APP HYBRID EXT FIX DEV
V4.2	September 30, 2010	Software (SAS and WinQI) and Documentation	Software/ Documents	Updated ICD-9-CM and DRG codes for FY2010.
V4.1a	July 2, 2010	Software (SAS only) and Documentation	Software/ Documents	PSI #08 – Removed the following diagnosis codes from the POISONING exclusion set: 96561-POIS-PROPRIONIC ACID DERV and 96569-POISON-ANTHREUMATIC NEC.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.1	December 2, 2009	Documentation	Software/ Documents	PSI #17 – Added NOTE to documentation advising that this indicator is calculated by the PDI SAS module because it is based on pediatric discharges.
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #1 – Complications of Anesthesia – removed this indicator from the Patient Safety Indicators (see the AHRQ QI Comparative Reporting Guide for more information). Results for this indicator (based on V 3.2 specifications) can be viewed in Windows application under the Experimental tab.
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #3 – Pressure Ulcer (formerly Decubitus Ulcer) – added diagnosis code to denominator exclusion for hemi- and paraplegia (334.1 hereditary spastic paraplegia)
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #6 and #22 – Iatrogenic Pneumothorax – 1) replaced the DRG denominator exclusion for cardiac surgery with procedure code denominator exclusion for cardiac procedures; 2) added procedure codes to denominator exclusion for thoracic procedures
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #7 and #21 – Central Venous Catheter-Related Bloodstream Infection – 1) renamed the indicator from “Selected infections due to medical care”; 2) applied ICD-9-CM codes 996.62 and 999.3 Version 24 or before and 999.31 Version 25 and after
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #8 – Postoperative hip fracture – 1) added procedure codes to the denominator exclusion for hip fracture repair; 2) added diagnosis codes to denominator exclusion for stroke; 3) added diagnosis codes to denominator exclusion for coma; 4) removed diagnosis codes from denominator exclusion for poisonings 5) removed diagnosis codes from denominator exclusion for delirium and other psychoses

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V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #10 – Postoperative Physiologic and Metabolic Derangements – replaced the DRG denominator exclusion for cardiac arrhythmia with diagnosis code denominator exclusion for cardiac arrhythmia; 2) added diagnosis codes to denominator exclusion for chronic kidney disease; 3) added diagnosis codes to denominator exclusion for hemorrhage
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #11 – Postoperative respiratory failure – 1) added denominator exclusion for craniofacial anomalies with 1) a procedure code for laryngeal or pharyngeal surgery or 2) a procedure on face and a diagnosis code of craniofacial abnormalities
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #13 – Postoperative sepsis – 1) remove diagnosis code (785.59 Shock without mention of trauma, other) from numerator inclusion for sepsis for discharges after 2004Q4 (effective October 1, 2004)
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Multiple – Infection – 1) removed diagnosis codes for non-bacterial infections from denominator exclusion for infection; 2) added diagnosis code to denominator exclusion for infection (078.3 CAT-SCRATCH DISEASE)
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #17 – Birth Trauma – 1) added code to numerator (7675 FACIAL NERVE INJ-BIRTH); 2) dropped code from numerator (7679 BIRTH TRAUMA NOS); 3) Added exclusion for any diagnosis of birth weight less than 2000g; 4) Added exclusion for any diagnosis of Injury to Brachial Plexus (7676 BRACH PLEXUS INJ-BIRTH); 5) Added exclusion for any diagnosis of Osteogenesis Imperfecta (75651 OSTEOGENESIS IMPERFECTA)
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #18 – OB Trauma – with Instrumentation – 1) removed procedure code inclusion criteria; 2) Included both CMS-DRG and MS-DRG inclusion criteria

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #19 – OB Trauma – without Instrumentation – 1) removed procedure code inclusion criteria; 2) Included both CMS-DRG and MS-DRG inclusion criteria
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	PSI #20 – OB Trauma – removed this indicator from the Patient Safety Indicators (See the AHRQ QI Comparative Reporting Guide for more information) Results for this indicator (based on V 3.2 specifications) can be viewed in Windows application under the Experimental tab.
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Multiple – Major Operating Room Procedures – removed selected procedure codes from the denominator inclusion for major operating room procedures
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Medical DRGs – For discharges after 2007Q4 (effective October 1, 2007), replaced the DRG denominator inclusion for medical discharges with the MS-DRG denominator inclusion for medical discharges.
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Surgical DRGs – For discharges after 2007Q4 (effective October 1, 2007).replaced the DRG denominator inclusion for surgical discharges with the MS-DRG denominator inclusion for surgical discharges
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Multiple Indicators – removed DRG denominator exclusions for cancer, trauma, infection and immunocompromised state

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	June 30, 2009	Software (SAS and Windows) and Documentation	Software/ Documents	Multiple Indicators – Present on Admission methodology change. POA data element is required. For users without POA data, the model will incorporate the likelihood that the numerator event or the co-morbidity was present on admission. For users with POA data, the model will be based on that data element.
V4.0	June 30,2009	Software (SAS and Windows) and Documentation	Software/ Documents	Implement UB-04 – The UB-04 (effective October 1, 2007) changes were implemented including new data elements for point-of-origin and present on admission
V4.0	June 30,2009	Software (SAS and Windows) and Documentation	Software/ Documents	Update Benchmarking Data to 2007 – used data from the 2007 SID for computation of benchmarks
V4.0	February 24, 2009	Pressure Ulcer (PSI 3) Denominator (Exclusion, diagnosis of Stage I or II)	Coding	Add denominator exclusion for diagnosis of Stage I or Stage II (\$DECUBVD) Add code: 707.20 PRESSURE ULCER, STAGE NOS 707.21 PRESSURE ULCER, STAGE I 707.22 PRESSURE ULCER, STAGE II
V4.0	February 24, 2009	Death in Surgical Inpatients (PSI 4) Denominator (Inclusion, pneumonia)	Coding	Add diagnosis code to denominator inclusion for pneumonia (\$FTR3DX) Modify code: 482.41 Methicillin susceptible pneumonia due to Staphylococcus aureus Add code: 482.42 Methicillin resistant pneumonia due to Staphylococcus aureus

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Death in Surgical Inpatients (PSI 4) Denominator (Inclusion,sepsis)	Coding	Add diagnosis code to denominator inclusion for sepsis (\$FTR4DX) and denominator exclusion for sepsis (\$SEPTIID) Modify code: 038.11 Methicillin susceptible staphylococcus aureus septicemia Add code: 038.12 Methicillin resistant Staphylococcus aureus septicemia
V4.0	February 24, 2009	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, diaphragmatic surgery repair)	Coding	Add procedure codes to denominator exclusion for diaphragmatic surgery repair (\$DIAPHRP) Add code: 53.71 Laparoscopic repair of diaphragmatic hernia, abdominal approach 53.72 Other and open repair of diaphragmatic hernia, abdominal approach 53.75 Repair of diaphragmatic hernia, abdominal approach, NOS 55.83 Laparoscopic repair of diaphragmatic hernia, with thoracic approach 55.84 Other and open repair of diaphragmatic hernia, with thoracic approach
V4.0	February 24, 2009	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, pleural effusion)	Coding	Add diagnosis codes to denominator exclusion for pleural effusion (\$PLEURAD) Add code: 511.81 Malignant pleural effusion 511.89 Other specified forms of effusion, except tuberculosis
V4.0	February 24, 2009	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator	Coding	Replace the DRG denominator exclusion for cardiac surgery (\$CARSDSR) with a procedure code denominator exclusion for cardiac procedures (\$CARDSIP). See Table 1 in Appendix. Add code: 37.36 Excision or destruction of left atrial appendage (LAA) 37.55 Removal of internal biventricular heart replacement system 37.60 Implantation or insertion of biventricular external heart assist system

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, coma)	Coding	Add diagnosis codes to denominator exclusion for coma (\$COMAID) Add codes: 249.20 Secondary diabetes mellitus with hyperosmolarity, unspecified 249.21 Secondary diabetes mellitus with hyperosmolarity, uncontrolled 249.30 Secondary diabetes mellitus with other coma, unspecified 249.31 Secondary diabetes mellitus with other coma, uncontrolled

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, lymphoid malignancy)	Coding	Add diagnosis codes to denominator exclusion for lymphoid malignancy (\$LYMPHID) Add codes: 203.02 MULT MYELOMA IN RELAPSE 203.12 PLSM CEL LEUK IN RELAPSE 203.82 OTH IMNPRLF NEO-RELAPSE 204.02 ACT LYMP LEUK IN RELAPSE 204.12 CHR LYMP LEUK IN RELAPSE 204.22 SBAC LYM LEUK IN RELAPSE 204.82 OTH LYM LEUK IN RELAPSE 204.92 LYMP LEUK NOS RELAPSE 205.02 ACT MYEL LEUK IN RELAPSE 205.12 CHR MYEL LEUK IN RELAPSE 205.22 SBAC MYL LEUK IN RELAPSE 205.32 MYEL SARCOMA IN RELAPSE 205.82 OTH MYEL LEUK IN RELAPSE 205.92 MYEL LEUK NOS IN RELAPSE 206.02 ACT MONO LEUK IN RELAPSE 206.12 CHR MONO LEUK IN RELAPSE 206.22 SBAC MONO LEU IN RELAPSE 206.82 OTH MONO LEUK IN RELAPSE 206.92 MONO LEUK NOS RELAPSE 207.02 AC ERTH/ERYLK IN RELAPSE 207.12 CHR ERYTHRMIA IN RELAPSE 207.22 MGKRYCYT LEUK IN RELAPSE 207.82 OTH SPF LEUK IN RELAPSE 208.02 AC LEUK UNS CL RELAPSE 208.12 CH LEU UNS CL IN RELAPSE 208.22 SBAC LEU UNS CL-RELAPSE 208.82 OTH LEUK UNS CL-RELAPSE 208.92 LEUKEMIA NOS IN RELAPSE

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V4.0	February 24, 2009	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, syncope)	Coding	Add diagnosis codes to denominator exclusion for syncope (\$SYNCOID) Add codes: 337.01 Carotid sinus syndrome

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Metabolic and Physiologic Derangement (PSI 10) Denominator (Exclusion, diabetes)	Coding	Add diagnosis codes to denominator exclusion for diabetes (\$DIABEID) Add codes: 249.00 Secondary diabetes mellitus without mention of complication, not stated as controlled or unspecified 249.01 Secondary diabetes mellitus without mention of complication, uncontrolled 249.10 Secondary diabetes mellitus with ketoacidosis, unspecified 249.11 Secondary diabetes mellitus with ketoacidosis, uncontrolled 249.20 Secondary diabetes mellitus with hyperosmolarity, unspecified 249.21 Secondary diabetes mellitus with hyperosmolarity, uncontrolled 249.30 Secondary diabetes mellitus with other coma, unspecified 249.31 Secondary diabetes mellitus with other coma, uncontrolled 249.40 Secondary diabetes mellitus with renal manifestations, unspecified 249.41 Secondary diabetes mellitus with renal manifestations, uncontrolled 249.50 Secondary diabetes mellitus with ophthalmic manifestations, unspecified 249.51 Secondary diabetes mellitus with ophthalmic manifestations, uncontrolled 249.60 Secondary diabetes mellitus with neurological manifestations, unspecified 249.61 Secondary diabetes mellitus with neurological manifestations, uncontrolled 249.70 Secondary diabetes mellitus with peripheral circulatory manifestations, unspecified 249.71 Secondary diabetes mellitus with peripheral circulatory manifestations, uncontrolled 249.80 Secondary diabetes mellitus with other specified manifestations, unspecified 249.81 Secondary diabetes mellitus with other specified manifestations, uncontrolled 249.90 Secondary diabetes mellitus with unspecified manifestations, unspecified 249.91 Secondary diabetes mellitus with unspecified manifestations, uncontrolled

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Metabolic and Physiologic Derangement (PSI 10) Numerator (Inclusion, diabetes with ketoacidosis)	Coding	Add diagnosis codes to numerator inclusion for diabetes with ketoacidosis (\$PHYSIDA) Add codes: 249.10 Secondary diabetes mellitus with ketoacidosis, unspecified 249.11 Secondary diabetes mellitus with ketoacidosis, uncontrolled 249.20 Secondary diabetes mellitus with hyperosmolarity, unspecified 249.21 Secondary diabetes mellitus with hyperosmolarity, uncontrolled 249.30 Secondary diabetes mellitus with other coma, unspecified 249.31 Secondary diabetes mellitus with other coma, uncontrolled
V4.0	February 24, 2009	Postoperative Sepsis (PSI 13) Numerator (Inclusion, sepsis)	Coding	Add diagnosis code to numerator inclusion for sepsis (\$SEPTIID) Modify code: 038.11 Methicillin susceptible staphylococcus aureus septicemia Add code: 038.12 Methicillin resistant Staphylococcus aureus septicemia

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Wound Dehiscence (PSI 14 and 24) Denominator (Inclusion, abdominopelvic procedures)	Coding	Add procedure codes to denominator inclusion for abdominopelvic procedures (\$ABDOMIP) Add codes: 17.31 Laparoscopic multiple segmental resection of large intestine 17.32 Laparoscopic cecectomy 17.33 Laparoscopic right hemicolectomy 17.34 Laparoscopic resection of transverse colon 17.35 Laparoscopic left hemicolectomy 17.36 Laparoscopic sigmoidectomy 17.39 Other laparoscopic partial excision of large intestine 45.81 Laparoscopic total intra-abdominal colectomy 45.82 Open total intra-abdominal colectomy 45.83 Other and unspecified total intra-abdominal colectomy 48.40 Pull-through resection of rectum, not otherwise specified 48.43 Open pull-through resection of rectum 48.50 Abdominoperineal resection of the rectum, NOS 48.52 Open abdominoperineal resection of the rectum 48.59 Other abdominoperineal resection of the rectum 53.75 Repair of diaphragmatic hernia, abdominal approach, NOS
V4.0	February 24, 2009	Accidental Puncture or Laceration (PSI 15) Denominator (Inclusion, spinal surgeries)	Coding	Add procedure codes to denominator inclusion for spinal surgeries (\$SPINEP) Add codes: 80.53 Repair of the anulus fibrosus with graft or prosthesis 80.54 Other and unspecified repair of the anulus fibrosus

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Multiple Indicators Denominator (Exclusion, cancer)	Coding	Add diagnosis codes to denominator exclusion for cancer (\$CANCEID) Add codes: 203.02 MULT MYELOMA IN RELAPSE 203.12 PLSM CEL LEUK IN RELAPSE 203.82 OTH IMNPRLF NEO-RELAPSE 204.02 ACT LYMP LEUK IN RELAPSE 204.12 CHR LYMP LEUK IN RELAPSE 204.22 SBAC LYM LEUK IN RELAPSE 204.82 OTH LYM LEUK IN RELAPSE 204.92 LYMP LEUK NOS RELAPSE 205.02 ACT MYEL LEUK IN RELAPSE 205.12 CHR MYEL LEUK IN RELAPSE 205.22 SBAC MYL LEUK IN RELAPSE 205.32 MYEL SARCOMA IN RELAPSE 205.82 OTH MYEL LEUK IN RELAPSE 205.92 MYEL LEUK NOS IN RELAPSE 206.02 ACT MONO LEUK IN RELAPSE 206.12 CHR MONO LEUK IN RELAPSE 206.22 SBAC MONO LEU IN RELAPSE 206.82 OTH MONO LEUK IN RELAPSE 206.92 MONO LEUK NOS RELAPSE 207.02 AC ERT/ERYLK IN RELAPSE 207.12 CHR ERYTHRMIA IN RELAPSE 207.22 MGKRYCYT LEUK IN RELAPSE 207.82 OTH SPF LEUK IN RELAPSE 208.02 AC LEUK UNS CL RELAPSE 208.12 CH LEU UNS CL IN RELAPSE 208.22 SBAC LEU UNS CL-RELAPSE

