

# **HCUP Methods Series**

Methods Applying AHRQ Quality Indicators to Healthcare Cost and Utilization Project (HCUP) Data for the 2018
National Healthcare Quality and Disparities Report (QDR)
Report # 2019-01





Contact Information:
Healthcare Cost and Utilization Project (HCUP)
Agency for Healthcare Research and Quality
5600 Fishers Lane
Room 07W17B
Mail Stop 7W25B
Rockville, MD 20857
http://www.hcup-us.ahrq.gov

For Technical Assistance with HCUP Products:

Email: hcup@ahrq.gov

or

Phone: 1-866-290-HCUP

Recommended Citation: Barrett M, Mummert A, Kenney T, Heslin K. *Methods Applying AHRQ Quality Indicators to Healthcare Cost and Utilization Project (HCUP) Data for the 2018 National Healthcare Quality and Disparities Report (QDR)*. 2019. HCUP Methods Series Report # 2019-01 ONLINE. September 17, 2019. U.S. Agency for Healthcare Research and Quality. https://www.hcup-us.ahrq.gov/reports/methods/methods.jsp.

## **TABLE OF CONTENTS**

INTRODUCTION	1
AHRQ QUALITY INDICATORS	1
PREPARATION OF HCUP DATABASES	2
HCUP Data on Race/Ethnicity	3
STEPS TAKEN TO APPLY AHRQ QUALITY INDICATORS TO THE HCUP DATA	
Review and Modify the AHRQ QI Software	5 5
SPECIAL ANALYSES	6
National Inpatient Hospital Costs Associated with Quality Indicators	7 s .7
TABLES	8
Table 1. AHRQ QIs Applied to the HCUP Data for the QDRTable 2. Sources of 2016 HCUP Inpatient Data for the QDRTable 3. Editing Essential Data Elements for State-Level and National Reporting of QIs in t	16 the
REFERENCES	20
APPENDIX A: NATIONALLY WEIGHTED ANALYSIS FILES FOR THE NATIONAL HEALTHCARE QUALITY AND DISPARITIES REPORT	<b>A-1</b>
APPENDIX B: EMERGENCY DEPARTMENT RATES FOR SELECTED AHRQ QUALITY INDICATORS	B-1
APPENDIX C: STATISTICAL METHODS	C-1
APPENDIX D: CAVEATS TO THE INTREPRETATION OF HCUP-BASED QI ESTIMATES REPORTED IN THE QDR	D-1

i

#### INTRODUCTION

The Agency for Healthcare Research and Quality (AHRQ) Quality Indicators (QIs) were applied to the Healthcare Cost and Utilization Project (HCUP) hospital discharge data for selected measures in the National Healthcare Quality and Disparities Report (QDR). The report measures and tracks trends in quality and disparities in terms of patient safety, person-centered care, care coordination, effective treatment, healthy living, and care affordability — and access to health care. A focus on priority populations summarizes quality and disparities in care for populations at elevated risk for receiving poor health care, which includes HCUP-based measures related to racial, ethnic, and socioeconomic factors for priority populations, including changes over time and across the urban-rural continuum. The QDR provides a comprehensive overview of the quality of health care received by the general population and disparities in care experienced by different racial, ethnic, and socioeconomic groups.

This document describes the preparation of the 2016 HCUP data for the 2018 QDR, the steps taken to apply the AHRQ QIs to the HCUP data, and other analyses based on HCUP data that are not specific to the QIs but are developed for use in the QDR.

#### **AHRQ QUALITY INDICATORS**

The AHRQ QIs are measures of quality associated with processes of care that occur in an outpatient or an inpatient setting. The QIs rely solely on hospital inpatient administrative data and, for this reason, are screens for examining quality that may indicate the need for more indepth studies. The AHRQ QIs include four sets of measures:

- Prevention Quality Indicators (PQIs) or ambulatory care sensitive conditions —
  identify hospital admissions that evidence suggests could have been avoided, at least in
  part, through high-quality outpatient care (AHRQ, 2017).
- Inpatient Quality Indicators (IQIs) reflect quality of care inside hospitals and include measures of utilization of procedures for which there are questions of overuse, underuse, or misuse (AHRQ, 2017).
- Patient Safety Indicators (PSIs) reflect quality of care inside hospitals, by focusing on surgical complications and other iatrogenic events (AHRQ, 2017).
- Pediatric Quality Indicators (PDIs) reflect quality of care inside hospitals and identify potentially avoidable hospitalizations among children (AHRQ, 2017).

Prior to the 2018 QDR, the reports included longitudinal reporting of QI trends based on ICD-9-CM¹ coding. Because of the transition from ICD-9-CM to ICD-10-CM/PCS on October 1, 2015, the 2018 QDR includes QI estimates only for 2016 and does not report on trends. The HCUP databases were processed with Version 7.0.1 of the AHRQ QI software. Version 7.0.1 of the QI software is based on ICD-10-CM/PCS² coding and does not calculate risk-adjusted rates. This means that the QI estimates for data year 2016 are observed and not risk adjusted. Observed national QI estimates from 2016 HCUP data are included in the 2018 QDR. State-level QI estimates from 2016 HCUP data are excluded from public reporting in the 2018 QDR.

HCUP (09/13/19)

<sup>&</sup>lt;sup>1</sup> ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification.

<sup>&</sup>lt;sup>2</sup> ICD-10-CM/PCS: International Classification of Diseases, Tenth Revision, Clinical Modification and Procedure Coding System.

The following national and State-level QI estimates were constructed from the HCUP databases for the QDR:

- National inpatient rates by QI, overall and by subpopulations including community income, expected primary payer, and race/ethnicity
- State-level inpatient rates by QI, overall and by subpopulations including community income, expected primary payer, and race/ethnicity, for HCUP Partner organizations that agreed to participate in the QDR
- National rates for selected PQIs and PDIs in the emergency department (ED) setting.

The AHRQ QI measures generated for possible inclusion in the QDR are described in <u>Table 1</u> at the end of this methods report.

#### PREPARATION OF HCUP DATABASES

The Healthcare Cost and Utilization Project (HCUP) is a family of healthcare databases and related software tools and products developed through a Federal-State-Industry partnership and sponsored by AHRQ. HCUP databases are derived from administrative data and contain encounter-level, clinical and nonclinical information including all-listed diagnoses and procedures, discharge status, patient demographics, and charges for all patients, regardless of payer (e.g., Medicare, Medicaid, private insurance, uninsured), beginning in 1988. These databases enable research on a broad range of health policy issues, including cost and quality of health services, medical practice patterns, patient safety, access to health care programs, and outcomes of treatments at the national, State and local market levels.

The following HCUP databases were used as the source of data for the QDR:

- The HCUP State Inpatient Databases (SID), including all inpatient stays regardless of payer from most, if not all, hospitals from participating HCUP Partner organizations in data year 2016 (46 States and the District of Columbia)
- The HCUP Nationwide Emergency Department Sample (NEDS), a nationally stratified sample of hospital-based EDs (with information for both treat-and-release visits and those resulting in a hospital admission) in data year 2016.

The list of HCUP Partner organizations that contribute to the HCUP databases is provided in Table 2.

#### **HCUP Data on Race/Ethnicity**

HCUP coding includes race and ethnicity in one data element (RACE). Because of variability in the collection of race and ethnicity information in the State data, HCUP maintains a uniform set of categories based on race definitions used in the 1977 Office of Management and Budget (OMB) Directive 15 using the combined race-ethnicity format (separate categories for Hispanic and five Non-Hispanic racial groups – White, Black, Asian or Pacific Islander, American Indian or Alaska Native (AIAN), and Other).

When a State and its hospitals collect Hispanic ethnicity *separately* from race, HCUP assigns the data to the combined race/ethnicity categorization and uses Hispanic ethnicity to override any other race category to create uniform coding across States.

There is limited reporting of AIAN in the HCUP data. In addition, in some areas of the country, care for the AIAN population is provided in Indian Health Service (IHS) hospitals which are not included in HCUP. For these reasons, AIAN discharges were combined with "Other" races for the QDR analyses.

The resulting QDR reporting categories for the HCUP data include: White Non-Hispanic; African American Non-Hispanic; Asian/Pacific Islander Non-Hispanic; Other Non-Hispanic; and Hispanic (of any race).

#### Modifications to the HCUP Data

In preparation for the QDR and its derivative products, the HCUP databases needed to be customized as indicated below:

- 1. The HCUP databases were augmented as necessary for the QDR analyses:
  - Impute for Missing Characteristics. For missing age, sex, race/ethnicity, ZIP Code, and expected primary payer data that occurred on a small proportion of discharge records, we used a "hot deck" imputation method (which draws donors from strata of similar hospitals and patients) to assign values while preserving the variance within the data.
  - Assign Additional Measures for Reporting. We assigned median household income quartile by linking Claritas ZIP Code demographic data to patient's ZIP Code in the SID. Income quartiles were defined annually based on the distribution of the population in the United States.
- 2. Essential data elements were edited prior to use to determine if the SID had good quality data, and later informed which records and States could be used for national and State-level reporting in the QDR:
  - Race/Ethnicity. Race/ethnicity is an important reporting category for the QDR. Race/ethnicity edits were performed at the hospital-level using the HCUP data element RACE and include the following: (1) all discharges in the hospital (100 percent) had RACE coded as White and the hospital had more 2,500 discharges in the year; (2) more than 30 percent of the discharges in the hospital had the race reported as Other; (3) more than 50 percent of the discharges in the hospital had no information on the race/ethnicity of the patient (i.e., RACE was missing or invalid); and (4) no discharges in the hospital were coded as Black, Hispanic, Asian/Pacific Islander, or Al/AN. Table 3 lists the percent of records in the 47 SID in 2016 that failed any race/ethnicity edit checks.
  - Indicators that Diagnoses are Present on Admission (POA). Present on admission (POA) data are required for the PSI module software. Edit flags for POA were already included on the SID. There are three hospital-level and two discharge-level edits. The three hospital-level edits include: (1) POA is reported as "yes/present" on all diagnoses on all discharges in the hospital; (2) POA is reported as missing on all non-Medicare discharges in the hospital; and (3) POA is reported as missing on all nonexempt diagnoses<sup>3</sup> for 15 percent or more of the discharges in the hospital. The two discharge-level edits include: (1) discharge is missing POA on all nonexempt diagnoses; and (2) Discharge is missing POA on all nonexempt secondary diagnoses. Table 3 lists the percent of records in the 47 SID in 2016 that failed any POA edit checks.

\_

<sup>&</sup>lt;sup>3</sup> Some diagnoses are exempt from having POA reported.

### **Creation of Analysis Files Derived from the HCUP Databases**

A nationally weighted QDR analysis file based on a subset of the 47 SID in 2016 was used for reporting national QI estimates. Because the PSI module software requires the use of POA and day of the procedure, three criteria were used to select SID for national reporting: (1) less than 10 percent of records failed POA edits; (2) the SID included information on day of principal and secondary procedure days; and (3) the SID included race/ethnicity data (Table 3). SID from 34 States qualified for use in the nationally weighted QDR analysis file. After records and hospitals that failed the POA and race/ethnicity edits were excluded, all remaining discharges in the 34 SID were weighted to the universe of community hospitals<sup>4</sup> in the United States, excluding rehabilitation and long-term acute care (LTAC) facilities. This approach differs from prior years in which the nationally weighted QDR analysis file was a 40 percent sample of hospitals. A comparison of the nationally weighted QDR analysis file to external data is provided in Appendix A.

