

ICD-10-CM DIAGNOSIS CODING IN HCUP DATA: COMPARISONS WITH ICD-9-CM AND PRECAUTIONS FOR TREND ANALYSES

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EXECUTIVE SUMMARY

This document examines challenges in creating consistently defined groupings that incorporate diagnosis codes from both the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) systems. The analysis uses Agency for Healthcare Research and Quality (AHRQ) Healthcare Cost and Utilization Project (HCUP) data from 24 State Inpatient Databases (SID) and 17 State Emergency Department Databases (SEDD) in 2013, 2014, and 2015 to track and compare diagnosis volume across the two classification systems.

To investigate potential coding shifts, researchers may want to examine trends by quarter for individual ICD codes and for groupings of codes such as the Clinical Classifications Software (CCS), overall and by patient and hospital characteristics. In this document we examined changes overall, but it also may be advisable for researchers to examine trends by patient and hospital characteristics such as payer, age, and urban or rural location. Trends may differ according to whether the condition is listed in the first position (principal diagnosis) or in any position on the record (all-listed diagnoses). Researchers also may want to investigate whether changes are occurring in related CCS categories, including CCS categories that group heterogeneous codes classified as "other."

Main Findings

- Starting on October 1, 2015, there were 68,069 valid ICD-10-CM diagnosis codes, representing a nearly 20-fold increase from the 14,025 valid ICD-9-CM diagnosis codes. ICD-10-CM diagnosis codes are structured differently from ICD-9-CM codes and provide more detail. The number of codes has increased further in each of the last 2 years.
- The CCS and other classification systems are based on broad groupings of ICD-9-CM and ICD-10-CM codes; however, they still may be susceptible to fluctuations. While many CCS categories show stable trends across the transition period, a number of categories exhibited differences in trends following the transition to ICD-10-CM coding.
- Appendices to this document provide a comprehensive overview of the differences in counts of diagnoses across the coding periods for CCS categories in the State Inpatient Databases and State Emergency Department Databases.
- For inpatient data, of the 262 CCS diagnosis categories, 93 categories (35 percent) increased or decreased by less than 5 percent across the transition period. For 105 categories (40 percent), frequencies changed by 5 to 19 percent. For 39 categories (15 percent), frequencies changed by 20 to 49 percent. For 25 categories (10 percent), frequencies changed by more than 50 percent.
- Changes in frequencies can be attributable to the availability of new codes as well as changes in coding guidelines.
- Compared with CCS procedures, CCS diagnosis categories demonstrated greater stability across the transition period. For three-quarters of diagnosis categories, frequencies changed by less than 20 percent during the switch from ICD-9-CM to ICD-10-CM.

ICD-10-CM is still new and undergoing continuous revisions, modifications, and improvements. It will take time for professional coders, physicians and hospital staff, and researchers to become familiar with the new system. In addition, changes are expected as professional coding guidelines and coding assistance software continue to evolve.

It will be important to develop new categorization schemes under ICD-10-CM to enable researchers to group clinically meaningful diagnoses for analysis. This document provides examples of how analysts can examine the stability of diagnosis categorization scheme across the ICD-9-CM to ICD-10-CM transition. It only illustrates examples and does not present data on all instances in which CCS categories may be changing because of the transition to ICD-10-CM and ICD-10 Procedure Coding System (PCS). More detail on coding shifts for the specific condition of opioid use can be found in a related document titled *Trends in Opioid-related Inpatient Stays Shifted After the US Transitioned to ICD-10-CM Diagnosis Coding in 2015*, available on the ICD-10-CM/PCS Resources Web page.

When using HCUP data that include both ICD-9-CM and ICD-10-CM/PCS codes, researchers should examine the frequency of individual diagnosis codes reported by quarter to assess the advisability of combining data across the two coding time periods.

INTRODUCTION

The purpose of this document is to provide users of Healthcare Cost and Utilization Project (HCUP) data with examples of how transitioning from the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) to the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) coding system may affect analyses of data grouped using the Clinical Classifications Software (CCS). The degree to which changes to individual ICD codes influence broader groupings is largely unknown. Although this document focuses on the CCS categories, researchers may apply similar methods to investigate shifts in other systems that classify ICD codes into clinically meaningful groups.

It is important to note that the examples provided in this document are for illustrative purposes only and are not comprehensive of all instances in which the transition to the ICD-10-CM coding system affects the ability to follow trends in hospital inpatient diagnoses using individual ICD codes or categorization schemes such as CCS.

Brief Overview of ICD-9-CM Versus ICD-10-CM/PCS

On October 1, 2015, the United States transitioned from using ICD-9-CM to ICD-10-CM and ICD-10 Procedure Coding System (ICD-10-PCS) code sets to report medical diagnoses and inpatient procedures. ICD-10-CM consists of two parts:

- ICD-10-CM: diagnosis coding on inpatient and outpatient data
- ICD-10-PCS: procedure coding on inpatient data.

An overview of key differences between ICD-9-CM and ICD-10-CM/PCS is available on the HCUP-US Web site under ICD-10-CM/PCS Resources. A more detailed comparison of the ICD-9-CM and ICD-10-CM/PCS coding systems is available in the HCUP Methods Series Report #2016-02, titled Impact of ICD 10-CM/PCS on Research Using Administrative Databases. The current document focuses on differences between the ICD-9-CM and ICD-10-CM diagnosis coding systems.

Brief Description of the HCUP State Databases

State Inpatient Databases

The State Inpatient Databases (SID) include discharge-level data on inpatient stays from most, if not all, hospitals in the State. The SID include all types of inpatient stays, including transfers from another acute care hospital and stays that originated in the hospital emergency department (ED). The SID can be used to investigate questions unique to one State, to compare data from two or more States, to conduct market-area variation analyses, and to identify State-specific trends in inpatient care utilization, access, charges, and outcomes.

Starting on October 1, 2015, the SID include ICD-10-CM/PCS diagnosis codes and procedure codes. Thus, in the 2015 data year, three quarters of data are coded using ICD-9-CM and the last quarter is coded using ICD-10-CM/PCS.

State Emergency Department Databases

The State Emergency Department Databases (SEDD) include encounter-level data on ED visits that do not result in an inpatient admission to the same hospital. The SEDD contain information from ED encounters from hospital-based EDs, translated into a uniform format to facilitate multistate comparisons and analyses. The SEDD can be used to investigate access to health care in a changing health care marketplace; to identify State-specific trends in ED utilization, access, charges, and outcomes; and to conduct market-area research and small-area variation analyses.

CODING OF DIAGNOSES UNDER ICD-10-CM

Comparison of the ICD-9-CM and ICD-10-CM Code Structure

Table 1 and Figure 1 compare the two diagnosis coding systems with respect to organization and structure, code composition, and level of detail of diagnosis codes. Table 2 contains the diagnosis categories represented by the first three character values.

Table 1. Brief Comparison of ICD-9-CM and ICD-10-CM Diagnoses, October 1, 2015

ICD-9-CM	ICD-10-CM			
14,025 codes	68,069 codes			
17 chapters in ICD-9-CM Code Book	 21 chapters in ICD-10-CM Code Book New, separate chapters for— Diseases of Eye and Adnexa Diseases of Ear and Mastoid Process 			
	 Incorporated into main chapters— External Cases of Morbidity Factors Influencing Health Status and Contact With Health Services 			
	In addition, certain diseases have been reclassified to new chapters based on current medical knowledge			
3–5 characters	3–7 characters			
First character is numeric or alpha (V or E)	First character is alpha (every letter except U)			
Characters 2–5 are numeric	Character 2 is numeric; characters 3–7 can be alpha or numeric			
Decimal after 3 characters (except E codes)	Decimal after 3 characters			
No placeholder character	The placeholder "X" may be used when a code contains fewer than six characters and a seventh character applies			

ICD-9-CM	ICD-10-CM
Limited use of combination codes	Include combination codes for conditions and common symptoms or manifestations; include combination codes for poisonings and external causes
Postoperative complications listed under Injury and Poisoning chapter	Postoperative complications moved to procedure-specific body system chapters
Lack of information on laterality	Designate the left or the right side of the body when describing the location of conditions and injuries
No encounter information	Character 7 identifies whether the encounter was the initial, subsequent, or sequela-related
Lack of information on timing	Inclusion of trimesters in obstetric codes and information on timeframe specified in certain other codes
Injuries grouped by type	Injuries grouped by site of the body and then by type

Abbreviations: ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification.

Source: Casto AB (ed). ICD-10-CM Code Book, 2016. Chicago, IL: American Health Information Management Association; 2016.

ICD-9-CM ICD-10-CM (3-5 Characters) (3-7 Characters) Provide Greater Site, Severity, or Etiology Specificity Category Category Decimal After Decimal After 3rd Character 3rd Character Numeric or Alpha Numeric Alpha Numeric Numeric Note: Characters 4-7 are or Alpha not always used, and placeholder "X" may be required.

Figure 1. ICD-9-CM and ICD-10-CM Diagnosis Coding Systems

Abbreviations: ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification.

Source: Gibson T, Casto A, Young J, et al. Impact of ICD-10-CM/PCS on Research Using Administrative Databases. HCUP Methods Series Report #2016-02. Rockville, MD: Agency for Healthcare Research and Quality; 2016. http://www.hcup-us.ahrq.gov/reports/methods/methods.jsp

Table 2. ICD-10-CM Character Values

Characters 1–3	Category of Diagnosis
A00-B99	Certain infectious and parasitic diseases
C00-D49	Neoplasms
D50-D89	Diseases of the blood and blood-forming organs and certain disorders involving the
	immune mechanism
E00-E89	Endocrine, nutritional, and metabolic diseases
F01-F99	Mental, behavioral and neurodevelopmental disorders
G00-G99	Diseases of the nervous system
H00-H59	Diseases of the eye and adnexa
H60-H95	Diseases of the ear and mastoid process
100-199	Diseases of the circulatory system
J00-J99	Diseases of the respiratory system
K00-K95	Diseases of the digestive system
L00-L99	Diseases of the skin and subcutaneous tissue
M00-M99	Diseases of the musculoskeletal system and connective tissue
N00-N99	Diseases of the genitourinary system
O00-O9A	Pregnancy, childbirth, and the puerperium
P00-P96	Certain conditions originating in the perinatal period
Q00-Q99	Congenital malformations, deformations, and chromosomal abnormalities
R00-R99	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified
S00-T88	Injury, poisoning and certain other consequences of external causes
V00-Y99	External causes of morbidity

Z00-Z99	Factors influencing health status and contact with health services
Characters 4–7	Meaning
	The meaning of characters 4–7 depends on the category.
	The character "X" is used as a placeholder.

Abbreviation: ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification. Source: Casto AB, Ed. ICD-10-CM Code Book, 2016. Chicago, IL: American Health Information Management Association; 2016.

How the CCS for ICD-10-CM Was Developed

The initial mapping for the CCS ICD-10-CM categories was completed by linking ICD-10-CM codes to the current CCS AHRQ classification assignments via General Equivalence Mappings (GEMs) available from the Centers for Medicare & Medicaid Services (CMS) Web site. The initial GEMs-driven maps were reviewed by credentialed coders trained in both ICD-9-CM and ICD-10-CM to ensure the validity of the map for use in formulating the CCS categories. Two coders reviewed each code set. When the coders did not initially map a code to the same CCS category, the team reviewed the discrepancies and came to consensus for the CCS assignment, with the help of a third coder if necessary. Initial maps were completed in September 2011. The accuracy of the initial assessment was verified by reviewing a 20 percent sample of the coding assignments. In 2013, reverse mapping validation of 100 percent of the ICD-10-CM CCS assignments was conducted to verify the accuracy of the CCS mapped categories.²

After the original development and release of the HCUP Tools and Software for ICD-10-CM/PCS, questions arose from users about the decision to map specific codes into a CCS category or other HCUP Tool (e.g., Elixhauser Comorbidity Software) value. In some cases, the decision to rely on the GEMs as the basis for HCUP categorization rules has resulted in problems. For example, certain ICD-10-CM codes such as F11.121, *Opioid abuse with intoxication delirium*, include a component for drug use, abuse, or dependence as well as a behavioral disorder component for the manifestation. The GEMs map the ICD-10-CM use and abuse codes with behavioral disorders such as F11.121 to the ICD-9-CM code for the behavioral disorder. They do not map to the abuse code. Therefore, by relying on the GEMs, the ICD-10-CM Tool assignments also were based on the behavioral disorder and not the drug abuse component.

¹ For additional information on GEMS, please see Centers for Medicare & Medicaid Services. 2014 ICD-10-CM and GEMS. Last modified June 2, 2016. http://www.cms.gov/Medicare/Coding/ICD10/2014-ICD-10-CM-and-GEMs.html

² For additional information on the detailed process used to create and validate the CCS for ICD-10-CM, please see Healthcare Cost and Utilization Project. Beta Clinical Classifications Software (CCS) for 1CD-10-CM/PCS. October 2017. https://www.hcup-us.ahrq.gov/toolssoftware/ccs10/ccs10.jsp

METHODS

This document presents analyses using data from the SID and SEDD for States with data that were processed at the time of this report. A complete list of HCUP Partner Organizations is available in Appendix A. Records were limited to stays and visits at community hospitals that are not rehabilitation or long-term acute care hospitals.

The data sources were the following:

- SID data were from 24 States: Arizona, California, Colorado, Florida, Hawaii, Iowa, Illinois, Kansas, Kentucky, Minnesota, Missouri, Montana, Nebraska, New Jersey, New Mexico, Nevada, North Dakota, Ohio, Oregon, South Dakota, Tennessee, Vermont, Washington, and Wisconsin.
- SEDD data were from 17 States: Arizona, California, Florida, Hawaii, Iowa, Kansas, Kentucky, Minnesota, Missouri, Nebraska, New Jersey, North Dakota, Ohio, South Dakota, Tennessee, Vermont, and Wisconsin.

The analysis consisted of calculating estimates based on the number of stays involving various diagnoses by discharge quarter 4 (Q4) for 3 consecutive calendar years:

- Q4 2013 October 1 to December 31, 2013 (ICD-9-CM)
- Q4 2014 October 1 to December 31, 2014 (ICD-9-CM)
- Q4 2015 October 1 to December 31, 2015 (ICD-10-CM).

The data presented in this document on individual diagnoses are based on principal diagnosis for the SID and all-listed diagnoses for the SEDD. Individual codes were selected and reviewed by professional medical coders for both coding systems.

CCS categories were excluded from the analysis if there were fewer than 1,000 hospital stays in the category in all quarters analyzed. When analyzing CCS categories or the total number of codes for a single diagnosis and quarter, we calculated percentage changes from Q4 2014 to Q4 2015 and from Q4 2013 to Q4 2014. Change from Q4 2014 to Q4 2015 may represent changes associated with the introduction of ICD-10-CM/PCS as well as continuation of an existing trend. Therefore, the percentage change from Q4 2013 to Q4 2014 was used as a baseline to evaluate the change from 2014 to 2015. The results presented in this document may shift with additional quarters and years of data as experience increases with the ICD-10-CM system.

The data presented in this document on CCS categories are based on either first- or all-listed diagnosis fields, as discussed below:

- For the SID, principal diagnoses are presented for each example.
- For the SEDD, all-listed diagnoses are presented for each example.

³ Percentage change in frequency was calculated as the cumulative change in frequencies from period one to period two, divided by the frequency in period one.

The prevalence of select CCS categories was calculated at each time point, as follows:

- For principal diagnoses, the number of inpatient stays with the CCS category listed in the first diagnosis field in each quarter and year.
- For all-listed diagnoses, the number of inpatient stays with at least one diagnosis falling
 in the CCS category in each quarter and year. If the CCS category was reported more
 than once on a record, the category was counted only once. Therefore, the total
 frequencies of individual codes could be higher than the frequencies of CCS categories
 because a single hospitalization may have multiple distinct diagnosis codes in the same
 CCS category during the stay.

RESULTS

There were a total of 262 CCS diagnosis categories. We examined frequencies of discharges in each category across the ICD-9-CM to ICD-10-PCS coding transition period. As shown in Appendices B and C, which lists all CCS categories in the hospital inpatient discharge data:

- For 93 categories, frequencies changed (increased or decreased) by less than 5 percent across the transition period. This accounts for more than one-third (35 percent) of CCS diagnosis categories.
- For 105 diagnosis categories (40 percent), frequencies changed by 5 to 19 percent.
- For 39 categories (15 percent), frequencies changed by 20 to 49 percent.
- For 25 categories (10 percent), frequencies changed by more than 50 percent.

Thus, for three-quarters of all CCS diagnosis categories, frequencies changed by less than 20 percent. Compared with CCS procedure categories, there was more stability in frequencies of diagnoses.⁴

For certain groups of conditions, changes in frequencies across the transition period are especially small; cancers, cardiovascular conditions, and gastrointestinal conditions appear to be least affected by the change to ICD-10-CM.

For remaining analyses, results are presented below by CCS diagnosis category and by individual ICD-9-CM and ICD-10-CM codes within select CCS categories to illustrate a suggested approach that researchers can use to examine the transition from ICD-9-CM to ICD-10-CM. Four types of analyses are presented.

- 1. CCS principal diagnosis categories with high volumes in the SID that are relatively stable before and after the transition to ICD-10-CM
- CCS principal diagnosis categories with large decreases in volume in the SID after the implementation of ICD-10-CM

⁴ Moore BJ, Owens PL, Elixhauser A, Casto AB. ICD-10-PCS Procedure Coding in HCUP Data: Comparisons With ICD-9-CM and Precautions for Trend Analyses. Online. November 2, 2017. U.S. Agency for Healthcare Research and Quality. Available at https://www.hcup-us.ahrq.gov/datainnovations/icd10_resources.jsp#analysis.

- 3. CCS principal diagnosis categories with large *increases* in volume in the SID after the implementation of ICD-10-CM
- 4. CCS all-listed diagnosis categories with high volumes in the SEDD prior to the implementation of ICD-10-CM.

A complete list of results by CCS diagnosis category is available in Appendices B and C. Appendix B lists the results for principal diagnosis in the SID, sorted numerically by CCS diagnosis category number; thus, the findings are grouped by body system. Appendix C lists the results for principal diagnosis in the SID sorted in descending order by the percent change in the volume of records in CCS diagnosis categories across the transition period. Appendix D lists the results for all-listed diagnosis in the SEDD, also sorted numerically by CCS diagnosis category number. Appendix E lists the results for all-listed diagnosis in the SEDD sorted in descending order by the percent change in the volume of records in CCS diagnosis categories across the transition period.

CCS Principal Diagnosis Categories With High, Stable Volumes in the State Inpatient Databases After Implementation of ICD-10-CM

Table 3 presents frequencies for a select group of CCS diagnosis categories with high and stable volumes (defined as those with 10,000 or more stays that changed by less than 5 percent in the transition period) after introduction of ICD-10-CM coding.