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				208.82 OTH LEUK UNS CL-RELAPSE 208.92 LEUKEMIA NOS IN RELAPSE 209.00 MAL CRCNOID SM INTST NOS 209.01 MALIG CARCINOID DUODENUM 209.02 MALIG CARCINOID JEJUNUM 209.03 MALIG CARCINOID ILEUM 209.10 MAL CRCNOID LG INTST NOS 209.11 MALIG CARCINOID APPENDIX 209.12 MALIG CARCINOID CECUM 209.13 MAL CRCNOID ASCEND COLON 209.14 MAL CRCNOID TRANSV COLON 209.15 MAL CARCINOID DESC COLON 209.16 MAL CARCINOID SIG COLON 209.17 MALIG CARCINOID RECTUM 209.20 MAL CRCND PRIM SITE UNKN 209.21 MAL CARCINOID BRONC/LUNG 209.22 MALIG CARCINOID THYMUS 209.23 MALIG CARCINOID STOMACH 209.24 MALIG CARCINOID KIDNEY 209.25 MAL CARCNOID FOREGUT NOS 209.26 MAL CARCINOID MIDGUT NOS 209.27 MAL CARCNOID HINDGUT NOS 209.29 MALIG CARCINOID OTH SITE

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Multiple Indicators Denominator (Exclusion, immunocompro mised)	Coding	Add diagnosis codes to denominator exclusion for immuno-compromised (\$IMMUNID) Add codes: 199.2 Malignant neoplasm associated with transplanted organ 238.77 Neoplasm of uncertain behavior, post-transplant lymphoproliferative disorder (PTLD) 238.79 Neoplasm of uncertain behavior, other lymphatic and hematopoietic tissues 279.50 Graft-versus-host disease unspecified 279.51 Acute graft-versus-host disease 279.52 Chronic graft-versus-host disease 279.53 Acute on chronic graft-versus-host disease V45.11 Renal dialysis status

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Multiple Indicators Denominator (Exclusion, infection)	Coding	Add diagnosis codes to denominator exclusion for infection (\$INFECID) Modify codes; 038.11 Methicillin susceptible staphylococcus aureus septicemia 041.11 Methicillin susceptible staphylococcus aureus 482.41 Methicillin susceptible pneumonia due to staphylococcus aureus Add codes: 038.12 Methicillin resistant Staphylococcus aureus septicemia 041.12 Methicillin resistant Staphylococcus aureus (MRSA) 482.42 Methicillin resistant pneumonia due to staphylococcus aureus 707.20 Pressure ulcer unspecified stage 707.22 Pressure ulcer stage II 707.23 Pressure ulcer stage III 707.24 Pressure ulcer stage IV 777.50 Necrotizing enterocolitis in newborn, unspecified 777.51 Stage I necrotizing enterocolitis in newborn 777.52 Stage II necrotizing enterocolitis in newborn 777.53 Stage III necrotizing enterocolitis in newborn Delete codes (for discharges after 2008Q4 effective October 1, 2008): 707.00 PRESSURE ULCER, SITE NOS 707.01 PRESSURE ULCER, ELBOW 707.02 PRESSURE ULCER, UPR BACK 707.03 PRESSURE ULCER, LOW BACK 707.04 PRESSURE ULCER, HIP 707.05 PRESSURE ULCER, BUTTOCK 707.06 PRESSURE ULCER, ANKLE 707.07 PRESSURE ULCER, HEEL 707.09 PRESSURE ULCER, SITE NEC

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Complications of Anesthesia (PSI 1)	Indicator Specification	Remove this indicator from the Patient Safety Indicators and assign it to a new module of Experimental Indicators
V4.0	February 24, 2009	Pressure Ulcer (PSI 3) Denominator (Exclusion, hemi- and paraplegia)	Indicator Specification	Add diagnosis code to denominator exclusion for hemi- and paraplegia (\$HEMIPID) Add code: 334.1 Hereditary spastic paraplegia
V4.0	February 24, 2009	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion)	Indicator Specification	<ol style="list-style-type: none"> 1. Replace the DRG denominator exclusion for cardiac surgery (\$CARSDR) with procedure code denominator exclusion for cardiac procedures (\$CARDSIP). See Table 1 in Appendix. 2. Add procedure codes to denominator exclusion for thoracic procedures (\$THORAIP) Add codes: 05.22 Sympathectomy Cervical 05.23 Sympathectomy Lumbar 05.29 Other sympathectomy and ganglionectomy 07.80 Thymectomy, not otherwise specified 07.81 Other partial excision of thymus 07.82 Other total excision of thymus 07.83 Thoracoscopic partial excision of thymus 07.84 Thoracoscopic total excision of thymus 32.49 Other lobectomy of lung

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Hospital Acquired Vascular Catheter Related Infections (PSI 7 and 21)	Indicator Specification	<ol style="list-style-type: none">1. Rename the indicator from "Selected infections due to medical care" to "Hospital acquired vascular catheter related infections"2. Apply 996.62 and 999.3 (\$IDTMCID) Version 24 or before (2007Q3) and 999.31 (\$IDTMC2D) Version 25 and after (2007Q4)

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion)	Indicator Specification	<ol style="list-style-type: none"> 1. Add procedure codes to the denominator exclusion for hip fracture repair (\$HIPFIXIP). Add codes: 79.05 Closed reduction of fracture of femur without internal fixation 79.65 Debridement of open fracture of femur 81.53 Revision of hip replacement, not otherwise specified 2. Add diagnosis codes to denominator exclusion for stroke (\$STROKID) Add codes: 435.0 Basilar artery syndrome 435.1 Vertebral artery syndrome 435.3 Vertebrobasilar artery syndrome 3. Add diagnosis codes to denominator exclusion for coma (\$COMAID) Add codes: 070.0 Viral hepatitis A with hepatic coma 070.20 Viral hepatitis B with hepatic coma, acute or unspecified, without mention of hepatitis delta 070.21 Viral hepatitis B with hepatic coma, acute or unspecified, with hepatitis delta 070.22 Viral hepatitis B with hepatic coma, chronic, without mention of hepatitis delta 070.23 Viral hepatitis B with hepatic coma, chronic, with hepatitis delta 070.41 Acute hepatitis C with hepatic coma 070.42 Hepatitis delta without mention of active hepatitis B disease with hepatic coma 070.43 Hepatitis E with hepatic coma 070.44 Chronic hepatitis C with hepatic coma 070.49 Other specified viral hepatitis with hepatic coma 070.6 Unspecified viral hepatitis with hepatic coma 070.71 Unspecified viral hepatitis C with hepatic coma 4. Remove diagnosis codes from denominator exclusion for poisonings (\$POISOID). See Table 2 in Appendix. 5. Remove diagnosis codes from denominator exclusion for delirium and other psychoses (\$DELIRID). See Table 3 in Appendix.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Physiologic and Metabolic Derangements (PSI 10)	Indicator Specification	<p>1. Replace the DRG denominator exclusion for cardiac arrhythmia (\$CARDRDR) with diagnosis code denominator exclusion for cardiac arrhythmia (\$CARDRID).</p> <p>Add codes: 426.0 Atrioventricular block, complete 427.0 Paroxysmal supraventricular tachycardia 427.1 Paroxysmal ventricular tachycardia 427.2 Paroxysmal tachycardia, unspecified 427.31 Atrial fibrillation 427.32 Atrial flutter 427.41 Ventricular fibrillation 427.42 Ventricular flutter 427.9 Cardiac dysrhythmia, unspecified</p> <p>2. Add diagnosis codes to denominator exclusion for chronic kidney disease (\$CRENLFD)</p> <p>Add codes: 403.00 Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified 403.10 Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified 403.90 Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified 404.00 Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified 404.01 Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified 404.10 Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified 404.11 Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified 404.90 Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
				404.91 Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified 3. Add diagnosis codes to denominator exclusion for hemorrhage (\$HEMORID) Add codes: 568.81 Hemoperitoneum (nontraumatic)

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Postoperative Respiratory Failure (PSI 11)	Indicator Specification	<p>Add denominator exclusion for craniofacial anomalies with 1) a procedure code for laryngeal or pharyngeal surgery (\$CRANI1P) or 2) a procedure on face (\$CRANI2P) and a diagnosis code of craniofacial abnormalities (\$CRANIID).</p> <p>Add codes for pharyngeal surgery (\$CRANI1P):</p> <ul style="list-style-type: none"> 25.3 Complete glossectomy 25.4 Radical glossectomy 27.31 Local excision or destruction of lesion or tissue of bony palate 29.0 Pharyngotomy 29.33 Pharyngectomy (partial) 29.39 Other excision or destruction of lesion or tissue of pharynx 29.4 Plastic operation on pharynx 29.53 Closure of other fistula of pharynx 29.59 Other repair of pharynx 29.91 Dilation of pharynx 30.09 Other excision or destruction of lesion or tissue of larynx 30.21 Epiglottidectomy 30.22 Vocal cordectomy 30.29 Other partial laryngectomy 30.3 Complete laryngectomy 30.4 Radical laryngectomy 31.3 Other incision of larynx or trachea 31.5 Local excision or destruction of lesion or tissue of trachea 31.69 Other repair of larynx 31.73 Closure of other fistula of trachea 31.75 Reconstruction of trachea and construction of artificial larynx 31.79 Other repair and plastic operations on trachea 31.98 Other operations on larynx 31.99 Other operations on trachea

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				Add codes for procedure on face (\$CRANI2P): 25.2 Partial glossectomy 25.59 Other repair and plastic operations on tongue 27.32 Wide excision or destruction of lesion or tissue of bony palate 27.62 Correction of cleft palate 27.63 Revision of cleft palate repair 27.69 Other plastic repair of palate 29.31 Cricopharyngeal myotomy 76.65 Segmental osteoplasty [osteotomy] of maxilla 76.66 Total osteoplasty [osteotomy] of maxilla 76.46 Other reconstruction of other facial bone 76.69 Other facial bone repair 76.91 Bone graft to facial bone Add codes for craniofacial abnormalities (\$CRANIID). 744.83 Macrostomia 744.84 Microstomia 744.9 Unspecified anomalies of face and neck 748.3 Congenital anomalies of skull and face bones 756.0 Tracheomalacia and congenital tracheal stenosis
V4.0	February 24, 2009	Postoperative Sepsis (PSI 13) Numerator (Inclusion)	Indicator Specification	Remove diagnosis code from numerator inclusion for sepsis (\$SEPTIID) for discharges after 2004Q4 (effective October 1, 2004) Drop code: 785.59 Shock without mention of trauma, other

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Multiple Indicators (Infection)	Indicator Specification	<p>1. Remove diagnosis codes for non-bacterial infections from denominator exclusion for infection (\$INFECID)</p> <p>Drop codes:</p> <p>376.00 ACUTE INFLAM NOS, ORBIT</p> <p>386.30 LABYRINTHITIS NOS</p> <p>386.31 SEROUS LABYRINTHITIS</p> <p>386.32 CIRCUMSCRI LABYRINTHITIS</p> <p>598.00 URETHR STRICT:INFECT NOS</p> <p>598.01 URETH STRICT:OTH INFECT</p> <p>686.01 PYODERMA GANGRENOSUM</p> <p>2. Add diagnosis code to denominator exclusion for infection (\$INFECID)</p> <p>Add codes:</p> <p>078.3 CAT-SCRATCH DISEASE</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V4.0	February 24, 2009	Birth Trauma (PSI 17)	Indicator Specification	<ol style="list-style-type: none"> 1. Combine tables \$BIRTIDA, \$BIRTIDA and \$BIRTIDA into a single table \$BIRTHID Add code to \$BIRTHID 7675 FACIAL NERVE INJ-BIRTH 2. Drop code from \$BIRTHID 7679 BIRTH TRAUMA NOS 3. Exclude any diagnosis of birth weight less than 2000g (\$PRETEID) Add codes: 76500 EXTREME IMMATUR WTNOS Drop codes; 76508 EXTREME IMMATURITY, 2000 - 2499 GRAMS 76518 OTHER PRETERM INFANTS, 2000 - 2499 GRAMS 76521 LESS THAN 24 COMPLETED WEEKS OF GESTATION 76522 24 COMPLETED WEEKS OF GESTATION 76523 25-26 COMPLETED WEEKS OF GESTATION 76524 27-28 COMPLETED WEEKS OF GESTATION 76525 29-30 COMPLETED WEEKS OF GESTATION 76526 31-32 COMPLETED WEEKS OF GESTATION 76527 33-34 COMPLETED WEEKS OF GESTATION 4. Exclude any diagnosis of Injury to Brachial Plexus (\$BRACHID) 7676 BRACH PLEXUS INJ-BIRTH 5. Exclude any diagnosis of Osteogenesis Imperfecta (\$OSTEOID) 76551 OSTEOGENESIS IMPERFECTA/
V4.0	February 24, 2009	OB Trauma with Instrumentation (PSI 18)	Indicator Specification	<ol style="list-style-type: none"> 1. Remove procedure code inclusion criteria (\$OBTRAIP) 2. Replace table \$VAGINDR with table PRVAGBG (CMS-DRG) and table PRVAG2G (MS-DRG)

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V4.0	February 24, 2009	OB Trauma without Instrumentation (PSI 19)	Indicator Specification	<ol style="list-style-type: none"> 1. Remove procedure code inclusion criteria (\$OBTRAIIP) 2. Replace table \$VAGINDR with table PRVAGBG (CMS-DRG) and table PRVAG2G (MS-DRG)
V4.0	February 24, 2009	OB Trauma (PSI 20)	Indicator Specification	Remove this indicator from the Patient Safety Indicators and assign it to a new module of Experimental Indicators
V4.0	February 24, 2009	Multiple Indicators (Major Operating Room Procedures)	Indicator Specification	<p>Remove procedure codes from the denominator inclusion for major operating room procedures (\$ORPROC)</p> <p>Drop codes:</p> <p>38.7 INTERRUPTION VENA CAVA 41.0 LYMPH STRUCTURE OP NEC 41.00 BONE MARROW TRNSPLNT NOS 41.01 AUTO BONE MT W/O PURG 41.02 ALO BONE MARROW TRNSPLNT 41.03 ALLOGRFT BONE MARROW NOS 41.04 AUTO HEM STEM CT W/O PUR 41.05 ALLO HEM STEM CT W/O PUR 41.06 CORD BLD STEM CELL TRANS 41.07 AUTO HEM STEM CT W PURG 41.08 ALLO HEM STEM CT W PURG 41.09 AUTO BONE MT W PURGING</p>
V4.0	February 24, 2009	Multiple DRGs	Indicator Specification	Remove the DRG denominator exclusions for cancer (\$CANCEDR), trauma (\$TRAUMDR), infection (\$INFECDR) and immuno-compromised (\$IMMUNDR)
V4.0	February 24, 2009	Medical DRGs	Indicator Specification	Replace the DRG denominator inclusion for medical discharges (\$MEDICDR) with the MS-DRG denominator exclusion for medical discharges (\$MEDICMS) for discharges after 2007Q4 (effective October 1, 2007). See Table 4 in Appendix.