The editing of the race/ethnicity and POA data informed which records and States could be used for State-level reporting in the QDR. States were excluded from race/ethnicity reporting if more than 10 percent of the SID records failed the race/ethnicity edits. States were not used for reporting PSIs if more than 10 percent of SID records failed the POA edits or the SID did not include information on day of procedures. Of the 47 SID in 2016, 30 States met the criteria for both race/ethnicity and POA reporting, eight States met the criteria for POA reporting, seven States met the criteria for race/ethnicity reporting, and two States cannot be used for either type of reporting (Table 3). The HCUP SID were modified to create analytic files consistent across States.

- Subset to Community Hospitals. For the SID, we selected community hospitals and eliminated rehabilitation and LTAC hospitals.
- Weight for Missing Hospitals. Because some statewide data organizations do not report
  data for all community hospitals in the State, we weighted hospitals in the SID to the
  State's universe of hospitals in the American Hospital Association (AHA) Annual Survey
  Database based on hospital characteristics (teaching status, control, urban/rural
  location, and bed size).
- Weight for Missing Quarters. Discharges from hospitals operating for the entire year but not contributing data for one or more quarters were weighted up to annual estimates for that institution in the SID.

Weighting also accounted for all any discharges or hospitals excluded because of edit check on race/ethnicity and/ POA.

The NEDS were used to calculate PQIs and PDIs in the ED setting. A description of the data preparation and methods used for national QI estimates from the NEDS is included in <a href="Appendix">Appendix</a> <a href="B.">B.</a>

\_\_\_

<sup>&</sup>lt;sup>4</sup> Community hospitals are defined by the AHA as "all non-Federal, short-term, general, and other specialty hospitals, excluding hospital units of institutions open to the public." Specialty hospitals included in the AHA definition of "community hospitals" are: obstetrics-gynecology, ear-nose-throat, short-term rehabilitation, orthopedic, and pediatric institutions. Community hospitals can include rehabilitation and long-term acute care (LTAC) facilities. These facilities can provide acute care services to patients who need long term hospitalization). Excluded from the AHA definition of "community hospitals" are long-term non-acute care hospitals, psychiatric hospitals, and alcoholism/chemical dependency treatment facilities.

#### STEPS TAKEN TO APPLY AHRQ QUALITY INDICATORS TO THE HCUP DATA

To apply the AHRQ Quality Indicators to HCUP hospital discharge data for the QDR, several steps were taken:

- (1) QI software review and modification
- (2) Acquisition of population-based data
- (3) Assignment of QIs to the HCUP databases
- (4) Identification of statistical methods.

## Review and Modify the AHRQ QI Software

We used Version 7.0.1 AHRQ QI software that features ICD-10-CM/PCS coding. The Version 7.0.1 AHRQ QI software did not include the option to risk adjust rates in any modules. Therefore, the 2016 QI estimates in the 2018 QDR could not be risk adjusted.

The QI software was modified for the 2018 QDR in several ways.

- The AHRQ QI software was designed to produce rates at various levels including hospital, local area (county or Metropolitan/Micropolitan Statistical Areas), and State. The QI software was revised to produce *national rates* for the QDR using weighted discharge data.
- The AHRQ QI software was limited to reporting rates by age, sex, and race/ethnicity. The
  QDR included additional patient categories (community income level of the patient's ZIP
  Code, primary expected payer, and location) and hospital characteristics (region, ownership,
  teaching status, location, and bed size).
- The AHRQ QI software was designed to produce standard errors for unweighted data. For the QDR, we needed to produce statistics for weighted data from the stratified sample of discharges in the nationally weighted analysis files and test for significant differences.
- At AHRQ's request, we added two area-based QIs particularly relevant to the structure of the QDR, measuring immunization-preventable pneumococcal pneumonia and immunization-preventable influenza for patients aged 65 years and older.

#### **Acquire Population-Based Data for Denominators**

The next step was to acquire data for the numerator and denominator populations for the QIs. The AHRQ QIs measure an event that occurs in a hospital, requiring a numerator count of the event of interest and a denominator count of the population (within a hospital or geographic area) to which the event relates.

For the numerator counts of the AHRQ QIs, we used the HCUP databases. For the denominator counts, we identified two sources for all reporting categories.

- For QIs that related to *providers*, the HCUP data were used for national and State-level discharge denominator counts.
- For QIs that related to geographic areas, population ZIP-Code-level counts from demographic update data provided by Claritas (a vendor that compiles and adds value to the U.S. Bureau of Census data) were used for denominator counts. Claritas uses intra-census methods to estimate household and demographic statistics for geographic areas (Claritas).

#### Assign QI Indicators to the HCUP Databases

The four AHRQ QI program modules were applied to the prepared SID data using all available diagnoses and procedures reported by each State.

#### **Adapt Statistical Methods to HCUP Data**

Several statistical issues needed to be addressed when applying the AHRQ QI software to the HCUP data for the QDR, including the derivation of standard errors for weighted data and appropriate hypothesis tests.

- Standard Errors and Hypothesis Tests. Standard error calculations needed to take into
  account cluster and stratification aspects of the weighted analysis files. Standard errors
  were calculated for the QDR as described in the HCUP report entitled *Inferences with*HCUP State Databases Final Report (Houchens, et al., 2010). Using this method, we
  were able to calculate appropriate statistics for both national and State-level AHRQ QIs
  using the Statistical Analysis System (SAS) procedure called PROC SURVEYMEANS.
- Masking Rates for Statistical Reliability, Data Quality, and Confidentiality. QI estimates
  were included in the QDR if they reached a threshold defined by a relative standard error
  less than 30% and at least 100 weighted cases in the denominator. Estimates that did
  not meet this threshold were suppressed. Statistical calculations are explained in
  Appendix C to this report.

Some caution should be used in interpreting the QI statistics presented in the QDR. <u>Appendix</u> <u>D</u> details how these caveats relate to inter-State differences in data collection and other more general issues.

#### **SPECIAL ANALYSES**

## **National Inpatient Hospital Costs Associated with Quality Indicators**

The QDR includes total national costs for the select PQIs and PDIs including the composites and ambulatory care sensitive conditions such as heart failure, diabetes, and asthma. Total national costs associated with these PQIs and PDIs were calculated overall and by community income quartile and race/ethnicity.

Total charges were converted to costs using the hospital-level HCUP Cost-to-Charge Ratio Files (CCR Files) based on Hospital Cost Report data from the Centers for Medicare & Medicaid Services (CMS).<sup>5</sup> Costs reflect the actual costs of production, while charges represent what the hospital billed for the stay. Hospital charges reflect the amount the hospital charged for the entire hospital stay and do not include professional (physician) fees. To account for records with missing total charges and costs in the aggregate, the average cost for the QI was used to impute the missing values for that QI. This approach compensates for stays for which charges (and thus estimated costs) are not available.

HCUP (09/13/19)

<sup>&</sup>lt;sup>5</sup> HCUP Cost-to-Charge Ratio Files. Healthcare Cost and Utilization Project (HCUP). June 2018. Agency for Healthcare Research and Quality, Rockville, MD. Available: <a href="www.hcup-us.ahrq.gov/db/state/costtocharge.jsp">www.hcup-us.ahrq.gov/db/state/costtocharge.jsp</a>.

### **Benchmarks for State Performance for the Quality Indicators**

Based on a recommendation from the Institute of Medicine's report on *Future Directions for the National Healthcare Quality and Disparities Reports*, benchmarks based on a straight average of the top 10 percent of reporting States were determined. For a benchmark to be calculated, rates for at least 30 States needed to be available. As State-level QIs were excluded from the 2018 QDR because of the absence of risk adjustment in the version 7.0.1 AHRQ QI software, State benchmarks were not publicly released in the 2018 QDR

## Medicaid and Uninsured Inpatient Stays and Aggregate Hospital Costs in the United States

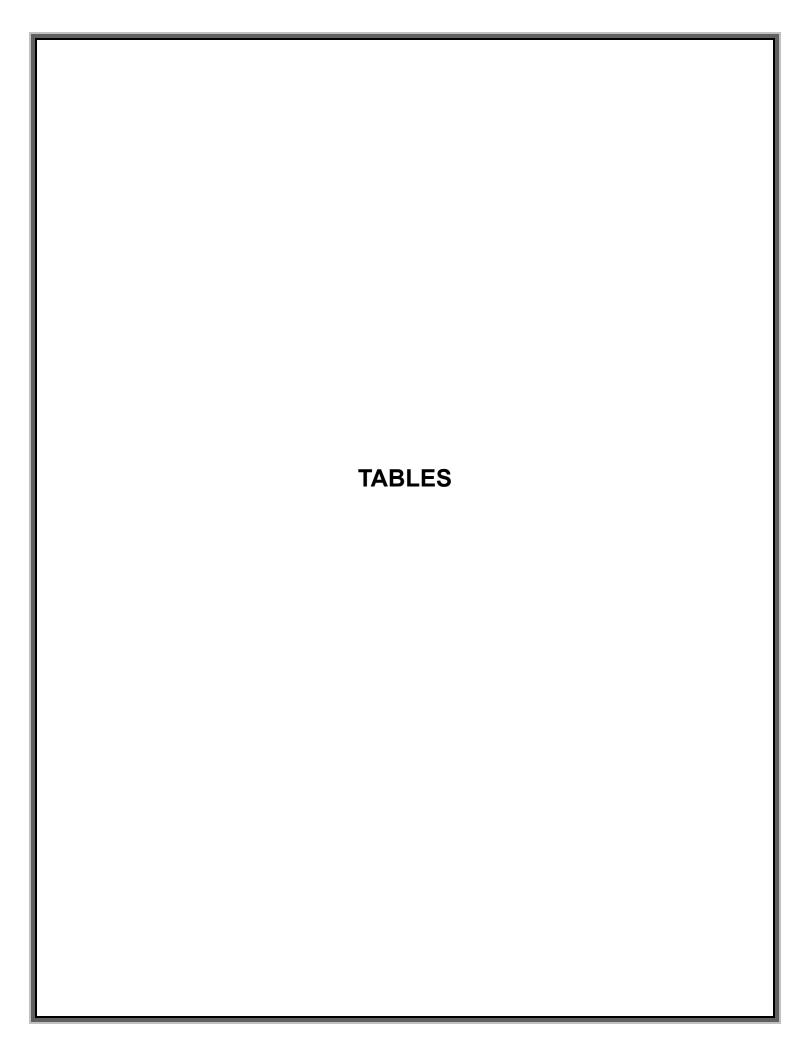
Information on Medicaid and uninsured inpatient stays and aggregate hospital costs in the United States for 2012–2016 were developed using the HCUP National Inpatient Sample (NIS). Medicaid and uninsured discharges were identified based on the expected primary payer of Medicaid, self-pay, no charge, and charity. Discharge counts and aggregate hospital costs were reported as a percentage of the total U.S and by hospital characteristics including region, ownership, teaching status, urban-rural location, and size of the hospital based on the number of beds.

#### **National Estimates of Emergency Department Utilization**

The NEDS was used to examine national and regional differences in ED use for selected ambulatory care sensitive conditions

- ED visits for mental illness, substance use, and co-occurring mental illness and substance use. ED visits were identified by having a first-listed diagnosis related to mental illness, substance use, or co-occurring mental illness and alcohol or substance use. Claritas population data was used to calculate rates per 100,000 residents by age, sex, community income, urban-rural location of patient residence, and region of the United States. Rates were not risk-adjusted.
- ED visits for dental conditions. ED visits were identified by an ICD-10-CM principal diagnosis related to a dental condition. Claritas population data was used to calculate rates per 100,000 residents by age, sex, community income, and urban-rural location of patient residence. Rates were not risk-adjusted.
- ED visits for injuries. ED utilization for injuries was reported by trauma level and by age, sex, community income, urban-rural location of patient residence, and region of the United States. Rates were not risk-adjusted.
- ED visits for asthma for adults based on PQI 15 and for pediatrics based on PDI 14.
- ED visits for heart failure based on PQI 8.