Table 3. Frequency of Inpatient Stays With High-Volume Principal Conditions That Remained Stable Before and After Implementation of ICD-10-CM, by CCS Diagnosis Category

CCS Principal Diagnosis Category	Q4 2013,	Q4 2014, N	Q4 2015, N	Percentage Change		
	N N			2013-2014 (Baseline)	2014-2015 (Transition)	
218: Liveborn	470,149	474,957	468,240	1.0	-1.4	
657: Mood disorders	145,510	152,269	154,226	4.6	1.3	
108: Congestive heart failure; nonhypertensive	102,766	108,129	109,339	5.2	1.1	
106: Cardiac dysrhythmias	80,384	80,549	79,589	0.2	-1.2	
237: Complication of device; implant or graft	78,159	79,617	76,170	1.9	-4.3	
193: OB-related trauma to perineum and vulva	77,444	74,514	72,709	-3.8	-2.4	
100: Acute myocardial infarction	73,560	75,920	79,698	3.2	5.0	
109: Acute cerebrovascular disease	71,143	75,021	77,011	5.5	2.7	
197: Skin and subcutaneous tissue infections	70,455	70,604	71,752	0.2	1.6	
205: Spondylosis; intervertebral disc disorders; other back problems	67,790	68,137	67,978	0.5	-0.2	
659: Schizophrenia and other psychotic disorders	65,322	66,283	67,985	1.5	2.6	
50: Diabetes mellitus with complications	61,879	64,525	63,691	4.3	-1.3	
159: Urinary tract infections	60,548	62,227	60,717	2.8	-2.4	
189: Previous C-section	60,308	61,319	58,973	1.7	-3.8	

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013-2014 (Baseline)	2014-2015 (Transition)	
157: Acute and unspecified renal failure	54,297	58,645	58,613	8.0	-0.1	
149: Biliary tract disease	51,332	50,190	48,696	-2.2	-3.0	
101: Coronary atherosclerosis and other heart disease	48,556	45,138	44,975	-7.0	-0.4	
153: Gastrointestinal hemorrhage	43,789	45,689	45,028	4.3	-1.4	
145: Intestinal obstruction without hernia	42,426	42,919	42,410	1.2	-1.2	
152: Pancreatic disorders (not diabetes)	36,502	37,363	39,002	2.4	4.4	
146: Diverticulosis and diverticulitis	35,636	36,201	35,824	1.6	-1.0	
83: Epilepsy; convulsions	33,432	34,674	35,375	3.7	2.0	
661: Substance-related disorders	29,863	31,002	31,340	3.8	1.1	
99: Hypertension with complications and secondary hypertension	27,764	30,205	30,448	8.8	0.8	
233: Intracranial injury	25,976	27,328	28,664	5.2	4.9	
196: Normal pregnancy and/or delivery	24,884	23,245	23,795	-6.6	2.4	
135: Intestinal infection	24,583	25,327	25,695	3.0	1.5	
155: Other gastrointestinal disorders	24,056	24,806	25,596	3.1	3.2	
42: Secondary malignancies	23,143	23,339	22,656	0.8	-2.9	
103: Pulmonary heart disease	23,090	23,969	24,299	3.8	1.4	
143: Abdominal hernia	22,060	21,418	21,917	-2.9	2.3	
184: Early or threatened labor	20,113	19,490	18,939	-3.1	-2.8	
45: Maintenance chemotherapy; radiotherapy	19,091	19,351	18,886	1.4	-2.4	
129: Aspiration pneumonitis; food/vomitus	19,030	19,242	18,832	1.1	-2.1	
118: Phlebitis; thrombophlebitis and thromboembolism	17,195	16,118	15,953	-6.3	-1.0	
187: Malposition; malpresentation	16,719	16,595	16,439	-0.7	-0.9	
211: Other connective tissue disease	16,552	17,456	16,696	5.5	-4.4	
96: Heart valve disorders	15,498	16,710	17,511	7.8	4.8	
112: Transient cerebral ischemia	15,332	14,784	14,310	-3.6	-3.2	
47: Other and unspecified benign neoplasm	15,228	15,330	14,860	0.7	-3.1	
19: Cancer of bronchus; lung	14,770	14,604	15,097	-1.1	3.4	
154: Noninfectious gastroenteritis	14,145	14,565	14,903	3.0	2.3	
130: Pleurisy; pneumothorax; pulmonary collapse	13,264	13,288	13,022	0.2	-2.0	
653: Delirium, dementia, and amnestic and other cognitive disorders	13,233	13,455	13,138	1.7	-2.4	
46: Benign neoplasm of uterus	12,638	13,324	12,745	5.4	-4.3	
144: Regional enteritis and ulcerative colitis	11,580	11,955	12,131	3.2	1.5	
14: Cancer of colon	11,288	11,217	11,083	-0.6	-1.2	
234: Crushing injury or internal injury	10,886	11,314	11,528	3.9	1.9	
115: Aortic; peripheral; and visceral artery aneurysms	10,410	10,576	10,924	1.6	3.3	

Abbreviations: CCS, Clinical Classifications Software; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Notes: A complete set of results for all CCS categories is available in Appendices $\underline{\underline{D}}$ and $\underline{\underline{C}}$ for the State Inpatient Databases (SID) and Appendices $\underline{\underline{D}}$ and $\underline{\underline{E}}$ for the State Emergency Department Databases. Source: Healthcare Cost and Utilization Project SID from 24 States.

Of the 262 CCS categories (excluding the categories for E-codes), 97 CCS categories (37 percent) had 10,000 or more stays in Q4 of 2013, 2014, or 2015 in these 24 States. Of these 97 high-volume CCS categories, the number of stays changed by less than 5 percent between Q4 2014 and Q4 2015 for the 49 CCS categories shown in Table 3. Overall, the 49 high-volume CCS categories in Table 3 constitute 53 percent of all inpatient stays in these 24 States in Q4 2015. For these diagnosis categories, it seems reasonable to examine trends crossing the ICD-9-CM to ICD-10-CM transition.

CCS Principal Diagnosis Categories With Large Decreases in Volume in ICD-10-CM

Table 4 presents frequencies of inpatient stays with diagnoses for which the volume by CCS category decreased by at least 30 percent from Q4 2014 to Q4 2015, after the introduction of ICD-10-CM coding. This table includes diagnoses that had at least 1,000 cases in the fourth quarter of 2013 or 2014 (the baseline period) for the 24 States examined here.

Table 4. CCS Principal Diagnosis Categories With a Decrease in Frequency of at Least 30 Percent During the Transition From ICD-9-CM to ICD-10-CM

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change	
CCS Principal Diagnosis Category	N N	N N	N N	2013-2014 (Baseline)	2014-2015 (Transition)
254: Rehabilitation care; fitting of prostheses; and adjustment of devices	68,514	69,378	159	1.3	-99.8
123: Influenza	6,105	18,537	1,980	203.6	-89.3
194: Forceps delivery	1,159	988	296	-14.8	-70.0
241: Poisoning by psychotropic agents	9,936	10,328	4,190	3.9	- 59.4
160: Calculus of urinary tract	16,825	16,566	6,889	-1.5	-58.4
49: Diabetes mellitus without complication	1,890	1,930	865	2.1	-55.2
8: Other infections; including parasitic	1,328	1,243	582	-6.4	-53.2
85: Coma; stupor; and brain damage	2,162	1,922	974	-11.1	-49.3
670: Miscellaneous disorders	6,562	6,728	3,511	2.5	-47.8
128: Asthma	41,725	42,474	23,965	1.8	-43.6
81: Other hereditary and degenerative nervous system conditions	5,242	5,397	3,089	3.0	-42.8
171: Menstrual disorders	5,978	5,281	3,268	-11.7	-38.1
212: Other bone disease and musculoskeletal deformities	9,330	9,496	6,306	1.8	-33.6
158: Chronic kidney disease	2,879	2,590	1,766	-10.0	-31.8
217: Other congenital anomalies	6,421	6,661	4,592	3.7	-31.1
6: Hepatitis	5,726	5,575	3,845	-2.6	-31.0

Abbreviations: CCS, Clinical Classifications Software; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Notes: The CCS categories in the table are select categories with at least 1,000 stays in Q4 2013 or 2014. A complete set of results for all CCS categories is available in Appendices $\underline{\mathtt{B}}$ and $\underline{\mathtt{C}}$ for the State Inpatient Databases (SID) and Appendices $\underline{\mathtt{D}}$ and $\underline{\mathtt{E}}$ for the State Emergency Department Databases. Source: Healthcare Cost and Utilization Project SID from 24 States.

There were 16 CCS categories with at least 1,000 stays in the baseline period for which the number of stays decreased by 30 percent or more between Q4 2014 and Q4 2015. The CCS categories with the highest volumes of stays for which we observed such a change were category 254, *Rehabilitation care*, *fitting of prostheses*, *and adjustment of devices* (decreased from 69,378 to 159, by 99.8 percent); 128, *Asthma* (decreased from 42,474 to 23,965, by 43.6 percent); and 160, *Calculus of urinary tract* (decreased from 16,566 to 6,889, by 58.4 percent).

As an example, Table 5 presents the individual ICD-9-CM and ICD-10-CM codes for CCS category 128, *Asthma* in each quarter. Across the ICD-9-CM to ICD-10-CM transition, the number of asthma discharges decreased by 43.6 percent (18,509 discharges). It appears that most of the decrease is due to a change in coding guidelines and the CCS classification rules for chronic obstructive asthma.

Table 5. Frequency of Inpatient Stays With a Principal Diagnosis of CCS 128, Asthma, and CCS 127, Chronic Obstructive Pulmonary Disease and Bronchiectasis

Code and Description ^a		Q4 2014, N	Q4 2015, N
CCS 128: Asthma	41,725	42,474	23,965
ICD-9-CM codes			
493.01: Extrinsic asthma, with status asthmaticus	1,563	1,473	
493.02: Extrinsic asthma, with (acute) exacerbation	1,760	1,660	
493.12: Intrinsic asthma, with (acute) exacerbation	122	134	
493.20: Chronic obstructive asthma, unspecified	359	363	
493.21: Chronic obstructive asthma, with status asthmaticus	496	468	
493.22: Chronic obstructive asthma, with (acute) exacerbation	14,101	15,474	
493.90: Asthma, unspecified type, unspecified	1,465	1,381	
493.91: Asthma, unspecified type, with status asthmaticus	5,169	4,732	
493.92: Asthma unspecified type, with (acute) exacerbation	16,532	16,636	
ICD-10-CM codes			
J45.21: Mild intermittent asthma, with (acute) exacerbation			1,021
J45.22: Mild intermittent asthma, with status asthmaticus			684
J45.31: Mild persistent asthma, with (acute) exacerbation			843
J45.32: Mild persistent asthma, with status asthmaticus			602
J45.41: Moderate persistent asthma, with (acute) exacerbation			1,679
J45.42: Moderate persistent asthma, with status asthmaticus			1,148
J45.51: Severe persistent asthma, with (acute) exacerbation			1,129
J45.52: Severe persistent asthma, with status asthmaticus			680
J45.901: Unspecified asthma, with (acute) exacerbation			12,111
J45.902: Unspecified asthma, with status asthmaticus			2,926

Code and Description ^a	Q4 2013, N	Q4 2014, N	Q4 2015, N
J45.909: Unspecified asthma, uncomplicated			974

Abbreviations: CCS, Clinical Classifications Software; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Note: Only ICD-9-CM and ICD-10-CM codes with at least 100 stays in each cell are displayed in the table. Source: Healthcare Cost and Utilization Project State Inpatient Databases from 24 States.

Under ICD-9-CM, CCS category 128, *Asthma*, included diagnosis subcategory 493.2x, *Chronic obstructive asthma*. These ICD-9-CM diagnosis codes collectively accounted for 14,956 discharges in Q4 2013 and 16,305 discharges in Q4 2014.

Under ICD-10-CM, chronic obstructive asthma is recorded using diagnosis category J44.-, *Other chronic obstructive pulmonary disease* (COPD). These diagnosis codes are classified under CCS category 127, *Chronic obstructive pulmonary disease and bronchiectasis* (also presented in Table 5), rather than CCS 128, *Asthma*. In Q4 2015, there were 70,929 discharges with a principal diagnosis of J44.-. However, this count far exceeds the number of stays with *Chronic obstructive asthma* captured by ICD-9-CM code 493.2x in 2013 and 2014. Part of this total likely would represent cases previously coded as 493.2x in ICD-9-CM and part likely would be due to other conditions previously coded as a form of COPD. CCS 127, *COPD and bronchiectasis*, only increased by 3,629 discharges (5.2 percent) during the ICD-10-CM transition period. Therefore, it is not possible to determine which discharges with a diagnosis of J44.- should instead be mapped to CCS 128, *Asthma*, to maintain a consistent trend from ICD-9-CM to ICD-10-CM.

Notably, ICD-10-CM coding guidelines specify that when applicable, coders should use a J45 asthma code along with the J44 COPD code. For example, the American Hospital Association (AHA) Coding Clinic™ for ICD-10-CM published a scenario about the appropriate coding assignment for a diagnosis of acute exacerbation of chronic obstructive pulmonary disease with acute exacerbation of moderate persistent asthma.⁵ The guidance directs coders to assign both code J44.1, *Chronic obstructive pulmonary disease with (acute) exacerbation* and J45.41, *Moderate persistent asthma with (acute) exacerbation.* Despite these coding guidelines, based on the J45 totals reported in Table 5 (and in turn, the CCS 128 totals for Q4 2015), it does not appear that double coding occurred in all cases.

5

⁵ AHA Coding Clinic support statement related to the coding of acute exacerbation of chronic obstructive pulmonary disease with acute exacerbation of moderate persistent asthma was published in AHA Coding Clinic, 1Q 2017, page 26. Chicago, IL: American Hospital Association.

CCS Principal Diagnosis Categories With Large Increases in Volume in ICD-10-CM

Table 6 presents frequencies of inpatient stays with diagnoses where the volume by CCS category increased by at least 30 percent from Q4 2014 to Q4 2015, after the introduction of ICD-10-CM coding. This table includes diagnoses that had at least 1,000 cases in the fourth quarter of 2015 for the 24 States examined here.

Table 6. CCS Principal Diagnosis Categories With an Increase in Frequency of at Least 30 Percent During the Transition From ICD-9-CM to ICD-10-CM

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013-2014 (Baseline)	2014-2015 (Transition)	
662: Suicide and intentional self-inflicted injury	355	427	16,177	20.3	3,688.5	
249: Shock	278	266	2,264	-4.3	751.1	
113: Late effects of cerebrovascular disease	2,152	2,103	16,010	-2.3	661.3	
258: Other screening for suspected conditions (not mental disorders or infectious disease)	321	263	1,533	-18.1	482.9	
257: Other aftercare	4,221	3,926	19,170	-7.0	388.3	
3: Bacterial infection; unspecified site	853	879	3,459	3.0	293.5	
161: Other diseases of kidney and ureters	5,045	5,032	14,270	-0.3	183.6	
82: Paralysis	1,065	1,187	2,936	11.5	147.3	
252: Malaise and fatigue	3,062	3,344	7,133	9.2	113.3	
79: Parkinson`s disease	1,487	1,619	2,748	8.9	69.7	
210: Systemic lupus erythematosus and connective tissue disorders	2,022	2,033	3,406	0.5	67.5	
98: Essential hypertension	5,905	5,839	9,306	-1.1	59.4	
209: Other acquired deformities	7,701	7,899	11,732	2.6	48.5	
228: Skull and face fractures	5,643	5,728	7,943	1.5	38.7	
244: Other injuries and conditions due to external causes	7,811	7,771	10,589	-0.5	36.3	
201: Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease)	10,343	10,494	14,074	1.5	34.1	
243: Poisoning by nonmedicinal substances	1,557	1,716	2,286	10.2	33.2	

Abbreviations: CCS, Clinical Classifications Software; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Notes: The CCS categories in the table are select categories with at least 1,000 stays in at least one quarter. A complete set of results for all CCS categories is available in Appendices $\underline{\mathbb{D}}$ and $\underline{\mathbb{C}}$ for the State Inpatient Databases (SID) and Appendices $\underline{\mathbb{D}}$ and $\underline{\mathbb{E}}$ for the State Emergency Department Databases. Source: Healthcare Cost and Utilization Project SID from 24 States.

There were 17 CCS categories with at least 1,000 stays in the fourth quarter of 2015 for which the number of stays increased by 30 percent or more over the transition period. The CCS categories with the largest percent increases were 662, *Suicide and intentional self-inflicted injury* (increased from 427 to 16,177, by 3,688.5 percent); 249, *Shock* (increased from 266 to

2,264, by 751.1 percent); and 113, *Late effects of cerebrovascular disea*se (increased from 2,103 to 16,010, by 661.3 percent).

As an example, Table 7 presents the individual ICD-9-CM and ICD-10-CM codes for CCS category 113, *Late effects of cerebrovascular disease*. This condition increased by 661.3 percent during the 2014–2015 transition. It appears that much of the increase is attributable to discharges with ICD-10-CM codes of I69.35x, *Hemiplegia and hemiparesis following cerebral infarction*. Combined, this group of codes constituted 8,752 stays in Q4 2015—more than half of all stays with a CCS category 113 principal diagnosis. The number of I69.35x discharges in Q4 2015 alone is more than four times the Q4 CCS category 113 discharge totals under ICD-9-CM (2,152 in Q4 2013 and 2,103 in Q4 2014).

Table 7. Frequency of Inpatient Stays With a Principal Diagnosis of CCS 113, Late Effects of Cerebrovascular Disease

Code and Description	Q4 2013, N	Q4 2014, N	Q4 2015, N
CCS 113: Late effects of cerebrovascular disease (CVD)	2,152	2,103	16,010
ICD-9-CM codes			
438.20: Late effects of CVD hemiplegia affecting unspecified side	304	288	
438.82: Other late effects of CVD dysphagia	127	144	
438.89: Other late effects of CVD	1,288	1,240	
ICD-10-CM codes	-	•	•
I69.11: Cognitive deficits following nontraumatic intracerebral hemorrhage			115
I69.151: Hemiplegia & hemiparesis follow nontraumatic intracerebral hemorrhage affecting right dominant side			359
I69.154: Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting left non- dominant side			423
I69.198: Other sequelae of nontraumatic intracerebral hemorrhage			140
I69.251: Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting right dominant side			228
I69.254: Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting left non-dominant side			243
I69.298: Other sequelae of other nontraumatic intracranial hemorrhage			108
I69.30: Unspecified sequelae of cerebral infarction			102
I69.31: Cognitive deficits following cerebral infarction			393
I69.320: Aphasia following cerebral infarction			495
I69.322: Dysarthria following cerebral infarction			214
I69.351: Hemiplegia and hemiparesis following cerebral infarction affecting right dominant side			3,999
I69.352: Hemiplegia and hemiparesis following cerebral infarction affecting left dominant side			225

Code and Description	Q4 2013, N	Q4 2014, N	Q4 2015, N
I69.353: Hemiplegia and hemiparesis following cerebral infarction affecting right non-dominant side			133
I69.354: Hemiplegia and hemiparesis following cerebral infarction affecting left non-dominant side			4,144
I69.359: Hemiplegia and hemiparesis following cerebral infarction affecting unspecified side			251
I69.391: Dysphagia following cerebral infarction			446
I69.393: Ataxia following cerebral infarction			500
I69.398: Other sequelae of cerebral infarction			1,368
I69.998: Other sequelae following unspecified cerebrovascular disease			105
I69.951: Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting right dominant side			151
I69.954: Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting left non-dominant side			181

Abbreviations: CCS, Clinical Classifications Software; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Note: Only ICD-9-CM and ICD-10-PCS codes with at least 100 stays in each cell are displayed in the table. Please see https://www.hcup-us.ahrq.gov/tools_software.jsp for a full list of codes included in the Clinical Classifications Software categories.

Source: Healthcare Cost and Utilization Project State Inpatient Databases from 24 States.

Codes in category I69, Sequelae of cerebrovascular disease, can be reported as principal or secondary diagnosis depending on the circumstances of the admission. One area of interest is rehabilitation admission/encounter coding. The principal diagnosis assignment was drastically changed from ICD-9-CM. In ICD-9-CM an aftercare code from category V57, Care involving use of rehabilitation procedures, was reported as the principal diagnosis for rehabilitation admission/encounters. However, under ICD-10-CM guidelines the principal diagnosis for a rehabilitation admission is the condition for which the service is being performed rather than an aftercare code.⁶ The official guideline states:

When the purpose for the admission/encounter is rehabilitation, sequence first the code for the condition for which the service is being performed. For example, for an admission/encounter for rehabilitation for right-sided dominant hemiplegia following a cerebrovascular infarction, report code I69.351, Hemiplegia and hemiparesis following cerebral infarction affecting right dominant side, as the first-listed or principal diagnosis.

Therefore, the increase in volume for I69 codes is most likely due to rehabilitation admissions. The rehabilitation cases for sequela of cerebrovascular disease patients are no longer included in CCS 254, *Rehabilitation care; fitting of prostheses; and adjustment of devices* (see Table 4) but instead are now included in CCS 113, *Late effects of cerebrovascular disease*.

⁶ National Center for Health Statistics. ICD-10-CM Official Guidelines for Coding and Reporting FY 2018, Section II.K, p. 105. Available at https://www.cdc.gov/nchs/data/icd/10cmguidelines_fy2018_final.pdf.

CCS Diagnoses in the State Emergency Department Databases

Principal diagnoses in the SID are assigned at the date of discharge and describe the chief reason for obtaining care. The SEDD is a database of outpatient data, and diagnoses in the SEDD more often correspond to patient symptoms than to medical conditions. The CCS categories frequently observed in the SEDD often are quite different from the categories frequently observed in the SID. In this document, we present frequencies for CCS <u>all-listed diagnosis</u> categories in the SEDD, because the concept of "principal diagnosis" does not apply to ED data.

Table 8 presents frequencies for a select group of CCS diagnosis categories in the SEDD with the 20 most frequent conditions prior to the introduction of ICD-10-CM coding.

Table 8. Frequency of All-Listed Diagnoses Seen During Treat-and-Release ED Visits, 20 Most Frequent Diagnoses Prior to ICD-10-CM (2013 and 2014), by CCS Diagnosis Category

	04 2012	Q4 2013, Q4 2014, N		Percentage Change		
All-Listed CCS Diagnosis Category	-			2013-2014 (Baseline)	2014-2015 (Transition)	
98: Essential hypertension	1,492,260	1,751,860	1,913,340	17.4	9.2	
663: Screening and history of mental health and substance abuse codes	1,395,868	1,842,596	576,158	32.0	-68.7	
257: Other aftercare	1,025,093	1,280,647	1,376,224	24.9	7.5	
251: Abdominal pain	905,240	968,221	1,021,109	7.0	5.5	
126: Other upper respiratory infections	848,426	1,012,203	931,348	19.3	-8.0	
259: Residual codes; unclassified	756,223	887,782	1,372,391	17.4	54.6	
239: Superficial injury; contusion	717,984	728,365	727,857	1.4	-0.1	
205: Spondylosis; intervertebral disc disorders; other back problems	715,501	786,293	780,491	9.9	-0.7	
49: Diabetes mellitus without complication	694,938	811,320	775,047	16.7	-4.5	
250: Nausea and vomiting	654,491	700,121	701,576	7.0	0.2	
133: Other lower respiratory disease	647,297	750,831	633,948	16.0	-15.6	
232: Sprains and strains	616,095	624,901	623,685	1.4	-0.2	
53: Disorders of lipid metabolism	585,183	686,965	687,023	17.4	0.0	
253: Allergic reactions	581,046	698,968	833,911	20.3	19.3	
128: Asthma	573,682	702,954	694,233	22.5	-1.2	
95: Other nervous system disorders	563,313	645,894	542,930	14.7	-15.9	
211: Other connective tissue disease	548,592	614,537	571,487	12.0	-7.0	
102: Nonspecific chest pain	539,362	585,453	653,438	8.5	11.6	
84: Headache; including migraine	531,952	587,200	598,407	10.4	1.9	
155: Other gastrointestinal disorders	497,877	561,176	596,639	12.7	6.3	

Abbreviations: CCS, Clinical Classifications Software; ED, emergency department; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; Q, quarter.