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V4.0	February 24, 2009	Surgical DRGs	Indicator Specification	Replace the DRG denominator inclusion for surgical discharges (\$SURGIDR) with the MS-DRG denominator exclusion for surgical discharges (\$SURGIMS) for discharges after 2007Q4 (effective October 1, 2007). See Table 5 in Appendix.
V4.0	February 24, 2009	Adult DRGs	Indicator Specification	Drop the DRG denominator inclusion for adult (\$ADULTDR) for discharges after 2007Q4 (effective October 1, 2007).
V 3.2	March 10, 2008	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, Thoracic Surgery)	Coding	Added new codes: 32.20 THORAC EXC LUNG LESION 32.30 THORAC SEG LUNG RESECT 32.39 OTH SEG LUNG RESECT NOS 32.41 THORAC LOBECTOMY LUNG 32.50 THORACOSPC PNEUMONECTOMY 32.59 OTHER PNEUMONECTOMY NOS 33.20 THORACOSCOPC LUNG BIOPSY 34.20 THORACOSCOPIC PLEURAL BX 34.52 THORACOSCOPC DECORT LUNG
V 3.2	March 10, 2008	Selected Infections due to Medical Care (PSI 7 and 23) Numerator (Inclusion)	Coding	Added new code 999.31 INFECT D/T CENT VEN CATH

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V 3.2	March 10, 2008	Multiple Indicators (Exclusion, cancer)	Coding	Added new codes: 20030 MARGNL ZONE LYM XTRNDL 20031 MARGIN ZONE LYM HEAD 20032 MARGIN ZONE LYM THORAX 20033 MARGIN ZONE LYM ABDOM 20034 MARGIN ZONE LYM AXILLA 20035 MARGIN ZONE LYM INGUIN 20036 MARGIN ZONE LYM PELVIC 20037 MARGIN ZONE LYMPH SPLEEN 20038 MARGIN ZONE LYMPH MULTIP 20040 MANTLE CELL LYM XTRRNDL 20041 MANTLE CELL LYMPH HEAD 20042 MANTLE CELL LYMPH THORAX 20043 MANTLE CELL LYMPH ABDOM 20044 MANTLE CELL LYMPH AXILLA 20045 MANTLE CELL LYMPH INGUIN 20046 MANTLE CELL LYMPH PELVIC 20047 MANTLE CELL LYMPH SPLEEN 20048 MANTLE CELL LYMPH MULTIP 20050 PRIMARY CNS LYMPH XTRNDL 20051 PRIMARY CNS LYMPH HEAD 20052 PRIMARY CNS LYMPH THORAX 20053 PRIMARY CNS LYMPH ABDOM 20054 PRIMARY CNS LYMPH AXILLA 20055 PRIMARY CNS LYM INGUIN 20056 PRIMARY CNS LYMPH PELVIC 20057 PRIMARY CNS LYMPH SPLEEN 20058 PRIMARY CNS LYMPH MULTIP 20060 ANAPLASTIC LYMPH XTRNDL 20061 ANAPLASTIC LYMPH HEAD

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				20062 ANAPLASTIC LYMPH THORAX 20063 ANAPLASTIC LYMPH ABDOM 20064 ANAPLASTIC LYMPH AXILLA 20065 ANAPLASTIC LYMPH INGUIN 20066 ANAPLASTIC LYMPH PELVIC 20067 ANAPLASTIC LYMPH SPLEEN 20068 ANAPLASTIC LYMPH MULTIP 20070 LARGE CELL LYMPH XTRNDL 20071 LARGE CELL LYMPHOMA HEAD 20072 LARGE CELL LYMPH THORAX 20073 LARGE CELL LYMPH ABDOM 20074 LARGE CELL LYMPH AXILLA 20075 LARGE CELL LYMPH INGUIN 20076 LARGE CELL LYMPH PELVIC 20077 LARGE CELL LYMPH SPLEEN 20078 LARGE CELL LYMPH MULTIP 20270 PERIPH T CELL LYM XTRNDL 20271 PERIPH T CELL LYMPH HEAD 20272 PERIPH T CELL LYM THORAX 20273 PERIPH T CELL LYM ABDOM 20274 PERIPH T CELL LYM AXILLA 20275 PERIPH T CELL LYM INGUIN 20276 PERIPH T CELL LYM PELVIC 20277 PERIPH T CELL LYM SPLEEN 20278 PERIPH T CELL LYM MULTIP
V 3.2	March 10, 2008	Multiple Indicators (Exclusion, infection)	Coding	Add new codes 040.41 INFANT BOTULISM and 040.42 WOUND BOTULISM

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.2	March 10, 2008	Multiple Indicators	Coding	Updated DRG to Version 25.0
V 3.2	March 10, 2008	Software (SAS and Windows) and Documentation	Software/ Documents	<ol style="list-style-type: none"> 1. PSI #15 (Accidental puncture or laceration) – Added an exclusion for discharges with an ICD-9-CM procedure code for spine surgery 2. PSI #4 (Death among Surgical Inpatients with Serious Treatable Complications) – Revised the denominator to surgical patients, removed Acute Renal Failure from the definition and revised the inclusion and exclusion criteria 3. PSI #16 (Transfusion Reaction) – Revised the indicator from a rate to a count 4. PSI #5 (Foreign Body left in During Procedure) – Revised the indicator from a rate to a count and to require the POA flag
V 3.1a	March 16, 2007	SAS Software and Documentation	Software/ Documents	Added program to calculate the PSI composite measure. The new files are PSI_COMPOSITE.SAS and MSXPSC31.TXT.
V 3.1a	March 16, 2007	SAS Software	Software/ Documents	<ol style="list-style-type: none"> 1. Amended the aggregation algorithm to correctly sum the numerator and denominator counts across stratifiers. (PSSASA2). 2. Amended the expected rate calculation to correctly assign the modified DRG to the intercept term. (PSFMTS, PSSASP3)
V 3.1	March 12, 2007	Software, Software Documentation, Guide, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 1. The years for which the ICD-9-CM and DRG codes defining PSIs are valid was amended to be through FY 2007 instead of FY 2006, that is, the codes in the software are effective through September 30, 2007.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.1	March 12, 2007	Software (SAS and Windows) and Documentation	Software/ Documents	<ol style="list-style-type: none"> 1. The FY2007 release of the PSI includes an option to incorporate the Present on Admission indicator into the specifications. 2. Added Data Elements DXATADMIT1 – DXATADMIT30 to indicate whether the corresponding diagnosis (i.e., DX1 – DX30) was Present on Admission. 3. Added an option for using weighted data (i.e., discharge weights like those used in the National Inpatient Sample). 4. Added data element DISCWT to hold weight to assign to discharge.
V 3.1	March 12, 2007	Software (SAS and Windows), Software Documentation and Covariates document	Software/ Documents	<ol style="list-style-type: none"> 1. Updated the coefficients used in the calculation of expected and risk-adjusted rates to the 2002-2004 reference population. 2. Based on recommendations of the Risk Adjustment and Hierarchical Modeling (RAHM) Workgroup, computed covariates using logistic regression model with a hospital random-effect instead of the existing simple logistic model. Because the AHRQ QI use a large sample, the impact on the covariates of using the hierarchical model (and hence the impact on the risk-adjusted rates) is minor. 3. Updated Covariates document to include the POA coefficients.
V 3.1	March 12, 2007	Software (SAS and Windows)	Software/ Documents	<ol style="list-style-type: none"> 1. Age-, race-, gender- and county-specific population estimates used for AHRQ QI area rates were updated to use revised post-censal estimates for years 2001 through 2005 and projections for the years 2006 and 2007. 2. The AHRQ co-morbidity software was incorporated unchanged, except for minor syntax changes to conform to our variable names. Also, one obsolete ICD-9-CM code, “347 “, was added to insure backwards compatibility to 2002 for the NEURO co-morbidity. 3. The syntax will compute risk-adjusted rates and observed-to-expected ratios for the pre-defined set of stratification variables (e.g., age, gender, payer, race). When stratifications other than hospital or area are selected, the RPPSxx variables and their confidence intervals are observed/expected ratios to avoid confounding with risk adjustment variables

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.1	March 12, 2007	Software (SAS and Windows) and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 1. Revised inclusion criteria for Death in Low Mortality DRGs (PSI #2) based on analysis of 2002-2004 data. Deleted DRG 061 and added codes 353, 375, 425, 497, 498, and 518. 2. Revised numerator inclusion criteria for Postoperative Hemorrhage and Hematoma (PSI #9) to require a diagnosis of hemorrhage or hematoma and a procedure for control of hemorrhage or drainage of hematoma. <p>Impact: The rate increases by about 25%.</p>
V 3.1	March 12, 2007	SAS Software and Documentation	Software/ Documents	<ol style="list-style-type: none"> 1. Added flag &POAFG to CONTROL_PSI.SAS to indicate whether Present on Admission data is available. 2. Added alternative POA parameter files of risk-adjustment covariates and population rates using 2002-2004 SID data from California and New York. 3. Co-morbidity software that was developed and is maintained by AHRQ has been integrated into PSI syntax, relieving users of the need to run this software prior to PSSAS1.SAS and then to match the results to their input discharge data.
V 3.0a	May 1, 2006	Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 1. Edited denominator specification of PSI #2 to reflect SAS software (Windows and SPSS updated). 2. Corrected denominator specification of PSI #4 (Sepsis). 3. Edited denominator specification of PSI #6, PSI #15, and PSI #17 for clarity. 4. Edited exclusion specification of PSI #10 to reflect SAS software (Windows and SPSS updated). 5. Edited immunocompromised state specification (multiple indicators) to reflect SAS software (Windows and SPSS updated).

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0a	May 1, 2006	SAS Software and Documentation	Software/ Documents	<ol style="list-style-type: none"> 1. CONTROL_PSI.SAS – Renamed %COMOB to %COMOBF. 2. PSSAS1.SAS – SAS – Renamed %COMOB to %COMOBF. 3. PSASA2.SAS – Fixed CSV column header for OAPS27. 4. PSSASP3.SAS – Changed age parameter for PSI #17 from 2 to 7 to prevent run error when age is invalid (note: users should verify cases in denominator have age = 0). 5. Added SAS syntax file to merge user data file with file created using updated AHRQ comorbidities software.
V 3.0a	May 1, 2006	Guide	Software/ Documents	Edited denominator specification of PSIs #6, 13-15, and 17 for clarity.
V 3.0a	May 1, 2006	All documents	Software/ Documents	Edited PDF files to make URLs in header or footer clickable links.
V 3.0	February 20, 2006	Low-mortality DRGs (PSI 2) Denominator (Inclusion)	Coding	Revised list of low-mortality DRGs based on DRG coding updates.
V 3.0	February 20, 2006	Failure to Rescue (PSI 4) Denominator (Exclusion, alcoholism)	Coding	Added new code 291.82 (Alcohol induced sleep disorders) to exclusion criteria.
V 3.0	February 20, 2006	Iatrogenic Pneumothorax (PSI 6 and 22) Denominator (Exclusion, cardiac surgery DRGs)	Coding	Added new DRGs 547 - 550 to exclusion criteria.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0	February 20, 2006	Postoperative Hip Fracture (PSI 8) Denominator (Exclusion, delirium and other psychoses)	Coding	Added code 292.85 (Drug induced sleep disorders) to exclusion criteria.
V 3.0	February 20, 2006	Multiple Indicators Denominator (Inclusion)	Coding	Added new code 559 to list of Medical DRGs used as denominator inclusion for PSIs #3, 5-7, 15-16, 21-23, and 25-26.
V 3.0	February 20, 2006	Multiple Indicators Denominator (Inclusion)	Coding	Added new codes 544 - 558 to list of Surgical DRGs used as denominator inclusion for PSIs #1, 3, 5-13, 15-16, 21-23, and 25-27.
V 3.0	February 20, 2006	Multiple Indicators Denominator (Exclusion, immuoncompro mised state)	Coding	Added new procedure code 00.18 (Infusion of immunosuppressive antibody therapy during induction phase of solid organ transplant) to criteria for immunocompromised state, used as denominator exclusion for PSIs #2, 4, 7, 13-14, and 23-24.
V 3.0	February 20, 2006	Multiple Indicators Denominator (Inclusion)	Coding	Revised list of Operating Room Procedure Codes used as denominator inclusion for PSIs #1, 3, and 8-12.

Patient Safety Indicators (PSI)
Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0	February 20, 2006	Software, Software Documentation, Guide, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 1. The years for which the ICD-9-CM and DRG codes defining PSIs are valid was amended to be through FY 2006 instead of FY 2005, that is, the codes in the software are effective through September 30, 2006. 2. Dropped PSIs #27-29 and revised PSIs #18-20 to limit OB Trauma numerator definitions to 3rd and 4th degree lacerations. 3. Added area-level version of Postoperative Hemorrhage or Hematoma as PSI #27.
V 3.0	February 20, 2006	Software, Guide, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 1. Revised multiple indicators to exclude pediatric populations (age less than 18). Specifically, PSIs #3-4, 6, 8-15, 22, 25, and 27. 2. Revised multiple indicators to exclude pediatric populations (age less than 18) unless MDC 14. Specifically, PSIs #1-2, 5, 7, 16, 21, and 23-24.

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0	February 20, 2006	Software, Guide, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> 3. Modified denominator for PSI #3 (decubitus ulcer) to exclude transfers from acute care facility, spina bifida or anoxic brain damage diagnosis, and debridement or pedicle graft procedures. 4. Modified criteria for PSI #6 and PSI #22 (iatrogenic pneumothorax) to drop exclusion for trauma and add exclusions for chest trauma, diaphragmatic surgery repair, and pleural effusion. 5. Modified criteria for PSI #7 (selected infections due to medical care) and PSI #14 (postop wound dehiscence) to exclude length of stay less than 2 days. 6. Modified criteria for PSI #8 (postop hip fracture) to exclude hip fracture repair that occurs before or on the same day as the major operating room procedure code. 7. Modified criteria for PSI #10 (postop physiological and metabolic derangement) to exclude principal diagnosis of chronic renal failure in cases of acute renal failure. 8. Modified specification for PSI #11 (postop respiratory failure) to add procedure codes for postoperative reintubation procedures based on number of days after major operating room procedure to numerator and exclude neuromuscular disorder diagnosis from denominator. 9. Modified denominator of PSI #14 and PSI #24 (postop wound dehiscence) to exclude immunocompromised state. 10. Modified denominator of PSI #17 (birth trauma) to limit to in-hospital live births admitted between 0 and 28 days of age. 11. Modified criteria for PSI #18 – PSI #20 (birth trauma) to limit numerator to 3rd and 4th degree lacerations.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0	February 20, 2006	Software, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> Added diagnosis codes 785.52 (Septic shock), 785.59 (Other shock without mention of trauma), and 998.0 (Postoperative shock) to list of diagnosis codes for Sepsis (PSI #4 and PSI #13.) Added code 586 (Renal failure, unspecified) and 997.5 (Urinary complications) to numerator specification for acute renal failure in PSI #10 (postop physiological and metabolic derangement.) Revised list of diagnosis codes included in diagnosis of immunocompromised states (PSI #2, 4, 7, 13-14, 23-24). Added diagnosis codes to definition of infection used as denominator exclusion for PSI #4 (FTR) and PSI #13 (postop sepsis).
V 3.0	February 20, 2006	Guide	Software/ Documents	<ol style="list-style-type: none"> Moved Appendix A into new document <i>Patient Safety Indicators Technical Specifications</i>. Removed Appendix B. Added new section "Using Different Types of QI Rates." Added explanation of changes to area definitions and new stratification options. Changed "MSA" to "Metro Area" throughout the document.
V3.0	February 20, 2006	Guide, Software Documentation, Guide, and Technical Specifications	Software/ Documents	<ol style="list-style-type: none"> Removed Appendices that were copies of Change Log and Indicator Changes documents. Added Appendix of Links to all IQI documents and additional resources.
V 3.0	February 20, 2006	Software Documentation (SAS and SPSS)	Software/ Documents	<ol style="list-style-type: none"> Amended Table 2 to add variables for expected, lower and upper CI levels, and standard error of smoothed rate. Amended Table 3 to include the new 1995-2006 census data (POP95TO06.TXT). Removed section "Interpreting the Results". Replaced example printouts with tables explaining contents of columns in printouts.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 3.0	February 20, 2006	Software and Software Documentation (SAS only)	Software/ Documents	<ol style="list-style-type: none"> 1. Removed outdated HCUP comorbidity program. 2. Advised users to run HCUP Comorbidity Software, Version 3.0 as a separate program before running PSIs if risk-adjusted rates are desired. 3. Amended Table 4 to specify that AHRQ Comorbidity Variables are required to generate risk-adjusted rates.
V 3.0	February 20, 2006	Software	Software/ Documents	<ol style="list-style-type: none"> 1. Added the 1995-2006 Census data (e.g., POP95TO06.TXT). 2. Updated the covariates to 3M APR-DRG Version 20.0 (i.e., COVIQP30.TXT) 3. Changed the computation of the risk-adjusted rate to use a proportional formula for indirect standardization. 4. Added a computation of confidence limits. 5. Changed name of data element HOSPSTCO to PSTCO. 6. Added parameter POPYEAR to specify year for Census data.
V 3.0	February 20, 2006	Software (SAS and SPSS), Software Documentation and Covariates document	Software/ Documents	Updated the coefficients used in the calculation of expected and risk-adjusted rates to the 2003 reference population.
V 2.1 R3a	February 15, 2005	Software (SAS and SPSS), Software Documentation and Covariates document	Software/ Documents	<p>Updated the coefficients used in the calculation of expected and risk-adjusted rates to the 2002 reference population.</p> <p>NOTE: The Guide to Patient Safety Indicators, Operating Room Procedure Codes, and Fiscal Year 2005 Coding Changes documents were not updated and Revision 3 remains the current version.</p>