Additional details on the use of the NEDS for reporting are provided in Appendix B.



## Table 1. AHRQ QIs Applied to the HCUP Data for the QDR

This table includes the list of all version 7.0.1 AHRQ Quality Indicators (QIs) calculated using 2016 HCUP inpatient data under the QDR task. Not all of the AHRQ QIs listed below were included in the QDR.

QI	QI Label	Label Footnote		
	Quality Indicators			
IQI08	Deaths per 1,000 hospital admissions with esophageal resection for cancer, age 18 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions and transfers to another hospital.		
IQI09	Deaths per 1,000 hospital admissions with pancreatic resection, age 18 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions, acute pancreatitis admissions, and transfers to another hospital.		
IQI11	Deaths per 1,000 hospital admissions with abdominal aortic aneurysm (AAA) repair, age 18 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions and transfers to another hospital.		
IQI12	Deaths per 1,000 hospital admissions with coronary artery bypass graft (CABG), age 40 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions and transfers to another hospital.		
IQI13	Deaths per 1,000 hospital admissions with craniotomy, age 18 and over	Consistent with the AHRQ IQI software, exclusions include admissions with a principal diagnosis of head trauma and transfers to another hospital.		
IQI14	Deaths per 1,000 hospital admissions with a hip replacement procedure, age 18 and over	Consistent with the AHRQ IQI software, exclusions include hip fractures, obstetric admissions, and transfers to another hospital.		
IQI15	Deaths per 1,000 hospital admissions with acute myocardial infarction (AMI), age 18 and over	Consistent with the AHRQ IQI software, AMI must be the principal diagnosis and the following cases are excluded: obstetric admissions and transfers to another hospital.		
IQI16	Deaths per 1,000 hospital admissions with heart failure (HF), age 18 and over	Consistent with the AHRQ IQI software, HF must be the principal diagnosis and the following cases are excluded: heart transplant procedures, obstetric admissions, transfers to another hospital, and patients in hospice care at admission.		
IQI17	Deaths per 1,000 hospital admissions with acute stroke, age 18 and over	Consistent with the AHRQ IQI software, stroke must be the principal diagnosis and the following cases are excluded: obstetric admissions, transfers to another hospital, and patients in hospice care at admission.		
IQI18	Deaths per 1,000 hospital admissions with gastrointestinal hemorrhage, age 18 and over	Consistent with the AHRQ IQI software, gastrointestinal hemorrhage must be the principal diagnosis and the following cases are excluded: obstetric admissions, transfers to another hospital, and patients in hospice care at admission.		
IQI19	Deaths per 1,000 hospital admissions with hip fracture, age 65 and over	Consistent with the AHRQ IQI software, hip fracture must be the principal diagnosis and the following cases are excluded: periprosthetic fractures, obstetric admissions, transfers to another hospital, and patients in hospice care at admission.		
IQI20	Deaths per 1,000 hospital admissions with pneumonia, age 18 and over	Consistent with the AHRQ IQI software, pneumonia must be the principal diagnosis and the following cases are excluded: obstetric admissions, transfers to another hospital, and patients in hospice care at admission.		
IQI21	Cesarean deliveries per 1,000 deliveries	Consistent with the AHRQ IQI software, exclusions include deliveries for preterm or multiple infants, deliveries with abnormal presentations or breech procedures, and deliveries resulting in fetal death.		
IQI22	Vaginal birth after cesarean (VBAC) per 1,000 women with previous cesarean deliveries	Consistent with the AHRQ IQI software, exclusions include deliveries for preterm or multiple infants, deliveries with abnormal presentations or breech procedures, and deliveries resulting in fetal death.		
IQI30	Deaths per 1,000 hospital admissions with percutaneous coronary intervention (PCI), age 40 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions and transfers to another hospital.		

QI	QI Label	Label Footnote
IQI31	Deaths per 1,000 hospital admissions with carotid endarterectomy (CEA), age 18 and over	Consistent with the AHRQ IQI software, exclusions include obstetric admissions and transfers to another hospital.
IQI32	Deaths per 1,000 hospital admissions with acute myocardial infarction (AMI), age 18 and over	Consistent with the AHRQ IQI software, AMI must be the principal diagnosis and the following cases are excluded: obstetric admissions, transfers to and from another hospital, and patients in hospice care at admission.
IQI33	First-time cesarean deliveries (identified by no previous cesarean delivery diagnosis on the record) per 1,000 deliveries	Consistent with the AHRQ IQI software, exclusions include previous cesarean delivery, deliveries for preterm or multiple infants, deliveries with abnormal presentations or breech procedures, and deliveries resulting in fetal death.
IQI34	Vaginal birth after cesarean (VBAC) per 1,000 women with previous cesarean deliveries	Consistent with the AHRQ IQI software, there are no exclusions.
Pediatri	c Quality Indicators	
NQI01	Admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, neonates weighing 500 to 2,500 grams	The AHRQ PDI software requires that the iatrogenic pneumothorax be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PDI software, the following cases are excluded: normal newborns; neonates with a birth weight less than 500 grams; admissions with chest trauma, pleural effusion, thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair, or cardiac surgery; and obstetric cases.
NQI02	Deaths per 1,000 newborn admissions	Consistent with the AHRQ PDI software, newborn admissions include babies born outside the hospital and then admitted. Exclusions include newborns weighing less than 500 grams, transfers to another hospital, and diagnosis of anencephaly, polycystic kidney, trisomy 13, or trisomy 18.
NQI03	Admissions with blood stream infection per 1,000 medical and surgical discharges of length 2 or more days, newborns	The AHRQ PDI software requires that the blood stream infection be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PDI software, newborn admissions include babies born outside the hospital and then admitted; infants with a birth weight of 500 to 1,499 grams or with gestational age between 24 and 30 weeks; and newborns with a birth weight greater than or equal to 1,500 grams, only if the infant experienced death in-hospital, major surgery, mechanical ventilation, or transferring from another hospital within two days of birth. Exclusions include newborns weighing less than 500 grams, cases with a principal diagnosis of sepsis or infection or with a length of stay less than 2 days.
PDI01	Accidental puncture or laceration during a procedure per 1,000 medical and surgical admissions, age less than 18 years	The AHRQ PDI software requires that the accidental puncture or laceration be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PDI software, the following cases are excluded: obstetric cases, admissions involving spinal surgery, normal newborns, and neonates with a birth weight less than 500 grams.
PDI02	Admissions with pressure ulcers per 1,000 medical and surgical admissions of length 3 or more days, age less than 18 years	The AHRQ PDI software requires that the pressure ulcers be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PDI software, the following cases are excluded: admissions with diseases of the skin; obstetric cases; and admissions with stays of less than 3 days.
PDI03	Retained surgical item or unretrieved device fragment among medical and surgical admissions, age less than 18 years	The AHRQ PDI software requires that the retained surgical item or unretrieved device fragment be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PDI software, the following cases are excluded: normal newborns, neonates with a birth weight less than 500 grams, and obstetric cases.

QI	QI Label	Label Footnote
PDI05	Admissions with iatrogenic pneumothorax per 1,000 medical and	The AHRQ PDI software requires that the iatrogenic pneumothorax be reported as a secondary diagnosis (rather than
	surgical admissions, age less than 18	the principal diagnosis) not present on admission. Consistent
	years	with the AHRQ PDI software, the following cases are excluded:
	you.o	obstetric cases, normal newborns, neonates with a birth weight
		less than 500 grams, and admissions with chest trauma, pleural
		effusion, thoracic surgery, lung or pleural biopsy, diaphragmatic
		surgery repair, or cardiac surgery.
PDI08	Perioperative hemorrhage or	The AHRQ PDI software requires that the hemorrhage or
	hematoma with surgical drainage or	hematoma complicating procedure be reported as a secondary
	evacuation per 1,000 elective surgical	diagnosis (rather than the principal diagnosis) not present on
	admissions, age less than 18 years	admission. Consistent with the AHRQ PDI software, the following
		cases are excluded: obstetric cases, admissions with neonates
		with a birth weight less than 500 grams, and admissions in which
		the control of the hemorrhage or hematoma is the only operating
		room procedure.
PDI09	Postoperative respiratory failure,	The AHRQ PDI software requires that the respiratory failure be
Í	prolonged mechanical ventilation, or	reported as a secondary diagnosis (rather than the principal
	reintubation per 1,000 elective-	diagnosis) not present on admission. Consistent with the AHRQ
	surgery admissions, age less than 18	PDI software, the following cases are excluded: admissions with
	years	acute respiratory failure, respiratory or circulatory disease, craniofacial anomalies, neuromuscular disorders, or
		degenerative neurological disorder; obstetric cases; admissions
		in which the tracheostomy is the only operating room procedure
		or occurs before the first operating room procedure; and
		admissions with a procedure for esophageal resection, lung
		cancer/transplant, or the nose, mouth, and pharynx.
PDI10	Postoperative sepsis per 1,000	The AHRQ PDI software requires that the sepsis be reported as
	surgery admissions, age less than 18	a secondary diagnosis (rather than the principal diagnosis) not
	years	present on admission. Consistent with the AHRQ PDI software,
		the following cases are excluded: admissions with a principal
		diagnosis of infection; admissions with a surgical class 4
		procedure for appendicitis, infectious or parasitic diseases, or
		postoperative infections; obstetric cases; and neonates.
PDI11	Reclosure of postoperative	Consistent with the AHRQ PDI software, the following cases are
	abdominal wound dehiscence per	excluded: obstetric cases; neonates with a birth weight less than
	1,000 abdominopelvic-surgery	500 grams; admissions with a high- or intermediate-risk
	admissions of length 2 or more days,	immunocompromised state or having a procedure code for
	age less than 18 years	transplant; admissions with hepatic failure consisting of cirrhosis
		and hepatic coma or heatorenal syndrome; admissions with
		gasroschisis or umbilical hernia repair occurring before the day
		of the abdominal wall reclosure in newborns; and admissions with stays of less than 2 days.
PDI12	Admissions with central venous	The AHRQ PDI software requires that the central venous
. 5.12	catheter-related bloodstream	catheter-related bloodstream infection be reported as a
	infection per 1,000 medical and	secondary diagnosis (rather than the principal diagnosis) not
	surgical discharges of length 2 or	present on admission. Consistent with the AHRQ PDI software,
	more days, age less than 18 years	the following cases are excluded: normal newborns, neonates
	,	with a birth weight less than 500 grams, obstetric cases, and
		admissions with stays of less than 2 days.
PDI13	Count of transfusion reactions among	The AHRQ PSI software requires that the transfusion reaction be
	medical and surgical admissions, age	reported as a secondary diagnosis (rather than the principal
	less than 18 years	diagnosis) not present on admission. Consistent with the AHRQ
		PDI software, the following cases are excluded: neonates and
DDIAA	100000	obstetric admissions.
PDI14	Admissions for asthma per 100,000	Consistent with the AHRQ PDI software, asthma must be the
	population, ages 2-17	principal diagnosis and the following cases are excluded:
		admissions with cystic fibrosis or anomalies of the respiratory
		system, transfers from other institutions, and obstetric
		admissions.