Notes: A complete set of results for all CCS categories is available in Appendices $\underline{\underline{B}}$ and $\underline{\underline{C}}$ for the State Inpatient Databases (SID) and Appendices $\underline{\underline{D}}$ and $\underline{\underline{E}}$ for the State Emergency Department Databases. Source: Healthcare Cost and Utilization Project SEDD from 17 States.

Some of the 20 conditions in Table 8 remained stable during the transition period (e.g., category 239, *Superficial injury/contusion*, and 232, *Sprains and strains*, both of which changed by less than 1 percent over the transition period). CCS category 259, *Residual codes*, had the largest increase (54.6 percent), whereas other CCS categories had large decreases (e.g., 663, *Screening and history of mental health and substance abuse codes*, and 95, *Other nervous system disorders*, which decreased by 68.7 percent and 15.9 percent, respectively).

As an example, Table 9 presents tobacco-related ICD-9-CM and ICD-10-CM codes classified under CCS category 661, *Substance-related disorders*, and CCS category 663, *Screening and history of mental health and substance abuse codes*. CCS category 663, *Screening and history of mental health and substance abuse codes*, decreased by 68.7 percent (1,266,438 discharges) during the ICD-10-CM transition period. It appears that the decrease primarily is due to a change in available codes and CCS classification rules related to tobacco use and nicotine dependence.

Table 9. Frequency of All-Listed Diagnosis Categories in an Emergency Department With a Principal Diagnosis of CCS 661, Substance-Related Disorders, and CCS 663, Screening and History of Mental Health and Substance Abuse Codes

Code and Description	Q4 2013, N	Q4 2014, N	Q4 2015, N
CCS 661: Substance-related disorders	194,992	223,912	1,472,853
ICD-9-CM codes			
No tobacco-related codes			
ICD-10-CM codes			
F17.200: Nico depend, unspec, uncomplicated			480,466
F17.201: Nico depend, unspec, in remission			1,084
F17.203: Nico depend unspec, w withdrawal			190
F17.208: Nico depend, unspec, w oth nico-induced dis			149
F17.209: Nico depend, unspec, w unspec nico-induced dis			308
F17.210: Nico depend, cigarettes, uncomplicated			804,338
F17.211: Nico depend, cigarettes, in remission			2,024
F17.213: Nico depend, cigarettes, w withdrawal			190
F17.218: Nico depend, cigarettes, w oth nico-induced dis			197
F17.219: Nico depend, cigarettes, w unspec nico-induced dis			855
F17.220: Nico depend, chewing tobacco, uncomplicated			10,054
F17.290: Nico depend, oth tobacco prod, uncomplicated			15,535
F17.299: Nico depend, oth tobacco prod, w unspec nico-			
induced dis			200
CCS 663: Screening and history of MHSA codes	1,395,868	1,842,596	576,158
ICD-9-CM codes			
305.1: Tobacco use disorder	1,096,616	1,392,167	
v158.2: History of tobacco use	282,953	431,030	
ICD-10-CM codes			
Z87.891: Personal history of nicotine dependence			562,525

Abbreviations: CCS, Clinical Classifications Software; dep, dependence; dis, disorder; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; MHSA, mental health and substance abuse; nico, nicotine; oth, other; prod, product; Q, quarter; unspec, unspecified; w, with.

Notes: Only tobacco-related diagnosis codes with at least 100 stays in each cell are included in this table. Other ICD-9-CM and ICD-10-CM diagnosis codes classified under CCS 661 and CCS 663 are not presented.

Under ICD-9-CM, diagnosis code 305.1, *Tobacco use disorder*, was used to code tobacco use. This ICD-9-CM diagnosis code was classified under CCS category 663, *Screening and history of mental health and substance abuse codes*, and it accounted for 1,096,616 discharges in Q4 2013 and 1,392,167 discharges in Q4 2014. Under ICD-9-CM, there was no code available for tobacco or nicotine dependence.

Under ICD-10-CM, the use of tobacco was assigned to diagnosis category F17, *Nicotine dependence*. The American Hospital Association (AHA) Coding Clinic for ICD-10-CM published

a scenario that directed coders to code a diagnosis of "smoker" to a nicotine dependence code.⁷ Because tobacco use is classified as a dependence under ICD-10-CM, the F17 category was assigned to CCS category 661, *Substance-related disorders*, which also includes dependence codes for other types of substances. With the addition of tobacco dependence, the number of records in this CCS category increased by 557.8 percent (1,247,941 discharges) over the transition period from Q4 2014 to Q4 2015. In Q4 2015, ICD-10-CM diagnosis category F17 accounted for 1,315,782 discharges, which was similar to the volume from 305.1, *Tobacco use disorder*, in ICD-9-CM in Q4 2014.

In summary, it appears that both the substantial decrease in the number of discharges for CCS category 663 and the substantial increase for CCS category 661 are due to a shift in the coding of tobacco use from ICD-9-CM diagnosis code 305.1 to ICD-10-CM diagnosis category F17.

CONCLUSION

Researchers often rely on the grouping of individual ICD-9-CM diagnosis codes into broad, clinically meaningful categories to examine trends in conditions across time. The grouping of codes is expected to be even more critical to the ability to track longitudinal trends following the transition from the ICD-9-CM to the ICD-10-CM coding systems. The Clinical Classifications Software (CCS) for ICD-10-CM is one tool designed to capture groups of hospital diagnoses that are similar to those used in the CCS for ICD-9-CM. However, grouping individual ICD-9-CM and ICD-10-CM codes into the same categories of related diagnoses does not resolve the differences between the two coding systems or coding guidelines.

Compared with CCS procedures, CCS diagnosis categories demonstrated greater stability across the transition period. For about three-quarters of diagnosis categories, frequencies changed by less than 20 percent during the switch from ICD-9-CM to ICD-10-CM in both inpatient and emergency department data. Some CCS categories exhibit differences in trends following the transition to ICD-10-CM coding. In inpatient data, frequencies changed for 39 categories (15 percent) by 20 to 49 percent and more than 50 percent for 25 categories (10 percent). In emergency department data, frequencies changed for 48 categories (18 percent) by 20 to 49 percent and more than 50 percent for 17 categories (6 percent). Although the transition for diagnoses provides greater consistency than does the transition for procedures, there still are a large number of conditions where trends across the ICD-9-CM to ICD-10-CM transition will be problematic. The use of CCS categories as a categorization tool in this document is illustrative, and similar problems with other diagnostic grouping tools should be expected and examined.

This preliminary evaluation of existing ICD-10-CM-coded HCUP data indicates that a new categorization approach may be necessary. Development of a categorization scheme designed

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⁷ AHA Coding Clinic support statement for the coding of a "smoker" diagnosis was published in AHA Coding Clinic, 4Q 2013, pages 108-109. Chicago, IL: American Hospital Association.

specifically for ICD-10-CM coding will enable diagnoses for analysis.	enable researchers to group clinically meaningful				
HCLID (11/28/17)	20	ICD-10-CM Diagnosis Coding			

APPENDIX A: HCUP PARTNER ORGANIZATIONS

Alaska Department of Health and Social Services

Alaska State Hospital and Nursing Home Association

Arizona Department of Health Services

Arkansas Department of Health

California Office of Statewide Health Planning and Development

Colorado Hospital Association

Connecticut Hospital Association

District of Columbia Hospital Association

Florida Agency for Health Care Administration

Georgia Hospital Association

Hawaii Health Information Corporation

Illinois Department of Public Health

Indiana Hospital Association

Iowa Hospital Association

Kansas Hospital Association

Kentucky Cabinet for Health and Family Services

Louisiana Department of Health

Maine Health Data Organization

Maryland Health Services Cost Review Commission

Massachusetts Center for Health Information and Analysis

Michigan Health & Hospital Association

Minnesota Hospital Association

Mississippi State Department of Health

Missouri Hospital Industry Data Institute

Montana Hospital Association

Nebraska Hospital Association

Nevada Department of Health and Human Services

New Hampshire Department of Health & Human Services

New Jersey Department of Health

New Mexico Department of Health

New York State Department of Health

North Carolina Department of Health and Human Services

North Dakota (data provided by the Minnesota Hospital Association)

Ohio Hospital Association

Oklahoma State Department of Health

Oregon Association of Hospitals and Health Systems

Oregon Office of Health Analytics

Pennsylvania Health Care Cost Containment Council

Rhode Island Department of Health

South Carolina Revenue and Fiscal Affairs Office

South Dakota Association of Healthcare Organizations

Tennessee Hospital Association

Texas Department of State Health Services

Utah Department of Health

Vermont Association of Hospitals and Health Systems

Virginia Health Information

Washington State Department of Health

West Virginia Department of Health and Human Resources, West Virginia Health Care Authority
Wisconsin Department of Health Services
Wyoming Hospital Association

APPENDIX B: CHANGES IN CCS PRINCIPAL DIAGNOSIS CATEGORIES IN INPATIENT DATA (HCUP STATE INPATIENT DATABASES) FROM ICD-9-CM TO ICD-10-CM, SORTED BY CCS NUMBER (BODY SYSTEM)

Shaded rows indicate those Clinical Classifications Software (CCS) diagnosis categories that changed by less than 5 percent with the introduction of the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM).

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013-2014 (Baseline)	2014–2015 (Transition)	
1: Tuberculosis	662	656	680	-0.9	3.7	
2: Septicemia (except in labor)	169,500	201,666	228,337	19.0	13.2	
3: Bacterial infection; unspecified site	853	879	3,459	3.0	293.5	
4: Mycoses	2,944	2,989	2,165	1.5	-27.6	
5: HIV infection	3,935	3,912	3,137	-0.6	-19.8	
6: Hepatitis	5,726	5,575	3,845	-2.6	-31.0	
7: Viral infection	6,977	7,869	7,237	12.8	-8.0	
8: Other infections; including parasitic	1,328	1,243	582	-6.4	-53.2	
9: Sexually transmitted infections (not HIV or hepatitis)	443	487	516	9.9	6.0	
10: Immunizations and screening for infectious disease	721	720	394	-0.1	-45.3	
11: Cancer of head and neck	3,746	3,697	3,622	-1.3	-2.0	
12: Cancer of esophagus	1,455	1,496	1,653	2.8	10.5	
13: Cancer of stomach	2,682	2,670	2,539	-0.4	-4.9	
14: Cancer of colon	11,288	11,217	11,083	-0.6	-1.2	
15: Cancer of rectum and anus	4,906	4,882	4,817	-0.5	-1.3	
16: Cancer of liver and intrahepatic bile duct	2,631	2,721	2,843	3.4	4.5	
17: Cancer of pancreas	4,240	4,428	4,565	4.4	3.1	
18: Cancer of other GI organs; peritoneum	2,486	2,488	2,408	0.1	-3.2	
19: Cancer of bronchus; lung	14,770	14,604	15,097	-1.1	3.4	
20: Cancer; other respiratory and intrathoracic	249	219	297	-12.0	35.6	
21: Cancer of bone and connective tissue	1,736	1,760	1,724	1.4	-2.0	
22: Melanomas of skin	337	335	306	-0.6	-8.7	
23: Other non-epithelial cancer of skin	675	730	665	8.1	-8.9	
24: Cancer of breast	7,448	6,169	5,872	-17.2	-4.8	
25: Cancer of uterus	3,527	3,443	3,211	-2.4	-6.7	
26: Cancer of cervix	1,473	1,405	1,313	-4.6	-6.5	
27: Cancer of ovary	2,992	2,883	3,051	-3.6	5.8	
28: Cancer of other female genital organs	729	667	655	-8.5	-1.8	
29: Cancer of prostate	8,101	8,264	8,874	2.0	7.4	
30: Cancer of testis	214	195	200	-8.9	2.6	
31: Cancer of other male genital organs	95	115	116	21.1	0.9	
32: Cancer of bladder	3,440	3,407	3,437	-1.0	0.9	
33: Cancer of kidney and renal pelvis	5,663	5,809	5,974	2.6	2.8	

	Q4 2013,	13, Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014		
				(Baseline)	(Transition)	
34: Cancer of other urinary organs	395	494	444	25.1	-10.1	
35: Cancer of brain and nervous system	4,267	4,621	4,916	8.3	6.4	
36: Cancer of thyroid	2,216	1,825	1,592	-17.6	-12.8	
37: Hodgkin`s disease	459	533	490	16.1	-8.1	
38: Non-Hodgkin`s lymphoma	4,538	4,510	4,661	-0.6	3.3	
39: Leukemias	5,150	5,045	5,416	-2.0	7.4	
40: Multiple myeloma	2,093	2,041	2,300	-2.5	12.7	
41: Cancer; other and unspecified primary	924	886	1,087	-4.1	22.7	
42: Secondary malignancies	23,143	23,339	22,656	0.8	-2.9	
43: Malignant neoplasm without specification of site	1,064	1,072	1,308	0.8	22.0	
44: Neoplasms of unspecified nature or uncertain behavior	5,294	5,466	5,264	3.2	-3.7	
45: Maintenance chemotherapy; radiotherapy	19,091	19,351	18,886	1.4	-2.4	
46: Benign neoplasm of uterus	12,638	13,324	12,745	5.4	-4.3	
47: Other and unspecified benign neoplasm	15,228	15,330	14,860	0.7	-3.1	
48: Thyroid disorders	3,495	3,091	2,849	-11.6	-7.8	
49: Diabetes mellitus without complication	1,890	1,930	865	2.1	-55.2	
50: Diabetes mellitus with complications	61,879	64,525	63,691	4.3	-1.3	
51: Other endocrine disorders	6,247	6,593	6,835	5.5	3.7	
52: Nutritional deficiencies	1,236	1,409	1,621	14.0	15.0	
53: Disorders of lipid metabolism	91	159	190	74.7	19.5	
54: Gout and other crystal arthropathies	1,781	1,802	2,179	1.2	20.9	
55: Fluid and electrolyte disorders	41,905	43,293	38,494	3.3	-11.1	
56: Cystic fibrosis	1,757	1,691	1,940	-3.8	14.7	
57: Immunity disorders	200	243	759	21.5	212.3	
58: Other nutritional; endocrine; and metabolic disorders	23,801	26,312	27,652	10.5	5.1	
59: Deficiency and other anemia	22,110	21,196	18,345	-4.1	-13.5	
60: Acute posthemorrhagic anemia	4,764	5,207	5,885	9.3	13.0	
61: Sickle cell anemia	9,394	9,618	9,809	2.4	2.0	
62: Coagulation and hemorrhagic disorders	4,109	3,954	3,980	-3.8	0.7	
63: Diseases of white blood cells	7,344	7,628	6,981	3.9	-8.5	
64: Other hematologic conditions	620	608	717	-1.9	17.9	
76: Meningitis (except that caused by						
tuberculosis or sexually transmitted disease)	4,153	3,803	4,215	-8.4	10.8	
77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease)	1,347	1,465	1,652	8.8	12.8	
78: Other CNS infection and poliomyelitis	1,319	1,301	1,327	-1.4	2.0	
79: Parkinson`s disease	1,487	1,619	2,748	8.9	69.7	
80: Multiple sclerosis	2,671	2,679	3,113	0.3	16.2	
81: Other hereditary and degenerative nervous system conditions	5,242	5,397	3,089	3.0	-42.8	
82: Paralysis	1,065	1,187	2,936	11.5	147.3	
83: Epilepsy; convulsions	33,432	34,674	35,375	3.7	2.0	

	Q4 2013, Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N		2013–2014	2014–2015
				(Baseline)	(Transition)
84: Headache; including migraine	7,958	7,837	9,023	-1.5	15.1
85: Coma; stupor; and brain damage	2,162	1,922	974	-11.1	-49.3
86: Cataract	17	31	22	82.4	-29.0
87: Retinal detachments; defects; vascular	437	412	302	- 5.7	-26.7
occlusion; and retinopathy					
88: Glaucoma	70	87	70	24.3	-19.5
89: Blindness and vision defects	667	658	689	-1.3	4.7
90: Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitted disease)	2,136	1,545	1,630	-27.7	5.5
91: Other eye disorders	867	920	926	6.1	0.7
92: Otitis media and related conditions	1,133	1,112	1,258	-1.9	13.1
93: Conditions associated with dizziness or vertigo	5,971	5,932	5,489	-0.7	-7.5
94: Other ear and sense organ disorders	834	828	883	-0.7	6.6
95: Other nervous system disorders	31,079	33,360	42,124	7.3	26.3
96: Heart valve disorders	15,498	16,710	17,511	7.8	4.8
97: Peri-; endo-; and myocarditis;	,	,	,		
cardiomyopathy (except that caused by	8,420	8,534	8,987	1.4	5.3
tuberculosis or sexually transmitted disease)					
98: Essential hypertension	5,905	5,839	9,306	-1.1	59.4
99: Hypertension with complications and secondary hypertension	27,764	30,205	30,448	8.8	0.8
100: Acute myocardial infarction	73,560	75,920	79,698	3.2	5.0
101: Coronary atherosclerosis and other heart disease	48,556	45,138	44,975	-7.0	-0.4
102: Nonspecific chest pain	38,289	35,582	32,662	- 7.1	-8.2
103: Pulmonary heart disease	23,090	23,969	24,299	3.8	1.4
104: Other and ill-defined heart disease	1,347	1,429	1,416	6.1	-0.9
105: Conduction disorders	6,407	6,538	7,114	2.0	8.8
106: Cardiac dysrhythmias	80,384	80,549	79,589	0.2	-1.2
107: Cardiac arrest and ventricular fibrillation	2,751	2,908	3,116	5.7	7.2
108: Congestive heart failure; nonhypertensive	102,766	108,129	109,339	5.2	1.1
109: Acute cerebrovascular disease	71,143	75,021	77,011	5.5	2.7
110: Occlusion or stenosis of precerebral arteries	11,830	11,544	10,842	-2.4	-6.1
111: Other and ill-defined cerebrovascular disease	3,045	3,250	3,453	6.7	6.2
112: Transient cerebral ischemia	15,332	14,784	14,310	-3.6	-3.2
113: Late effects of cerebrovascular disease	2,152	2,103	16,010	-2.3	661.3
114: Peripheral and visceral atherosclerosis	16,779	16,393	15,059	-2.3	-8.1
115: Aortic; peripheral; and visceral artery					
aneurysms	10,410	10,576	10,924	1.6	3.3
116: Aortic and peripheral arterial embolism or thrombosis	3,416	3,629	3,222	6.2	-11.2
117: Other circulatory disease	12,365	12,837	10,667	3.8	-16.9

	Q4 2013,	Q4 2014,	04 204 5	Percentage Change		
CCS Principal Diagnosis Category		, Q4 2014, N	Q4 2015, N	2013-2014	2014–2015	
	IN .	IN	IN	(Baseline)	(Transition)	
118: Phlebitis; thrombophlebitis and	17,195	16,118	15,953	-6.3	-1.0	
thromboembolism			•	0.4		
119: Varicose veins of lower extremity	236	241	356	2.1	47.7	
120: Hemorrhoids	3,468	3,655	3,055	5.4	-16.4	
121: Other diseases of veins and lymphatics	2,602	2,585	2,150	-0.7	-16.8	
122: Pneumonia (except that caused by tuberculosis or sexually transmitted disease)	108,871	105,678	100,118	-2.9	-5.3	
123: Influenza	6,105	18,537	1,980	203.6	-89.3	
124: Acute and chronic tonsillitis	2,911	2,856	2,904	-1.9	1.7	
125: Acute bronchitis	15,414	16,420	15,530	6.5	-5.4	
126: Other upper respiratory infections	8,641	8,898	8,559	3.0	-3.8	
127: Chronic obstructive pulmonary disease and bronchiectasis	67,997	70,044	73,673	3.0	5.2	
128: Asthma	41,725	42,474	23,965	1.8	-43.6	
129: Aspiration pneumonitis; food/vomitus	19,030	19,242	18,832	1.1	-2.1	
130: Pleurisy; pneumothorax; pulmonary collapse	13,264	13,288	13,022	0.2	-2.0	
131: Respiratory failure; insufficiency; arrest (adult)	51,290	56,149	60,802	9.5	8.3	
132: Lung disease due to external agents	791	807	735	2.0	-8.9	
133: Other lower respiratory disease	12,367	12,564	11,834	1.6	-5.8	
134: Other upper respiratory disease	4,803	4,717	4,747	-1.8	0.6	
135: Intestinal infection	24,583	25,327	25,695	3.0	1.5	
136: Disorders of teeth and jaw	3,254	3,437	3,492	5.6	1.6	
137: Diseases of mouth; excluding dental	2,381	2,557	2,711	7.4	6.0	
138: Esophageal disorders	12,267	11,995	13,795	-2.2	15.0	
139: Gastroduodenal ulcer (except hemorrhage)	4,965	4,912	4,825	-1.1	-1.8	
140: Gastritis and duodenitis	9,674	9,918	9,011	2.5	-9.1	
141: Other disorders of stomach and	,					
duodenum	9,341	9,643	6,835	3.2	- 29.1	
142: Appendicitis and other appendiceal conditions	26,810	25,117	23,650	-6.3	-5.8	
143: Abdominal hernia	22,060	21,418	21,917	-2.9	2.3	
144: Regional enteritis and ulcerative colitis	11,580	11,955	12,131	3.2	1.5	
145: Intestinal obstruction without hernia	42,426	42,919	42,410	1.2	-1.2	
146: Diverticulosis and diverticulitis	35,636	36,201	35,824	1.6	-1.0	
147: Anal and rectal conditions	5,784	5,813	5,513	0.5	-5.2	
148: Peritonitis and intestinal abscess	3,664	3,673	3,327	0.2	-9.4	
149: Biliary tract disease	51,332	50,190	48,696	-2.2	-3.0	
151: Other liver diseases	16,502	17,640	16,040	6.9	-9.1	
152: Pancreatic disorders (not diabetes)	36,502	37,363	39,002	2.4	4.4	
153: Gastrointestinal hemorrhage	43,789	45,689	45,028	4.3	-1.4	
154: Noninfectious gastroenteritis	14,145	14,565	14,903	3.0	2.3	
155: Other gastrointestinal disorders	24,056	24,806	25,596	3.1	3.2	
156: Nephritis; nephrosis; renal sclerosis	1,324	1,460	1,443	10.3	-1.2	
130. Nephilius, hephilosis, teriai scierosis	1,324	1,400	1,443	10.3	-1.2	