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 3	January 17, 2005	Decubitus Ulcer (PSI 3) Numerator (Inclusion, decubitus ulcer)	Coding	Added new (FY2005) codes 707.00 “unspecified site”, 707.01 “elbow”, 707.02 “upper back”, 707.03 “lower back”, 707.04 “hip”, 707.05 “buttock”, 707.06 “ankle”, 707.07 “heel” and 707.09 “site, other” to the numerator inclusion criteria for decubitus ulcer. Expected impact on rate: negligible.
V 2.1 R 3	January 17, 2005	Failure to Rescue (PSI 4) Denominator (Inclusion, DVT/PE)	Coding	Added new (FY2005) codes 453.40 “unspecified site”, 453.41 “proximal” and 453.42 “distal” to the denominator inclusion criteria for venous embolism and thrombosis of deep vessels of the lower extremity. Expected impact on rate: negligible.
V 2.1 R 3	January 17, 2005	Postoperative DVT/PE (PSI 12) Numerator (Inclusion, DVT/PE)	Coding	Added new (FY2005) codes 453.40 “unspecified site”, 453.41 “proximal” and 453.42 “distal” to the numerator inclusion criteria for venous embolism and thrombosis of deep vessels of the lower extremity. Expected impact on rate: negligible.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 3	January 17, 2005	Postoperative Wound Dehiscence (PSI 14) Denominator (Inclusion, abdominopelvic surgery)	Coding	<p>For discharges beginning in FY 2005, ICD-9-CM code 44.99 “other gastric operation” is added to the denominator definition of abdominopelvic surgery because laparoscopic procedures that previously dominated this code were re-assigned to other codes.</p> <p>Note: Revision 3 adds optional data elements YEAR (year of patient discharge) and DQTR (calendar quarter of patient discharge) to the input data file specifications. If available, these data elements are used to include ICD-9-CM code 44.99 in the denominator for discharges occurring on or after 10/1/2004. However, ICD-9 code 44.99 will not be retained in the denominator if the data elements year and quarter of discharge are not available or if the user selects the option not to retain code 44.99 for purposes of trending over time or to maintain historical continuity in the rate. However, users are encouraged to transition to the new definition as soon as possible.</p> <p>Expected impact on rate: may result in a increase in the denominator and resulting increase in the rate due to the significant risk of wound dehiscence in the open procedures retained in this code.</p>
V 2.1 R 3	January 17, 2005	Multiple Indicators Denominator (Inclusion, surgical discharges)	Coding	<p>Added new (FY2005) DRG codes 541-543 to the surgical discharges inclusion criteria for the applicable PSIs: 1, 3, 5-13, 15-16, 21-23, and 25-26.</p> <p>Expected impact on rate: negligible</p>
V 2.1 R 3	January 17, 2005	Multiple Indicators Denominator (Inclusion, surgical discharges)	Coding	<p>Added new (FY2005) major operating procedure codes to the surgical discharges inclusion criteria for the applicable PSIs (see above for the list of PSIs). See the document “Operating Room Procedure Codes” at http://www.qualityindicators.ahrq.gov/psi_download.htm for a list of these ICD-9 codes. The new codes can be identified locating the reference date of introduction “Oct 04” behind the ICD-9 code and description.</p> <p>Expected impact on rate: negligible</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 3	January 17, 2005	Multiple Indicators Comorbidity (other neurological disorders)	Coding	Added new (FY2005) codes 347.00 “narcolepsy w/o cataplexy”, 347.01 “w/ cataplexy”, 347.10 “narcolepsy in conditions classified elsewhere w/o cataplexy” and 347.11 “w/ cataplexy” to the co morbidity inclusion criteria for other neurological disorders. Added new (FY2005) DRG code 543 to the co morbidity exclusion criteria for other neurological disorders. Expected impact on rate: negligible
V 2.1 R 3	January 17, 2005	Software (SAS and SPSS) and Guide	Software/ Documents	Modified documentation to reflect changes in indicators associated with ICD-9- CM coding updates for FY 2005 (effective 10-1-2004). See separate documentation on ICD-9 coding updates for specific details.
V 2.1 R 3	January 17, 2005	Guide	Software/ Documents	<ol style="list-style-type: none"> 1. Updated the provider, area and population rates in Table 1 and Table 2 and the detailed evidence section using data from the 2002 HCUP SID files. 2. In the detailed evidence section, added a cross reference from each indicator description to the indicator's detailed definition in Appendix A. 3. Included Appendix A titles of detailed definitions in the Table of Contents. 4. Removed the Operating Room Procedure Codes from Appendix C and reorganized the Appendices. The Operating Room Procedure Codes are now provided as a separate downloadable document.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 3	January 17, 2005	Software (SAS and SPSS)	Software/ Documents	<ol style="list-style-type: none"> Added the 2003 census data (i.e., QICTY03.TXT) Added optional data elements YEAR (year of patient discharge) and DQTR (calendar quarter of patient discharge) to the specifications of the input file. Added new user control parameter YEARQTR to CONTROL_PSI.SAS and PSSPS1.SPS. The default setting for this parameter in the syntax is 0. If the data elements YEAR and DQTR are available in the input data file the parameter would be set to 1. <p>Note: If available, these data elements are used to implement a coding change to Postoperative Wound Dehiscence (PSI #14) that adds ICD-9-CM code 44.99 to the denominator for discharges occurring on or after 10/1/2004. However, ICD-9 code 44.99 will not be retained in the denominator if the data elements year and quarter of discharge are not available or if the user selects the option not to retain code 44.99 for purposes of trending over time.</p>
V 2.1 R 3	January 17, 2005	Software Documentation (SAS and SPSS)	Software/ Documents	<ol style="list-style-type: none"> Table 3 was amended to include the 2003 census data (i.e., QICTY03.TXT). Added instructions for setting new user control parameter YEARQTR to CONTROL_PSI.SAS and PSSPS1.SPS. Added descriptions of optional data elements YEAR (year of patient discharge) and DQTR (calendar quarter of patient discharge) to Table 4.
V 2.1 R 2a	November 19, 2004	Software (SAS)	Software/ Documents	Corrected syntax for the option to export program output of PSSASP2.SAS and PSSASP3.SAS to comma-delimited files that can then be read by Excel. NOTE: The changes do not affect the SPSS syntax.
V 2.1 R 2a	November 19, 2004	Software (SAS and SPSS)	Software/ Documents	Updated zip files to exclude the QICTYAxX.TXT census files, which are not required for risk adjustment for the PSI module.
V 2.1 R 2a	November 19, 2004	Covariates	Software/ Documents	Revised to include additional columns (i.e. the number of covariates and the odds ratio) and to correct the covariate labels. NOTE: The changes do not affect the covariate values or the calculation of risk-adjusted rates.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 2	October 22, 2004	Guide	Software/ Documents	<ol style="list-style-type: none"> 1. Modified documentation to reflect changes in indicators associated with ICD-9-CM coding updates for FY 2004 (effective 10-1-2003). See separate documentation for specific details. 2. Changed syntax of "hospital-level" to "provider-level" throughout the documentation. 3. Added PSI number to each Indicator name. 4. Updated empirical results for Table 1, and limited contents to Provider-level PSIs. 5. Added Table 2, listing Area-level PSIs. 6. Added caption for Table 3, Indicators and Use of External Cause-of-Injury Codes. 7. Modified PSI #2 (death in low mortality DRGs). The indicator is reported as a single measure, but also stratified by type of DRG: adult medical, pediatric medical, adult surgical (with OR procedure), adult surgical (without OR procedure), pediatric surgical (with OR procedure), pediatric surgical (without OR procedure), obstetric and psychiatric. A list of low mortality DRGs by type is included PSI Guide. Impact: Among the low mortality DRGs, about 25% of the discharges and 60% of the deaths are "adult medical" DRGs. Psychiatric DRGs also have a higher share of deaths (10%) than discharges (6%). Death among the other DRG types is very rare (0.1% or less). Few low mortality surgical DRGs do not have an operating room procedure, so the adult or pediatric surgical DRG (without OR procedure) will generally be missing or zero for most hospitals. 8. Modified PSI #14, Postoperative Wound Dehiscence, to include only OR procedures in the definition of abdominopelvic surgery. Impact: Small (less than 1%) decrease in the denominator and resulting small increase in the rate due to exclusion of a low-risk procedure.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
				<p>9. Modified PSI #17, Birth Trauma, to exclude preterm infants with subdural or cerebral hemorrhage or osteogenesis imperfecta infants with injury to skeleton from the numerator only. NOTE: The infants remain in the population at risk for other types of birth trauma. Impact: Small (less than 1%) increase in the denominator and resulting small decrease or no impact in the rate (i.e. the risk of other types of birth trauma for these two populations is less than or no different than for other births).</p> <p>10. Added three new Indicators #27-29, to include third-degree lacerations for each of three types of delivery: Vaginal with and without instruments, and Cesarean. Impact: The rate for OB Trauma is generally 5-10% higher when including 3rd degree lacerations</p> <p>11. Limited the surgical DRG inclusion criteria to major OR procedures for PSI #1, 8-13, all of which deal with postoperative illness or injury. Impact: Medium (1-4%) decrease in the denominator. The impact on the rate varies by indicator. PSIs 1, 8 and 9 have a medium (1-3%) increase in the rate. PSIs 10 and 12 have a small (less than 1%) decrease in the rate. PSIs 11 and 13 have a medium (3-4%) decrease in the rate.</p> <p>12. Modified PSIs #1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16 to exclude discharges with a PSI-defining secondary diagnosis and a different PSI-defining principal diagnosis (but within the same PSI definition). Impact: Small (less than 1%) decrease in the denominator. The impact on the rate varies by indicator. PSIs 1, 3, 6, 7, 8, 10, 11, 13 and 16 have a small (less than 1%) increase in the rate. PSI 9 has a small (less than 1%) decrease in the rate. PSI 15 has a medium (2-3%) decrease in the rate. PSIs 5 and 12 have a large (5-9%) decrease in the rate.</p>

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
				<p>13. Modified PSIs #8, 9, 11, 12 to exclude discharges where the only OR procedure is a PSI-related procedure. Impact: Small (less than 1%) decrease in the denominator. The impact on the rate varies by indicator. PSI 11 has a small (less than 1%) decrease in the rate. PSI 9 has a medium (1-2%) decrease in the rate. PSIs 8 and 12 have a large (15-65%) decrease in the rate.</p> <p>14. Modified PSIs #8, 9, 11, 12, 14 to exclude discharges where a PSI-related procedure precedes the denominator-defining OR procedure. Impact: Small (less than 1%) decrease in the denominator. The impact on the rate varies by indicator. PSI 9 has a large (65-70%) increase in the rate. PSIs 11 and 12 have a small (less than 1%) decrease in the rate. PSI 8 has a medium (3-4%) decrease in the rate. PSI 14 has a large (8-9%) decrease in the rate.</p> <p>15. Modified Area level PSI #24, Postoperative Wound Dehiscence, to drop the requirement that the wound reclosure occurs in a discharge with a procedure code of abdominopelvic surgery. Impact: Numerator increases by about 40%.</p> <p>16. Added code 72.79 to the definition of instrument-assisted delivery in PSI #18, 19. Impact: Transfers about 33% of the denominator from PSI 19 to PSI 18. Because the OB Trauma rate for these cases is higher than average for PSI 19 and lower than average for PSI 18, and because the OB Trauma rate for PSI 19 is lower than PSI 18, the rate for both indicators decreases by 3-10%.</p>

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Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V 2.1 R 2	October 22, 2004	Software (SAS and SPSS)	Software/ Documents	<ol style="list-style-type: none"> 1. Implemented syntax changes associated with ICD-9-CM coding updates from FY 2004 (effective 10-1-2003). See separate documentation on ICD-9 coding updates for specific details. 2. Implemented all syntax changes required to implement the indicator modifications (noted above under Guide) and incorporated the related documentation in the Software manuals. 3. Modified the age, DRG and co morbidity aggregations used in the risk-adjustment to reflect the new rates and to group the DRGs by MDC (including an MDC-specific other category) 4. Added the calculation and reporting of the expected rate at the stratification level selected by the user. The SAS (PSSASP3.SAS) and SPSS (PSSPSP3.SPS) software now calculates the risk-adjusted rate, the expected rate and the smoothed rate. The rates are saved in the output file. The user also has the option to print the rates or save the rates in a comma-delimited ASCII file.
V 2.1 R 2	October 22, 2004	Software (SAS)	Software/ Documents	Inserted "PS" in format names for age, sex, DRG and co morbidity aggregations in SAS programs to distinguish these formats from similarly named formats used by other indicator software.
V 2.1 R 1	May 28, 2003	Guide	Software/ Documents	<ol style="list-style-type: none"> 1. Updated empirical results for Table 1. 2. Corrected error in Failure to Rescue Sepsis (denominator, exclusion criteria). Corrected syntax excludes patients with a length of stay less than 4 days.
V 2.1 R 1	May 28, 2003	Software (SAS)	Software/ Documents	<ol style="list-style-type: none"> 1. Corrected error in Failure to Rescue Sepsis (denominator, exclusion criteria). Corrected syntax excludes patients with a length of stay less than 4 days. 2. Made minor syntax change to pathname syntax to ease use.
V 2.1 R 1	May 28, 2003	Software Documentation (SAS)	Software/ Documents	Added instructions for obtaining confidence interval module.

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V 2.1 R 1	May 28,2003	Software reference files (SAS)	Software/ Documents	Parameter files: Updated the parameter reference files.
V 2.1 R 1	May 28,2003	Software and Documentation (SPSS)	Software/ Documents	Released SPSS software which incorporates all changes noted for SAS.
V2.1	March 13. 2003	Multiple Indicators Denominator (Exclusion, population)	Coding	Removed MDC 15 exclusions for the following indicators because DRGs for most neonates are not included in the population at risk, making the exclusion redundant: Postoperative hemorrhage and hematoma, Postoperative metabolic and physiologic derangement, Accidental puncture and laceration, Postoperative respiratory failure, Postoperative PE and DVT, Postoperative sepsis, Postoperative wound dehiscence.
V2.1	March 13. 2003	Multiple Indicators (Immunocompromised state)	Coding	Added code 52.82 "Pancreatic homotransplant" to the definition of Immunocompromised state used as an exclusion in several indicators. Removed all DRGs from definition.
V2.1	March 13. 2003	Multiple Indicators (Medical discharges)	Coding	New DRGs from FY 2002 and 2003 and the DRGs related to burns (inadvertently excluded in the earlier work) of 505, 508-511, and 521-524 were added to the definition of medical discharges for the applicable PSI denominators.
V2.1	March 13. 2003	Multiple Indicators (Surgical discharges)	Coding	New DRGs from FY 2002 and 2003 and the DRGs related to burns (inadvertently excluded in the earlier work) of 504, 506, 507, 512 – 520, and 525-527 were added to the definition of surgical discharges for the applicable PSI denominators.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Multiple Indicators (Exclusion, trauma)	Coding	<ol style="list-style-type: none"> 1. The new codes (FY 2003) 813.45, "Torus fracture of radius," and 823.4x, "Torus fracture," were added to the exclusion definition of trauma for the applicable PSIs. 2. Modified to include DRGs for trauma in pediatric patients (DRGs 30, 33) and DRGs for burns (DRGs 456-460, 504-511). In addition, DRGs which do not directly indicate trauma were removed (DRGs 447- 455). 3. All e-codes were removed from the format definition of trauma.
V2.1	March 13. 2003	Accidental Puncture or Laceration (PSI 15 and 25)	Coding	The indicator "Technical Difficulty with Procedure" was renamed "Accidental Puncture or Laceration" to clarify the indicator description.
V2.1	March 13. 2003	Birth Trauma (PSI 17) Denominator (Exclusion, premature)	Coding	A modification was made to the exclusion of premature infants with cerebral hemorrhage based on new codes for gestational age (FY 2003). The new codes 765.21 "<24 completed weeks of gestation" through 765.27 "33-34 completed weeks of gestation" were added to the exclusion for this indicator. These are in addition to the existing exclusion for birth weight under 2500 grams (codes 765.01- 765.08, 765.11-765.18).
V2.1	March 13. 2003	Death in Low Mortality DRGs (PSI 2) Denominator (Exclusion, cancer)	Coding	Added code V10.53 "Renal pelvis" to the exclusion definition of cancer.
V2.1	March 13. 2003	Death in Low Mortality DRGs (PSI 2) Denominator (Exclusion, population)	Coding	DRGs for neonatal discharges (386-391) were removed from the denominator, since these are by definition zero mortality. As a result, the neonatal subindicator was removed.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Decubitus Ulcer (PSI 3) Denominator (Exclusion, population)	Coding	MDC 14 (obstetrics) was excluded from the population at risk.
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, population)	Coding	<ol style="list-style-type: none"> 1. For all subindicators a principal diagnosis exclusion was added for the inclusion population to ensure only patients with only qualifying secondary codes are included (e.g. FTR – pneumonia, exclude principal dx of pneumonia). 2. To incorporate recommendations from the clinical review panel, patients age 75 and older were excluded from the population at risk. 3. Modified to exclude MDC 15, neonates, from the denominator definition, since complications in this population may be clinically distinct from other populations and are coded in a different manner.
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Inclusion, acute renal failure)	Coding	Codes for complication in obstetric patients were added to the denominator inclusion renal failure definition including “Acute renal failure following labor and delivery” (669.3x) and “Complications following abortion and ectopic and molar pregnancies, renal failure” (639.3).
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, acute renal failure)	Coding	<ol style="list-style-type: none"> 1. A principal diagnosis exclusion for acute renal failure after abortion was added (codes 634.3x, 635.3x, 636.3x, 637.3x, and 638.3x). 2. The codes defining trauma were added to this exclusion. 3. The codes for GI hemorrhage were added to this exclusion. 4. Definition of shock used as an exclusion with Acute Renal Failure was modified to include additional types of shock (ICD-9-CM codes: 995.0, 995.4, 998.0, 669.1x, 999.4, 785.5, 634.5x, 635.5x, 636.5x, 637.5x, 638.5, 639.5).