QI	QI Label	Label Footnote
PDI15	Admissions with diabetes with short- term complications per 100,000 population, ages 6-17	Consistent with the AHRQ PDI software, diabetes must be the principal diagnosis and short-term complications include ketoacidosis, hyperosmolarity, or coma. Transfers from other institutions and obstetric admissions are excluded.
PDI16	Admissions for pediatric gastroenteritis per 100,000 population, ages 3 months to 17 years	Consistent with the AHRQ PDI software, gastroenteritis must be the principal diagnosis or a secondary diagnosis with a principal diagnosis of dehydration. Exclusions include admissions with gastrointestinal abnormalities or bacterial gastroenteritis, transfers from other institutions, neonates if age in days is missing, and obstetric admissions.
PDI17	Admissions with perforations or abscesses of appendix per 1,000 admissions with appendicitis, ages 1-17	Consistent with the AHRQ PDI software, exclusions include transfers from other institutions and obstetric admissions.
PDI18	Admissions for urinary tract infection (UTI) per 100,000 population, ages 3 months to 17 years	Consistent with the AHRQ PDI software, UTI must be the principal diagnosis and the following cases are excluded: kidney or urinary tract disorders; admissions with a high- or intermediate-risk immunocompromised state including hepatic failure and transplant; obstetric cases, and transfers from other institutions.
PDI90	AHRQ overall Pediatric Quality Indicator (PDI) composite per 100,000 population, ages 6-17	Consistent with the AHRQ PDI software, the overall composite is based on the four PDIs for asthma, diabetes, gastroenteritis, and urinary tract infection.
PDI91	AHRQ acute Pediatric Quality Indicator (PDI) composite per 100,000 population, ages 6-17	Consistent with the AHRQ PDI software, the acute composite is based on the two PDIs for gastroenteritis and urinary tract infection.
PDI92	AHRQ chronic Pediatric Quality Indicator (PQI) composite per 100,000 population, ages 6-17	Consistent with the AHRQ PDI software, the chronic composite is based on the two PDIs for asthma and diabetes.
Prevent	ion Quality Indicators	
PQI01	Admissions with diabetes with short- term complications per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, diabetes must be the principal diagnosis and short-term complications include ketoacidosis, hyperosmolarity, or coma. Transfers from other institutions are excluded.
PQI02	Admissions with perforations or abscesses of appendix per 1,000 admissions with appendicitis, age 18 and over	Consistent with the AHRQ PQI software, obstetric discharges and transfers from other institutions are excluded.
PQI03	Admissions with diabetes with long- term complications per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, diabetes must be the principal diagnosis and long-term complications include renal, eye, neurological, circulatory, or other unspecified complications. Transfers from other institutions are excluded.
PQI05	Admissions with chronic obstructive pulmonary disease (COPD) or asthma per 100,000 population, age 40 and over	Consistent with the AHRQ PQI software, the principal diagnosis must be COPD, asthma, or acute bronchitis with COPD as a secondary diagnosis. Transfers from other institutions are excluded.
PQI07	Admissions with hypertension per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, hypertension must be the principal diagnosis and exclusions include the following: admissions with kidney disease with dialysis access procedures, admissions with cardiac procedures, and transfers from other institutions.
PQI08	Admissions for heart failure (HF) per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, HF must be the principal diagnosis and exclusions include the following: admissions with cardiac procedures and transfers from other institutions.
PQI09	Low birth weight infants per 1,000 newborns	Consistent with the AHRQ PQI software, exclusions include transfers from other institutions.

QI	QI Label	Label Footnote		
PQI10	Admissions for dehydration per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, dehydration may be a principal diagnosis or a secondary diagnosis with a principal diagnosis of hyperosmolality and/or hypernatremia, gastroenteritis, or acute kidney injury. Exclusions include the following: admissions with a diagnosis code for chronic renal failure and transfers from other institutions.		
PQI11	Admissions for community-acquired pneumonia per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, community-acquired pneumonia must be the principal diagnosis and exclusions include the following: admissions for sickle cell disease or hemoglobin-S disease, admissions in an immunocompromised state, and transfers from other institutions.		
PQI12	Admissions for urinary tract infection (UTI) per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, UTI must be the principal diagnosis and exclusions include the following: admissions with kidney or urinary tract disorders, admissions in an immunocompromised state, and transfers from other institutions.		
PQI14	Admissions for uncontrolled diabetes without complications per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, diabetes without short- or long-term complications must be the principal diagnosis and exclusions include transfers from other institutions.		
PQI15	Admissions for asthma per 100,000 population, age 18 to 39	Consistent with the AHRQ PQI software, asthma must be the principal diagnosis on admissions ages 18 to 39 years old, and exclusions include the following: admissions with cystic fibrosis or anomalies of the respiratory system and transfers from other institutions.		
PQI16	Lower extremity amputations among admissions for diabetes per 100,000 population, age 18 and over	Consistent with the AHRQ PQI software, a procedure code for lower-extremity amputation and a diagnosis of diabetes must be present. Exclusions include admissions for toe amputation or traumatic amputations of the lower extremity, obstetric discharges, and transfers from other institutions.		
PQI17	Admissions for immunization- preventable pneumococcal pneumonia per 100,000 population, age 65 and over	Immunization-preventable pneumococcal pneumonia may be reported as either the principal diagnosis or a secondary diagnosis. Exclusions include transfers from other institutions.		
PQI18	Admissions for immunization- preventable influenza per 100,000 population, age 65 and over	Immunization-preventable influenza may be reported as either the principal diagnosis or a secondary diagnosis. Exclusions include transfers from other institutions.		
PQI90	AHRQ overall Prevention Quality Indicator (PQI) composite per 100,000 population, age 18 and over	Based on eleven AHRQ PQIs for asthma, community-acquired pneumonia, chronic obstructive pulmonary disease, dehydration, diabetes, heart failure, hypertension, and urinary tract infection.		
PQI91	AHRQ acute Prevention Quality Indicator (PQI) composite per 100,000 population, age 18 and over	Based on three AHRQ PQIs for community-acquired pneumonia, dehydration, and urinary tract infection.		
PQI92	AHRQ chronic Prevention Quality Indicator (PQI) composite per 100,000 population, age 18 and over	Based on eight AHRQ PQIs for asthma, chronic obstructive pulmonary disease, heart failure, diabetes, and hypertension.		
PQI93	AHRQ diabetes Prevention Quality Indicator (PQI) composite per 100,000 population, age 18 and over	Based on four AHRQ PQIs for short-term diabetes complications, long-term diabetes complications, uncontrolled diabetes, and lower-extremity amputation among patients with diabetes.		
	Safety Indicators			
PSI02	Deaths per 1,000 hospital admissions with expected low-mortality, age 18 and over or obstetric admissions	Consistent with the AHRQ PSI software, admissions with expected low-mortality are identified by Medicare Severity Diagnosis Related Group (MS-DRG) or Diagnosis Related Group (DRG), depending on the date of discharge. Exclusions include admissions with cancer, admissions in an immunocompromised state, admissions involving a traumatic injury, and transfers to an acute care facility.		

QI	QI Label	Label Footnote		
PSI03	Admissions with pressure ulcers per 1,000 medical and surgical discharges of length 3 or more days, age18 and over	The AHRQ PSI software requires that the pressure ulcers be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: admissions with a principal diagnosis of pressure ulcer stage III or IV or unstageable; admissions involving severe burns or exfoliative disorders; obstetric cases; and admissions with stays of less than 3 days.		
PSI04	Deaths per 1,000 elective-surgery admissions having developed serious treatable complications of care during hospitalization, ages 18-89 or obstetric admissions	Consistent with the AHRQ PSI software, complications of care include acute ulcer, cardiac arrest, deep vein thrombosis, gastrointestinal hemorrhage, pulmonary embolism, pneumonia, sepsis, and shock with the following exclusions: transfers to another hospital and patients in hospice care at admission.		
PSI05	Count of retained surgical items or unretrieved device fragments among medical and surgical admissions, age 18 and over or obstetric admissions	The AHRQ PSI software requires that the retained surgical item or unretrieved device fragment be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, there are no exclusions.		
PSI06	Admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, age 18 and over	The AHRQ PSI software requires that the iatrogenic pneumothorax be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: obstetric admissions and admissions with chest trauma, pleural effusion, thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair, and cardiac surgery.		
PSI07	Admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, age 18 and over or obstetric admissions	The AHRQ PSI software requires that the central venous catheter-related bloodstream infection be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: admissions with a diagnosis of cancer or in an immunocompromised state.		
PSI08	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, age 18 and over	The AHRQ PSI software requires that the hip fracture be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: obstetric cases; admissions for anoxic brain injury, cardiac arrest, coma, delirium and other psychoses, poisoning, seizure, stroke, syncope, trauma; and cases associated with bone malignancy, lymphoid malignancy, or metastatic cancer.		
PSI09	Perioperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical admissions, age 18 and over	The AHRQ PSI software requires that the hemorrhage or hematoma complicating procedure be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: obstetric cases, cases with a coagulation disorder, and admissions in which the control of the hemorrhage or hematoma is the only operating room procedure.		
PSI10	Postoperative acute kidney injury requiring dialysis per 1,000 elective-surgery admissions, age 18 and over	The AHRQ PSI software requires that the postoperative kidney failure be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission or reported before or on the same day as the first operating procedure. Consistent with the AHRQ PSI software, the following cases are excluded: obstetric cases; admissions with acute renal failure, cardiac arrest, cardiac shock, chronic kidney failure, and severe cardiac dysrhythmia; and principal diagnosis of urinary tract obstruction.		

QI	QI Label	Label Footnote
PSI11	Postoperative respiratory failure, prolonged mechanical ventilation, or reintubation per 1,000 elective-surgery admissions, age 18 and over	The AHRQ PSI software requires that the respiratory failure be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: admissions with acute respiratory failure, respiratory or circulatory disease, craniofacial anomalies, neuromuscular disorders, or degenerative neurological disorder; obstetric cases; admissions in which the tracheostomy is the only operating room procedure; and admissions with a procedure for esophageal resection, lung cancer/transplant, or the nose, mouth, and pharynx.
PSI12	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical admissions, age 18 and over	The AHRQ PSI software requires that the PE or DVT be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: obstetric conditions and admissions in which the interruption of vena cava is the only operating room procedure.
PSI13	Postoperative sepsis per 1,000 elective-surgery admissions, age 18 and over	The AHRQ PSI software requires that the sepsis be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, the following cases are excluded: admissions with a principal diagnosis of infection and obstetric cases.
PSI14	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, age 18 and over	Consistent with the AHRQ PSI software, the following cases are excluded: admissions in which the abdominal wall reclosure occurs on or before the day of the first abdominopelvic surgery; obstetric cases; admissions in an immunocompromised state; and admissions with stays of less than 2 days.
PSI15	Accidental puncture or laceration during a procedure per 1,000 medical and surgical admissions, age 18 and over	The AHRQ PSI software requires that the accidental puncture or laceration be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission, with the second abdominopelvic procedure occurring one or more days after the index event. Consistent with the AHRQ PSI software, obstetric cases are excluded.
PSI16	Count of transfusion reactions among medical and surgical admissions, age 18 and over or obstetric admissions	The AHRQ PSI software requires that the transfusion reaction be reported as a secondary diagnosis (rather than the principal diagnosis) not present on admission. Consistent with the AHRQ PSI software, there are no exclusions.
PSI17	Birth trauma - injury to neonate per 1,000 live births	Consistent with the AHRQ PSI software, the following cases are excluded: preterm infants weighing less than 2,000 grams and newborns with osteogenesis imperfecta.
PSI18	Obstetric trauma per 1,000 instrument-assisted vaginal deliveries	Consistent with the AHRQ PSI software, obstetric trauma must involve 3rd or 4th degree lacerations. Cases without instrument assistance are excluded.
PSI19	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	Consistent with the AHRQ PSI software, obstetric trauma must involve 3rd or 4th degree lacerations. Cases with instrument assistance are excluded.