N		Q4 2013, Q4 20	Q4 2014,	Q4 2014, Q4 2015,	Percentage Change		
157: Acute and unspecified renal failure 54,297 58,645 58,613 8.0 -0.1 158: Chronic kidney disease 2,879 2,590 1,766 -10.0 -31.8 159: Uninary tract infections 60,548 62,227 60,717 2.8 -2.4 160: Calculus of urinary tract 16,825 16,566 6,889 -1.5 -58.4 161: Other diseases of kidney and ureters 5,045 5,032 14,270 -0.3 183.6 162: Other diseases of bladder and urethra 2,464 2,501 2,239 1.5 -10.5 163: Genitourinary symptoms and ill-defined conditions 3,817 3,831 3,706 0.4 -3.3 164: Hyperplasia of prostate 4,088 3,792 3,422 -7.2 -9.8 165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 166: Other male genital disorders 1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menstrual disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative 47 41 71 -12.8 73.2 177: Pontaneous abortion 457 469 235 2.6 -49.9 179: Postabortion complications 1,256 1,212 1,397 -3.5 15.3 180: Ectopic pregnancy 6,093 5,984 5,948 -1.8 -0.6 180: Ectopic pregnancy 1,723 1,753 1,562 1,7 -10.9 180: Ectopic pregnancy 1,723 1,753 1,562 1,7 -10.9 181: Other complications of pregnancy 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childibirth; or the puerperium 14,087 16,398 6.8 9.0 185: Prolonged pregnancy 1,723 1,505 16,439 -0.7 -0.9 186: Entopolic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 190: Festal dist	CCS Principal Diagnosis Category						
158: Chronic kidney disease					· · · · ·		
159: Urinary tract infections		-		-			
160: Calculus of urinary tract 16,825 16,566 6,889 -1.5 -58.4 161: Other diseases of kidney and ureters 5,045 5,032 14,270 -0.3 183.6 162: Other diseases of bladder and urethra 2,464 2,501 2,239 1.5 -10.5 163: Genitourinary symptoms and ill-defined conditions 3,817 3,831 3,706 0.4 -3.3 164: Hyperplasia of prostate 4,088 3,792 3,422 -7.2 -9.8 165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 166: Other male genital disorders 1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 40,621 43,530 40,835 7.2 -6.2 181: Other complications of pregnancy 40,621 43,530 40,835 7.2 -6.2 182: Hemorrhage during pregnancy; childbirth; or the puerperium 41,087 16,398 6.8 9.0 183: Hypertension complication 16,719 16,595 16,439 -0.7 -0.9 184: Entopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4			·		-10.0		
161: Other diseases of kidney and ureters 5,045 5,032 14,270 -0.3 183.6 162: Other diseases of bladder and urethra 2,464 2,501 2,239 1.5 -10.5 163: Genitouriary symptoms and ill-defined conditions 3,817 3,831 3,706 0.4 -3.3 164: Hyperplasia of prostate 4,088 3,792 3,422 -7.2 -9.8 165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 166: Other male genital disorders 1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Prev	159: Urinary tract infections	60,548	62,227	60,717	2.8	-2.4	
162: Other diseases of bladder and urethra 2,464 2,501 2,239 1.5 -10.5 163: Genitourinary symptoms and ill-defined conditions 3,817 3,831 3,706 0.4 -3.3 164: Hyperplasia of prostate 4,088 3,792 3,422 -7.2 -9.8 165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 166: Other male genital disorders 1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 181: Other complications of pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 1,723 1,753 1,562 1.7 -10.9 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 40,621 43,530 40,835 7.2 -6.2 183: Hypertension complicating pregnancy 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth and the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,	160: Calculus of urinary tract	16,825	16,566	6,889	-1.5	-58.4	
163: Genitourinary symptoms and ill-defined conditions 3,817 3,831 3,706 0.4 -3.3 164: Hyperplasia of prostate 4,088 3,792 3,422 -7.2 -9.8 165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 166: Other male genital disorders 1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menopausal disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 6,093 5,984 5,948 -1.8 -0.6 182: Hemorrhage during pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth and the puerperium 14,087 15,047 16,398 6.8 9.0 186: Elaptovic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal Gistress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amoutic eavity 26,530 28,173 3	161: Other diseases of kidney and ureters	5,045	5,032	14,270	-0.3	183.6	
164: Hyperplasia of prostate	162: Other diseases of bladder and urethra	2,464	2,501	2,239	1.5	-10.5	
165: Inflammatory conditions of male genital organs 2,976 2,934 3,120 -1.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.2 6.3 6.3 6.2 6.3 6.3 6.2 6.3 6.3 6.2 6.3 6.2 6.3 6.2 6.3 6.2 6.3 6.2 6.3 6.2 6.2 6.3 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2		3,817	3,831	3,706	0.4	-3.3	
Organs 2,976 2,934 3,120 -1.4 6.3	164: Hyperplasia of prostate	4,088	3,792	3,422	-7.2	-9.8	
1,257 1,211 891 -3.7 -26.4 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 -4.5 168: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 4577 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 183: Hypertension complicating pregnancy; abruptio placenta: placenta previa 84: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the purperium 14,087 15,047 16,398 6.8 9.0 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 190: Polyhydramnios and other problems of aminotic cavity 26,530 28,173 31,828 6.2 13.0	,	2,976	2,934	3,120	-1.4	6.3	
167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -3.8 168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 176: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion complications 177<	166: Other male genital disorders	1,257	1,211	891	-3.7	-26.4	
168: Inflammatory diseases of female pelvic organs 3,445 3,327 3,177 -3.4 -4.5 169: Endometriosis 2,560 2,314 2,304 -9.6 -0.4 170: Prolapse of female genital organs 6,752 4,885 3,609 -27.7 -26.1 171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 <td></td> <td>·</td> <td></td> <td></td> <td></td> <td></td>		·					
169: Endometriosis	168: Inflammatory diseases of female pelvic						
170: Prolapse of female genital organs		2,560	2,314	2,304	-9.6	-0.4	
171: Menstrual disorders 5,978 5,281 3,268 -11.7 -38.1 172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 182: Hemorrhage during pregnancy; abruptio placenta; placenta prev				·	-27.7	-26.1	
172: Ovarian cyst 2,869 2,726 2,359 -5.0 -13.5 173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,		5,978	5,281	3,268		-38.1	
173: Menopausal disorders 906 767 681 -15.3 -11.2 174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; abruptio placenta; placenta previa 29,337 31,298 33,725 6.7 7.8 <t< td=""><td></td><td>·</td><td></td><td></td><td>-5.0</td><td>-13.5</td></t<>		·			-5.0	-13.5	
174: Female infertility 9 11 12 22.2 9.1 175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8		-					
175: Other female genital disorders 4,427 4,366 4,649 -1.4 6.5 176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8	·						
176: Contraceptive and procreative management 47 41 71 -12.8 73.2 177: Spontaneous abortion 1,256 1,212 1,397 -3.5 15.3 178: Induced abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 <td>·</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	·	-					
Internate Hamiltonian 1,256 1,212 1,397 -3.5 15.3 177: Spontaneous abortion 457 469 235 2.6 -49.9 179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 1	176: Contraceptive and procreative						
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179: Postabortion complications 177 191 38 7.9 -80.1 180: Ectopic pregnancy 1,723 1,753 1,562 1.7 -10.9 181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 63,667 6,091 6,260 -4.3 2.8 190: Fetal distress and abnormal forces of labor		-					
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181: Other complications of pregnancy 61,837 64,687 45,383 4.6 -29.8 182: Hemorrhage during pregnancy; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic c							
182: Hemorrhage during pregnancy; abruptio placenta; placenta previa 6,093 5,984 5,948 -1.8 -0.6 183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0		·					
183: Hypertension complicating pregnancy; childbirth and the puerperium 29,337 31,298 33,725 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0		61,837	64,687	45,383	4.6	-29.8	
childbirth and the puerperium 29,337 31,296 33,723 6.7 7.8 184: Early or threatened labor 20,113 19,490 18,939 -3.1 -2.8 185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0	placenta; placenta previa	6,093	5,984	5,948	-1.8	-0.6	
185: Prolonged pregnancy 40,621 43,530 40,835 7.2 -6.2 186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0		29,337	31,298	33,725	6.7	7.8	
186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0	184: Early or threatened labor	20,113	19,490	18,939	-3.1	-2.8	
complicating pregnancy; childbirth; or the puerperium 14,087 15,047 16,398 6.8 9.0 187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0	185: Prolonged pregnancy	40,621	43,530	40,835	7.2	-6.2	
187: Malposition; malpresentation 16,719 16,595 16,439 -0.7 -0.9 188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0	complicating pregnancy; childbirth; or the	14,087	15,047	16,398	6.8	9.0	
188: Fetopelvic disproportion; obstruction 6,367 6,091 6,260 -4.3 2.8 189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0		16.719	16.595	16.439	-0.7	-0.9	
189: Previous C-section 60,308 61,319 58,973 1.7 -3.8 190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0							
190: Fetal distress and abnormal forces of labor 19.043 17,733 16,241 -6.9 -8.4 191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0			·				
191: Polyhydramnios and other problems of amniotic cavity 26,530 28,173 31,828 6.2 13.0	190: Fetal distress and abnormal forces of						
	191: Polyhydramnios and other problems of	26,530	28,173	31,828	6.2	13.0	
, 194, 9111911900 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 19	192: Umbilical cord complication	19,694	18,454	20,904	-6.3	13.3	

	Q4 2013, Q4 20	Q4 2014,	Q4 2015,	Percentage Change	
CCS Principal Diagnosis Category	N N	N N		2013–2014	2014–2015
	- '		.,	(Baseline)	(Transition)
193: OB-related trauma to perineum and	77,444	74,514	72,709	-3.8	-2.4
vulva				44.0	70.0
194: Forceps delivery195: Other complications of birth; puerperium	1,159	988	296	-14.8	-70.0
affecting management of mother	79,376	79,530	93,505	0.2	17.6
196: Normal pregnancy and/or delivery	24,884	23,245	23,795	-6.6	2.4
197: Skin and subcutaneous tissue infections	70,455	70,604	71,752	0.2	1.6
198: Other inflammatory condition of skin	1,457	1,433	1,540	-1.6	7.5
199: Chronic ulcer of skin	6,081	5,940	6,391	-2.3	7.6
200: Other skin disorders	1,447	1,411	1,781	-2.5	26.2
201: Infective arthritis and osteomyelitis	,,,,,,	.,	1,101		
(except that caused by tuberculosis or	10,343	10,494	14,074	1.5	34.1
sexually transmitted disease)		·	·		
202: Rheumatoid arthritis and related	1,483	1,397	1,500	-5.8	7.4
disease	· ·	·	-		
203: Osteoarthritis	143,864	147,129	158,632	2.3	7.8
204: Other non-traumatic joint disorders	5,346	5,445	4,938	1.9	-9.3
205: Spondylosis; intervertebral disc	67,790	68,137	67,978	0.5	-0.2
disorders; other back problems					
206: Osteoporosis	36	32	43	-11.1	34.4
207: Pathological fracture	7,244	7,628	8,067	5.3	5.8
208: Acquired foot deformities	695	621	530	-10.6	-14.7
209: Other acquired deformities	7,701	7,899	11,732	2.6	48.5
210: Systemic lupus erythematosus and	2,022	2,033	3,406	0.5	67.5
connective tissue disorders 211: Other connective tissue disease	16,552	17,456	16,696	5.5	-4.4
212: Other bone disease and					
musculoskeletal deformities	9,330	9,496	6,306	1.8	-33.6
213: Cardiac and circulatory congenital					
anomalies	4,656	4,910	5,529	5.5	12.6
214: Digestive congenital anomalies	2,236	2,312	2,345	3.4	1.4
215: Genitourinary congenital anomalies	1,254	1,225	1,168	-2.3	-4.7
216: Nervous system congenital anomalies	1,006	1,056	1,354	5.0	28.2
217: Other congenital anomalies	6,421	6,661	4,592	3.7	-31.1
218: Liveborn	470,149	474,957	468,240	1.0	-1.4
219: Short gestation; low birth weight; and fetal growth retardation	2,809	2,937	2,919	4.6	-0.6
220: Intrauterine hypoxia and birth asphyxia	255	301	272	18.0	-9.6
221: Respiratory distress syndrome	1,045	1,058	1,116	1.2	5.5
222: Hemolytic jaundice and perinatal	1,045				
jaundice	5,602	5,468	5,760	-2.4	5.3
223: Birth trauma	112	114	106	1.8	-7.0
224: Other perinatal conditions	8,089	8,638	9,562	6.8	10.7
225: Joint disorders and dislocations;	3,393	3,331	2,523	-1.8	-24.3
trauma-related 226: Fracture of neck of femur (hip)	39,874	40,422	44,847	1.4	10.9
227: Spinal cord injury	1,605	1,669	1,601	4.0	-4.1

	Q4 2013, Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014	2014–2015
				(Baseline)	(Transition)
228: Skull and face fractures	5,643	5,728	7,943	1.5	38.7
229: Fracture of upper limb	17,018	16,506	17,866	-3.0	8.2
230: Fracture of lower limb	28,124	28,156	31,390	0.1	11.5
231: Other fractures	26,736	28,150	33,776	5.3	20.0
232: Sprains and strains	2,764	2,600	2,391	-5.9	-8.0
233: Intracranial injury	25,976	27,328	28,664	5.2	4.9
234: Crushing injury or internal injury	10,886	11,314	11,528	3.9	1.9
235: Open wounds of head; neck; and trunk	3,525	3,507	4,320	-0.5	23.2
236: Open wounds of extremities	4,425	4,339	4,890	-1.9	12.7
237: Complication of device; implant or graft	78,159	79,617	76,170	1.9	-4.3
238: Complications of surgical procedures or medical care	57,417	57,506	60,885	0.2	5.9
239: Superficial injury; contusion	4,320	4,362	4,699	1.0	7.7
240: Burns	3,371	3,366	3,488	-0.1	3.6
241: Poisoning by psychotropic agents	9,936	10,328	4,190	3.9	-59.4
242: Poisoning by other medications and drugs	14,887	15,322	10,800	2.9	-29.5
243: Poisoning by nonmedicinal substances	1,557	1,716	2,286	10.2	33.2
244: Other injuries and conditions due to external causes	7,811	7,771	10,589	-0.5	36.3
245: Syncope	16,683	16,172	14,755	-3.1	-8.8
246: Fever of unknown origin	6,145	6,055	4,579	-1.5	-24.4
247: Lymphadenitis	1,507	1,475	1,500	-2.1	1.7
248: Gangrene	3,091	2,986	3,337	-3.4	11.8
249: Shock	278	266	2,264	-4.3	751.1
250: Nausea and vomiting	4,848	4,578	5,147	-5.6	12.4
251: Abdominal pain	15,689	14,899	12,823	-5.0	-13.9
252: Malaise and fatigue	3,062	3,344	7,133	9.2	113.3
253: Allergic reactions	2,795	2,880	2,490	3.0	-13.5
254: Rehabilitation care; fitting of prostheses; and adjustment of devices	68,514	69,378	159	1.3	-99.8
255: Administrative/social admission	291	326	456	12.0	39.9
256: Medical examination/evaluation	854	638	220	-25.3	-65.5
257: Other aftercare	4,221	3,926	19,170	-7.0	388.3
258: Other screening for suspected conditions (not mental disorders or infectious disease)	321	263	1,533	-18.1	482.9
259: Residual codes; unclassified	12,372	11,990	10,083	-3.1	-15.9
650: Adjustment disorders	5,803	5,753	5,969	-0.9	3.8
651: Anxiety disorders	5,995	6,283	6,588	4.8	4.9
652: Attention-deficit, conduct, and disruptive	·				
behavior disorders 653: Delirium, dementia, and amnestic and	2,455	2,477	2,921	0.9	17.9
other cognitive disorders	13,233	13,455	13,138	1.7	-2.4
654: Developmental disorders	240	260	110	8.3	– 57.7

CCS Principal Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	Percentage Change	
				2013-2014 (Baseline)	2014–2015 (Transition)
655: Disorders usually diagnosed in infancy, childhood, or adolescence	740	905	1,010	22.3	11.6
656: Impulse control disorders, NEC	1,952	1,838	1,635	-5.8	-11.0
657: Mood disorders	145,510	152,269	154,226	4.6	1.3
658: Personality disorders	810	1,132	1,147	39.8	1.3
659: Schizophrenia and other psychotic disorders	65,322	66,283	67,985	1.5	2.6
660: Alcohol-related disorders	42,536	45,848	52,401	7.8	14.3
661: Substance-related disorders	29,863	31,002	31,340	3.8	1.1
662: Suicide and intentional self-inflicted injury	355	427	16,177	20.3	3,688.5
663: Screening and history of mental health and substance abuse codes	131	160	107	22.1	-33.1
670: Miscellaneous disorders	6,562	6,728	3,511	2.5	-47.8

Abbreviations: CCS, Clinical Classifications Software; CNS, central nervous system; GI, gastrointestinal; HIV, human immunodeficiency virus; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; NA, not applicable; NEC, not elsewhere classified; OB, obstetric; Q, quarter.

Notes: Shaded rows indicate CCS diagnosis categories that changed by less than 5 percent with the introduction of ICD-10-CM. The table only includes CCS diagnosis categories; external cause (E code) categories are not included, as they are not expected to be comparable between ICD-9-CM and ICD-10-CM.

Source: Healthcare Cost and Utilization Project State Inpatient Databases from 24 States.

APPENDIX C: CHANGES IN CCS PRINCIPAL DIAGNOSIS CATEGORIES IN INPATIENT DATA (HCUP STATE INPATIENT DATABASES) FROM ICD-9-CM TO ICD-10-CM, SORTED BY PERCENTAGE CHANGE FROM 2014 TO 2015

Shaded rows indicate those Clinical Classifications Software (CCS) diagnosis categories that changed by less than 5 percent with the introduction of the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM).