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, DVT/PE)	Coding	The denominator exclusion was expanded by adding the codes 415.11 "Iatrogenic pulmonary embolism and infarction," 415.19 "Other pulmonary embolism and infarction," 673.2x, "Obstetrical pulmonary embolism" and codes indicating thromboembolism following abortion (634.6x, 635.6x, 636.6x, 637.6x, 638.6 and 639.6).
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Inclusion, sepsis)	Coding	The new codes (FY 2003), 995.91 "Systemic inflammatory response syndrome due to infectious process without organ dysfunction" and 995.92 "Systemic inflammatory response syndrome due to infection process with organ dysfunction" were added to the denominator/inclusion definition of sepsis.
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, sepsis)	Coding	Definition of infection used in the sepsis exclusion criteria was modified to include DRGs for infection in pediatric patients (DRGs 70, 81, 91, 279, 322, 417) and additional DRGs for bacterial infections (DRGs 415 and 423).
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Inclusion, shock)	Coding	1. The code for complication in obstetric patients was added to the denominator inclusion shock definition "Complications following abortion and ectopic and molar pregnancies, shock "(639.5). 2. Also added the codes for "Shock, unspecified, without mention of trauma" (785.50) and "Shock, cardiogenic" (785.51).
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, shock)	Coding	1. A principal diagnosis exclusion for shock after abortion was added (634.5x, 635.5x, 636.5x, 637.5x, 638.5, 639.5). 2. Expanded to include the GI hemorrhage codes in the exclusion for Shock.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Inclusion, gastrointestinal hemorrhage)	Coding	1. The new codes (FY 2003) 537.84 “Dieulafoy lesion (hemorrhagic) of stomach and duodenum” and 569.86 “Dieulafoy lesion (hemorrhagic) of intestine” were added to the denominator-inclusion definition of gastrointestinal hemorrhage. 2. In addition to the new codes above, the code 456.20 “Bleeding esophageal varices in diseases classified elsewhere, with bleeding” was added to this denominatorinclusion definition.
V2.1	March 13. 2003	Failure to Rescue (PSI 4) Denominator (Exclusion, gastrointestinal hemorrhage)	Coding	This exclusion criteria was modified to exclude a specific diagnosis of alcoholism (see list of codes below) and the exclusion for drug dependency was removed. Alcoholism codes: 291.0 - Alcohol withdrawal delirium; 291.1 – Alcohol amnestic syndrome; 291.2 - Other alcoholic dementia; 291.3 - Alcohol withdrawal hallucinosis; 291.4 - Idiosyncratic alcohol intoxication; 291.5 - Alcoholic jealousy; 291.81 - Other specified alcoholic psychoses, alcohol withdrawal; 291.89 - Other specified alcoholic psychoses, other; 291.9 - Unspecified alcoholic psychosis; 303.0x – Acute alcohol intoxication; 303.9x - Other and unspecified alcohol dependence; 305.0x - Nondependent abuse of drugs, alcohol abuse; 425.5 – Alcoholic cardiomyopathy; 571.0 - Alcoholic fatty liver; 571.1 - Acute alcoholic hepatitis; 571.2 - Alcoholic cirrhosis of liver; 571.3 - Alcoholic liver damage, unspecified; 535.3x - Alcoholic gastritis; 980.0 - Toxic effect of alcohol, ethyl alcohol; 980.9 - Toxic effect of alcohol, unspecified alcohol
V2.1	March 13. 2003	Iatrogenic Pneumothorax (PSI 6) (Exclusion, population)	Coding	MDC 14 (obstetrics) was excluded from the population at risk.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Iatrogenic Pneumothorax (PSI 6) (Exclusion, thoracic surgery)	Coding	The new code (FY 2002) 81.34 “Refusion of dorsal and dorsolumbar spine, anterior technique” was added to the denominator exclusion definition of thoracic surgery.
V2.1	March 13. 2003	Postoperative hip fracture (PSI 8) Denominator (Exclusion, population)	Coding	MDC 14 (obstetrics) was excluded from the population at risk.
V2.1	March 13. 2003	Postoperative hip fracture (PSI 8) Denominator (Exclusion, stroke)	Coding	Based on new coding guidelines (FY 2003), the code 997.02 “Postoperative cerebrovascular accident” was added to the denominator exclusion definition of stroke.
V2.1	March 13. 2003	Postoperative Physiologic and Metabolic Derangement (PSI 10) Denominator (Exclusion, gastrointestinal hemorrhage)	Coding	The new codes (FY 2003) 537.84 “Dieulafoy lesion (hemorrhagic) of stomach and duodenum” and 569.86, “Dieulafoy lesion (hemorrhagic) of intestine” were added to the denominator-exclusion definition of gastrointestinal hemorrhage.
V2.1	March 13. 2003	Postoperative Physiologic and Metabolic Derangement (PSI 10) Denominator (Exclusion, shock)	Coding	Definition of shock was modified to include additional types of shock (ICD-9-CM codes: 995.0, 995.4, 998.0, 669.1x, 999.4, 785.5, 634.5x, 635.5x, 636.5x, 637.5x, 638.5, 639.5).

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Postoperative Sepsis (PSI 13) Denominator (Exclusion, infection)	Coding	Definition of infection was modified to include DRGs for infection in pediatric patients (DRGs 70, 81, 91, 279, 322, 417) and additional DRGs for bacterial infections (DRGs 415 and 423).
V2.1	March 13. 2003	Postoperative Sepsis (PSI 13) Numerator (sepsis)	Coding	The new codes (FY 2003) 995.91 "Systemic inflammatory response syndrome due to infectious process without organ dysfunction" and 995.92 "Systemic inflammatory response syndrome due to infection process with organ dysfunction" were added to the numerator definition of sepsis.
V2.1	March 13. 2003	Selected Infections due to Medical Care (PSI 7 and 23)	Coding	The indicator "Infection Due to Medical Care" was renamed "Selected Infections Due to Medical Care" to clarify the indicator description.
V2.1	March 13. 2003	Multiple Indicators (Risk Adjustment) Comorbidity Index (Congestive Heart Failure)	Coding	The new codes (FY 2003), 428.20-3, "Systolic heart failure," 428.30-3, "Diastolic heart failure," and 428.40-3, "Combined systolic and diastolic heart failure" were added to the comorbidity index definition of congestive heart failure.
V2.1	March 13. 2003	Multiple Indicators (Risk Adjustment) Comorbidity Index (Peripheral Vascular Disease)	Coding	<ol style="list-style-type: none"> 1. The new codes (FY 2003), 445.01 and 445.02 "atheroembolism involving the extremities," 445.81, "atheroembolism of the renal artery," and 445.89 "atheroembolism of other sites" were added to the comorbidity definition of peripheral vascular disease. 2. DRGs 108, 100, 111, 478 and 479 were excluded from this comorbidity definition, in order to remove all of the cases that were admitted with a cardiac principal diagnosis and underwent arterial surgery. 3. Codes describing arterial dissection (441.00- 3) were removed from this comorbidity definition, since these codes often do not reflect a chronic disease.

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Version/ Revision number	Date	Component	Nature of Change (Coding vs. Software/ Documents)	Changes
V2.1	March 13. 2003	Multiple Indicators (Risk Adjustment)	Coding	Modified to incorporate new DRGs from FY 2003: 1. DRGs 512-518, 524-527 were individually added to the DRG risk adjustment model. 2. DRGs 519 and 520 were aggregated and added to the DRG risk adjustment model. 3. DRGs 521, 522, and 523 were aggregated and added to the DRG risk adjustment model.
V2.1	March 13. 2003	Multiple Indicators (Risk Adjustment)	Coding	Identified five DRGs that were no longer valid as of 10/1/01 (112, 434-437) however they were retained for backward compatibility.

Appendix

Appendix A - Cardiac procedures as of February 2009

35.10 OPEN HEART VALVULOPLASTY WITHOUT REPLACEMENT, UNSPECIFIED VALVE
35.11 OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT
35.12 OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT
35.13 OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT
35.14 OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT
35.20 REPLACEMENT OF UNSPECIFIED HEART VALVE
35.21 REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT
35.22 OTHER REPLACEMENT OF AORTIC VALVE
35.23 REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT
35.24 OTHER REPLACEMENT OF MITRAL VALVE
35.25 REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT
35.26 OTHER REPLACEMENT OF PULMONARY VALVE
35.27 REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT
35.28 OTHER REPLACEMENT OF TRICUSPID VALVE
35.31 OPERATIONS ON PAPILLARY MUSCLE
35.32 OPERATIONS ON CHORDAE TENDINEAE
35.33 ANNULOPLASTY
35.34 INFUNDIBULECTOMY
35.35 OPERATIONS ON TRABECULAE CARNEAE CORDIS
35.39 OPERATIONS ON OTHER STRUCTURES ADJACENT TO VALVES OF HEART
35.50 REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS
35.51 REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
35.53 REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
35.54 REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS

35.60 REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH TISSUE GRAFT
35.61 REPAIR OF ATRIAL SEPTAL DEFECT WITH TISSUE GRAFT
35.62 REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT
35.63 REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT
35.70 OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART
35.71 OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT
35.72 OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT
35.73 OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT
35.81 TOTAL REPAIR OF TETRALOGY OF FALLOT
35.82 TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION
35.83 TOTAL REPAIR OF TRUNCUS ARTERIOSUS
35.84 TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED
35.91 INTERATRIAL TRANSPOSITION OF VENOUS RETURN
35.92 CREATION OF CONDUIT BETWEEN RIGHT VENTRICLE AND PULMONARY ARTERY
35.93 CREATION OF CONDUIT BETWEEN LEFT VENTRICLE AND AORTA
35.94 CREATION OF CONDUIT BETWEEN ATRIUM AND PULMONARY ARTERY
35.95 REVISION OF CORRECTIVE PROCEDURE ON HEART
35.98 OTHER OPERATIONS ON SEPTA OF HEART
35.99 OTHER OPERATIONS ON VALVES OF HEART
36.03 OPEN CHEST CORONARY ARTERY ANGIOPLASTY
36.10 AORTOCORONARY BYPASS FOR HEART REVASCULARIZATION, NOT OTHERWISE SPECIFIED

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36.11 (AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY
36.12 (AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES
36.13 (AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES
36.14 (AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES
36.15 SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS
36.16 DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS
36.17 ABDOMINAL -CORONARY ARTERY BYPASS
36.19 OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION
36.2 HEART REVASCULARIZATION BY ARTERIAL IMPLANT
36.31 OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION
36.32 OTHER TRANSMYOCARDIAL REVASCULARIZATION
36.39 OTHER HEART REVASCULARIZATION
36.91 REPAIR OF ANEURYSM OF CORONARY VESSEL
36.99 OTHER OPERATIONS ON VESSELS OF HEART
37.0 PERICARDIOCENTESIS
37.10 INCISION OF HEART, NOT OTHERWISE SPECIFIED
37.11 CARDIOTOMY
37.12 PERICARDIOTOMY
37.31 PERICARDIECTOMY
37.32 EXCISION OF ANEURYSM OF HEART
37.33 EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
37.35 PARTIAL VENTRICULECTOMY
37.41 IMPLANTATION OF PROSTHETIC CARDIAC SUPPORT DEVICE AROUND THE HEART
37.49 OTHER REPAIR OF HEART AND PERICARDIUM
37.51 HEART TRANSPLANTATION
37.52 IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
37.53 REPLACEMENT OF REPAIR OF THORACIC UNIT OF TOTAL REPLACEMENT HEART SYSTEM
37.54 REPLACEMENT OR REPAIR OF OTHER IMPLANTABLE COMPONENT OF TOTAL REPLACEMENT HEART SYSTEM

37.61 IMPLANT OF PULSATION BALLOON
37.62 INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM
37.63 REPAIR OF HEART ASSIST SYSTEM
37.64 REMOVAL OF HEART ASSIST SYSTEM
37.65 IMPLANT OF EXTERNAL HEART ASSIST SYSTEM
37.66 INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM
37.67 IMPLANTATION OF CARDIOMYOSTIMULATION SYSTEM
37.91 OPEN CHEST CARDIAC MASSAGE
38.04 INCISION OF VESSEL, AORTA
38.05 INCISION OF VESSEL, OTHER THORACIC
38.44 RESECTION OF ABDOMINAL AORTA WITH GRAFT REPLACEMENT
38.45 RESECTION OF THORACIC VESSEL WITH GRAFT REPLACEMENT
38.64 EXCISION OF LESION OF AORTA
38.65 EXCISION OF LESION OTHER THORACIC VESSEL
38.84 LIGATION , DIVISION OF AORTA
38.85 LIGATION, DIVISION OF OTHER THORACIC VESSELS
39.0 SYSTEMIC TO PULMONARY ARTERY SHUNT
39.21 CAVAL-PULMONARY ARTERY ANASTOMOSIS
39.22 AORTA-SUBCLAVIAN-CAROTID BYPASS
39.23 OTHER INTRATHORACIC VASCULAR SHUNT OR BYPASS