#### Table 2. Sources of 2016 HCUP Inpatient Data for the QDR

Sponsored by the Agency for Healthcare Research and Quality (AHRQ), HCUP is a family of databases, software tools, and products developed through the collaboration of State data organizations, hospital associations, private data organizations, and the Federal government. HCUP would not be possible without the contributions of the following data collection Partners from across the United States.

The reporting of State-Specific information in the National Healthcare Quality and Disparities Report (QDR) is dependent on the permission from the HCUP Partner. Use of the State Inpatient Databases (SID) in the nationally weighted QDR analysis file is dependent on the availability of essential data elements. The States that met the inclusion criteria for developing the national-level weights in the final QDR analysis file are noted below.

HCUP Partner Organizations	Inclusion in the 2016 QDR Nationally Weighted Analysis File
Alaska Department of Health and Social Services and State Hospital and Nursing Home Association	No
Arizona Department of Health Services	Yes
Arkansas Department of Health	Yes
California Office of Statewide Health Planning & Development	Yes
Colorado Hospital Association	Yes
Connecticut Hospital Association	No
Delaware Division of Public Health	No
District of Columbia Hospital Association	No
Florida Agency for Health Care Administration	Yes
Georgia Hospital Association	Yes
Hawaii Health Information Corporation	Yes
Illinois Department of Public Health	Yes
Indiana Hospital Association	Yes
Iowa Hospital Association	No
Kansas Hospital Association	Yes
Kentucky Cabinet for Health and Family Services	Yes
Louisiana Department of Health	Yes
Maine Health Data Organization	Yes
Maryland Health Services Cost Review Commission	Yes
Massachusetts Center for Health Information and Analysis	Yes
Michigan Health & Hospital Association	Yes
Minnesota Hospital Association	Yes

HCUP Partner Organizations	Inclusion in the 2016 QDR Nationally Weighted Analysis File
Mississippi Department of Health	Yes
Missouri Hospital Industry Data Institute	Yes
Montana Hospital Association	Yes
Nebraska Hospital Association	No
Nevada Department of Health and Human Services	Yes
New Hampshire Department of Health & Human Services	No
New Jersey Department of Health	Yes
New Mexico Department of Health	Yes
New York State Department of Health	Yes
North Carolina Department of Health and Human Services	Yes
North Dakota (data provided by the Minnesota Hospital Association)	No
Ohio Hospital Association	Yes
Oklahoma State Department of Health	No
Oregon Association of Hospitals and Health Systems	Yes
Pennsylvania Health Care Cost Containment Council	Yes
Rhode Island Department of Health	Yes
South Carolina Revenue and Fiscal Affairs Office	Yes
South Dakota Association of Healthcare Organizations	No
Tennessee Hospital Association	Yes
Texas Department of State Health Services	Yes
Utah Department of Health	No
Vermont Association of Hospitals and Health Systems	No
Virginia Health Information	Yes
Washington State Department of Health	Yes
West Virginia Department of Health and Human Resources, West Virginia Health Care Authority	No
Wisconsin Department of Health Services	No
Wyoming Hospital Association	No

Table 3. Editing Essential Data Elements for State-Level and National Reporting of Qls in the QDR

	Edits for Reporting Race/Ethnicity	Edits for Reporting PSIs		
State	Used for State-level Reporting by Race/Ethnicity because Failed <10% Race Edits?	Failed <10% POA Edits	Have Procedure Days?	Used for Reporting by PSIs?
AK	Yes	N/A	Yes	No
AR	Yes	Yes	Yes	Yes
ΑZ	Yes	Yes	Yes	Yes
CA	Yes	Yes	Yes	Yes
CO	Yes	Yes	Yes	Yes
СТ	Yes	N/A	Yes	No
DC	N/A	Yes	Yes	Yes
FL	Yes	Yes	Yes	Yes
GA	Yes	Yes	Yes	Yes
HI	Yes	Yes	Yes	Yes
IA	Yes	No	Yes	No
IL	Yes	Yes	Yes	Yes
IN	Yes	Yes	Yes	Yes
KS	Yes	Yes	Yes	Yes
KY	Yes	Yes	Yes	Yes
LA	No	Yes	Yes	Yes
MA	Yes	Yes	Yes	Yes
MD	Yes	Yes	Yes	Yes
ME	Yes	Yes	Yes	Yes
MI	Yes	Yes	Yes	Yes
MN	No	Yes	Yes	Yes
МО	Yes	Yes	Yes	Yes
MS	Yes	Yes	Yes	Yes
MT	No	Yes	Yes	Yes
NC	Yes	Yes	Yes	Yes
ND	N/A	Yes	Yes	Yes
NE	N/A	Yes	Yes	Yes
NJ	Yes	Yes	Yes	Yes
NM	Yes	Yes	Yes	Yes
NV	Yes	Yes	Yes	Yes
NY	No	Yes	Yes	Yes
ОН	Yes	Yes	Yes	Yes
ОК	Yes	No	No	No
OR	Yes	Yes	Yes	Yes
PA	Yes	Yes	Yes	Yes
RI	Yes	Yes	Yes	Yes
SC	Yes	Yes	Yes	Yes
SD	Yes	No	Yes	No
TN	Yes	Yes	Yes	Yes

	Edits for Reporting Race/Ethnicity	Edits for Reporting PSIs		
State	Used for State-level Reporting by Race/Ethnicity because Failed <10% Race Edits?	Failed <10% POA Edits	Have Procedure Days?	Used for Reporting by PSIs?
TX	Yes	Yes	Yes	Yes
UT	N/A	Yes	Yes	Yes
VA	Yes	Yes	Yes	Yes
VT	Yes	No	Yes	No
WA	Yes	Yes	Yes	Yes
WI	Yes	No	No	No
WV	No	No	No	No
WY	No	N/A	Yes	No

<sup>\*</sup> N/A indicates that edit checks were not applicable because the SID did not include the HCUP data element RACE or provide POA.

#### REFERENCES

Agency for Healthcare Research and Quality. *Inpatient Quality Indicators: Technical Specifications, AHRQ Quality Indicators, Version 7.0.1 SAS.* Rockville, MD: Agency for Healthcare Research and Quality, September 2017.

Agency for Healthcare Research and Quality. *Patient Safety Indicators: Technical Specifications, AHRQ Quality Indicators, Version 7.0.1 SAS.* Rockville, MD: Agency for Healthcare Research and Quality, September 2017.

Agency for Healthcare Research and Quality. *Pediatric Quality Indicators: Technical Specifications, AHRQ Quality Indicators, Version 7.0.1 SAS.* Rockville, MD: Agency for Healthcare Research and Quality, September 2017.

Agency for Healthcare Research and Quality. *Prevention Quality Indicators: Technical Specifications, AHRQ Quality Indicators, Version 7.0.1 SAS.* Rockville, MD: Agency for Healthcare Research and Quality, September 2017.

Claritas. Claritas Demographic Data. Available: <a href="https://www.claritas.com/products-solutions">https://www.claritas.com/products-solutions</a>

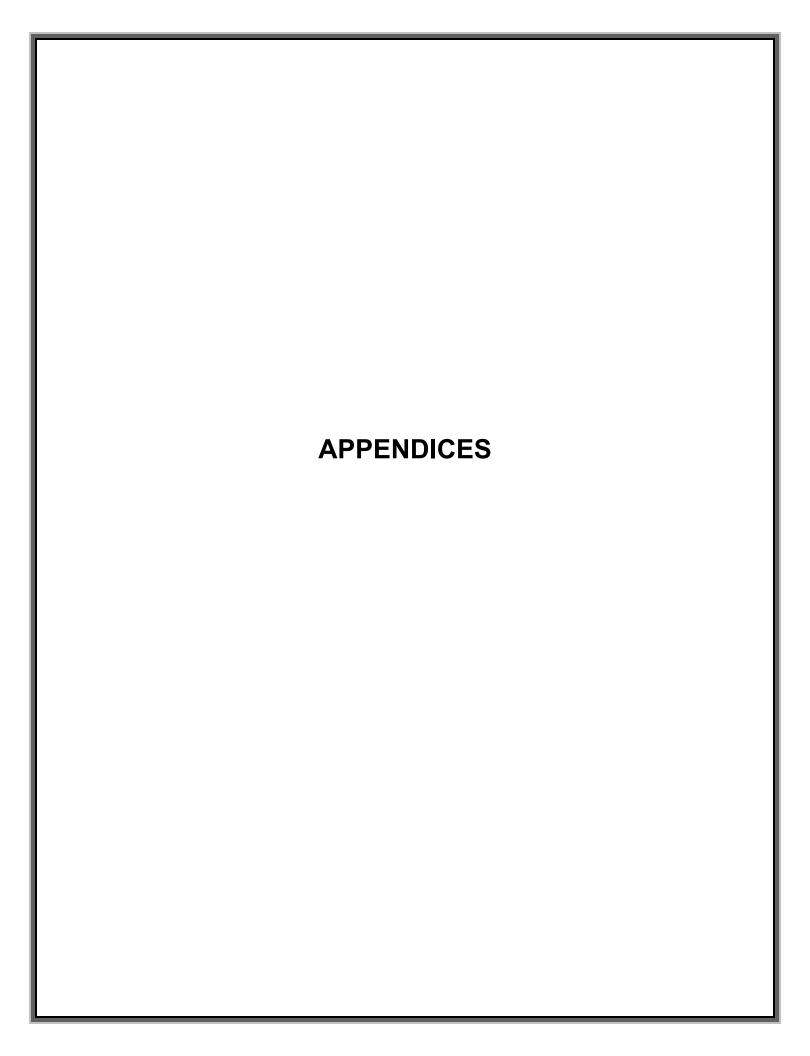
HCUP Cost-to-Charge Ratio Files. Healthcare Cost and Utilization Project (HCUP). June 2018. Agency for Healthcare Research and Quality, Rockville, MD. Available: <a href="https://www.hcup-us.ahrq.gov/db/state/costtocharge.jsp">www.hcup-us.ahrq.gov/db/state/costtocharge.jsp</a>.

HCUP State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). 2016. Agency for Healthcare Research and Quality, Rockville, MD. <a href="https://www.hcup-us.ahrq.gov/sidoverview.jsp">www.hcup-us.ahrq.gov/sidoverview.jsp</a>.

HCUP Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). 2016. Agency for Healthcare Research and Quality, Rockville, MD. <a href="https://www.hcup-us.ahrq.gov/nedsoverview.jsp">www.hcup-us.ahrq.gov/nedsoverview.jsp</a>.

Houchens R. *Inferences with HCUP State Databases Final Report*. HCUP Methods Series Report # 2010-05. ONLINE. October 12, 2010. U.S. Agency for Healthcare Research and Quality. Available: <a href="http://www.hcup-us.ahrq.gov/reports/methods.jsp">http://www.hcup-us.ahrq.gov/reports/methods.jsp</a>.

IOM (Institute of Medicine). Future Directions for the National Healthcare Quality and Disparities Reports. Washington, DC: The National Academies Press, 2010.