CCS Principal Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	Percentage Change	
				2013-2014 (Baseline)	2014–2015 (Transition)
662: Suicide and intentional self-inflicted injury	355	427	16,177	20.3	3,688.5
249: Shock	278	266	2,264	-4.3	751.1
113: Late effects of cerebrovascular disease	2,152	2,103	16,010	-2.3	661.3
258: Other screening for suspected conditions (not mental disorders or infectious disease)	321	263	1,533	-18.1	482.9
257: Other aftercare	4,221	3,926	19,170	- 7.0	388.3
3: Bacterial infection; unspecified site	853	879	3,459	3.0	293.5
57: Immunity disorders	200	243	759	21.5	212.3
161: Other diseases of kidney and ureters	5,045	5,032	14,270	-0.3	183.6
82: Paralysis	1,065	1,187	2,936	11.5	147.3
252: Malaise and fatigue	3,062	3,344	7,133	9.2	113.3
176: Contraceptive and procreative management	47	41	71	-12.8	73.2
79: Parkinson`s disease	1,487	1,619	2,748	8.9	69.7
210: Systemic lupus erythematosus and connective tissue disorders	2,022	2,033	3,406	0.5	67.5
98: Essential hypertension	5,905	5,839	9,306	-1.1	59.4
209: Other acquired deformities	7,701	7,899	11,732	2.6	48.5
119: Varicose veins of lower extremity	236	241	356	2.1	47.7
255: Administrative/social admission	291	326	456	12.0	39.9
228: Skull and face fractures	5,643	5,728	7,943	1.5	38.7
244: Other injuries and conditions due to external causes	7,811	7,771	10,589	-0.5	36.3
20: Cancer; other respiratory and intrathoracic	249	219	297	-12.0	35.6
206: Osteoporosis	36	32	43	-11.1	34.4
201: Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease)	10,343	10,494	14,074	1.5	34.1
243: Poisoning by nonmedicinal substances	1,557	1,716	2,286	10.2	33.2
216: Nervous system congenital anomalies	1,006	1,056	1,354	5.0	28.2
95: Other nervous system disorders	31,079	33,360	42,124	7.3	26.3
200: Other skin disorders	1,447	1,411	1,781	-2.5	26.2
235: Open wounds of head; neck; and trunk	3,525	3,507	4,320	-0.5	23.2
41: Cancer; other and unspecified primary	924	886	1,087	-4.1	22.7

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change	
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014	2014–2015
40 Malliana (analana 20 ani				(Baseline)	(Transition)
43: Malignant neoplasm without specification of site	1,064	1,072	1,308	0.8	22.0
54: Gout and other crystal arthropathies	1,781	1,802	2,179	1.2	20.9
231: Other fractures	26,736	28,150	33,776	5.3	20.0
53: Disorders of lipid metabolism	91	159	190	74.7	19.5
64: Other hematologic conditions	620	608	717	-1.9	17.9
652: Attention-deficit, conduct, and disruptive					
behavior disorders	2,455	2,477	2,921	0.9	17.9
195: Other complications of birth; puerperium affecting management of mother	79,376	79,530	93,505	0.2	17.6
80: Multiple sclerosis	2,671	2,679	3,113	0.3	16.2
177: Spontaneous abortion	1,256	1,212	1,397	-3.5	15.3
84: Headache; including migraine	7,958	7,837	9,023	-1.5	15.1
52: Nutritional deficiencies	1,236	1,409	1,621	14.0	15.0
138: Esophageal disorders	12,267	11,995	13,795	-2.2	15.0
56: Cystic fibrosis	1,757	1,691	1,940	-3.8	14.7
660: Alcohol-related disorders	42,536	45,848	52,401	7.8	14.3
192: Umbilical cord complication	19,694	18,454	20,904	-6.3	13.3
2: Septicemia (except in labor)	169,500	201,666	228,337	19.0	13.2
92: Otitis media and related conditions	1,133	1,112	1,258	-1.9	13.1
60: Acute posthemorrhagic anemia	4,764	5,207	5,885	9.3	13.0
191: Polyhydramnios and other problems of amniotic cavity	26,530	28,173	31,828	6.2	13.0
77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease)	1,347	1,465	1,652	8.8	12.8
236: Open wounds of extremities	4,425	4,339	4,890	-1.9	12.7
40: Multiple myeloma	2,093	2,041	2,300	-2.5	12.7
213: Cardiac and circulatory congenital anomalies	4,656	4,910	5,529	5.5	12.6
250: Nausea and vomiting	4,848	4,578	5,147	-5.6	12.4
248: Gangrene	3,091	2,986	3,337	-3.4	11.8
655: Disorders usually diagnosed in infancy, childhood, or adolescence	740	905	1,010	22.3	11.6
230: Fracture of lower limb	28,124	28,156	31,390	0.1	11.5
226: Fracture of neck of femur (hip)	39,874	40,422	44,847	1.4	10.9
76: Meningitis (except that caused by tuberculosis or sexually transmitted disease)	4,153	3,803	4,215	-8.4	10.8
224: Other perinatal conditions	8,089	8,638	9,562	6.8	10.7
12: Cancer of esophagus	1,455	1,496	1,653	2.8	10.5
174: Female infertility	9	11	12	22.2	9.1
186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium	14,087	15,047	16,398	6.8	9.0
105: Conduction disorders	6,407	6,538	7,114	2.0	8.8
131: Respiratory failure; insufficiency; arrest (adult)	51,290	56,149	60,802	9.5	8.3

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014	2014–2015	
				(Baseline)	(Transition)	
229: Fracture of upper limb	17,018	16,506	17,866	-3.0	8.2	
203: Osteoarthritis	143,864	147,129	158,632	2.3	7.8	
183: Hypertension complicating pregnancy; childbirth and the puerperium	29,337	31,298	33,725	6.7	7.8	
239: Superficial injury; contusion	4,320	4,362	4,699	1.0	7.7	
199: Chronic ulcer of skin	6,081	5,940	6,391	-2.3	7.6	
198: Other inflammatory condition of skin	1,457	1,433	1,540	-1.6	7.5	
29: Cancer of prostate	8,101	8,264	8,874	2.0	7.4	
202: Rheumatoid arthritis and related	·			5.0		
disease	1,483	1,397	1,500	-5.8	7.4	
39: Leukemias	5,150	5,045	5,416	-2.0	7.4	
107: Cardiac arrest and ventricular fibrillation	2,751	2,908	3,116	5.7	7.2	
94: Other ear and sense organ disorders	834	828	883	-0.7	6.6	
175: Other female genital disorders	4,427	4,366	4,649	-1.4	6.5	
35: Cancer of brain and nervous system	4,267	4,621	4,916	8.3	6.4	
165: Inflammatory conditions of male genital organs	2,976	2,934	3,120	-1.4	6.3	
111: Other and ill-defined cerebrovascular disease	3,045	3,250	3,453	6.7	6.2	
137: Diseases of mouth; excluding dental	2,381	2,557	2,711	7.4	6.0	
9: Sexually transmitted infections (not HIV or hepatitis)	443	487	516	9.9	6.0	
238: Complications of surgical procedures or medical care	57,417	57,506	60,885	0.2	5.9	
27: Cancer of ovary	2,992	2,883	3,051	-3.6	5.8	
207: Pathological fracture	7,244	7,628	8,067	5.3	5.8	
90: Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitteddisease)	2,136	1,545	1,630	-27.7	5.5	
221: Respiratory distress syndrome	1,045	1,058	1,116	1.2	5.5	
222: Hemolytic jaundice and perinatal jaundice	5,602	5,468	5,760	-2.4	5.3	
97: Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)	8,420	8,534	8,987	1.4	5.3	
127: Chronic obstructive pulmonary disease and bronchiectasis	67,997	70,044	73,673	3.0	5.2	
58: Other nutritional; endocrine; and metabolic disorders	23,801	26,312	27,652	10.5	5.1	
100: Acute myocardial infarction	73,560	75,920	79,698	3.2	5.0	
233: Intracranial injury	25,976	27,328	28,664	5.2	4.9	
651: Anxiety disorders	5,995	6,283	6,588	4.8	4.9	
96: Heart valve disorders	15,498	16,710	17,511	7.8	4.8	
89: Blindness and vision defects	667	658	689	-1.3	4.7	
16: Cancer of liver and intrahepatic bile duct	2,631	2,721	2,843	3.4	4.5	
152: Pancreatic disorders (not diabetes)	36,502	37,363	39,002	2.4	4.4	
650: Adjustment disorders	5,803	5,753	5,969	-0.9	3.8	

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change	
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014	2014–2015
				(Baseline)	(Transition)
51: Other endocrine disorders	6,247	6,593	6,835	5.5	3.7
1: Tuberculosis	662	656	680	-0.9	3.7
240: Burns	3,371	3,366	3,488	-0.1	3.6
19: Cancer of bronchus; lung	14,770	14,604	15,097	-1.1	3.4
38: Non-Hodgkin`s lymphoma	4,538	4,510	4,661	-0.6	3.3
115: Aortic; peripheral; and visceral artery aneurysms	10,410	10,576	10,924	1.6	3.3
155: Other gastrointestinal disorders	24,056	24,806	25,596	3.1	3.2
17: Cancer of pancreas	4,240	4,428	4,565	4.4	3.1
33: Cancer of kidney and renal pelvis	5,663	5,809	5,974	2.6	2.8
188: Fetopelvic disproportion; obstruction	6,367	6,091	6,260	-4.3	2.8
109: Acute cerebrovascular disease	71,143	75,021	77,011	5.5	2.7
659: Schizophrenia and other psychotic	65,322	66,283	67,985	1.5	2.6
disorders					
30: Cancer of testis	214	195	200	-8.9	2.6
196: Normal pregnancy and/or delivery	24,884	23,245	23,795	-6.6	2.4
143: Abdominal hernia	22,060	21,418	21,917	-2.9	2.3
154: Noninfectious gastroenteritis	14,145	14,565	14,903	3.0	2.3
83: Epilepsy; convulsions	33,432	34,674	35,375	3.7	2.0
78: Other CNS infection and poliomyelitis	1,319	1,301	1,327	-1.4	2.0
61: Sickle cell anemia	9,394	9,618	9,809	2.4	2.0
234: Crushing injury or internal injury	10,886	11,314	11,528	3.9	1.9
247: Lymphadenitis	1,507	1,475	1,500	-2.1	1.7
124: Acute and chronic tonsillitis	2,911	2,856	2,904	-1.9	1.7
197: Skin and subcutaneous tissue infections	70,455	70,604	71,752	0.2	1.6
136: Disorders of teeth and jaw	3,254	3,437	3,492	5.6	1.6
144: Regional enteritis and ulcerative colitis	11,580	11,955	12,131	3.2	1.5
135: Intestinal infection	24,583	25,327	25,695	3.0	1.5
214: Digestive congenital anomalies	2,236	2,312	2,345	3.4	1.4
103: Pulmonary heart disease	23,090	23,969	24,299	3.8	1.4
658: Personality disorders	810	1,132	1,147	39.8	1.3
657: Mood disorders	145,510	152,269	154,226	4.6	1.3
108: Congestive heart failure;				F 2	1.1
nonhypertensive	102,766	108,129	109,339	5.2	1.1
661: Substance-related disorders	29,863	31,002	31,340	3.8	1.1
32: Cancer of bladder	3,440	3,407	3,437	-1.0	0.9
31: Cancer of other male genital organs	95	115	116	21.1	0.9
99: Hypertension with complications and secondary hypertension	27,764	30,205	30,448	8.8	0.8
62: Coagulation and hemorrhagic disorders	4,109	3,954	3,980	-3.8	0.7
91: Other eye disorders	867	920	926	6.1	0.7
134: Other upper respiratory disease	4,803	4,717	4,747	-1.8	0.6
157: Acute and unspecified renal failure	54,297	58,645	58,613	8.0	-0.1
205: Spondylosis; intervertebral disc					
disorders; other back problems	67,790	68,137	67,978	0.5	-0.2

	04 2012	04 2014	04 2045	Percentage Change		
CCS Principal Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015	
	.,		.,	(Baseline)	(Transition)	
101: Coronary atherosclerosis and other	48,556	45,138	44,975	-7.0	-0.4	
heart disease 169: Endometriosis			·	0.6	0.4	
	2,560	2,314	2,304	-9.6	-0.4	
182: Hemorrhage during pregnancy; abruptio placenta; placenta previa	6,093	5,984	5,948	-1.8	-0.6	
219: Short gestation; low birth weight; and fetal growth retardation	2,809	2,937	2,919	4.6	-0.6	
104: Other and ill-defined heart disease	1,347	1,429	1,416	6.1	-0.9	
187: Malposition; malpresentation	16,719	16,595	16,439	-0.7	-0.9	
118: Phlebitis; thrombophlebitis and thromboembolism	17,195	16,118	15,953	-6.3	-1.0	
146: Diverticulosis and diverticulitis	35,636	36,201	35,824	1.6	-1.0	
156: Nephritis; nephrosis; renal sclerosis	1,324	1,460	1,443	10.3	-1.2	
145: Intestinal obstruction without hernia	42,426	42,919	42,410	1.2	-1.2	
106: Cardiac dysrhythmias	80,384	80,549	79,589	0.2	-1.2	
14: Cancer of colon	11,288	11,217	11,083	-0.6	-1.2	
50: Diabetes mellitus with complications	61,879	64,525	63,691	4.3	-1.3	
15: Cancer of rectum and anus	4,906	4,882	4,817	-0.5	-1.3	
218: Liveborn	470,149	474,957	468,240	1.0	-1.4	
153: Gastrointestinal hemorrhage	43,789	45,689	45,028	4.3	-1.4	
139: Gastrolinestinal Hemorrhage						
hemorrhage)	4,965	4,912	4,825	-1.1	-1.8	
28: Cancer of other female genital organs	729	667	655	-8.5	-1.8	
130: Pleurisy; pneumothorax; pulmonary	12.264	12 200	12.022	0.2	2.0	
collapse	13,264	13,288	13,022	0.2	-2.0	
11: Cancer of head and neck	3,746	3,697	3,622	-1.3	-2.0	
21: Cancer of bone and connective tissue	1,736	1,760	1,724	1.4	-2.0	
129: Aspiration pneumonitis; food/vomitus	19,030	19,242	18,832	1.1	-2.1	
653: Delirium, dementia, and amnestic and other cognitive disorders	13,233	13,455	13,138	1.7	-2.4	
45: Maintenance chemotherapy; radiotherapy	19,091	19,351	18,886	1.4	-2.4	
193: OB-related trauma to perineum and vulva	77,444	74,514	72,709	-3.8	-2.4	
159: Urinary tract infections	60,548	62,227	60,717	2.8	-2.4	
184: Early or threatened labor	20,113	19,490	18,939	-3.1	-2.8	
42: Secondary malignancies	23,143	23,339	22,656	0.8	-2.9	
149: Biliary tract disease	51,332	50,190	48,696	-2.2	-3.0	
47: Other and unspecified benign neoplasm	15,228	15,330	14,860	0.7	-3.1	
112: Transient cerebral ischemia	15,332	14,784	14,310	-3.6	-3.2	
18: Cancer of other GI organs; peritoneum	2,486	2,488	2,408	0.1	-3.2	
163: Genitourinary symptoms and ill-defined conditions	3,817	3,831	3,706	0.4	-3.3	
44: Neoplasms of unspecified nature or uncertain behavior	5,294	5,466	5,264	3.2	-3.7	
126: Other upper respiratory infections	8,641	8,898	8,559	3.0	-3.8	
189: Previous C-section	60,308	61,319	58,973	1.7	-3.8	

N N (Baseline) (Tra 167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 -227: Spinal cord injury 1,605 1,669 1,601 4.0 -	4-2015 nsition) -3.8 -4.1 -4.3
167: Nonmalignant breast conditions 2,221 2,157 2,074 -2.9 - 227: Spinal cord injury 1,605 1,669 1,601 4.0 -	-3.8 -4.1
227: Spinal cord injury 1,605 1,669 1,601 4.0 -	-4.1
237. Complication of device, implant of graft	
46: Benign neoplasm of uterus 12,638 13,324 12,745 5.4 -	-4.3
	-4.4
169: Inflammatory dispasses of famala polyic	
organs 3,445 3,327 3,177 -3.4 -	-4.5
	-4.7
24: Cancer of breast 7,448 6,169 5,872 -17.2 -	-4.8
13: Cancer of stomach 2,682 2,670 2,539 -0.4 -	-4.9
147: Anal and rectal conditions 5,784 5,813 5,513 0.5 -	-5.2
122: Pneumonia (except that caused by tuberculosis or sexually transmitted disease) 108,871 105,678 100,118 -2.9	-5.3
	-5.4
133: Other lower respiratory disease 12,367 12,564 11,834 1.6 -	-5.8
142: Appendicitis and other appendiceal	-5.8
110: Occlusion or stenosis of precerebral arteries 11,830 11,544 10,842 -2.4 -	-6.1
	-6.2
	-6.5
25: Cancer of uterus 3,527 3,443 3,211 -2.4 -	-6.7
	-7.0
93: Conditions associated with dizziness or vertigo 5,971 5,932 5,489 -0.7 -	-7.5
	-7.8
	-8.0
	-8.0
	-8.1
114: Peripheral and visceral atherosclerosis 16,779 16,393 15,059 –2.3 -	-8.1
	-8.2
190: Fetal distress and abnormal forces of labor 19,043 17,733 16,241 -6.9 -	-8.4
	-8.5
	-8.7
	-8.8
	-8.9
	-8.9
	-9.1
	-9.1
	-9.3
	-9.4
	-9.6
	-9.8
	10.1

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013–2014	2014–2015	
				(Baseline)	(Transition)	
162: Other diseases of bladder and urethra	2,464	2,501	2,239	1.5	-10.5	
180: Ectopic pregnancy	1,723	1,753	1,562	1.7	-10.9	
656: Impulse control disorders, NEC	1,952	1,838	1,635	-5.8	-11.0	
55: Fluid and electrolyte disorders	41,905	43,293	38,494	3.3	–11.1	
173: Menopausal disorders	906	767	681	-15.3	-11.2	
116: Aortic and peripheral arterial embolism or thrombosis	3,416	3,629	3,222	6.2	-11.2	
36: Cancer of thyroid	2,216	1,825	1,592	-17.6	-12.8	
59: Deficiency and other anemia	22,110	21,196	18,345	-4.1	-13.5	
172: Ovarian cyst	2,869	2,726	2,359	-5.0	-13.5	
253: Allergic reactions	2,795	2,880	2,490	3.0	-13.5	
251: Abdominal pain	15,689	14,899	12,823	-5.0	-13.9	
208: Acquired foot deformities	695	621	530	-10.6	-14.7	
259: Residual codes; unclassified	12,372	11,990	10,083	-3.1	-15.9	
120: Hemorrhoids	3,468	3,655	3,055	5.4	-16.4	
121: Other diseases of veins and lymphatics	2,602	2,585	2,150	-0.7	-16.8	
117: Other circulatory disease	12,365	12,837	10,667	3.8	-16.9	
88: Glaucoma	70	87	70	24.3	-19.5	
5: HIV infection	3,935	3,912	3,137	-0.6	-19.8	
225: Joint disorders and dislocations;						
trauma-related	3,393	3,331	2,523	-1.8	-24.3	
246: Fever of unknown origin	6,145	6,055	4,579	-1.5	-24.4	
170: Prolapse of female genital organs	6,752	4,885	3,609	-27.7	-26.1	
166: Other male genital disorders	1,257	1,211	891	-3.7	-26.4	
87: Retinal detachments; defects; vascular occlusion; and retinopathy	437	412	302	-5.7	-26.7	
4: Mycoses	2,944	2,989	2,165	1.5	-27.6	
86: Cataract	17	31	22	82.4	-29.0	
141: Other disorders of stomach and duodenum	9,341	9,643	6,835	3.2	-29.1	
242: Poisoning by other medications and drugs	14,887	15,322	10,800	2.9	-29.5	
181: Other complications of pregnancy	61,837	64,687	45,383	4.6	-29.8	
6: Hepatitis	5,726	5,575	3,845	-2.6	-31.0	
217: Other congenital anomalies	6,421	6,661	4,592	3.7	-31.1	
158: Chronic kidney disease	2,879	2,590	1,766	-10.0	-31.8	
663: Screening and history of mental health						
and substance abuse codes	131	160	107	22.1	-33.1	
212: Other bone disease and musculoskeletal deformities	9,330	9,496	6,306	1.8	-33.6	
171: Menstrual disorders	5,978	5,281	3,268	-11.7	-38.1	
81: Other hereditary and degenerative nervous system conditions	5,242	5,397	3,089	3.0	-42.8	
128: Asthma	41,725	42,474	23,965	1.8	-43.6	
10: Immunizations and screening for infectious disease	721	720	394	-0.1	-45.3	

	Q4 2013,	Q4 2014,	Q4 2015,	Percentage Change		
CCS Principal Diagnosis Category	N N	N N	N N	2013-2014 (Baseline)	2014–2015 (Transition)	
670: Miscellaneous disorders	6,562	6,728	3,511	2.5	-47.8	
85: Coma; stupor; and brain damage	2,162	1,922	974	-11.1	-49.3	
178: Induced abortion	457	469	235	2.6	-49.9	
8: Other infections; including parasitic	1,328	1,243	582	-6.4	-53.2	
49: Diabetes mellitus without complication	1,890	1,930	865	2.1	-55.2	
654: Developmental disorders	240	260	110	8.3	<i>–</i> 57.7	
160: Calculus of urinary tract	16,825	16,566	6,889	-1.5	-58.4	
241: Poisoning by psychotropic agents	9,936	10,328	4,190	3.9	-59.4	
256: Medical examination/evaluation	854	638	220	-25.3	-65.5	
194: Forceps delivery	1,159	988	296	-14.8	-70.0	
179: Postabortion complications	177	191	38	7.9	-80.1	
123: Influenza	6,105	18,537	1,980	203.6	-89.3	
254: Rehabilitation care; fitting of prostheses; and adjustment of devices	68,514	69,378	159	1.3	-99.8	

Abbreviations: CCS, Clinical Classifications Software; CNS, central nervous system; GI, gastrointestinal; HIV, human immunodeficiency virus; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; NA, not applicable; NEC, not elsewhere classified; OB, obstetric; Q, quarter.

Notes: Shaded rows indicate CCS diagnosis categories that changed by less than 5 percent with the introduction of ICD-10-CM. The table only includes CCS diagnosis categories; external cause (E code) categories are not included, as they are not expected to be comparable between ICD-9-CM and ICD-10-CM.

Source: Healthcare Cost and Utilization Project State Inpatient Databases from 24 States.