Appendix B - Poisonings as of February 2009

960.0 POISONING-PENICILLINS	963.5 POISONING-VITAMINS NEC
960.1 POIS-ANTIFUNGAL ANTIBIOT	963.8 POISONING-SYSTEM AGT NEC
960.2 POISON-CHLORAMPHENICOL	963.9 POISONING-SYSTEM AGT NOS
960.3 POIS-ERYTHROMYC/MACROLID	964.0 POISONING-IRON/COMPOUNDS
960.4 POISONING-TETRACYCLINE	964.1 POISON-LIVER/ANTIEMICS
960.5 POIS-CEPHALOSPORIN GROUP	964.2 POISONING-ANTICOAGULANTS
960.6 POIS-ANTIMYCOBAC ANTIBIO	964.3 POISONING-VITAMIN K
960.7 POIS-ANTINEOP ANTIBIOTIC	964.4 POISON-FIBRINOLYSIS AGNT
960.8 POISONING-ANTIBIOTIC NEC	964.5 POISONING-COAGULANTS
960.9 POISONING-ANTIBIOTIC NOS	964.6 POISONING-GAMMA GLOBULIN
961.0 POISONING-SULFONAMIDES	964.7 POISONING-BLOOD PRODUCT
961.1 POIS-ARSENIC ANTI-INFEC	964.8 POISONING-BLOOD AGT NEC
961.2 POIS-HEAV MET ANTI-INFEC	964.9 POISONING-BLOOD AGT NOS
961.3 POIS-QUINOLINE/HYDROXYQU	965.1 POISONING-SALICYLATES
961.4 POISONING-ANTIMALARIALS	965.4 POIS-AROM ANALGESICS NEC
961.5 POIS-ANTIPROTOZ DRUG NEC	965.5 POISONING-PYRAZOLE DERIV
961.6 POISONING-ANTHELMINTICS	965.61 POIS-PROPIONIC ACID DERV
961.7 POISONING-ANTIVIRAL DRUG	965.69 POISON-ANTIRHEUMATIC NEC
961.8 POIS-ANTIMYCOBAC DRG NEC	965.7 POIS-NO-NARC ANALGES NEC
961.9 POIS-ANTI-INFECT NEC/NOS	965.9 POIS-ANALGES/ANTIPYR NOS
962.0 POIS-CORTICOSTEROIDS	970.0 POISONING-ANAESTHETICS
962.1 POISONING-ANDROGENS	970.1 POISON-OPIATE ANTAGONIST
962.2 POISONING-OVARIAN HORMON	970.8 POIS-CNS STIMULANTS NEC
962.3 POISON-INSULIN/ANTIDIAB	970.9 POIS-CNS STIMULANT NOS
962.4 POIS-ANT PITUITARY HORM	971.0 POIS-PARASYMPATHOMIMETIC
962.5 POIS-POST PITUITARY HORM	971.1 POIS-PARASYMPATHOLYTICS
962.6 POISONING-PARATHYROIDS	971.2 POISON-SYMPATHOMIMETICS
962.7 POISONING-THYROID/DERIV	971.3 POISONING-SYMPATHOLYTICS
962.8 POISON-ANTITHYROID AGENT	971.9 POIS-AUTONOMIC AGENT NOS
962.9 POISONING HORMON NEC/NOS	972.0 POIS-CARD RHYTHM REGULAT
963.0 POIS-ANTIALLRG/ANTIEMET	972.1 POISONING-CARDIOTONICS
963.1 POIS-ANTINEOPL/IMMUNOSUP	972.2 POISONING-ANTILIPEMICS
963.2 POISONING-ACIDIFYING AGT	972.3 POIS-GANGLION BLOCK AGT
963.3 POISONING-ALKALIZING AGT	972.4 POIS-CORONARY VASODILAT
963.4 POISONING-ENZYMES NEC	972.5 POISON-VASODILATOR NEC

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972.6 POIS-ANTIHYPERTEN AGENT	976.3 POIS-EMOL/DEMUL/PROTECT
972.7 POISON-ANTIVARICOSE DRUG	976.4 POISON-HAIR/SCALP PREP
972.8 POISON-CAPILLARY ACT AGT	976.5 POIS-EYE ANTI-INFEC/DRUG
972.9 POIS-CARDIOVASC AGT NEC	976.6 POISON-ENT PREPARATION
973.0 POIS-ANTACID/ANTIGASTRIC	976.7 POIS-TOPICAL DENTAL DRUG
973.1 POIS-IRRITANT CATHARTICS	976.8 POIS-SKIN/MEMBR AGNT NEC
973.2 POIS-EMOLLIENT CATHARTIC	976.9 POIS-SKIN/MEMBR AGNT NOS
973.3 POISONING-CATHARTIC NEC	977.0 POISONING-DIETETICS
973.4 POISONING-DIGESTANTS	977.1 POISON-LIPOTROPIC DRUGS
973.5 POISONING-ANTIDIARRH AGT	977.2 POISONING-ANTIDOTES NEC
973.6 POISONING-EMETICS	977.3 POISON-ALCOHOL DETERRENT
973.8 POISONING-GI AGENTS NEC	977.4 POIS-PHARMACEUT EXCIPIEN
973.9 POISONING-GI AGENT NOS	977.8 POISON-MEDICINAL AGT NEC
974.0 POIS-MERCURIAL DIURETICS	977.9 POISON-MEDICINAL AGT NOS
974.1 POIS-PURINE DIURETICS	978.0 POISONING-BCG VACCINE
974.2 POIS-H2CO3 ANHYDRA INHIB	978.1 POIS-TYPH/PARATYPH VACC
974.3 POISONING-SALURETICS	978.2 POISONING-CHOLERA VACCIN
974.4 POISONING-DIURETICS NEC	978.3 POISONING-PLAGUE VACCINE
974.5 POIS-ELECTRO/CAL/WAT AGT	978.4 POISONING-TETANUS VACCIN
974.6 POISON-MINERAL SALTS NEC	978.5 POIS-DIPHThERIA VACCINE
974.7 POIS-URIC ACID METABOL	978.6 POIS-PERTUSSIS VACCINE
975.0 POISONING-OXYTOCIC AGENT	978.8 POIS-BACT VACCIN NEC/NOS
975.1 POIS-SMOOTH MUSCLE RELAX	978.9 POIS-MIX BACTER VACCINES
975.3 POISON-MUSCLE AGENT NEC	979.0 POISON-SMALLPOX VACCINE
975.4 POISONING-ANTITUSSIVES	979.1 POISON-RABIES VACCINE
975.5 POISONING-EXPECTORANTS	979.2 POISON-TYPHUS VACCINE
975.6 POIS-ANTI-COLD DRUGS	979.3 POIS-YELLOW FEVER VACCIN
975.7 POISONING-ANTIASTHMATICS	979.4 POISONING-MEASLES VACCIN
975.8 POIS-RESPIR DRUG NEC/NOS	979.5 POIS-POLIOMYELIT VACCINE
976.0 POIS-LOCAL ANTI-INFECT	979.6 POIS-VIRAL/RICK VACC NEC
976.1 POISONING-ANTIPRURITICS	979.7 POISONING-MIXED VACCINE
976.2 POIS-LOC ASTRING/DETERG	979.9 POIS-VACCINE/BIOLOG NEC

Appendix C - Delirium and Other Psychoses as of February 2009

296.00 BIPOL I SINGLE MANIC NOS	303.00 AC ALCOHOL INTOX-UNSPEC
296.01 BIPOL I SINGLE MANIC-MILD	303.01 AC ALCOHOL INTOX-CONTIN
296.02 BIPOL I SINGLE MANIC-MOD	303.02 AC ALCOHOL INTOX-EPIBOD
296.03 BIPOL I SING-SEV W/O PSY	305.00 ALCOHOL ABUSE-UNSPEC
296.04 BIPO I SIN MAN-SEV W PSY	305.01 ALCOHOL ABUSE-CONTINUOUS
296.05 BIPOL I SING MAN REM NOS	305.02 ALCOHOL ABUSE-EPIBODIC
296.06 BIPOL I SINGLE MANIC REM	305.30 HALLUCINOG ABUSE-UNSPEC
296.10 RECUR MANIC DIS-UNSPEC	305.31 HALLUCINOG ABUSE-CONTIN
296.11 RECUR MANIC DIS-MILD	305.32 HALLUCINOG ABUSE-EPIBOD
296.12 RECUR MANIC DIS-MOD	
296.13 RECUR MANIC DIS-SEVERE	
296.14 RECUR MANIC-SEV W PSYCHO	
296.15 RECUR MANIC-PART REMISS	
296.16 RECUR MANIC-FULL REMISS	
296.20 DEPRESS PSYCHOSIS-UNSPEC	
296.21 DEPRESS PSYCHOSIS-MILD	
296.22 DEPRESSIVE PSYCHOSIS-MOD	
296.23 DEPRESS PSYCHOSIS-SEVERE	
296.24 DEPR PSYCHOS-SEV W PSYCH	
296.25 DEPR PSYCHOS-PART REMISS	
296.26 DEPR PSYCHOS-FULL REMISS	
296.50 BIPOL I CUR DEPRES NOS	
296.51 BIPOL I CUR DEPRESS-MILD	
296.52 BIPOL I CUR DEPRESS-MOD	
296.53 BIPOL I CURR DEP W/O PSY	
296.54 BIPOL I CURRNT DEP W PSY	
296.55 BIPOL I CUR DEP REM NOS	
296.56 BIPOL I CURRNT DEP REMIS	
296.60 BIPOL I CURRNT MIXED NOS	
296.61 BIPOL I CURRNT MIX-MILD	
296.62 BIPOL I CURRNT MIXED-MOD	
296.63 BIPOL I CUR MIX W/O PSY	
296.64 BIPOL I CUR MIXED W PSY	
296.65 BIPOL I CUR MIX-PART REM	
296.66 BIPOL I CUR MIXED REMISS	
296.99 EPISODIC MOOD DISORD NEC	

Appendix D - Medical Discharges as of February 2009

052 SPINAL DISORDERS & INJURIES W CC/MCC
053 SPINAL DISORDERS & INJURIES W/O CC/MCC
054 NERVOUS SYSTEM NEOPLASMS W MCC
055 NERVOUS SYSTEM NEOPLASMS W/O MCC
056 DEGENERATIVE NERVOUS SYSTEM DISORDERS W MCC
057 DEGENERATIVE NERVOUS SYSTEM DISORDERS W/O MCC
058 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W MCC
059 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W CC
060 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W/O
CC/MCC
061 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W MCC
062 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W CC
063 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W/O CC/MCC
064 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W MCC
065 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W CC
066 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W/O CC/MCC
067 NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O
INFARCT W MCC
068 NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O
INFARCT W/O MCC
069 TRANSIENT ISCHEMIA
070 NONSPECIFIC CEREBROVASCULAR DISORDERS W MCC
071 NONSPECIFIC CEREBROVASCULAR DISORDERS W CC
072 NONSPECIFIC CEREBROVASCULAR DISORDERS W/O
CC/MCC
073 CRANIAL & PERIPHERAL NERVE DISORDERS W MCC
074 CRANIAL & PERIPHERAL NERVE DISORDERS W/O MCC
075 VIRAL MENINGITIS W CC/MCC
076 VIRAL MENINGITIS W/O CC/MCC

077 HYPERTENSIVE ENCEPHALOPATHY W MCC
078 HYPERTENSIVE ENCEPHALOPATHY W CC
079 HYPERTENSIVE ENCEPHALOPATHY W/O CC/MCC
080 NONTRAUMATIC STUPOR & COMA W MCC
081 NONTRAUMATIC STUPOR & COMA W/O MCC
082 TRAUMATIC STUPOR & COMA, COMA >1 HR W MCC
083 TRAUMATIC STUPOR & COMA, COMA >1 HR W CC
084 TRAUMATIC STUPOR & COMA, COMA >1 HR W/O CC/MCC
085 TRAUMATIC STUPOR & COMA, COMA <1 HR W MCC
086 TRAUMATIC STUPOR & COMA, COMA <1 HR W CC
087 TRAUMATIC STUPOR & COMA, COMA <1 HR W/O CC/MCC
088 CONCUSSION W MCC
089 CONCUSSION W CC
090 CONCUSSION W/O CC/MCC
091 OTHER DISORDERS OF NERVOUS SYSTEM W MCC
092 OTHER DISORDERS OF NERVOUS SYSTEM W CC
093 OTHER DISORDERS OF NERVOUS SYSTEM W/O CC/MCC
094 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W MCC
095 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W CC
096 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W/O CC/MCC
097 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W MCC
098 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W CC
099 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W/O CC/MCC
100 SEIZURES W MCC
101 SEIZURES W/O MCC
102 HEADACHES W MCC
103 HEADACHES W/O MCC
121 ACUTE MAJOR EYE INFECTIONS W CC/MCC
122 ACUTE MAJOR EYE INFECTIONS W/O CC/MCC

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

123 NEUROLOGICAL EYE DISORDERS	196 INTERSTITIAL LUNG DISEASE W MCC
124 OTHER DISORDERS OF THE EYE W MCC	197 INTERSTITIAL LUNG DISEASE W CC
125 OTHER DISORDERS OF THE EYE W/O MCC	198 INTERSTITIAL LUNG DISEASE W/O CC/MCC
146 EAR, NOSE, MOUTH & THROAT MALIGNANCY W MCC	199 PNEUMOTHORAX W MCC
147 EAR, NOSE, MOUTH & THROAT MALIGNANCY W CC	200 PNEUMOTHORAX W CC
148 EAR, NOSE, MOUTH & THROAT MALIGNANCY W/O CC/MCC	201 PNEUMOTHORAX W/O CC/MCC
149 DYSEQUILIBRIUM	202 BRONCHITIS & ASTHMA W CC/MCC
150 EPISTAXIS W MCC	203 BRONCHITIS & ASTHMA W/O CC/MCC
151 EPISTAXIS W/O MCC	204 RESPIRATORY SIGNS & SYMPTOMS
152 OTITIS MEDIA & URI W MCC	205 OTHER RESPIRATORY SYSTEM DIAGNOSES W MCC
153 OTITIS MEDIA & URI W/O MCC	206 OTHER RESPIRATORY SYSTEM DIAGNOSES W/O MCC
154 NASAL TRAUMA & DEFORMITY W MCC	207 RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR
155 NASAL TRAUMA & DEFORMITY W CC	SUPPORT 96+ HOURS
156 NASAL TRAUMA & DEFORMITY W/O CC/MCC	208 RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR
157 Dental & Oral DISEASES W MCC	SUPPORT <96 HOURS
158 DENTAL & ORAL DISEASES W CC	280 ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W
159 DENTAL & ORAL DISEASES W/O CC/MCC	MCC
175 PULMONARY EMBOLISM W MCC	281 ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W
176 PULMONARY EMBOLISM W/O MCC	CC
177 RESPIRATORY INFECTIONS & INFLAMMATIONS W MCC	282 ACUTE MYOCARDIA INFARCTION, DISCHARGED ALIVE
178 RESPIRATORY INFECTIONS & INFLAMMATIONS W CC	W/O CC/MCC
179 RESPIRATORY INFECTIONS & INFLAMMATIONS W/O	283 ACUTE MYOCARDIAL INFARCTION, EXPIRED W MCC
CC/MCC	284 ACUTE MYOCARDIAL INFARCTION, EXPIRED W CC
180 RESPIRATORY NEOPLASMS W MCC	285 ACUTE MYOCARDIAL INFARCTION, EXPIRED W/O CC/MCC
181 RESPIRATORY NEOPLASMS W CC	286 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W
182 RESPIRATORY NEOPLASMS W/O CC/MCC	MCC
183 MAJOR CHEST TRAUMA W MCC	287 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH
184 MAJOR CHEST TRAUMA W CC	W/O MCC
185 MAJOR CHEST TRAUMA W/O CC/MCC	288 ACUTE & SUBACUTE ENDOCARDITIS W MCC
186 PLEURAL EFFUSION W MCC	289 ACUTE & SUBACUTE ENDOCARDITIS W CC
187 PLEURAL EFFUSION W CC	290 ACUTE & SUBACUTE ENDOCARDITIS W/O CC/MCC
188 PLEURAL EFFUSION W/O CC/MCC	291 HEART FAILURE & SHOCK W MCC
189 PULMONARY EDEMA & RESPIRATORY FAILURE	292 HEART FAILURE & SHOCK W CC
190 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC	293 HEART FAILURE & SHOCK W/O CC/MCC
191 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W CC	294 DEEP VEIN THROMBOPHLEBITIS W CC/MCC
192 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W/O	295 DEEP VEIN THROMBOPHLEBITIS W/O CC/MCC
CC/MCC	296 CARDIAC ARREST, UNEXPLAINED W MCC
193 SIMPLE PNEUMONIA & PLEURISY W MCC	297 CARDIAC ARREST, UNEXPLAINED W CC
194 SIMPLE PNEUMONIA & PLEURISY W CC	298 CARDIAC ARREST, UNEXPLAINED W/O CC/MCC
195 SIMPLE PNEUMONIA & PLEURISY W/O CC/MCC	299 PERIPHERAL VASCULAR DISORDERS W MCC