## APPENDIX A: NATIONALLY WEIGHTED ANALYSIS FILES FOR THE NATIONAL HEALTHCARE QUALITY AND DISPARITIES REPORT

The nationally weighted QDR analysis file was based on a subset of the 47 SID in 2016. Because the PSI software requires the use of both POA and information on the day of the procedure, two criteria were used to select SID that could be used for PSI reporting: (1) less than 10 percent of records failed POA edits and (2) the SID included information on day of principal and secondary procedure days. Of the 38 eligible SID, four SID did not have race/ethnicity data. All records from the remaining 34 SID were used to create the nationally weighted QDR analysis file, after records and hospitals that failed the POA and race/ethnicity edits were excluded (Figure A-1). This differs from prior years in which the nationally weighted QDR analysis file was a 40 percent sample of hospitals.

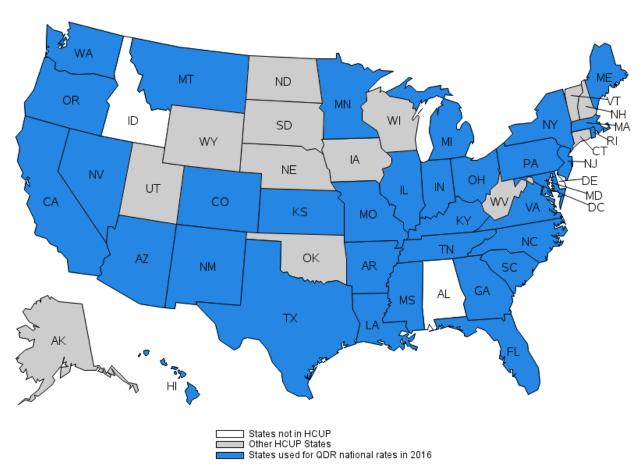


Figure A-1. States Used for 2016 National QI Estimates

#### **Evaluating the 2016 Nationally Weighted QDR Analysis File**

Table A-1 demonstrates the representation of the 34 States by U.S. Census region. The 34 States represent 58 to 78 percent of the States in each region.

Table A-1. Geographic Representation of the QDR Analysis File, 2016

Census Region	Number of States in the nationally weighted analysis file	Number of States in the region	Percent of States included in the nationally weighted analysis file
Northeast	7	9	78%
Midwest	7	12	58%
South	11	16+ District of Columbia	64%
West	9	13	69%
Total	34	50 + District of Columbia	67%

Table A-2 compares aggregated totals of various measures for the 34 States as a percent of the national measure. In 2016, the 34 SID, after exclusions for race and POA, accounted for more than 80 percent of U.S. hospital discharges (based on the AHA Annual Survey Database). They accounted for over 85 percent of Whites, African Americans, Asian/Pacific Islanders, and Hispanics in the nation (based on 2016 Claritas demographic data).

Table A-2. Population Representation of the QDR Analysis File, 2015

Measure	Percent of national population represented by the 34 HCUP States
Hospital discharges	82%
Total resident population	89%
Population by race/ethnicity:	
White	86%*
African American	92%*
Asian/Pacific Islander	95%*
Hispanic	95%*
Population by age:	
Population under age 18	89%*
Population age 18-64	89%*
Population over age 64	89%*
Population by income:	
Population with income under the Federal poverty level	89%**

<sup>\*</sup>Calculated using 2016 Claritas data and 1977 OMB Directive 15 race definitions (e.g. no option for selecting "two or more races").

To further evaluate the reliability of national estimates produced by the nationally weighted QDR analysis file it is compare to the 2016 National Inpatient Sample (NIS). Tables A.3–A.10 contain the distribution of discharges in both files by key demographic and clinical data elements.

<sup>\*\*</sup>Calculated using Kaiser Family Foundation, statehealthfacts.org. Data Source: Urban Institute and Kaiser Commission on Medicaid and the Uninsured estimates based on the Census Bureau's March 2017 Current Population Survey (CPS: Annual Social and Economic Supplements), accessed October 5, 2018.

Based on these analyses, the 2016 nationally weighted analysis file appears to provide reliable national estimates when compared with the 2016 NIS.

Table A-3. Comparison of Census Region, QDR Analysis File and HCUP National Inpatient Sample, 2016

	201 QDR Anal	_	2016 NIS	
CENSUS REGION	Frequency	Percent	Frequency	Percent
1: Northeast	6,863,051	18.6	6,599,354	18.5
2: Midwest	8,189,558	22.2	7,934,002	22.2
3: South	14571812	39.5	14019051	39.3
4: West	7,261,993	19.7	7,123,014	20.0

Table A-4. Comparison of Patient Age in Years at Admission, QDR Analysis File and HCUP National Inpatient Sample, 2016

	20 QDR Ana		2016 NIS		
AGE	Frequency	Percent	Frequency	Percent	
.: Missing	-	-	580	0.0	
.A: Invalid	-	-	55	0.0	
.C: Inconsistent	-	-	6,475	0.0	
0-17	5,534,930	15.0	5,479,699	15.4	
18-44	8,959,592	24.3	8,707,323	24.4	
45-64	9,136,171	24.8	8,784,564	24.6	
65+	13,255,721	35.9	12,696,725	35.6	

Note: AGE was imputed when missing in the SID for the QDR analysis file.

Table A-5. Comparison of Patient Sex, QDR Analysis File and HCUP National Inpatient Sample, 2016

	_	16 Ilysis File	2016 NIS		
SEX	Frequency	Percent	Frequency	Percent	
.: Missing	-	-	2,755	0.0	
.A: Invalid	-	-	504	0.0	
.C: Inconsistent	-	-	17,689	0.1	
0: Male	15,973,731	43.3	15,430,338	43.3	
1: Female	20,912,682	56.7	20,224,132	56.7	

Note: SEX was imputed when missing in the SID for the QDR analysis file.

Table A-6. Comparison of Expected Primary Payer, QDR Analysis File and HCUP National Inpatient Sample, 2016

	2016 QDR Analys		2016 NIS		
PAY1	Frequency	Percent	Frequency	Percent	
.: Missing	-	-	43,667	0.1	
.A: Invalid	-	-	3,690	0.0	
1: Medicare	14,763,214	40.0	14,117,653	39.6	
2: Medicaid	8,459,192	22.9	8,241,464	23.1	
3: Private Insurance	10,977,009	29.8	10,720,693	30.1	
4: Self-pay	1,470,234	4.0	1,378,048	3.9	
5: No Charge	120,349	0.3	111,960	0.3	
6: Other	1,096,416	3.0	1,058,244	3.0	

Note: PAY1 was imputed when missing in the SID for the QDR analysis file.

Table A-7. Comparison of Community Income Quartile Based on the Patient's ZIP Code, QDR Analysis File and HCUP National Inpatient Sample, 2016

		16 Ilysis File	2016 NIS		
ZIPINC_QRTL	Frequency	Percent	Frequency	Percent	
.: Missing	-	-	604,684	1.7	
.A: Invalid	-	-	2,570	0.0	
1: First Quartile (lowest income)	11,566,563	31.4	10,764,484	30.2	
2: Second Quartile	9,302,368	25.2	8,915,953	25.0	
3: Third Quartile	8,683,312	23.5	8,387,992	23.5	
4: Fourth Quartile (highest income)	7,334,171	19.9	6,999,737	19.6	

Note: ZIPINC\_QRTL was imputed when missing in the SID for the QDR analysis file.

Table A-8. Comparison of Patient Race/Ethnicity, QDR Analysis File and HCUP National Inpatient Sample, 2016

	20 QDR Ana	16 Ilysis File	2016 NIS		
RACE_I	Frequency	Percent	Frequency	Percent	
.: Missing	827,332	2.2	1,834,462	5.1	
.A: Invalid	-	-	1,095	0.0	
1: White	23,576,343	63.9	22,129,139	62.0	
2: Black	5,660,122	15.3	5,146,531	14.4	
3: Hispanic	4,508,856	12.2	4,151,121	11.6	
4: Asian/Pacific Islander	1,112,592	3.0	1,037,070	2.9	
5: Native American	166,581	0.5	219,705	0.6	
6: Other	1,034,588	2.8	1,156,299	3.2	

Note: RACE was imputed when missing in the SID for the QDR analysis file.

Table A-9. Comparison of Location of Patient Residence, QDR Analysis File and HCUP National Inpatient Sample, 2016

	20 QDR Ana		2016 NIS		
PL_NCHS	Frequency	Percent	Frequency	Percent	
.: Missing	-	-	165,925	0.5	
1: Large central metropolitan	11,189,357	30.3	10,677,792	29.9	
2: Large fringe metropolitan	9,611,266	26.1	8,511,807	23.9	
3: Medium metropolitan	7,200,827	19.5	7,367,379	20.7	
4: Small metropolitan	3,130,858	8.59	3,261,3070	9.1	
5: Micropolitan (nonmetropolitan)	3,312,804	9.0	3,249,516	9.1	
6: Noncore (nonmetropolitan)	2,441,302	6.6	2,441,695	6.8	

Note: PL\_NCHS was imputed when missing in the SID for the QDR analysis file.

Table A-10. Comparison of Length of Stay, Number of Diagnoses and Procedures on the Record, Total Charges, and Total Cost, QDR Analysis File and HCUP National Inpatient Sample, 2016

	2016 QDR Analysis File			2016 NIS		
Variable/Label	MIN	MAX	MEAN	MIN	MAX	MEAN
LOS: Length of stay (cleaned)	0	365	4.6	0	365	4.6
NDX: Number of diagnoses on this record	0	72	10.6	0	72	10.6
NPR: Number of procedures on this record	0	76	1.6	0	66	1.6
TOTCHG: Total charges (cleaned)	\$100	\$9,999,999	\$47,164	\$100	\$9,999,999	\$47,019
Total cost (using Intramural CCRs)	\$13	\$7,771,547	\$11,664	\$13	\$3,458,725	\$11,734

## APPENDIX B: EMERGENCY DEPARTMENT RATES FOR SELECTED AHRQ QUALITY INDICATORS

The HCUP Nationwide Emergency Department Sample (NEDS) was used to examine national and regional differences in emergency department (ED) rates for selected AHRQ Prevention Quality Indicators (PQIs) and related Pediatric Quality Indicators (PDIs). The PQIs are measures of quality associated with processes and outcomes of care that occurred in an outpatient or an inpatient setting. The PQIs rely solely on hospital administrative data and, for this reason, are screens for examining quality that may indicate the need for more in-depth studies. Experts have suggested that using both inpatient and emergency room data may give a more accurate picture of avoidable visits/admissions for some ambulatory care sensitive conditions which can be identified by certain PQIs and PDIs.

The NEDS contains approximately 30 million ED events from about 950 hospital-based EDs. The NEDS includes information on ED visits that do not result in an admission (i.e., treat-and-release visits and transfers to another hospital) as well as discharge information on patients initially seen in the ED and then admitted to the same hospital. The NEDS was drawn from the SID and the State Emergency Department Databases (SEDD). Discharge-level weights included with the NEDS are used to produce national estimates. Several steps were taken to prepare the NEDS: (1) QI software review and modification, (2) acquisition of population-based data, (3) handling of missing data, and (4) identification of statistical methods.