APPENDIX D: CHANGES IN CCS ALL-LISTED DIAGNOSIS CATEGORIES IN EMERGENCY DEPARTMENT DATA (HCUP STATE EMERGENCY DEPARTMENT DATABASES) FROM ICD-9-CM TO ICD-10-CM, SORTED BY CCS NUMBER (BODY SYSTEM)

Shaded rows indicate those Clinical Classifications Software (CCS) diagnosis categories that changed by less than 5 percent with the introduction of the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM).

All Listed CCC Diagnosis				Percentage Change		
All-Listed CCS Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013-2014 (Baseline)	2014–2015 (Transition)	
1: Tuberculosis	2,417	2,869	2,586	18.7	-9.9	
2: Septicemia (except in labor)	8,607	11,134	12,132	29.4	9.0	
3: Bacterial infection; unspecified site	84,569	92,380	93,553	9.2	1.3	
4: Mycoses	59,643	63,363	66,229	6.2	4.5	
5: HIV infection	21,535	25,113	26,481	16.6	5.4	
6: Hepatitis	43,870	50,332	46,359	14.7	-7.9	
7: Viral infection	268,113	341,215	262,255	27.3	-23.1	
8: Other infections; including parasitic	57,661	63,814	58,785	10.7	-7.9	
9: Sexually transmitted infections (not HIV or hepatitis)	7,190	7,632	9,021	6.1	18.2	
10: Immunizations and screening for infectious disease	176,651	201,698	198,610	14.2	-1.5	
11: Cancer of head and neck	6,408	6,748	6,346	5.3	-6.0	
12: Cancer of esophagus	2,640	2,932	2,967	11.1	1.2	
13: Cancer of stomach	2,465	2,787	2,466	13.1	-11.5	
14: Cancer of colon	19,629	21,186	20,556	7.9	-3.0	
15: Cancer of rectum and anus	3,442	3,744	3,989	8.8	6.5	
16: Cancer of liver and intrahepatic bile duct	3,523	4,006	4,388	13.7	9.5	
17: Cancer of pancreas	2,592	2,994	3,019	15.5	0.8	
18: Cancer of other GI organs; peritoneum	2,418	2,592	2,680	7.2	3.4	
19: Cancer of bronchus; lung	21,088	22,411	22,237	6.3	-0.8	
20: Cancer; other respiratory and intrathoracic	389	421	443	8.2	5.2	
21: Cancer of bone and connective tissue	1,206	1,424	1,326	18.1	-6.9	
22: Melanomas of skin	6,392	7,350	6,428	15.0	-12.5	
23: Other non-epithelial cancer of skin	20,047	21,538	20,991	7.4	-2.5	
24: Cancer of breast	47,022	52,239	50,432	11.1	-3.5	
25: Cancer of uterus	6,013	6,737	6,776	12.0	0.6	
26: Cancer of cervix	8,914	10,018	9,763	12.4	-2.5	
27: Cancer of ovary	5,904	6,428	6,388	8.9	-0.6	
28: Cancer of other female genital organs	1,468	1,632	864	11.2	-47.1	
29: Cancer of prostate	30,959	32,942	31,979	6.4	-2.9	

All-Listed CCS Diagnosis	d CCS Diagnosis			Percenta	ge Change
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
	1.010	0.050	0.047	(Baseline)	(Transition)
30: Cancer of testis	1,818	2,059	2,017	13.3	-2.0
31: Cancer of other male genital organs	185	264	121	42.7	-54.2
32: Cancer of bladder	9,116	9,922	10,111	8.8	1.9
33: Cancer of kidney and renal pelvis	7,099	7,961	8,041	12.1	1.0
34: Cancer of other urinary organs	291	330	386	13.4	17.0
35: Cancer of brain and nervous system	3,722	4,065	4,305	9.2	5.9
36: Cancer of thyroid	5,187	5,895	6,406	13.6	8.7
37: Hodgkin`s disease	2,095	2,217	2,147	5.8	-3.2
38: Non-Hodgkin`s lymphoma	10,940	11,687	11,158	6.8	-4.5
39: Leukemias	9,858	10,952	11,315	11.1	3.3
40: Multiple myeloma	2,979	3,325	3,296	11.6	-0.9
·	2,919	3,323	3,290	11.0	-0.9
41: Cancer; other and unspecified primary	8,962	10,465	12,025	16.8	14.9
42: Secondary malignancies	16,766	18,167	22,433	8.4	23.5
43: Malignant neoplasm without specification of site	4,728	4,931	3,062	4.3	-37.9
44: Neoplasms of unspecified nature or uncertain behavior	10,322	11,626	10,088	12.6	-13.2
45: Maintenance chemotherapy; radiotherapy	500	606	834	21.2	37.6
46: Benign neoplasm of uterus	15,610	17,381	17,512	11.3	0.8
47: Other and unspecified benign	20,852	23,784	22,214	14.1	-6.6
neoplasm	· ·		·		-2.1
48: Thyroid disorders	256,073	300,431	294,080	17.3	-2.1
49: Diabetes mellitus without complication	694,938	811,320	775,047	16.7	-4.5
50: Diabetes mellitus with complications	105,239	120,300	210,918	14.3	75.3
51: Other endocrine disorders	29,162	34,000	33,470	16.6	-1.6
52: Nutritional deficiencies	27,388	32,520	26,593	18.7	-18.2
53: Disorders of lipid metabolism	585,183	686,965	687,023	17.4	0.0
54: Gout and other crystal arthropathies	48,799	55,309	52,580	13.3	-4.9
55: Fluid and electrolyte disorders	296,737	317,635	316,820	7.0	-0.3
56: Cystic fibrosis	1,278	1,383	1,275	8.2	-7.8
57: Immunity disorders	2,435	3,102	6,856	27.4	121.0
58: Other nutritional; endocrine; and	215,723	273,422	275,707	26.7	0.8
metabolic disorders		·		10.2	-0.8
59: Deficiency and other anemia	154,541	170,272	168,950		
60: Acute posthemorrhagic anemia	3,426	3,843	4,913	12.2	27.8
61: Sickle cell anemia	19,068	21,411	21,846	12.3	2.0
62: Coagulation and hemorrhagic disorders	38,547	44,022	45,264	14.2	2.8
63: Diseases of white blood cells	54,095	65,886	70,851	21.8	7.5
64: Other hematologic conditions	9,592	11,854	12,122	23.6	2.3

All-Listed CCS Diagnosis				Percentage Change	
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
				(Baseline)	(Transition)
76: Meningitis (except that caused					
by tuberculosis or sexually	1,248	1,264	1,430	1.3	13.1
transmitted disease)					
77: Encephalitis (except that caused					
by tuberculosis or sexually	571	620	375	8.6	-39.5
transmitted disease)					
78: Other CNS infection and poliomyelitis	1,973	2,107	2,023	6.8	-4.0
79: Parkinson`s disease	20,392	23,443	26,326	15.0	12.3
80: Multiple sclerosis	15,034	16,638	16,246	10.7	-2.4
81: Other hereditary and	22 554	29.010	25.006	13.3	-7.7
degenerative nervous system conditions	33,554	38,010	35,096	13.3	-7.7
82: Paralysis	22,708	25,094	26,079	10.5	3.9
83: Epilepsy; convulsions	180,301	196,587	193,756	9.0	-1.4
84: Headache; including migraine	531,952	587,200	598,407	10.4	1.9
85: Coma; stupor; and brain damage	22,098	23,153	11,644	4.8	-49.7
86: Cataract	7,844	9,007	7,422	14.8	-17.6
87: Retinal detachments; defects;	21,825	24,246	9,581	11.1	-60.5
vascular occlusion; and retinopathy		,			
88: Glaucoma	19,477	21,546	19,052	10.6	-11.6
89: Blindness and vision defects	54,077	59,749	58,500	10.5	-2.1
90: Inflammation; infection of eye					
(except that caused by tuberculosis	98,091	106,518	115,047	8.6	8.0
or sexually transmitted disease)	04.050	70 700	00.000	44.0	4.0
91: Other eye disorders	64,958	72,706	69,329	11.9	-4.6
92: Otitis media and related	249,171	266,535	265,101	7.0	-0.5
conditions 93: Conditions associated with					
dizziness or vertigo	223,223	241,591	247,723	8.2	2.5
94: Other ear and sense organ					
disorders	131,127	145,389	145,482	10.9	0.1
95: Other nervous system disorders	563,313	645,894	542,930	14.7	-15.9
96: Heart valve disorders	66,790	77,130	68,955	15.5	-10.6
97: Peri-; endo-; and myocarditis;	30,130	11,100	33,333		1010
cardiomyopathy (except that caused	0.4.0=0		04.40=		
by tuberculosis or sexually	24,252	27,950	31,195	15.2	11.6
transmitted disease)					
98: Essential hypertension	1,492,260	1,751,860	1,913,340	17.4	9.2
99: Hypertension with complications					4.4
and secondary hypertension	131,235	160,555	162,734	22.3	1.4
100: Acute myocardial infarction	12,099	13,471	15,614	11.3	15.9
101: Coronary atherosclerosis and	352,891	303 036	303 933	11.4	0.2
other heart disease		393,036	393,822		
102: Nonspecific chest pain	539,362	585,453	653,438	8.5	11.6
103: Pulmonary heart disease	46,664	57,693	61,859	23.6	7.2
104: Other and ill-defined heart	35,777	39,345	30,015	10.0	-23.7
disease	33,777	55,545	50,015	10.0	-20.1

All-Listed CCS Diagnosis				Percentage Change	
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
				(Baseline)	(Transition)
105: Conduction disorders	112,659	128,907	127,880	14.4	-0.8
106: Cardiac dysrhythmias	370,059	424,619	432,976	14.7	2.0
107: Cardiac arrest and ventricular	16,988	17,693	17,318	4.1	-2.1
fibrillation	,	,	,		
108: Congestive heart failure; nonhypertensive	145,716	172,314	183,866	18.3	6.7
109: Acute cerebrovascular disease	17,707	19,670	21,926	11.1	11.5
110: Occlusion or stenosis of					
precerebral arteries	10,153	12,224	10,454	20.4	-14.5
111: Other and ill-defined					
cerebrovascular disease	8,566	10,529	7,039	22.9	-33.1
112: Transient cerebral ischemia	15,406	16,895	19,652	9.7	16.3
113: Late effects of cerebrovascular					
disease	21,019	22,477	22,006	6.9	-2.1
114: Peripheral and visceral	70,033	86,471	67,880	23.5	-21.5
atherosclerosis	70,033	00,471	07,000	25.5	-21.5
115: Aortic; peripheral; and visceral	14,912	16,870	16,865	13.1	0.0
artery aneurysms	,	. 0,0 0	. 0,000		0.0
116: Aortic and peripheral arterial	1,281	1,395	1,306	8.9	-6.4
embolism or thrombosis	266 920	207 712	200 724	15.3	-5.5
117: Other circulatory disease 118: Phlebitis; thrombophlebitis and	266,829	307,712	290,724	15.3	-5.5
thromboembolism	78,333	92,129	93,414	17.6	1.4
119: Varicose veins of lower	0.400		0.040	40.0	
extremity	6,406	7,085	6,610	10.6	-6.7
120: Hemorrhoids	28,720	31,214	31,330	8.7	0.4
121: Other diseases of veins and	16,476	18,117	18,910	10.0	4.4
lymphatics	10,470	10,117	10,510	10.0	7.7
122: Pneumonia (except that caused			40400=		
by tuberculosis or sexually	116,410	126,601	134,365	8.8	6.1
transmitted disease) 123: Influenza	60.016	164 007	10 406	16E 1	00.0
	62,216	164,907	19,406	165.1	-88.2
124: Acute and chronic tonsillitis	35,283	38,288	38,250	8.5	-0.1
125: Acute bronchitis	190,217	201,690	230,781	6.0	14.4
126: Other upper respiratory infections	848,426	1,012,203	931,348	19.3	-8.0
127: Chronic obstructive pulmonary					
disease and bronchiectasis	360,323	430,242	447,170	19.4	3.9
128: Asthma	573,682	702,954	694,233	22.5	-1.2
129: Aspiration pneumonitis;	·				
food/vomitus	1,353	1,525	1,939	12.7	27.1
130: Pleurisy; pneumothorax;	41,130	46,730	47,356	13.6	1.3
pulmonary collapse	71,130	40,730	47,550	13.0	1.5
131: Respiratory failure;	28,865	35,274	40,763	22.2	15.6
insufficiency; arrest (adult)	,				
132: Lung disease due to external agents	3,089	3,187	3,097	3.2	-2.8
133: Other lower respiratory disease	647,297	750,831	633,948	16.0	-15.6
133. Other lower respiratory disease	041,231	1 30,03 1	033,940	10.0	-13.0

All-Listed CCS Diagnosis				Percenta	ge Change
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013-2014	2014–2015
Category				(Baseline)	(Transition)
134: Other upper respiratory disease	226,931	266,755	217,903	17.5	-18.3
135: Intestinal infection	32,941	35,993	47,995	9.3	33.3
136: Disorders of teeth and jaw	214,290	229,851	234,853	7.3	2.2
137: Diseases of mouth; excluding	31,133	36,127	34,210	16.0	-5.3
dental	31,133	30,127	34,210	10.0	
138: Esophageal disorders	352,926	419,267	429,348	18.8	2.4
139: Gastroduodenal ulcer (except	21,778	23,480	21,959	7.8	-6.5
hemorrhage)	·	·			
140: Gastritis and duodenitis	77,603	79,803	80,291	2.8	0.6
141: Other disorders of stomach and	27,688	31,036	19,157	12.1	-38.3
duodenum	21,000	01,000	10,101		00.0
142: Appendicitis and other	15,728	18,230	19,649	15.9	7.8
appendiceal conditions	·	·	•	44.0	4.4
143: Abdominal hernia	56,565	63,271	66,052	11.9	4.4
144: Regional enteritis and ulcerative colitis	23,859	26,996	28,028	13.1	3.8
145: Intestinal obstruction without					
hernia	15,945	16,995	17,861	6.6	5.1
146: Diverticulosis and diverticulitis	60,155	69,124	69,096	14.9	0.0
147: Anal and rectal conditions	21,083	22,661	22,788	7.5	0.6
148: Peritonitis and intestinal					
abscess	1,543	1,780	1,793	15.4	0.7
149: Biliary tract disease	63,698	68,951	72,454	8.2	5.1
151: Other liver diseases	83,379	99,908	93,250	19.8	-6.7
152: Pancreatic disorders (not					
diabetes)	27,154	29,783	31,224	9.7	4.8
153: Gastrointestinal hemorrhage	57,940	64,926	67,339	12.1	3.7
154: Noninfectious gastroenteritis	129,201	139,660	133,062	8.1	-4.7
155: Other gastrointestinal disorders	497,877	561,176	596,639	12.7	6.3
156: Nephritis; nephrosis; renal	·				
sclerosis	7,105	7,339	3,033	3.3	-58.7
157: Acute and unspecified renal	07.040	00.044	40.000	00.0	07.0
failure	27,319	33,841	43,260	23.9	27.8
158: Chronic kidney disease	153,523	184,503	200,416	20.2	8.6
159: Urinary tract infections	459,947	500,307	502,701	8.8	0.5
160: Calculus of urinary tract	173,037	189,635	173,552	9.6	-8.5
161: Other diseases of kidney and	·		•		
ureters	72,834	81,178	93,058	11.5	14.6
162: Other diseases of bladder and	10,984	12,841	12,977	16.9	1.1
urethra	10,504	12,041	12,577	10.5	1.1
163: Genitourinary symptoms and ill-	233,987	257,760	255,779	10.2	-0.8
defined conditions					
164: Hyperplasia of prostate	47,606	54,762	52,788	15.0	-3.6
165: Inflammatory conditions of male	23,732	24,858	25,372	4.7	2.1
genital organs	·				
166: Other male genital disorders	37,313	42,071	41,298	12.8	-1.8
167: Nonmalignant breast conditions	21,502	23,161	24,578	7.7	6.1

All Listed CCS Diagnosis				Percentag	ge Change
All-Listed CCS Diagnosis Category	Q4 2013, N Q4 2014,	Q4 2014, N Q4 2015, N	2013–2014	2014–2015	
				(Baseline)	(Transition)
168: Inflammatory diseases of	63,304	64,287	64,438	1.6	0.2
female pelvic organs	· ·			0.4	
169: Endometriosis	6,095	6,483	6,346	6.4	-2.1
170: Prolapse of female genital organs	2,466	2,756	2,664	11.8	-3.3
171: Menstrual disorders	48,187	51,285	30,607	6.4	-40.3
172: Ovarian cyst	62,333	67,209	68,347	7.8	1.7
173: Menopausal disorders	4,278	4,691	4,402	9.7	-6.2
174: Female infertility	301	424	256	40.9	-39.6
175: Other female genital disorders	122,957	132,883	98,849	8.1	-25.6
176: Contraceptive and procreative management	21,844	26,240	27,290	20.1	4.0
177: Spontaneous abortion	16,145	17,180	21,423	6.4	24.7
178: Induced abortion	4,085	4,137	438	1.3	-89.4
179: Postabortion complications	942	960	738	1.9	-23.1
180: Ectopic pregnancy	3,377	3,664	4,192	8.5	14.4
181: Other complications of		3,004	4,192		
pregnancy	189,772	208,105	216,045	9.7	3.8
182: Hemorrhage during pregnancy;	66,097	68,950	69,280	4.3	0.5
abruptio placenta; placenta previa	00,007	00,550	03,200	4.5	0.0
183: Hypertension complicating					
pregnancy; childbirth and the	5,950	7,136	8,102	19.9	13.5
puerperium	44.070	40.004	44400	447	
184: Early or threatened labor	11,679	13,391	14,130	14.7	5.5
185: Prolonged pregnancy	173	160	217	- 7.5	35.6
186: Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium	4,098	5,056	5,940	23.4	17.5
187: Malposition; malpresentation	250	341	356	36.4	4.4
188: Fetopelvic disproportion;					
obstruction	62	81	220	30.6	171.6
189: Previous C-section	2,925	3,529	2,648	20.6	-25.0
190: Fetal distress and abnormal forces of labor	937	1,626	1,962	73.5	20.7
191: Polyhydramnios and other problems of amniotic cavity	1,246	1,769	2,080	42.0	17.6
192: Umbilical cord complication	28	38	24	35.7	-36.8
193: OB-related trauma to perineum					
and vulva	92	89	52	-3.3	- 41.6
194: Forceps delivery	0	0	<=10	NA	NA
195: Other complications of birth;					
puerperium affecting management of	29,462	33,600	15,249	14.0	-54.6
mother					
196: Normal pregnancy and/or	29,424	30,393	31,727	3.3	4.4
delivery	20,724	00,000	01,727	0.0	7.7
197: Skin and subcutaneous tissue	323,146	329,441	353,353	1.9	7.3
infections	, •	,	,		