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

300 PERIPHERAL VASCULAR DISORDERS W CC	385 INFLAMMATORY BOWEL DISEASE W MCC
301 PERIPHERAL VASCULAR DISORDERS W/O CC/MCC	386 INFLAMMATORY BOWEL DISEASE W CC
302 ATHEROSCLEROSIS W MCC	387 INFLAMMATORY BOWEL DISEASE W/O CC/MCC
303 ATHEROSCLEROSIS W/O MCC	388 G.I. OBSTRUCTION W MCC
304 HYPERTENSION W MCC	389 G.I. OBSTRUCTION W CC
305 HYPERTENSION W/O MCC	390 G.I. OBSTRUCTION W/O CC/MCC
306 CARDIAC CONGENITAL & VALVULAR DISORDERS W MCC	391 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W MCC
307 CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC	392 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
308 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC	393 OTHER DIGESTIVE SYSTEM DIAGNOSES W MCC
309 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC	394 OTHER DIGESTIVE SYSTEM DIAGNOSES W CC
310 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC/MCC	395 OTHER DIGESTIVE SYSTEM DIAGNOSES W/O CC/MCC
311 ANGINA PECTORIS	432 CIRRHOSIS & ALCOHOLIC HEPATITIS W MCC
312 SYNCOPE & COLLAPSE	433 CIRRHOSIS & ALCOHOLIC HEPATITIS W CC
313 CHEST PAIN	434 CIRRHOSIS & ALCOHOLIC HEPATITIS W/O CC/MCC
314 OTHER CIRCULATORY SYSTEM DIAGNOSES W MCC	435 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W MCC
315 OTHER CIRCULATORY SYSTEM DIAGNOSES W CC	436 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W CC
316 OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC/MCC	437 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W/O CC/MCC
368 MAJOR ESOPHAGEAL DISORDERS W MCC	438 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W MCC
369 MAJOR ESOPHAGEAL DISORDERS W CC	439 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W CC
370 MAJOR ESOPHAGEAL DISORDERS W/O CC/MCC	440 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W/O CC/MCC
371 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W MCC	441 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W MCC
372 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W CC	442 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC
373 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W/O CC/MCC	443 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC/MCC
374 DIGESTIVE MALIGNANCY W MCC	444 DISORDERS OF THE BILIARY TRACT W MCC
375 DIGESTIVE MALIGNANCY W CC	445 DISORDERS OF THE BILIARY TRACT W CC
376 DIGESTIVE MALIGNANCY W/O CC/MCC	446 DISORDERS OF THE BILIARY TRACT W/O CC/MCC
377 G.I. HEMORRHAGE W MCC	533 FRACTURES OF FEMUR W MCC
378 G.I. HEMORRHAGE W CC	534 FRACTURES OF FEMUR W/O MCC
379 G.I. HEMORRHAGE W/O CC/MCC	535 FRACTURES OF HIP & PELVIS W MCC
380 COMPLICATED PEPTIC ULCER W MCC	536 FRACTURES OF HIP & PELVIS W/O MCC
381 COMPLICATED PEPTIC ULCER W CC	
382 COMPLICATED PEPTIC ULCER W/O CC/MCC	
383 UNCOMPLICATED PEPTIC ULCER W MCC	
384 UNCOMPLICATED PEPTIC ULCER W/O MCC	

Patient Safety Indicators (PSI)**Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software**

537 SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W CC/MCC
538 SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W/O CC/MCC
539 OSTEOMYELITIS W MCC
540 OSTEOMYELITIS W CC
541 OSTEOMYELITIS W/O CC/MCC
542 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W MCC
543 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W CC
544 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W/O CC/MCC
545 CONNECTIVE TISSUE DISORDERS W MCC
546 CONNECTIVE TISSUE DISORDERS W CC
547 CONNECTIVE TISSUE DISORDERS W/O CC/MCC
548 SEPTIC ARTHRITIS W MCC
549 SEPTIC ARTHRITIS W CC
550 SEPTIC ARTHRITIS W/O CC/MCC
551 MEDICAL BACK PROBLEMS W MCC
552 MEDICAL BACK PROBLEMS W/O MCC
553 BONE DISEASES & ARTHROPATHIES W MCC
554 BONE DISEASES & ARTHROPATHIES W/O MCC
555 SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W MCC
556 SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W/O MCC
557 TENDONITIS, MYOSITIS & BURSITIS W MCC
558 TENDONITIS, MYOSITIS & BURSITIS W/O MCC
559 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
560 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
561 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
562 FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W MCC
563 FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC

564 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W MCC
565 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W CC
566 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W/O CC/MCC
592 SKIN ULCERS W MCC
593 SKIN ULCERS W CC
594 SKIN ULCERS W/O CC/MCC
595 MAJOR SKIN DISORDERS W MCC
596 MAJOR SKIN DISORDERS W/O MCC
597 MALIGNANT BREAST DISORDERS W MCC
598 MALIGNANT BREAST DISORDERS W CC
599 MALIGNANT BREAST DISORDERS W/O CC/MCC
600 NON-MALIGNANT BREAST DISORDERS W CC/MCC
601 NON-MALIGNANT BREAST DISORDERS W/O CC/MCC
602 CELLULITIS W MCC
603 CELLULITIS W/O MCC
604 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W MCC
605 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
606 MINOR SKIN DISORDERS W MCC
607 MINOR SKIN DISORDERS W/O MCC
637 DIABETES W MCC
638 DIABETES W CC
639 DIABETES W/O CC/MCC
640 NUTRITIONAL & MISC METABOLIC DISORDERS W MCC
641 NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
642 INBORN ERRORS OF METABOLISM
643 ENDOCRINE DISORDERS W MCC
644 ENDOCRINE DISORDERS W CC
645 ENDOCRINE DISORDERS W/O CC/MCC
682 RENAL FAILURE W MCC
683 RENAL FAILURE W CC
684 RENAL FAILURE W/O CC/MCC
685 ADMIT FOR RENAL DIALYSIS
686 KIDNEY & URINARY TRACT NEOPLASMS W MCC
687 KIDNEY & URINARY TRACT NEOPLASMS W CC
688 KIDNEY & URINARY TRACT NEOPLASMS W/O CC/MCC
689 KIDNEY & URINARY TRACT INFECTIONS W MCC
690 KIDNEY & URINARY TRACT INFECTIONS W/O MCC

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691 URINARY STONES W ESW LITHOTRIPSY W CC/MCC
692 URINARY STONES W ESW LITHOTRIPSY W/O CC/MCC
693 URINARY STONES W/O ESW LITHOTRIPSY W MCC
694 URINARY STONES W/O ESW LITHOTRIPSY W/O MCC
695 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W MCC
696 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
697 URETHRAL STRICTURE
698 OTHER KIDNEY & URINARY TRACT DIAGNOSES W MCC
699 OTHER KIDNEY & URINARY TRACT DIAGNOSES W CC
700 OTHER KIDNEY & URINARY TRACT DIAGNOSES W/O
CC/MCC
722 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W MCC
723 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W CC
724 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W/O
CC/MCC
725 BENIGN PROSTATIC HYPERTROPHY W MCC
726 BENIGN PROSTATIC HYPERTROPHY W/O MCC
727 INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W
MCC
728 INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM
W/O MCC
729 OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W
CC/MCC
730 OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W/O
CC/MCC
754 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W MCC
755 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC
756 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O
CC/MCC
757 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W MCC
758 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W CC
759 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W/O
CC/MCC
760 MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM
DISORDERS W CC/MCC
761 MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM
DISORDERS W/O CC/MCC
774 VAGINAL DELIVERY W COMPLICATING DIAGNOSES
775 VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES

776 POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R.
PROCEDURE
777 ECTOPIC PREGNANCY
778 THREATENED ABORTION
779 ABORTION W/O D&C
780 FALSE LABOR
781 OTHER ANTEPARTUM DIAGNOSES W MEDICAL
COMPLICATIONS
782 OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL
COMPLICATIONS
789 NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE
CARE FACILITY
790 EXTREME IMMATURETY OR RESPIRATORY DISTRESS
SYNDROME, NEONATE
791 PREMATURETY W MAJOR PROBLEMS
792 PREMATURETY W/O MAJOR PROBLEMS
793 FULL TERM NEONATE W MAJOR PROBLEMS
794 NEONATE W OTHER SIGNIFICANT PROBLEMS
795 NORMAL NEWBORN
808 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W MCC
809 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W CC
810 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W/O CC/MCC
811 RED BLOOD CELL DISORDERS W MCC
812 RED BLOOD CELL DISORDERS W/O MCC
813 COAGULATION DISORDERS
814 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W MCC
815 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC
816 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O
CC/MCC
834 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W MCC
835 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W CC
836 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W/O
CC/MCC
837 CHEMO W ACUTE LEUKEMIA AS SDX OR W HIGH DOSE
CHEMO AGENT W MCC
838 CHEMO W ACUTE LEUKEMIA AS SDX W CC OR HIGH DOSE
CHEMO AGENT

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839 CHEMO W ACUTE LEUKEMIA AS SDX W/O CC/MCC
840 LYMPHOMA & NON-ACUTE LEUKEMIA W MCC
841 LYMPHOMA & NON-ACUTE LEUKEMIA W CC
842 LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC/MCC
843 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W MCC
844 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC
845 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
846 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W MCC
847 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W CC
848 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W/O CC/MCC
849 RADIOTHERAPY
862 POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W MCC
863 POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W/O MCC
864 FEVER OF UNKNOWN ORIGIN
865 VIRAL ILLNESS W MCC
866 VIRAL ILLNESS W/O MCC
867 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W MCC
868 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W CC
869 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W/O CC/MCC
870 SEPTICEMIA W MV 96+ HOURS
871 SEPTICEMIA W/O MV 96+ HOURS W MCC
872 SEPTICEMIA W/O MV 96+ HOURS W/O MCC
880 ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION
881 DEPRESSIVE NEUROSES
882 NEUROSES EXCEPT DEPRESSIVE
883 DISORDERS OF PERSONALITY & IMPULSE CONTROL
884 ORGANIC DISTURBANCES & MENTAL RETARDATION
885 PSYCHOSES
886 BEHAVIORAL & DEVELOPMENTAL DISORDERS
887 OTHER MENTAL DISORDER DIAGNOSES
894 ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA
895 ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
896 ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W MCC
897 ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W/O MCC
913 TRAUMATIC INJURY W MCC
914 TRAUMATIC INJURY W/O MCC
915 ALLERGIC REACTIONS W MCC
916 ALLERGIC REACTIONS W/O MCC
917 POISONING & TOXIC EFFECTS OF DRUGS W MCC
918 POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
919 COMPLICATIONS OF TREATMENT W MCC
920 COMPLICATIONS OF TREATMENT W CC
921 COMPLICATIONS OF TREATMENT W/O CC/MCC
922 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W MCC
923 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O MCC
933 EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W/O SKIN GRAFT
934 FULL THICKNESS BURN W/O SKIN GRFT OR INHAL INJ
935 NON-EXTENSIVE BURNS
945 REHABILITATION W CC/MCC
946 REHABILITATION W/O CC/MCC
947 SIGNS & SYMPTOMS W MCC
948 SIGNS & SYMPTOMS W/O MCC
949 AFTERCARE W CC/MCC
950 AFTERCARE W/O CC/MCC
951 OTHER FACTORS INFLUENCING HEALTH STATUS
963 OTHER MULTIPLE SIGNIFICANT TRAUMA W MCC
964 OTHER MULTIPLE SIGNIFICANT TRAUMA W CC
965 OTHER MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
974 HIV W MAJOR RELATED CONDITION W MCC
975 HIV W MAJOR RELATED CONDITION W CC
976 HIV W MAJOR RELATED CONDITION W/O CC/MCC
977 HIV W OR W/O OTHER RELATED CONDITION

Appendix E - Surgical Discharges as of February 2009

052 SPINAL DISORDERS & INJURIES W CC/MCC
053 SPINAL DISORDERS & INJURIES W/O CC/MCC
054 NERVOUS SYSTEM NEOPLASMS W MCC
055 NERVOUS SYSTEM NEOPLASMS W/O MCC
056 DEGENERATIVE NERVOUS SYSTEM DISORDERS W MCC
057 DEGENERATIVE NERVOUS SYSTEM DISORDERS W/O MCC
058 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W MCC
059 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W CC
060 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W/O
CC/MCC
061 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W MCC
062 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W CC
063 ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC
AGENT W/O CC/MCC
064 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W MCC
065 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W CC
066 INTRACRANIAL HEMORRHAGE OR CEREBRAL
INFARCTION W/O CC/MCC
067 NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O
INFARCT W MCC
068 NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O
INFARCT W/O MCC
069 TRANSIENT ISCHEMIA
070 NONSPECIFIC CEREBROVASCULAR DISORDERS W MCC
071 NONSPECIFIC CEREBROVASCULAR DISORDERS W CC
072 NONSPECIFIC CEREBROVASCULAR DISORDERS W/O
CC/MCC
073 CRANIAL & PERIPHERAL NERVE DISORDERS W MCC
074 CRANIAL & PERIPHERAL NERVE DISORDERS W/O MCC
075 VIRAL MENINGITIS W CC/MCC
076 VIRAL MENINGITIS W/O CC/MCC
077 HYPERTENSIVE ENCEPHALOPATHY W MCC

078 HYPERTENSIVE ENCEPHALOPATHY W CC
079 HYPERTENSIVE ENCEPHALOPATHY W/O CC/MCC
080 NONTRAUMATIC STUPOR & COMA W MCC
081 NONTRAUMATIC STUPOR & COMA W/O MCC
082 TRAUMATIC STUPOR & COMA, COMA >1 HR W MCC
083 TRAUMATIC STUPOR & COMA, COMA >1 HR W CC
084 TRAUMATIC STUPOR & COMA, COMA >1 HR W/O CC/MCC
085 TRAUMATIC STUPOR & COMA, COMA <1 HR W MCC
086 TRAUMATIC STUPOR & COMA, COMA <1 HR W CC
087 TRAUMATIC STUPOR & COMA, COMA <1 HR W/O CC/MCC
088 CONCUSSION W MCC
089 CONCUSSION W CC
090 CONCUSSION W/O CC/MCC
091 OTHER DISORDERS OF NERVOUS SYSTEM W MCC
092 OTHER DISORDERS OF NERVOUS SYSTEM W CC
093 OTHER DISORDERS OF NERVOUS SYSTEM W/O CC/MCC
094 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W MCC
095 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W CC
096 BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS
SYSTEM W/O CC/MCC
097 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W MCC
098 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W CC
099 NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL
MENINGITIS W/O CC/MCC
100 SEIZURES W MCC
101 SEIZURES W/O MCC
102 HEADACHES W MCC
103 HEADACHES W/O MCC
121 ACUTE MAJOR EYE INFECTIONS W CC/MCC
122 ACUTE MAJOR EYE INFECTIONS W/O CC/MCC
123 NEUROLOGICAL EYE DISORDERS
124 OTHER DISORDERS OF THE EYE W MCC