- 1. QI Software Review. The Version 7.0.1 PQIs and PDIs were developed for use with hospital inpatient discharge data. No guidelines for applying the AHRQ QIs to emergency department data were available when this analysis began. About 15 percent of records in the NEDS represent an ED admission. The selected QIs rely on the first-listed diagnosis code (DX1) to identify cases with the outcome of interest. For ED admissions, DX1 is the principal diagnosis code and reflects the condition established to be chiefly responsible for a patients' admission to the hospital. Unfortunately, principal diagnosis is not clearly discernible for ED visits that do not result in admission. Coding instructions for outpatient data specify that the first-listed diagnosis is supposed to be the "reason for visit," which is different than the principal diagnosis. Even though DX1 in ED data is not necessarily the principal diagnosis, using DX1 preserves the concept from the PQI algorithm that the first code has higher priority than others. Therefore, this analysis used the first-listed diagnosis in the NEDS.
- Acquisition of Population-Based Data. Similar to the development of the PQI and PDI
  rates based on the HCUP inpatient data, Claritas population data was used for the
  population denominators of the selected PQIs and PDIs.
- 3. Preparation of HCUP Data. Next, a "hot deck" imputation method (which draws donors from strata of similar hospitals and patients) was used to assign missing values of patient age and sex. Patient age and sex are missing on less than 0.02 percent of the records in the 2016 NEDS.
- 4. Masking Rates for Statistical Reliability, Data Quality, and Confidentiality. PQI and PDI estimates were included in this analysis if they reached a threshold defined by a relative standard error less than 30 percent and at least 100 weighted cases in the denominator. Estimates that did not meet this threshold were suppressed and the corresponding table cell was marked with an asterisk.

Additionally, the NEDS was used to examine national and regional differences in emergency department (ED) visit rates for three additional condition categories: mental illness, substance use, and co-occurring mental illness and substance use; dental conditions; and injuries. The complete list of ICD-10-CM diagnosis codes for these analyses are listed below.

#### Mental Illness and Substance Use ICD-10-CM Diagnosis Codes

Table B-1. Mental Illness ICD-10-CM Diagnosis Codes

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F064'	Anxiety disorder due to known physiological condition
'F4000'	Agoraphobia, unspecified
'F4001'	Agoraphobia with panic disorder
'F4002'	Agoraphobia without panic disorder
'F4010'	Social phobia, unspecified
'F4011'	Social phobia, generalized
'F40210'	Arachnophobia
'F40218'	Other animal type phobia
'F40220'	Fear of thunderstorms
'F40228'	Other natural environment type phobia
'F40230'	Fear of blood
'F40231'	Fear of injections and transfusions
'F40232'	Fear of other medical care
'F40233'	Fear of injury
'F40240'	Claustrophobia
'F40241'	Acrophobia
'F40242'	Fear of bridges
'F40243'	Fear of flying
'F40248'	Other situational type phobia
'F40290'	Androphobia
'F40291'	Gynephobia
'F40298'	Other specified phobia
'F408'	Other phobic anxiety disorders
'F409'	Phobic anxiety disorder, unspecified
'F410'	Panic disorder [episodic paroxysmal anxiety]
'F411'	Generalized anxiety disorder
'F413'	Other mixed anxiety disorders
'F418'	Other specified anxiety disorders
'F419'	Anxiety disorder, unspecified
'F422'	Mixed obsessional thoughts and acts
'F423'	Hoarding disorder
'F424'	Excoriation (skin-picking) disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F428'	Other obsessive-compulsive disorder
'F429'	Obsessive-compulsive disorder, unspecified
'F4311'	Post-traumatic stress disorder, acute
'F4312'	Post-traumatic stress disorder, chronic
'F930'	Separation anxiety disorder of childhood
'F940'	Selective mutism
'R466'	Undue concern and preoccupation with stressful events
'F0633'	Mood disorder due to known physiol cond w manic features
'F0634'	Mood disorder due to known physiol cond w mixed features
'F3010'	Manic episode without psychotic symptoms, unspecified
'F3011'	Manic episode without psychotic symptoms, mild
'F3012'	Manic episode without psychotic symptoms, moderate
'F3013'	Manic episode, severe, without psychotic symptoms
'F302'	Manic episode, severe with psychotic symptoms
'F303'	Manic episode in partial remission
'F308'	Other manic episodes
'F309'	Manic episode, unspecified
'F310'	Bipolar disorder, current episode hypomanic
'F3110'	Bipolar disord, crnt episode manic w/o psych features, unsp
'F3111'	Bipolar disord, crnt episode manic w/o psych features, mild
'F3112'	Bipolar disord, crnt episode manic w/o psych features, mod
'F3113'	Bipolar disord, crnt epsd manic w/o psych features, severe
'F312'	Bipolar disord, crnt episode manic severe w psych features
'F3130'	Bipolar disord, crnt epsd depress, mild or mod severt, unsp
'F3131'	Bipolar disorder, current episode depressed, mild
'F3132'	Bipolar disorder, current episode depressed, moderate
'F314'	Bipolar disord, crnt epsd depress, sev, w/o psych features
'F315'	Bipolar disord, crnt epsd depress, severe, w psych features
'F3160'	Bipolar disorder, current episode mixed, unspecified
'F3161'	Bipolar disorder, current episode mixed, mild
'F3162'	Bipolar disorder, current episode mixed, moderate
'F3163'	Bipolar disord, crnt epsd mixed, severe, w/o psych features
'F3164'	Bipolar disord, crnt episode mixed, severe, w psych features
'F3171'	Bipolar disord, in partial remis, most recent epsd hypomanic
'F3173'	Bipolar disord, in partial remis, most recent episode manic
'F3175'	Bipolar disord, in partial remis, most recent epsd depress
'F3177'	Bipolar disord, in partial remis, most recent episode mixed
'F3181'	Bipolar II disorder
'F3189'	Other bipolar disorder
'F319'	Bipolar disorder, unspecified

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F340'	Cyclothymic disorder
'F0630'	Mood disorder due to known physiological condition, unsp
'F0631'	Mood disorder due to known physiol cond w depressv features
'F0632'	Mood disord d/t physiol cond w major depressive-like epsd
'F320'	Major depressive disorder, single episode, mild
'F321'	Major depressive disorder, single episode, moderate
'F322'	Major depressv disord, single epsd, sev w/o psych features
'F323'	Major depressv disord, single epsd, severe w psych features
'F324'	Major depressv disorder, single episode, in partial remis
'F328'	Other depressive episodes
'F3281'	Premenstrual dysphoric disorder
'F3289'	Other specified depressive episodes
'F329'	Major depressive disorder, single episode, unspecified
'F330'	Major depressive disorder, recurrent, mild
'F331'	Major depressive disorder, recurrent, moderate
'F332'	Major depressv disorder, recurrent severe w/o psych features
'F333'	Major depressv disorder, recurrent, severe w psych symptoms
'F3341'	Major depressive disorder, recurrent, in partial remission
'F338'	Other recurrent depressive disorders
'F339'	Major depressive disorder, recurrent, unspecified
'F341'	Dysthymic disorder
'F348'	Other persistent mood [affective] disorders
'F3481'	Disruptive mood dysregulation disorder
'F3489'	Other specified persistent mood disorders
'F349'	Persistent mood [affective] disorder, unspecified
'F39'	Unspecified mood [affective] disorder
'O906'	Postpartum mood disturbance
'F631'	Pyromania
'F632'	Kleptomania
'F6381'	Intermittent explosive disorder
'F6389'	Other impulse disorders
'F639'	Impulse disorder, unspecified
'F910'	Conduct disorder confined to family context
'F911'	Conduct disorder, childhood-onset type
'F912'	Conduct disorder, adolescent-onset type
'F913'	Oppositional defiant disorder
'F918'	Other conduct disorders
'F919'	Conduct disorder, unspecified
'F440'	Dissociative amnesia
'F441'	Dissociative fugue
· · · · · · · · · · · · · · · · · · ·	

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F442'	Dissociative stupor
'F4481'	Dissociative identity disorder
'F4489'	Other dissociative and conversion disorders
'F449'	Dissociative and conversion disorder, unspecified
'F481'	Depersonalization-derealization syndrome
'F5000'	Anorexia nervosa, unspecified
'F5001'	Anorexia nervosa, restricting type
'F5002'	Anorexia nervosa, binge eating/purging type
'F502'	Bulimia nervosa
'F508'	Other eating disorders
'F5081'	Binge eating disorder
'F5082'	Avoidant/restrictive food intake disorder
'F5089'	Other specified eating disorder
'F509'	Eating disorder, unspecified
'F9821'	Rumination disorder of infancy
'F9829'	Other feeding disorders of infancy and early childhood
'F983'	Pica of infancy and childhood
'F980'	Enuresis not due to a substance or known physiol condition
'F981'	Encopresis not due to a substance or known physiol condition
'F641'	Dual role transvestism
'F642'	Gender identity disorder of childhood
'F648'	Other sex identity disorders
'F649'	Gender identity disorder, unspecified
'F938'	Other childhood emotional disorders
'R45850'	Homicidal ideations
'F0150'	Vascular dementia without behavioral disturbance
'F0151'	Vascular dementia with behavioral disturbance
'F0280'	Dementia in oth diseases classd elswhr w/o behavrl disturb
'F0281'	Dementia in oth diseases classd elswhr w behavioral disturb
'F0390'	Unspecified dementia without behavioral disturbance
'F0391'	Unspecified dementia with behavioral disturbance
'F04'	Amnestic disorder due to known physiological condition
'F05'	Delirium due to known physiological condition
'F0781'	Postconcussional syndrome
'F0789'	Oth personality & behavrl disord due to known physiol cond
'F079'	Unsp personality & behavrl disord due to known physiol cond
'F482'	Pseudobulbar affect
'G300'	Alzheimer's disease with early onset
'G301'	Alzheimer's disease with late onset
'G308'	Other Alzheimer's disease

ICD-10-CM DIAGNOSIS	DESCRIPTION
'G309'	Alzheimer's disease, unspecified
'G3101'	Pick's disease
'G3109'	Other frontotemporal dementia
'G311'	Senile degeneration of brain, not elsewhere classified
'G3183'	Dementia with Lewy bodies
'R4181'	Age-related cognitive decline
'R54'	Age-related physical debility
'F70'	Mild intellectual disabilities
'F71'	Moderate intellectual disabilities
'F72'	Severe intellectual disabilities
'F73'	Profound intellectual disabilities
'F78'	Other intellectual disabilities
'F79'	Unspecified intellectual disabilities
'F800'	Phonological disorder
'F801'	Expressive language disorder
'F802'	Mixed receptive-expressive language disorder
'F804'	Speech and language development delay due to hearing loss
'F8081'	Childhood onset fluency disorder
'F8082'	Social pragmatic communication disorder
'F8089'	Other developmental disorders of speech and language
'F809'	Developmental disorder of speech and language, unspecified
'F810'	Specific reading disorder
'F812'	Mathematics disorder
'F8181'	Disorder of written expression
'F8189'	Other developmental disorders of scholastic skills
'F819'	Developmental disorder of scholastic skills, unspecified
'F82'	Specific developmental disorder of motor function
'F840'	Autistic disorder
'F842'	Rett's syndrome
'F843'	Other childhood disintegrative disorder
'F845'	Asperger's syndrome
'F848'	Other pervasive developmental disorders
'F849'	Pervasive developmental disorder, unspecified
'F88'	Other disorders of psychological development
'F89'	Unspecified disorder of psychological development
'F900'	Attn-defct hyperactivity disorder, predom inattentive type
'F901'	Attn-defct hyperactivity disorder, predom hyperactive type
'F902'	Attention-deficit hyperactivity disorder, combined type
'F908'	Attention-deficit hyperactivity disorder, other type
'F909'	Attention-deficit hyperactivity disorder, unspecified type
· · · · · · · · · · · · · · · · · · ·	