Category	All Listed CCS Diagnosis		Percentage Change			ge Change
198: Other inflammatory condition of skin 49,024 50,036 52,041 2.1 4.0 4.09 2.0 1.0 4.09 2.0 1.0 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	All-Listed CCS Diagnosis	Q4 2013, N	Q4 2014, N	Q4 2015, N		
skin 49,04 30,036 52,041 2.1 4.0 199: Chronic ulcer of skin 19,259 20,990 20,763 9.0 -1.1 200: Other skin disorders 168,532 180,824 207,652 7.3 14.8 201: Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) 4,352 4,859 5,281 11.6 8.7 202: Rheumatoid arthritis and related disease 35,989 40,909 41,056 13.7 0.4 203: Osteoarthritis 110,160 122,276 175,005 11.0 43.1 204: Other non-traumatic joint disorders 403,094 444,311 390,889 10.2 -12.0 205: Spondylosis; intervertebral disc disorders; other back problems 715,501 786,293 780,491 9.9 -0.7 206: Osteoporosis 45,809 5,999 42,266 11.2 -13.1 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 208: Acquired foot deformities 3,489 3,889 3,797					(Baseline)	(Transition)
199: Chronic ulcer of skin 19,259 20,990 20,763 9.0 -1.1		49,024	50,036	52,041	2.1	4.0
200: Other skin disorders 168,532 180,824 207,652 7.3 14.8			20,000	20.762	0.0	1.1
201: Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) 4,352				·		
osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) 4,352 4,859 5,281 11.6 8.7 202: Rheumatoid arthritis and related disease 35,989 40,909 41,056 13.7 0.4 203: Osteoarthritis 110,160 122,276 175,005 11.0 43.1 204: Other non-traumatic joint disorders 403,094 444,311 390,889 10.2 -12.0 205: Spondylosis; intervertebral disc disorders; other back problems 715,501 786,293 780,491 9.9 -0.7 206: Osteoprosis 45,809 50,959 44,266 11.2 -13.1 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 208: Osteoprosis 45,809 5,959 44,266 11.2 -13.1 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 208: Other acquired deformities 6,755 7,995 25,731 18.4 221.8 211: Other connective tissue disease 548,592 614,537 571,487		168,532	180,824	207,652	7.3	14.8
disease 35,999 40,909 41,056 13.7 0.4 203: Osteoarthritis 110,160 122,276 175,005 11.0 43.1 204: Other non-traumatic joint disorders 403,094 444,311 390,889 10.2 -12.0 205: Spondylosis; intervertebral disc disorders; other back problems 715,501 786,293 780,491 9.9 -0.7 206: Osteoporosis 45,809 50,959 44,266 11.2 -13.1 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 208: Acquired foot deformities 6,755 7,995 25,731 18.4 221.8 210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 11,432 12,900 8,317	osteomyelitis (except that caused by tuberculosis or sexually transmitted disease)	4,352	4,859	5,281	11.6	8.7
204: Other non-traumatic joint disorders 205: Spondylosis; intervertebral disc disorders; other back problems 715,501 786,293 780,491 9.9 -0.7		35,989	40,909	41,056	13.7	0.4
204: Other non-traumatic joint disorders 205: Spondylosis; intervertebral disc disorders; other back problems 715,501 786,293 780,491 9.9 -0.7		110,160	122,276	175,005	11.0	43.1
10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2	204: Other non-traumatic joint	·		•		
206: Osteoporosis 45,809 50,959 44,266 11.2 -13.1	disorders	403,094	444,311	390,889	10.2	-12.0
207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 208: Acquired foot deformities 3,469 3,889 3,797 12.1 -2.4 209: Other acquired deformities 6,755 7,995 25,731 18.4 221.8 210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other connective tissue disease and musculoskeletal deformities 548,592 614,537 571,487 12.0 -7.0 213: Cardiac and circulatory congenital anomalies 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 19,805 22,579 20,218 14.0 -10.5 217: Other congenital anomalies 19,805		715,501	786,293	780,491	9.9	-0.7
208: Acquired foot deformities 3,469 3,889 3,797 12.1 -2.4 209: Other acquired deformities 6,755 7,995 25,731 18.4 221.8 210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other connective tissue disease 548,592 614,537 571,487 12.0 -7.0 212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 219: Short gestation; low birth weight; and fetal growth retardation 690<	206: Osteoporosis	45,809	50,959	44,266	11.2	-13.1
209: Other acquired deformities 6,755 7,995 25,731 18.4 221.8 210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other connective tissue disease 548,592 614,537 571,487 12.0 -7.0 212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 </td <td>207: Pathological fracture</td> <td>5,321</td> <td>6,174</td> <td>4,612</td> <td>16.0</td> <td>-25.3</td>	207: Pathological fracture	5,321	6,174	4,612	16.0	-25.3
210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other connective tissue disease 548,592 614,537 571,487 12.0 -7.0 212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45		3,469	3,889	3,797	12.1	-2.4
210: Systemic lupus erythematosus and connective tissue disorders 26,149 29,569 26,563 13.1 -10.2 211: Other connective tissue disease 548,592 614,537 571,487 12.0 -7.0 212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45	209: Other acquired deformities	6,755	7,995	25,731	18.4	221.8
211: Other connective tissue disease 548,592 614,537 571,487 12.0 -7.0 212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.				26,563	13.1	-10.2
212: Other bone disease and musculoskeletal deformities 59,110 68,280 64,892 15.5 -5.0 213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137		548,592	614.537	571.487	12.0	-7.0
213: Cardiac and circulatory congenital anomalies 8,495 10,198 10,195 20.0 0.0 214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 <tr< td=""><td>212: Other bone disease and</td><td></td><td></td><td></td><td></td><td></td></tr<>	212: Other bone disease and					
214: Digestive congenital anomalies 2,820 3,167 3,164 12.3 -0.1 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225	213: Cardiac and circulatory	8,495	10,198	10,195	20.0	0.0
215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743		2.820	3.167	3.164	12.3	-0.1
216: Nervous system congenital anomalies 4,948 5,269 6,501 6.5 23.4 217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9	215: Genitourinary congenital					
217: Other congenital anomalies 19,805 22,579 20,218 14.0 -10.5 218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	216: Nervous system congenital	4,948	5,269	6,501	6.5	23.4
218: Liveborn 158 174 131 10.1 -24.7 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9		19.805	22.579	20.218	14.0	-10.5
219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	Ÿ					
220: Intrauterine hypoxia and birth asphyxia 45 60 16 33.3 -73.3 221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	219: Short gestation; low birth					
221: Respiratory distress syndrome 29 35 37 20.7 5.7 222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	220: Intrauterine hypoxia and birth	45	60	16	33.3	-73.3
222: Hemolytic jaundice and perinatal jaundice 3,037 3,058 3,137 0.7 2.6 223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9		29	35	37	20.7	5.7
223: Birth trauma 138 137 181 -0.7 32.1 224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	222: Hemolytic jaundice and					
224: Other perinatal conditions 25,548 25,772 23,758 0.9 -7.8 225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	-	138	137	181	-0.7	32.1
225: Joint disorders and dislocations; trauma-related 54,734 54,846 53,715 0.2 -2.1 226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9						
226: Fracture of neck of femur (hip) 5,177 5,467 5,743 5.6 5.0 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9	225: Joint disorders and dislocations;					
227: Spinal cord injury 1,457 1,572 961 7.9 –38.9		5 177	5 467	5 743	5.6	5.0
	` ' '		·	·		
	228: Skull and face fractures	32,617	34,404	50,328	5.5	46.3

All-Listed CCS Diagnosis				Percenta	ge Change
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
				(Baseline)	(Transition)
229: Fracture of upper limb	176,948	178,418	191,872	0.8	7.5
230: Fracture of lower limb	85,773	86,949	94,948	1.4	9.2
231: Other fractures	54,158	57,905	63,076	6.9	8.9
232: Sprains and strains	616,095	624,901	623,685	1.4	-0.2
233: Intracranial injury	75,514	79,030	84,195	4.7	6.5
234: Crushing injury or internal injury	16,179	17,139	18,648	5.9	8.8
235: Open wounds of head; neck; and trunk	264,170	264,578	257,040	0.2	-2.8
236: Open wounds of extremities	288,356	291,160	314,344	1.0	8.0
237: Complication of device; implant or graft	31,560	34,627	48,730	9.7	40.7
238: Complications of surgical procedures or medical care	51,604	55,255	68,132	7.1	23.3
239: Superficial injury; contusion	717,984	728,365	727,857	1.4	-0.1
240: Burns	34,846	36,223	38,829	4.0	7.2
241: Poisoning by psychotropic agents	12,981	14,395	7,411	10.9	-48.5
242: Poisoning by other medications and drugs	36,676	40,311	23,887	9.9	-40.7
243: Poisoning by nonmedicinal substances	26,569	25,842	36,223	-2.7	40.2
244: Other injuries and conditions due to external causes	456,487	479,837	500,113	5.1	4.2
245: Syncope	144,469	157,290	165,872	8.9	5.5
246: Fever of unknown origin	331,195	396,319	291,490	19.7	-26.5
247: Lymphadenitis	39,477	45,208	43,137	14.5	-4.6
248: Gangrene	718	726	879	1.1	21.1
249: Shock	1,114	1,289	1,731	15.7	34.3
250: Nausea and vomiting	654,491	700,121	701,576	7.0	0.2
251: Abdominal pain	905,240	968,221	1,021,109	7.0	5.5
252: Malaise and fatigue	150,555	171,129	165,292	13.7	-3.4
253: Allergic reactions	581,046	698,968	833,911	20.3	19.3
254: Rehabilitation care; fitting of prostheses; and adjustment of devices	1,340	1,492	2,953	11.3	97.9
255: Administrative/social admission	97,320	119,969	148,054	23.3	23.4
256: Medical examination/evaluation	28,796	30,514	20,142	6.0	-34.0
257: Other aftercare	1,025,093	1,280,647	1,376,224	24.9	7.5
258: Other screening for suspected conditions (not mental disorders or infectious disease)	68,674	74,457	195,610	8.4	162.7
259: Residual codes; unclassified	756,223	887,782	1,372,391	17.4	54.6
650: Adjustment disorders	14,528	15,107	22,122	4.0	46.4
651: Anxiety disorders	436,654	524,534	539,298	20.1	2.8
652: Attention-deficit, conduct, and disruptive behavior disorders	61,888	73,392	69,181	18.6	-5.7

All-Listed CCS Diagnosis				Percentage Change	
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013-2014 (Baseline)	2014–2015 (Transition)
653: Delirium, dementia, and amnestic and other cognitive disorders	104,683	117,941	118,580	12.7	0.5
654: Developmental disorders	26,314	29,928	16,303	13.7	-45.5
655: Disorders usually diagnosed in infancy, childhood, or adolescence	14,946	18,597	23,200	24.4	24.8
656: Impulse control disorders, NEC	1,901	2,245	6,945	18.1	209.4
657: Mood disorders	450,004	526,045	492,343	16.9	-6.4
658: Personality disorders	9,341	11,245	9,476	20.4	-15.7
659: Schizophrenia and other psychotic disorders	95,847	109,776	99,714	14.5	-9.2
660: Alcohol-related disorders	207,873	224,952	247,258	8.2	9.9
661: Substance-related disorders	194,992	223,912	1,472,853	14.8	557.8
662: Suicide and intentional self-inflicted injury	55,512	64,632	91,620	16.4	41.8
663: Screening and history of mental health and substance abuse codes	1,395,868	1,842,596	576,158	32.0	-68.7
670: Miscellaneous disorders	28,868	32,333	35,660	12.0	10.3

Abbreviations: CCS, Clinical Classifications Software; CNS, central nervous system; GI, gastrointestinal; HIV, human immunodeficiency virus; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; NA, not applicable; NEC, not elsewhere classified; OB, obstetric; Q, quarter.

Note: Shaded rows indicate CCS diagnosis categories that changed by less than 5 percent with the introduction of ICD-10-CM. The table only includes CCS diagnosis categories; external cause (E code) categories are not included, as they are not expected to be comparable between ICD-9-CM and ICD-10-CM.

Source: Healthcare Cost and Utilization Project State Emergency Department Databases from 17 States.

APPENDIX E: CHANGES IN CCS ALL-LISTED DIAGNOSIS CATEGORIES IN EMERGENCY DEPARTMENT DATA (HCUP STATE EMERGENCY DEPARTMENT DATABASES) FROM ICD-9-CM TO ICD-10-CM, SORTED BY PERCENTAGE CHANGE FROM 2014 TO 2015

Shaded rows indicate those Clinical Classifications Software (CCS) diagnosis categories that changed by less than 5 percent with the introduction of the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM).

All Listed CCS Diagnosis				Percentage Change		
All-Listed CCS Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013-2014	2014–2015	
Category				(Baseline)	(Transition)	
661: Substance-related disorders	194,992	223,912	1,472,853	14.8	557.8	
209: Other acquired deformities	6,755	7,995	25,731	18.4	221.8	
656: Impulse control disorders, NEC	1,901	2,245	6,945	18.1	209.4	
188: Fetopelvic disproportion;	62	81	220	30.6	171.6	
obstruction	02	01	220	30.6	17 1.0	
258: Other screening for suspected						
conditions (not mental disorders or	68,674	74,457	195,610	8.4	162.7	
infectious disease)	2.10-	0.400	0.0=0	0= 4	101.0	
57: Immunity disorders	2,435	3,102	6,856	27.4	121.0	
254: Rehabilitation care; fitting of	4.040	4 400	0.050	44.0	07.0	
prostheses; and adjustment of	1,340	1,492	2,953	11.3	97.9	
devices 50: Diabetes mellitus with						
complications	105,239	120,300	210,918	14.3	75.3	
259: Residual codes; unclassified	756,223	887,782	1,372,391	17.4	54.6	
650: Adjustment disorders	14,528	15,107	22,122	4.0	46.4	
228: Skull and face fractures	32,617	34,404	50,328	5.5	46.3	
203: Osteoarthritis	110,160	122,276	175,005	11.0	43.1	
662: Suicide and intentional self-			•			
inflicted injury	55,512	64,632	91,620	16.4	41.8	
237: Complication of device; implant	04.500	24.00=	10 =00		40 =	
or graft	31,560	34,627	48,730	9.7	40.7	
243: Poisoning by nonmedicinal	26,569	25,842	36,223	-2.7	40.2	
substances	20,509	25,042	30,223	-2.7	40.2	
45: Maintenance chemotherapy;	500	606	834	21.2	37.6	
radiotherapy						
185: Prolonged pregnancy	173	160	217	- 7.5	35.6	
249: Shock	1,114	1,289	1,731	15.7	34.3	
135: Intestinal infection	32,941	35,993	47,995	9.3	33.3	
223: Birth trauma	138	137	181	-0.7	32.1	
60: Acute posthemorrhagic anemia	3,426	3,843	4,913	12.2	27.8	
157: Acute and unspecified renal	27,319	33,841	43,260	23.9	27.8	
failure	27,010	00,041	40,200	20.0	27.0	
129: Aspiration pneumonitis;	1,353	1,525	1,939	12.7	27.1	
food/vomitus	,	,	,			
655: Disorders usually diagnosed in infancy, childhood, or adolescence	14,946	18,597	23,200	24.4	24.8	
177: Spontaneous abortion	16,145	17,180	21,423	6.4	24.7	
42: Secondary malignancies	16,766	18,167	22,433	8.4	23.5	

All Listed CCS Diagnosis				Percenta	Percentage Change		
All-Listed CCS Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015		
				(Baseline)	(Transition)		
255: Administrative/social admission	97,320	119,969	148,054	23.3	23.4		
216: Nervous system congenital anomalies	4,948	5,269	6,501	6.5	23.4		
238: Complications of surgical procedures or medical care	51,604	55,255	68,132	7.1	23.3		
248: Gangrene	718	726	879	1.1	21.1		
190: Fetal distress and abnormal	007	4.000	4.000	70.5	00.7		
forces of labor	937	1,626	1,962	73.5	20.7		
253: Allergic reactions	581,046	698,968	833,911	20.3	19.3		
9: Sexually transmitted infections (not HIV or hepatitis)	7,190	7,632	9,021	6.1	18.2		
191: Polyhydramnios and other problems of amniotic cavity	1,246	1,769	2,080	42.0	17.6		
186: Diabetes or abnormal glucose							
tolerance complicating pregnancy; childbirth; or the puerperium	4,098	5,056	5,940	23.4	17.5		
34: Cancer of other urinary organs	291	330	386	13.4	17.0		
112: Transient cerebral ischemia	15,406	16,895	19,652	9.7	16.3		
100: Acute myocardial infarction	12,099	13,471	15,614	11.3	15.9		
131: Respiratory failure;							
insufficiency; arrest (adult)	28,865	35,274	40,763	22.2	15.6		
41: Cancer; other and unspecified	8,962	10,465	12,025	16.8	14.9		
primary		·					
200: Other skin disorders	168,532	180,824	207,652	7.3	14.8		
161: Other diseases of kidney and	72,834	81,178	93,058	11.5	14.6		
ureters	·						
125: Acute bronchitis	190,217	201,690	230,781	6.0	14.4		
180: Ectopic pregnancy	3,377	3,664	4,192	8.5	14.4		
183: Hypertension complicating pregnancy; childbirth and the puerperium	5,950	7,136	8,102	19.9	13.5		
76: Meningitis (except that caused by tuberculosis or sexually transmitted disease)	1,248	1,264	1,430	1.3	13.1		
79: Parkinson`s disease	20,392	23,443	26,326	15.0	12.3		
102: Nonspecific chest pain	539,362	585,453	653,438	8.5	11.6		
97: Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)	24,252	27,950	31,195	15.2	11.6		
109: Acute cerebrovascular disease	17,707	19,670	21,926	11.1	11.5		
670: Miscellaneous disorders	28,868	32,333	35,660	12.0	10.3		
660: Alcohol-related disorders	207,873	224,952	247,258	8.2	9.9		
16: Cancer of liver and intrahepatic bile duct	3,523	4,006	4,388	13.7	9.5		
98: Essential hypertension	1,492,260	1,751,860	1,913,340	17.4	9.2		
230: Fracture of lower limb	85,773	86,949	94,948	1.4	9.2		
2: Septicemia (except in labor)	8,607	11,134	12,132	29.4	9.0		

All-Listed CCS Diagnosis				Percentage Change		
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015	
				(Baseline)	(Transition)	
231: Other fractures	54,158	57,905	63,076	6.9	8.9	
234: Crushing injury or internal injury	16,179	17,139	18,648	5.9	8.8	
201: Infective arthritis and						
osteomyelitis (except that caused by	4,352	4,859	5,281	11.6	8.7	
tuberculosis or sexually transmitted	-,	1,000	-,			
disease)	F 407	5.005	0.400	40.0	0.7	
36: Cancer of thyroid	5,187	5,895	6,406	13.6	8.7	
158: Chronic kidney disease	153,523	184,503	200,416	20.2	8.6	
90: Inflammation; infection of eye (except that caused by tuberculosis	98,091	106,518	115,047	8.6	8.0	
or sexually transmitteddisease)	90,091	100,516	115,047	0.0	6.0	
236: Open wounds of extremities	288,356	291,160	314,344	1.0	8.0	
142: Appendicitis and other	·		•			
appendiceal conditions	15,728	18,230	19,649	15.9	7.8	
229: Fracture of upper limb	176,948	178,418	191,872	0.8	7.5	
63: Diseases of white blood cells	54,095	65,886	70,851	21.8	7.5	
257: Other aftercare	1,025,093	1,280,647	1,376,224	24.9	7.5	
197: Skin and subcutaneous tissue						
infections	323,146	329,441	353,353	1.9	7.3	
103: Pulmonary heart disease	46,664	57,693	61,859	23.6	7.2	
240: Burns	34,846	36,223	38,829	4.0	7.2	
108: Congestive heart failure;	145,716	172,314	183,866	18.3	6.7	
nonhypertensive	·	·				
15: Cancer of rectum and anus	3,442	3,744	3,989	8.8	6.5	
233: Intracranial injury	75,514	79,030	84,195	4.7	6.5	
155: Other gastrointestinal disorders	497,877	561,176	596,639	12.7	6.3	
122: Pneumonia (except that caused						
by tuberculosis or sexually	116,410	126,601	134,365	8.8	6.1	
transmitted disease)	04.500	00.404	04.570	7.7	0.4	
167: Nonmalignant breast conditions	21,502	23,161	24,578	7.7	6.1	
35: Cancer of brain and nervous system	3,722	4,065	4,305	9.2	5.9	
221: Respiratory distress syndrome	29	35	37	20.7	5.7	
184: Early or threatened labor	11,679	13,391	14,130	14.7	5.5	
251: Abdominal pain	905,240	968,221	1,021,109	7.0	5.5	
245: Syncope	144,469	157,290	165,872	8.9	5.5	
5: HIV infection	21,535	25,113	26,481	16.6	5.4	
20: Cancer; other respiratory and	·					
intrathoracic	389	421	443	8.2	5.2	
145: Intestinal obstruction without	45.045	40.005	47.004	0.0	F 4	
hernia	15,945	16,995	17,861	6.6	5.1	
149: Biliary tract disease	63,698	68,951	72,454	8.2	5.1	
226: Fracture of neck of femur (hip)	5,177	5,467	5,743	5.6	5.0	
152: Pancreatic disorders (not	27,154	29,783	31,224	9.7	4.8	
diabetes)						
4: Mycoses	59,643	63,363	66,229	6.2	4.5	
187: Malposition; malpresentation	250	341	356	36.4	4.4	

All-Listed CCS Diagnosis				Percentag	ge Change
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013-2014	2014–2015
				(Baseline)	(Transition)
143: Abdominal hernia	56,565	63,271	66,052	11.9	4.4
196: Normal pregnancy and/or delivery	29,424	30,393	31,727	3.3	4.4
121: Other diseases of veins and lymphatics	16,476	18,117	18,910	10.0	4.4
244: Other injuries and conditions due to external causes	456,487	479,837	500,113	5.1	4.2
198: Other inflammatory condition of skin	49,024	50,036	52,041	2.1	4.0
176: Contraceptive and procreative management	21,844	26,240	27,290	20.1	4.0
127: Chronic obstructive pulmonary disease and bronchiectasis	360,323	430,242	447,170	19.4	3.9
82: Paralysis	22,708	25,094	26,079	10.5	3.9
144: Regional enteritis and ulcerative colitis	23,859	26,996	28,028	13.1	3.8
181: Other complications of pregnancy	189,772	208,105	216,045	9.7	3.8
153: Gastrointestinal hemorrhage	57,940	64,926	67,339	12.1	3.7
18: Cancer of other GI organs; peritoneum	2,418	2,592	2,680	7.2	3.4
39: Leukemias	9,858	10,952	11,315	11.1	3.3
62: Coagulation and hemorrhagic disorders	38,547	44,022	45,264	14.2	2.8
651: Anxiety disorders	436,654	524,534	539,298	20.1	2.8
222: Hemolytic jaundice and perinatal jaundice	3,037	3,058	3,137	0.7	2.6
93: Conditions associated with dizziness or vertigo	223,223	241,591	247,723	8.2	2.5
138: Esophageal disorders	352,926	419,267	429,348	18.8	2.4
64: Other hematologic conditions	9,592	11,854	12,122	23.6	2.3
136: Disorders of teeth and jaw	214,290	229,851	234,853	7.3	2.2
165: Inflammatory conditions of male genital organs	23,732	24,858	25,372	4.7	2.1
61: Sickle cell anemia	19,068	21,411	21,846	12.3	2.0
106: Cardiac dysrhythmias	370,059	424,619	432,976	14.7	2.0
84: Headache; including migraine	531,952	587,200	598,407	10.4	1.9
32: Cancer of bladder	9,116	9,922	10,111	8.8	1.9
172: Ovarian cyst	62,333	67,209	68,347	7.8	1.7
118: Phlebitis; thrombophlebitis and thromboembolism	78,333	92,129	93,414	17.6	1.4
99: Hypertension with complications and secondary hypertension	131,235	160,555	162,734	22.3	1.4
130: Pleurisy; pneumothorax; pulmonary collapse	41,130	46,730	47,356	13.6	1.3
3: Bacterial infection; unspecified site	84,569	92,380	93,553	9.2	1.3
12: Cancer of esophagus	2,640	2,932	2,967	11.1	1.2