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

125 OTHER DISORDERS OF THE EYE W/O MCC	198 INTERSTITIAL LUNG DISEASE W/O CC/MCC
146 EAR, NOSE, MOUTH & THROAT MALIGNANCY W MCC	199 PNEUMOTHORAX W MCC
147 EAR, NOSE, MOUTH & THROAT MALIGNANCY W CC	200 PNEUMOTHORAX W CC
148 EAR, NOSE, MOUTH & THROAT MALIGNANCY W/O CC/MCC	201 PNEUMOTHORAX W/O CC/MCC
149 DYSEQUILIBRIUM	202 BRONCHITIS & ASTHMA W CC/MCC
150 EPISTAXIS W MCC	203 BRONCHITIS & ASTHMA W/O CC/MCC
151 EPISTAXIS W/O MCC	204 RESPIRATORY SIGNS & SYMPTOMS
152 OTITIS MEDIA & URI W MCC	205 OTHER RESPIRATORY SYSTEM DIAGNOSES W MCC
153 OTITIS MEDIA & URI W/O MCC	206 OTHER RESPIRATORY SYSTEM DIAGNOSES W/O MCC
154 NASAL TRAUMA & DEFORMITY W MCC	207 RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT 96+ HOURS
155 NASAL TRAUMA & DEFORMITY W CC	208 RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT <96 HOURS
156 NASAL TRAUMA & DEFORMITY W/O CC/MCC	280 ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W MCC
157 DENTAL & ORAL DISEASES W MCC	281 ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W CC
158 DENTAL & ORAL DISEASES W CC	282 ACUTE MYOCARDIA INFARCTION, DISCHARGED ALIVE W/O CC/MCC
159 DENTAL & ORAL DISEASES W/O CC/MCC	283 ACUTE MYOCARDIAL INFARCTION, EXPIRED W MCC
175 PULMONARY EMBOLISM W MCC	284 ACUTE MYOCARDIAL INFARCTION, EXPIRED W CC
176 PULMONARY EMBOLISM W/O MCC	285 ACUTE MYOCARDIAL INFARCTION, EXPIRED W/O CC/MCC
177 RESPIRATORY INFECTIONS & INFLAMMATIONS W MCC	286 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W MCC
178 RESPIRATORY INFECTIONS & INFLAMMATIONS W CC	287 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O MCC
179 RESPIRATORY INFECTIONS & INFLAMMATIONS W/O CC/MCC	288 ACUTE & SUBACUTE ENDOCARDITIS W MCC
180 RESPIRATORY NEOPLASMS W MCC	289 ACUTE & SUBACUTE ENDOCARDITIS W CC
181 RESPIRATORY NEOPLASMS W CC	290 ACUTE & SUBACUTE ENDOCARDITIS W/O CC/MCC
182 RESPIRATORY NEOPLASMS W/O CC/MCC	291 HEART FAILURE & SHOCK W MCC
183 MAJOR CHEST TRAUMA W MCC	292 HEART FAILURE & SHOCK W CC
184 MAJOR CHEST TRAUMA W CC	293 HEART FAILURE & SHOCK W/O CC/MCC
185 MAJOR CHEST TRAUMA W/O CC/MCC	294 DEEP VEIN THROMBOPHLEBITIS W CC/MCC
186 PLEURAL EFFUSION W MCC	295 DEEP VEIN THROMBOPHLEBITIS W/O CC/MCC
187 PLEURAL EFFUSION W CC	296 CARDIAC ARREST, UNEXPLAINED W MCC
188 PLEURAL EFFUSION W/O CC/MCC	297 CARDIAC ARREST, UNEXPLAINED W CC
189 PULMONARY EDEMA & RESPIRATORY FAILURE	298 CARDIAC ARREST, UNEXPLAINED W/O CC/MCC
190 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC	299 PERIPHERAL VASCULAR DISORDERS W MCC
191 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W CC	300 PERIPHERAL VASCULAR DISORDERS W CC
192 CHRONIC OBSTRUCTIVE PULMONARY DISEASE W/O CC/MCC	301 PERIPHERAL VASCULAR DISORDERS W/O CC/MCC
193 SIMPLE PNEUMONIA & PLEURISY W MCC	
194 SIMPLE PNEUMONIA & PLEURISY W CC	
195 SIMPLE PNEUMONIA & PLEURISY W/O CC/MCC	
196 INTERSTITIAL LUNG DISEASE W MCC	
197 INTERSTITIAL LUNG DISEASE W CC	

Patient Safety Indicators (PSI)**Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software**

302 ATHEROSCLEROSIS W MCC
303 ATHEROSCLEROSIS W/O MCC
304 HYPERTENSION W MCC
305 HYPERTENSION W/O MCC
306 CARDIAC CONGENITAL & VALVULAR DISORDERS W MCC
307 CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
308 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC
309 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC
310 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC/MCC
311 ANGINA PECTORIS
312 SYNCOPE & COLLAPSE
313 CHEST PAIN
314 OTHER CIRCULATORY SYSTEM DIAGNOSES W MCC
315 OTHER CIRCULATORY SYSTEM DIAGNOSES W CC
316 OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC/MCC
368 MAJOR ESOPHAGEAL DISORDERS W MCC
369 MAJOR ESOPHAGEAL DISORDERS W CC
370 MAJOR ESOPHAGEAL DISORDERS W/O CC/MCC
371 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W MCC
372 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W CC
373 MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W/O CC/MCC
374 DIGESTIVE MALIGNANCY W MCC
375 DIGESTIVE MALIGNANCY W CC
376 DIGESTIVE MALIGNANCY W/O CC/MCC
377 G.I. HEMORRHAGE W MCC
378 G.I. HEMORRHAGE W CC
379 G.I. HEMORRHAGE W/O CC/MCC
380 COMPLICATED PEPTIC ULCER W MCC
381 COMPLICATED PEPTIC ULCER W CC
382 COMPLICATED PEPTIC ULCER W/O CC/MCC
383 UNCOMPLICATED PEPTIC ULCER W MCC
384 UNCOMPLICATED PEPTIC ULCER W/O MCC
385 INFLAMMATORY BOWEL DISEASE W MCC
386 INFLAMMATORY BOWEL DISEASE W CC
387 INFLAMMATORY BOWEL DISEASE W/O CC/MCC
388 G.I. OBSTRUCTION W MCC
389 G.I. OBSTRUCTION W CC
390 G.I. OBSTRUCTION W/O CC/MCC
391 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W MCC
392 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
393 OTHER DIGESTIVE SYSTEM DIAGNOSES W MCC
394 OTHER DIGESTIVE SYSTEM DIAGNOSES W CC
395 OTHER DIGESTIVE SYSTEM DIAGNOSES W/O CC/MCC
432 CIRRHOSIS & ALCOHOLIC HEPATITIS W MCC
433 CIRRHOSIS & ALCOHOLIC HEPATITIS W CC
434 CIRRHOSIS & ALCOHOLIC HEPATITIS W/O CC/MCC
435 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W MCC
436 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W CC
437 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W/O CC/MCC
438 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W MCC
439 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W CC
440 DISORDERS OF PANCREAS EXCEPT MALIGNANCY W/O CC/MCC
441 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W MCC
442 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC
443 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC/MCC
444 DISORDERS OF THE BILIARY TRACT W MCC
445 DISORDERS OF THE BILIARY TRACT W CC
446 DISORDERS OF THE BILIARY TRACT W/O CC/MCC
533 FRACTURES OF FEMUR W MCC
534 FRACTURES OF FEMUR W/O MCC
535 FRACTURES OF HIP & PELVIS W MCC
536 FRACTURES OF HIP & PELVIS W/O MCC
537 SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W CC/MCC

Patient Safety Indicators (PSI)

Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software

538 SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W/O CC/MCC
539 OSTEOMYELITIS W MCC
540 OSTEOMYELITIS W CC
541 OSTEOMYELITIS W/O CC/MCC
542 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W MCC
543 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W CC
544 PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W/O CC/MCC
545 CONNECTIVE TISSUE DISORDERS W MCC
546 CONNECTIVE TISSUE DISORDERS W CC
547 CONNECTIVE TISSUE DISORDERS W/O CC/MCC
548 SEPTIC ARTHRITIS W MCC
549 SEPTIC ARTHRITIS W CC
550 SEPTIC ARTHRITIS W/O CC/MCC
551 MEDICAL BACK PROBLEMS W MCC
552 MEDICAL BACK PROBLEMS W/O MCC
553 BONE DISEASES & ARTHROPATHIES W MCC
554 BONE DISEASES & ARTHROPATHIES W/O MCC
555 SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W MCC
556 SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W/O MCC
557 TENDONITIS, MYOSITIS & BURSITIS W MCC
558 TENDONITIS, MYOSITIS & BURSITIS W/O MCC
559 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
560 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
561 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
562 FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W MCC
563 FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
564 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W MCC

565 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W CC
566 OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W/O CC/MCC
592 SKIN ULCERS W MCC
593 SKIN ULCERS W CC
594 SKIN ULCERS W/O CC/MCC
595 MAJOR SKIN DISORDERS W MCC
596 MAJOR SKIN DISORDERS W/O MCC
597 MALIGNANT BREAST DISORDERS W MCC
598 MALIGNANT BREAST DISORDERS W CC
599 MALIGNANT BREAST DISORDERS W/O CC/MCC
600 NON-MALIGNANT BREAST DISORDERS W CC/MCC
601 NON-MALIGNANT BREAST DISORDERS W/O CC/MCC
602 CELLULITIS W MCC
603 CELLULITIS W/O MCC
604 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W MCC
605 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
606 MINOR SKIN DISORDERS W MCC
607 MINOR SKIN DISORDERS W/O MCC
637 DIABETES W MCC
638 DIABETES W CC
639 DIABETES W/O CC/MCC
640 NUTRITIONAL & MISC METABOLIC DISORDERS W MCC
641 NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
642 INBORN ERRORS OF METABOLISM
643 ENDOCRINE DISORDERS W MCC
644 ENDOCRINE DISORDERS W CC
645 ENDOCRINE DISORDERS W/O CC/MCC
682 RENAL FAILURE W MCC
683 RENAL FAILURE W CC
684 RENAL FAILURE W/O CC/MCC
685 ADMIT FOR RENAL DIALYSIS
686 KIDNEY & URINARY TRACT NEOPLASMS W MCC
687 KIDNEY & URINARY TRACT NEOPLASMS W CC
688 KIDNEY & URINARY TRACT NEOPLASMS W/O CC/MCC
689 KIDNEY & URINARY TRACT INFECTIONS W MCC
690 KIDNEY & URINARY TRACT INFECTIONS W/O MCC
691 URINARY STONES W ESW LITHOTRIPSY W CC/MCC
692 URINARY STONES W ESW LITHOTRIPSY W/O CC/MCC

Patient Safety Indicators (PSI)**Log of ICD-9-CM and DRG Coding Updates and Revisions to PSI Documentation and Software**

693 URINARY STONES W/O ESW LITHOTRIPSY W MCC
694 URINARY STONES W/O ESW LITHOTRIPSY W/O MCC
695 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W MCC
696 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
697 URETHRAL STRICTURE
698 OTHER KIDNEY & URINARY TRACT DIAGNOSES W MCC
699 OTHER KIDNEY & URINARY TRACT DIAGNOSES W CC
700 OTHER KIDNEY & URINARY TRACT DIAGNOSES W/O
CC/MCC
722 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W MCC
723 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W CC
724 MALIGNANCY, MALE REPRODUCTIVE SYSTEM W/O
CC/MCC
725 BENIGN PROSTATIC HYPERTROPHY W MCC
726 BENIGN PROSTATIC HYPERTROPHY W/O MCC
727 INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W
MCC
728 INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM
W/O MCC
729 OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W
CC/MCC
730 OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W/O
CC/MCC
754 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W MCC
755 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC
756 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O
CC/MCC
757 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W MCC
758 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W CC
759 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W/O
CC/MCC
760 MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM
DISORDERS W CC/MCC
761 MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM
DISORDERS W/O CC/MCC
774 VAGINAL DELIVERY W COMPLICATING DIAGNOSES
775 VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES
776 POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R.
PROCEDURE
777 ECTOPIC PREGNANCY

778 THREATENED ABORTION
779 ABORTION W/O D&C
780 FALSE LABOR
781 OTHER ANTEPARTUM DIAGNOSES W MEDICAL
COMPLICATIONS
782 OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL
COMPLICATIONS
789 NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE
CARE FACILITY
790 EXTREME IMMATURETY OR RESPIRATORY DISTRESS
SYNDROME, NEONATE
791 PREMATURETY W MAJOR PROBLEMS
792 PREMATURETY W/O MAJOR PROBLEMS
793 FULL TERM NEONATE W MAJOR PROBLEMS
794 NEONATE W OTHER SIGNIFICANT PROBLEMS
795 NORMAL NEWBORN
808 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W MCC
809 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W CC
810 MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS &
COAGUL W/O CC/MCC
811 RED BLOOD CELL DISORDERS W MCC
812 RED BLOOD CELL DISORDERS W/O MCC
813 COAGULATION DISORDERS
814 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W MCC
815 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC
816 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O
CC/MCC
834 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W MCC
835 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W CC
836 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W/O
CC/MCC
837 CHEMO W ACUTE LEUKEMIA AS SDX OR W HIGH DOSE
CHEMO AGENT W MCC
838 CHEMO W ACUTE LEUKEMIA AS SDX W CC OR HIGH DOSE
CHEMO AGENT
839 CHEMO W ACUTE LEUKEMIA AS SDX W/O CC/MCC
840 LYMPHOMA & NON-ACUTE LEUKEMIA W MCC
841 LYMPHOMA & NON-ACUTE LEUKEMIA W CC

Patient Safety Indicators (PSI)

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842 LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC/MCC
843 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W MCC
844 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC
845 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
846 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W MCC
847 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W CC
848 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W/O CC/MCC
849 RADIOTHERAPY
862 POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W MCC
863 POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W/O MCC
864 FEVER OF UNKNOWN ORIGIN
865 VIRAL ILLNESS W MCC
866 VIRAL ILLNESS W/O MCC
867 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W MCC
868 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W CC
869 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W/O CC/MCC
870 SEPTICEMIA W MV 96+ HOURS
871 SEPTICEMIA W/O MV 96+ HOURS W MCC
872 SEPTICEMIA W/O MV 96+ HOURS W/O MCC
880 ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION
881 DEPRESSIVE NEUROSES
882 NEUROSES EXCEPT DEPRESSIVE
883 DISORDERS OF PERSONALITY & IMPULSE CONTROL
884 ORGANIC DISTURBANCES & MENTAL RETARDATION
885 PSYCHOSES
886 BEHAVIORAL & DEVELOPMENTAL DISORDERS
887 OTHER MENTAL DISORDER DIAGNOSES
894 ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA
895 ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
896 ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W MCC
897 ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W/O MCC
913 TRAUMATIC INJURY W MCC
914 TRAUMATIC INJURY W/O MCC
915 ALLERGIC REACTIONS W MCC
916 ALLERGIC REACTIONS W/O MCC
917 POISONING & TOXIC EFFECTS OF DRUGS W MCC
918 POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
919 COMPLICATIONS OF TREATMENT W MCC
920 COMPLICATIONS OF TREATMENT W CC
921 COMPLICATIONS OF TREATMENT W/O CC/MCC
922 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W MCC
923 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O MCC
933 EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W/O SKIN GRAFT
934 FULL THICKNESS BURN W/O SKIN GRFT OR INHAL INJ
935 NON-EXTENSIVE BURNS
945 REHABILITATION W CC/MCC
946 REHABILITATION W/O CC/MCC
947 SIGNS & SYMPTOMS W MCC
948 SIGNS & SYMPTOMS W/O MCC
949 AFTERCARE W CC/MCC
950 AFTERCARE W/O CC/MCC
951 OTHER FACTORS INFLUENCING HEALTH STATUS
963 OTHER MULTIPLE SIGNIFICANT TRAUMA W MCC
964 OTHER MULTIPLE SIGNIFICANT TRAUMA W CC
965 OTHER MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
974 HIV W MAJOR RELATED CONDITION W MCC
975 HIV W MAJOR RELATED CONDITION W CC
976 HIV W MAJOR RELATED CONDITION W/O CC/MCC
977 HIV W OR W/O OTHER RELATED CONDITION

Appendix F – Operating Room Procedure Codes as of September 2012

Add code:

0221 INSERT/REPLACE EVD
0222 INTRACRAN VENT SHUNT/ANAS
1267 INSERT AQUEOUS DRAIN DEV
1753 PERC ATHER EXTRACRAN VSL
1754 PERC ATHER INTRACRAN VSL
1755 TRANSLUM COR ATHERECTOMY
1756 ATHER OTH NON-VOR VESSEL
3505 ENDOVAS REPL AORTC VALVE
3506 TRANSAPCL REP AORTC VALVE
3507 ENDOVAS REPL PULM VALVE
3508 TRNSAPCL REPL PULM VALVE
3509 ENDOVAS REPL UNS HRT VLV
3826 INSRT PRSR SNSR W/O LEAD
3977 TEMP ENDOVSC OCCLS VESSEL
3978 ENDOVAS IMPLN GRFT AORTA
4382 LAP VERTICAL GASTRECTOMY
6824 UTERINE ART EMB W COILS
6825 UTERINE ART EMB W/O COIL

Remove code:

0058 INS INTRA-ANSM PRES MNTR
0059 INTRAVASC MSMNT COR ART
0067 INTRAVAS MSMNT THORC ART
0068 INTRAVAS MSMT PERIPH ART
0069 INTRAVS MSMT VES NEC/NOS