All Lieted CCS Diagnosis				Percentag	tage Change	
All-Listed CCS Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2014, N Q4 2015, N	2013-2014	2014–2015	
				(Baseline)	(Transition)	
162: Other diseases of bladder and	10,984	12,841	12,977	16.9	1.1	
urethra						
33: Cancer of kidney and renal pelvis	7,099	7,961	8,041	12.1	1.0	
58: Other nutritional; endocrine; and metabolic disorders	215,723	273,422	275,707	26.7	0.8	
17: Cancer of pancreas	2,592	2,994	3,019	15.5	0.8	
46: Benign neoplasm of uterus	15,610	17,381	17,512	11.3	0.8	
148: Peritonitis and intestinal	1,543	1,780	1,793	15.4	0.7	
abscess	·					
140: Gastritis and duodenitis	77,603	79,803	80,291	2.8	0.6	
25: Cancer of uterus	6,013	6,737	6,776	12.0	0.6	
147: Anal and rectal conditions	21,083	22,661	22,788	7.5	0.6	
653: Delirium, dementia, and						
amnestic and other cognitive	104,683	117,941	118,580	12.7	0.5	
disorders						
182: Hemorrhage during pregnancy;	66,097	68,950	69,280	4.3	0.5	
abruptio placenta; placenta previa 159: Urinary tract infections	459,947	500,307	502,701	8.8	0.5	
120: Hemorrhoids	28,720	31,214	31,330	8.7	0.3	
202: Rheumatoid arthritis and related	20,720	31,214	31,330	0.7	0.4	
disease	35,989	40,909	41,056	13.7	0.4	
168: Inflammatory diseases of						
female pelvic organs	63,304	64,287	64,438	1.6	0.2	
250: Nausea and vomiting	654,491	700,121	701,576	7.0	0.2	
101: Coronary atherosclerosis and				44.4	0.0	
other heart disease	352,891	393,036	393,822	11.4	0.2	
94: Other ear and sense organ	131,127	145,389	145,482	10.9	0.1	
disorders						
53: Disorders of lipid metabolism	585,183	686,965	687,023	17.4	0.0	
213: Cardiac and circulatory	8,495	10,198	10,195	20.0	0.0	
congenital anomalies	,	,	<u> </u>			
115: Aortic; peripheral; and visceral artery aneurysms	14,912	16,870	16,865	13.1	0.0	
146: Diverticulosis and diverticulitis	60,155	69,124	69,096	14.9	0.0	
239: Superficial injury; contusion	717,984	728,365	727,857	1.4	-0.1	
214: Digestive congenital anomalies	2,820	3,167	3,164	12.3	-0.1	
124: Acute and chronic tonsillitis	35,283	38,288	38,250	8.5	-0.1	
232: Sprains and strains	616,095	624,901	623,685	1.4	-0.2	
55: Fluid and electrolyte disorders	296,737	317,635	316,820	7.0	-0.2	
92: Otitis media and related		·				
conditions	249,171	266,535	265,101	7.0	-0.5	
27: Cancer of ovary	5,904	6,428	6,388	8.9	-0.6	
205: Spondylosis; intervertebral disc						
disorders; other back problems	715,501	786,293	780,491	9.9	-0.7	
163: Genitourinary symptoms and ill-	233,987	257,760	255,779	10.2	-0.8	
defined conditions	·					
19: Cancer of bronchus; lung	21,088	22,411	22,237	6.3	-0.8	

All-Listed CCS Diagnosis				Percentage Change	
Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
				(Baseline)	(Transition)
59: Deficiency and other anemia	154,541	170,272	168,950	10.2	-0.8
105: Conduction disorders	112,659	128,907	127,880	14.4	-0.8
40: Multiple myeloma	2,979	3,325	3,296	11.6	-0.9
199: Chronic ulcer of skin	19,259	20,990	20,763	9.0	-1.1
128: Asthma	573,682	702,954	694,233	22.5	-1.2
83: Epilepsy; convulsions	180,301	196,587	193,756	9.0	-1.4
10: Immunizations and screening for infectious disease	176,651	201,698	198,610	14.2	-1.5
51: Other endocrine disorders	29,162	34,000	33,470	16.6	-1.6
166: Other male genital disorders	37,313	42,071	41,298	12.8	-1.8
30: Cancer of testis	1,818	2,059	2,017	13.3	-2.0
225: Joint disorders and dislocations; trauma-related	54,734	54,846	53,715	0.2	-2.1
89: Blindness and vision defects	54,077	59,749	58,500	10.5	-2.1
113: Late effects of cerebrovascular disease	21,019	22,477	22,006	6.9	-2.1
169: Endometriosis	6,095	6,483	6,346	6.4	-2.1
48: Thyroid disorders	256,073	300,431	294,080	17.3	-2.1
107: Cardiac arrest and ventricular fibrillation	16,988	17,693	17,318	4.1	-2.1
80: Multiple sclerosis	15,034	16,638	16,246	10.7	-2.4
208: Acquired foot deformities	3,469	3,889	3,797	12.1	-2.4
23: Other non-epithelial cancer of skin	20,047	21,538	20,991	7.4	-2.5
26: Cancer of cervix	8,914	10,018	9,763	12.4	-2.5
132: Lung disease due to external agents	3,089	3,187	3,097	3.2	-2.8
235: Open wounds of head; neck; and trunk	264,170	264,578	257,040	0.2	-2.8
29: Cancer of prostate	30,959	32,942	31,979	6.4	-2.9
14: Cancer of colon	19,629	21,186	20,556	7.9	-3.0
37: Hodgkin`s disease	2,095	2,217	2,147	5.8	-3.2
170: Prolapse of female genital organs	2,466	2,756	2,664	11.8	-3.3
252: Malaise and fatigue	150,555	171,129	165,292	13.7	-3.4
24: Cancer of breast	47,022	52,239	50,432	11.1	-3.5
164: Hyperplasia of prostate	47,606	54,762	52,788	15.0	-3.6
78: Other CNS infection and poliomyelitis	1,973	2,107	2,023	6.8	-4.0
49: Diabetes mellitus without complication	694,938	811,320	775,047	16.7	-4.5
38: Non-Hodgkin`s lymphoma	10,940	11,687	11,158	6.8	-4.5
247: Lymphadenitis	39,477	45,208	43,137	14.5	-4.6
91: Other eye disorders	64,958	72,706	69,329	11.9	-4.6
154: Noninfectious gastroenteritis	129,201	139,660	133,062	8.1	-4.7
54: Gout and other crystal arthropathies	48,799	55,309	52,580	13.3	-4.9

All Listed CCS Diagnosis				Percentag	ge Change
All-Listed CCS Diagnosis Category	Q4 2013, N	3, N Q4 2014, N Q4 2015, N	2013–2014	2014–2015	
				(Baseline)	(Transition)
212: Other bone disease and	59,110	68,280	64,892	15.5	-5.0
musculoskeletal deformities	,	,	- /		
137: Diseases of mouth; excluding	31,133	36,127	34,210	16.0	-5.3
dental 117: Other circulatory disease	266,829	307,712	290,724	15.3	-5.5
652: Attention-deficit, conduct, and	·	·	·		
disruptive behavior disorders	61,888	73,392	69,181	18.6	– 5.7
11: Cancer of head and neck	6,408	6,748	6,346	5.3	-6.0
173: Menopausal disorders	4,278	4,691	4,402	9.7	-6.2
116: Aortic and peripheral arterial	·	·	·		
embolism or thrombosis	1,281	1,395	1,306	8.9	-6.4
657: Mood disorders	450,004	526,045	492,343	16.9	-6.4
139: Gastroduodenal ulcer (except	·	·	·		
hemorrhage)	21,778	23,480	21,959	7.8	-6.5
47: Other and unspecified benign	20,852	23,784	22,214	14.1	-6.6
neoplasm		·	·		
151: Other liver diseases	83,379	99,908	93,250	19.8	-6.7
119: Varicose veins of lower	6,406	7,085	6,610	10.6	-6.7
extremity	0, 100	7,000	0,010	10.0	0.7
21: Cancer of bone and connective	1,206	1,424	1,326	18.1	-6.9
tissue		·	•		
211: Other connective tissue disease	548,592	614,537	571,487	12.0	-7.0
81: Other hereditary and	22 554	20.010	25.006	12.2	77
degenerative nervous system conditions	33,554	38,010	35,096	13.3	- 7.7
56: Cystic fibrosis	1,278	1,383	1,275	8.2	-7.8
224: Other perinatal conditions	25,548	25,772	23,758	0.2	-7.8
8: Other infections; including	25,546				
parasitic	57,661	63,814	58,785	10.7	-7.9
6: Hepatitis	43,870	50,332	46,359	14.7	-7.9
126: Other upper respiratory	·				
infections	848,426	1,012,203	931,348	19.3	-8.0
160: Calculus of urinary tract	173,037	189,635	173,552	9.6	-8.5
659: Schizophrenia and other	95,847	109,776	99,714	14.5	-9.2
psychotic disorders	,	·	•		
1: Tuberculosis	2,417	2,869	2,586	18.7	-9.9
210: Systemic lupus erythematosus	26,149	29,569	26,563	13.1	-10.2
and connective tissue disorders	·	·	•		
217: Other congenital anomalies	19,805	22,579	20,218	14.0	-10.5
96: Heart valve disorders	66,790	77,130	68,955	15.5	-10.6
13: Cancer of stomach	2,465	2,787	2,466	13.1	-11.5
88: Glaucoma	19,477	21,546	19,052	10.6	-11.6
204: Other non-traumatic joint	403,094	444,311	390,889	10.2	-12.0
disorders	,	·	•		
22: Melanomas of skin	6,392	7,350	6,428	15.0	-12.5
206: Osteoporosis	45,809	50,959	44,266	11.2	-13.1
44: Neoplasms of unspecified nature	10,322	11,626	10,088	12.6	-13.2
or uncertain behavior		1,5=0	-,0		

Category	All-Listed CCS Diagnosis					ge Change
110: Occlusion or stenosis of precerebral arteries 10,153 12,224 10,454 20.4 -14.5 133: Other lower respiratory disease 647,297 750,831 633,948 16.0 -15.6 658: Personality disorders 9,341 11,245 9,476 20.4 -15.7 95: Other nervous system disorders 563,313 645,894 542,930 14.7 -15.9 95: Other nervous system disorders 563,313 645,894 542,930 14.7 -15.9 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 14.8 -17.6 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.		Q4 2013, N	Q4 2014, N	Q4 2015, N	2013–2014	2014–2015
10,153 12,224 10,454 20.4 -14.5 133: Other lower respiratory disease 647,297 750,831 633,948 16.0 -15.6 658: Personality disorders 9,341 11,245 9,476 20.4 -15.7 95: Other nervous system disorders 563,313 645,894 542,930 14.7 -15.9 86: Cataract 7,844 9,007 7,422 14.8 -17.6 87: Nutritional deficiencies 27,388 32,520 26,593 18.7 -18.2 134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 139: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 149: Peripheral and visceral and visceral and respective of the death disease 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 179: Postabortion complications 942 960 738 1.9 -23.1 179: Postabortion complications 288,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 179: Other and ill-defined 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital 11,432 12,900 8,317 12.8 -35.5 128: Genitourinary congenital 11,432 12,900 8,317 12.8 -35.5 129: Umbilical cord complication 28 38 24 35.7 -36.8 33: Malignant neoplasm without 4,728 4,931 3,062 4.3 -37.9 35: Energial infertility 301 424 256 40.9 -39.5 377: Encephalitis (except that caused by tuberculosis or sexually 17.5 620 375 8.6 -39.5 171: Mens					(Baseline)	(Transition)
133: Other lower respiratory disease 647,297 750,831 633,948 16.0 -15.6		10.153	12.224	10.454	20.4	-14.5
658: Personality disorders 9,341 11,245 9,476 20.4 -15.7 95: Other nervous system disorders 563,313 645,894 542,930 14.7 -15.9 86: Cataract 7,844 9,007 7,422 14.8 -17.6 52: Nutritional deficiencies 27,388 32,520 26,593 18.7 -18.2 134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 114: Peripheral and visceral atherosclerosis 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 7: Viral Infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189		,				
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52: Nutritional deficiencies 27,388 32,520 26,593 18.7 -18.2 134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 114: Peripheral and visceral atherosclerosis 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 7: Viral infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6	95: Other nervous system disorders		645,894		14.7	
134: Other upper respiratory disease 226,931 266,755 217,903 17.5 -18.3 219: Short gestation; low birth weight; and fetal growth retardation 690 633 501 -8.3 -20.9 -20.9 14: Peripheral and visceral atherosclerosis 70,033 86,471 67,880 23.5 -21.5 21.5 21.5 22.5 27.3 -23.1 22.5 27.3 -23.1 23.1 23.1 24.1 25.1 26.2 255 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 25.1 26.2 25.5 27.3 -23.1 23.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 24.1 25.1 26.2 25.5 27.3 -23.1 23.1 24.1 25.1 24.1 25.1 24.1 25.1 24.1 25.1 24.1 25.1 24.1 25.1 24.1 25.1 24.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1	86: Cataract	7,844	9,007	7,422	14.8	-17.6
219: Short gestation; low birth weight; and fetal growth retardation lattle growth retardation lattle proprietal and visceral atherosclerosis 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 179: Postabortion complications 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 104: Other and ill-defined heart disease 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,49 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital properties 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 277: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 175: Formale infertility	52: Nutritional deficiencies	27,388	32,520	26,593	18.7	-18.2
weight; and fetal growth retardation 690 633 501 -8.3 -20.9 114: Peripheral and visceral atherosclerosis 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 179: Postabortion complications 942 960 738 1.9 -23.1 179: Postabortion complications 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined </td <td>134: Other upper respiratory disease</td> <td>226,931</td> <td>266,755</td> <td>217,903</td> <td>17.5</td> <td>-18.3</td>	134: Other upper respiratory disease	226,931	266,755	217,903	17.5	-18.3
114: Peripheral and visceral atherosclerosis: 70,033 86,471 67,880 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 7: Viral infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 188: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 275: Detroine female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 241: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: M		690	633	501	-8.3	-20.9
atherosclerosis 70,033 66,471 67,860 23.5 -21.5 179: Postabortion complications 942 960 738 1.9 -23.1 179: Viral infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 218: Liveborn 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 2411: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 255: Medical examination/evaluation 2			20.474	07.000		0.1 =
179: Postabortion complications 942 960 738 1.9 -23.1 7: Viral infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 207: Pathological fracture 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 246: Fever of unknown origin 28,796 30,514 20,142 6.0 -34.0 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 236: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 241: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 243: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic 12,981 14,395 7,411 10.9 -48.5 241: Poisoning by psychotropic 12,981 14,395 7,411 10.9 -48.5		70,033	86,471	67,880	23.5	- 21.5
7: Viral infection 268,113 341,215 262,255 27.3 -23.1 104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant		942	960	738	1.9	-23.1
104: Other and ill-defined heart disease 35,777 39,345 30,015 10.0 -23.7	·	268,113	341,215	262,255	27.3	-23.1
disease 35,777 39,345 30,015 10.0 -23.7 218: Liveborn 158 174 131 10.1 -24.7 189: Previous C-section 2,925 3,529 2,648 20.6 -25.0 207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 246: Fever of unknown origin 8,566 10,529 7,039 22.9 -33.1 11: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication		·		•		
189: Previous C-section 2,925 3,529 2,648 20.6 -25.0		35,777	39,345	30,015	10.0	-23.7
207: Pathological fracture 5,321 6,174 4,612 16.0 -25.3 175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 <td< td=""><td>218: Liveborn</td><td>158</td><td>174</td><td>131</td><td>10.1</td><td>-24.7</td></td<>	218: Liveborn	158	174	131	10.1	-24.7
175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256	189: Previous C-section	2,925	3,529	2,648	20.6	-25.0
175: Other female genital disorders 122,957 132,883 98,849 8.1 -25.6 246: Fever of unknown origin 331,195 396,319 291,490 19.7 -26.5 111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256	207: Pathological fracture	5,321	6,174	4,612	16.0	-25.3
111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		122,957	132,883	98,849	8.1	-25.6
111: Other and ill-defined cerebrovascular disease 8,566 10,529 7,039 22.9 -33.1 256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	<u> </u>	331,195		291,490	19.7	-26.5
256: Medical examination/evaluation 28,796 30,514 20,142 6.0 -34.0 215: Genitourinary congenital anomalies 11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3	<u> </u>	·	·	•		
215: Genitourinary congenital anomalies	cerebrovascular disease	8,566	10,529	7,039	22.9	-33.1
11,432 12,900 8,317 12.8 -35.5 192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	256: Medical examination/evaluation	28,796	30,514	20,142	6.0	-34.0
192: Umbilical cord complication 28 38 24 35.7 -36.8 43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	215: Genitourinary congenital	11 /22	12,000	0 217	12.0	25.5
43: Malignant neoplasm without specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	anomalies	11,432	12,900	0,317	12.0	-33.5
specification of site 4,728 4,931 3,062 4.3 -37.9 141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		28	38	24	35.7	-36.8
141: Other disorders of stomach and duodenum 27,688 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		4,728	4,931	3,062	4.3	-37.9
duodenum 27,888 31,036 19,157 12.1 -38.3 227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5						
227: Spinal cord injury 1,457 1,572 961 7.9 -38.9 77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		27,688	31,036	19,157	12.1	-38.3
77: Encephalitis (except that caused by tuberculosis or sexually transmitted disease) 571 620 375 8.6 -39.5 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		1.457	1.572	961	7.9	-38.9
by tuberculosis or sexually transmitted disease) 174: Female infertility 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 193: OB-related trauma to perineum and vulva 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		, -	,-			
transmitted disease) 301 424 256 40.9 -39.6 171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		571	620	375	8.6	-39.5
171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	transmitted disease)					
171: Menstrual disorders 48,187 51,285 30,607 6.4 -40.3 242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	174: Female infertility	301	424	256	40.9	-39.6
242: Poisoning by other medications and drugs 36,676 40,311 23,887 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5		48,187	51,285	30,607	6.4	-40.3
and drugs 36,676 40,311 23,867 9.9 -40.7 193: OB-related trauma to perineum and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	242: Poisoning by other medications	26.676			0.0	40.7
and vulva 92 89 52 -3.3 -41.6 654: Developmental disorders 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	and drugs	30,076	40,311	∠3,007	9.9	-4 0.7
and vulva 26,314 29,928 16,303 13.7 -45.5 28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	•	92	80	52	_3 3	_41 6
28: Cancer of other female genital organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5						
organs 1,468 1,632 864 11.2 -47.1 241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	·	26,314	29,928	16,303	13.7	-45.5
241: Poisoning by psychotropic agents 12,981 14,395 7,411 10.9 -48.5	S .	1.468	1.632	864	11.2	–47 .1
agents 12,981 14,395 7,411 10.9 -48.5		.,	.,552		- · · · <u>-</u>	
		12,981	14,395	7,411	10.9	-48.5
. V. V. V. V. G.	85: Coma; stupor; and brain damage	22,098	23,153	11,644	4.8	-49.7

All-Listed CCS Diagnosis Category	Q4 2013, N	Q4 2014, N	Q4 2015, N	Percentage Change	
				2013-2014 (Baseline)	2014–2015 (Transition)
31: Cancer of other male genital organs	185	264	121	42.7	-54.2
195: Other complications of birth; puerperium affecting management of mother	29,462	33,600	15,249	14.0	-54.6
156: Nephritis; nephrosis; renal sclerosis	7,105	7,339	3,033	3.3	-58.7
87: Retinal detachments; defects; vascular occlusion; and retinopathy	21,825	24,246	9,581	11.1	-60.5
663: Screening and history of mental health and substance abuse codes	1,395,868	1,842,596	576,158	32.0	-68.7
220: Intrauterine hypoxia and birth asphyxia	45	60	16	33.3	-73.3
123: Influenza	62,216	164,907	19,406	165.1	-88.2
178: Induced abortion	4,085	4,137	438	1.3	-89.4
194: Forceps delivery	0	0	<=10	NA	NA

Abbreviations: CCS, Clinical Classifications Software; CNS, central nervous system; GI, gastrointestinal; HIV, human immunodeficiency virus; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification; NA, not applicable; NEC, not elsewhere classified; OB, obstetric; Q, quarter.

Note: Shaded rows indicate CCS diagnosis categories that changed by less than 5 percent with the introduction of ICD-10-CM. The table only includes CCS diagnosis categories; external cause (E code) categories are not included, as they are not expected to be comparable between ICD-9-CM and ICD-10-CM.

Source: Healthcare Cost and Utilization Project State Emergency Department Databases from 17 States.