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F948'	Other childhood disorders of social functioning
'F949'	Childhood disorder of social functioning, unspecified
'F950'	Transient tic disorder
'F951'	Chronic motor or vocal tic disorder
'F952'	Tourette's disorder
'F958'	Other tic disorders
'F959'	Tic disorder, unspecified
'F984'	Stereotyped movement disorders
'F985'	Adult onset fluency disorder
'R480'	Dyslexia and alexia
'F42'	Obsessive-compulsive disorder
'F4521'	Hypochondriasis
'F4522'	Body dysmorphic disorder
'F633'	Trichotillomania
'R4681'	Obsessive-compulsive behavior
'F068'	Oth mental disorders due to known physiological condition
'F09'	Unsp mental disorder due to known physiological condition
'F488'	Other specified nonpsychotic mental disorders
'F489'	Nonpsychotic mental disorder, unspecified
'F939'	Childhood emotional disorder, unspecified
'F99'	Mental disorder, not otherwise specified
'F650'	Fetishism
'F651'	Transvestic fetishism
'F652'	Exhibitionism
'F653'	Voyeurism
'F654'	Pedophilia
'F6551'	Sexual masochism
'F6552'	Sexual sadism
'F6581'	Frotteurism
'F6589'	Other paraphilias
'F659'	Paraphilia, unspecified
'F070'	Personality change due to known physiological condition
'F21'	Schizotypal disorder
'F600'	Paranoid personality disorder
'F601'	Schizoid personality disorder
'F602'	Antisocial personality disorder
'F603'	Borderline personality disorder
'F604'	Histrionic personality disorder
'F605'	Obsessive-compulsive personality disorder
'F606'	Avoidant personality disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F607'	Dependent personality disorder
'F6081'	Narcissistic personality disorder
'F6089'	Other specific personality disorders
'F609'	Personality disorder, unspecified
'F6811'	Factitious disorder w predom psych signs and symptoms
'F6812'	Factitious disorder w predom physical signs and symptoms
'F6813'	Factitious disord w comb psych and physcl signs and symptoms
'F688'	Other specified disorders of adult personality and behavior
'F69'	Unspecified disorder of adult personality and behavior
'F060'	Psychotic disorder w hallucin due to known physiol condition
'F061'	Catatonic disorder due to known physiological condition
'F062'	Psychotic disorder w delusions due to known physiol cond
'F200'	Paranoid schizophrenia
'F201'	Disorganized schizophrenia
'F202'	Catatonic schizophrenia
'F203'	Undifferentiated schizophrenia
'F205'	Residual schizophrenia
'F2081'	Schizophreniform disorder
'F2089'	Other schizophrenia
'F209'	Schizophrenia, unspecified
'F22'	Delusional disorders
'F23'	Brief psychotic disorder
'F24'	Shared psychotic disorder
'F250'	Schizoaffective disorder, bipolar type
'F251'	Schizoaffective disorder, depressive type
'F258'	Other schizoaffective disorders
'F259'	Schizoaffective disorder, unspecified
'F28'	Oth psych disorder not due to a sub or known physiol cond
'F29'	Unsp psychosis not due to a substance or known physiol cond
'F520'	Hypoactive sexual desire disorder
'F521'	Sexual aversion disorder
'F5221'	Male erectile disorder
'F5222'	Female sexual arousal disorder
'F5231'	Female orgasmic disorder
'F5232'	Male orgasmic disorder
'F524'	Premature ejaculation
'F525'	Vaginismus not due to a substance or known physiol condition
'F526'	Dyspareunia not due to a substance or known physiol cond
'F528'	Oth sexual dysfnct not due to a sub or known physiol cond
'F529'	Unsp sexual dysfnct not due to a sub or known physiol cond

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F53'	Puerperal psychosis
'F640'	Transsexualism
'F6550'	Sadomasochism, unspecified
'F66'	Other sexual disorders
'R37'	Sexual dysfunction, unspecified
'F5101'	Primary insomnia
'F5102'	Adjustment insomnia
'F5103'	Paradoxical insomnia
'F5104'	Psychophysiologic insomnia
'F5105'	Insomnia due to other mental disorder
'F5109'	Oth insomnia not due to a substance or known physiol cond
'F5111'	Primary hypersomnia
'F5112'	Insufficient sleep syndrome
'F5113'	Hypersomnia due to other mental disorder
'F5119'	Oth hypersomnia not due to a substance or known physiol cond
'F513'	Sleepwalking [somnambulism]
'F514'	Sleep terrors [night terrors]
'F515'	Nightmare disorder
'F518'	Oth sleep disord not due to a sub or known physiol cond
'F519'	Sleep disorder not due to a sub or known physiol cond, unsp
'F444'	Conversion disorder with motor symptom or deficit
'F445'	Conversion disorder with seizures or convulsions
'F446'	Conversion disorder with sensory symptom or deficit
'F447'	Conversion disorder with mixed symptom presentation
'F450'	Somatization disorder
'F451'	Undifferentiated somatoform disorder
'F4520'	Hypochondriacal disorder, unspecified
'F4529'	Other hypochondriacal disorders
'F4541'	Pain disorder exclusively related to psychological factors
'F4542'	Pain disorder with related psychological factors
'F458'	Other somatoform disorders
'F459'	Somatoform disorder, unspecified
'F54'	Psych & behavrl factors assoc w disord or dis classd elswhr
'F6810'	Factitious disorder, unspecified
'R45851'	Suicidal ideations
'T1491'	Suicide attempt (through FY 2017)
'T1491XA'	Suicide attempt, initial encounter
'T360X2A'	Poisoning by penicillins, intentional self-harm, init encntr
'T361X2A'	Poisn by cephalospor/oth beta-lactm antibiot, slf-hrm, init
'T362X2A'	Poisoning by chloramphenicol group, self-harm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T363X2A'	Poisoning by macrolides, intentional self-harm, init encntr
'T364X2A'	Poisoning by tetracyclines, intentional self-harm, init
'T365X2A'	Poisoning by aminoglycosides, intentional self-harm, init
'T366X2A'	Poisoning by rifampicins, intentional self-harm, init encntr
'T367X2A'	Poisoning by antifungal antibiot, sys used, self-harm, init
'T368X2A'	Poisoning by oth systemic antibiotics, self-harm, init
'T3692XA'	Poisoning by unsp systemic antibiotic, self-harm, init
'T370X2A'	Poisoning by sulfonamides, intentional self-harm, init
'T371X2A'	Poisoning by antimycobacterial drugs, self-harm, init
'T372X2A'	Poisn by antimalari/drugs act on bld protzoa, slf-hrm, init
'T373X2A'	Poisoning by oth antiprotozoal drugs, self-harm, init
'T374X2A'	Poisoning by anthelminthics, intentional self-harm, init
'T375X2A'	Poisoning by antiviral drugs, intentional self-harm, init
'T378X2A'	Poisn by oth systemic anti-infect/parasit, self-harm, init
'T3792XA'	Poisn by unsp sys anti-infect and antiparastc, slf-hrm, init
'T380X2A'	Poisoning by glucocort/synth analog, self-harm, init
'T381X2A'	Poisoning by thyroid hormones and sub, self-harm, init
'T382X2A'	Poisoning by antithyroid drugs, intentional self-harm, init
'T383X2A'	Poisn by insulin and oral hypoglycemic drugs, slf-hrm, init
'T384X2A'	Poisoning by oral contraceptives, self-harm, init
'T385X2A'	Poisoning by oth estrogens and progestogens, self-harm, init
'T386X2A'	Poisn by antigonadtr/antiestr/antiandrg, NEC, slf-hrm, init
'T387X2A'	Poisn by androgens and anabolic congeners, self-harm, init
'T38802A'	Poisn by unsp hormones and synthetic sub, self-harm, init
'T38812A'	Poisoning by anterior pituitary hormones, self-harm, init
'T38892A'	Poisoning by oth hormones and synthetic sub, self-harm, init
'T38902A'	Poisoning by unsp hormone antagonists, self-harm, init
'T38992A'	Poisoning by oth hormone antagonists, self-harm, init
'T39012A'	Poisoning by aspirin, intentional self-harm, init encntr
'T39092A'	Poisoning by salicylates, intentional self-harm, init encntr
'T391X2A'	Poisoning by 4-Aminophenol derivatives, self-harm, init
'T392X2A'	Poisoning by pyrazolone derivatives, self-harm, init
'T39312A'	Poisoning by propionic acid derivatives, self-harm, init
'T39392A'	Poisn by oth nonsteroid anti-inflam drugs, self-harm, init
'T394X2A'	Poisoning by antirheumatics, NEC, self-harm, init
'T398X2A'	Poisn by oth nonopio analges/antipyret, NEC, self-harm, init
'T3992XA'	Poisn by unsp nonopi analgs/antipyr/antirheu, slf-hrm, init
'T405X2A'	Poisoning by cocaine, intentional self-harm, init encntr
'T407X2A'	Poisoning by cannabis (derivatives), self-harm, init
'T408X2A'	Poisoning by lysergide, intentional self-harm, init encntr

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T40902A'	Poisoning by unsp psychodysleptics, self-harm, init
'T40992A'	Poisoning by oth psychodysleptics, self-harm, init
'T410X2A'	Poisoning by inhaled anesthetics, self-harm, init
'T411X2A'	Poisoning by intravenous anesthetics, self-harm, init
'T41202A'	Poisoning by unsp general anesthetics, self-harm, init
'T41292A'	Poisoning by oth general anesthetics, self-harm, init
'T413X2A'	Poisoning by local anesthetics, intentional self-harm, init
'T4142XA'	Poisoning by unsp anesthetic, intentional self-harm, init
'T415X2A'	Poisoning by therapeutic gases, intentional self-harm, init
'T420X2A'	Poisoning by hydantoin derivatives, self-harm, init
'T421X2A'	Poisoning by iminostilbenes, intentional self-harm, init
'T422X2A'	Poisn by succinimides and oxazolidinediones, self-harm, init
'T423X2A'	Poisoning by barbiturates, intentional self-harm, init
'T424X2A'	Poisoning by benzodiazepines, intentional self-harm, init
'T425X2A'	Poisoning by mixed antiepileptics, self-harm, init
'T426X2A'	Poisn by oth antieplptc and sed-hypntc drugs, slf-hrm, init
'T4272XA'	Poisn by unsp antieplptc and sed-hypntc drugs, slf-hrm, init
'T428X2A'	Poisn by antiparkns drug/centr musc-tone depr, slf-hrm, init
'T43012A'	Poisoning by tricyclic antidepressants, self-harm, init
'T43022A'	Poisoning by tetracyclic antidepressants, self-harm, init
'T431X2A'	Poisoning by MAO inhib antidepressants, self-harm, init
'T43202A'	Poisoning by unsp antidepressants, self-harm, init
'T43212A'	Poisn by slctv seroton/norepineph reup inhibtr,slf-hrm, init
'T43222A'	Poisn by slctv serotonin reuptake inhibtr, self-harm, init
'T43292A'	Poisoning by oth antidepressants, self-harm, init
'T433X2A'	Poisn by phenothiaz antipsychot/neurolept, self-harm, init
'T434X2A'	Poisn by butyrophen/thiothixen neuroleptc, self-harm, init
'T43502A'	Poisoning by unsp antipsychot/neurolept, self-harm, init
'T43592A'	Poisoning by oth antipsychot/neurolept, self-harm, init
'T43602A'	Poisoning by unsp psychostimulants, self-harm, init
'T43612A'	Poisoning by caffeine, intentional self-harm, init encntr
'T43622A'	Poisoning by amphetamines, intentional self-harm, init
'T43632A'	Poisoning by methylphenidate, intentional self-harm, init
'T43692A'	Poisoning by oth psychostimulants, self-harm, init
'T438X2A'	Poisoning by oth psychotropic drugs, self-harm, init
'T4392XA'	Poisoning by unsp psychotropic drug, self-harm, init
'T440X2A'	Poisoning by anticholinesterase agents, self-harm, init
'T441X2A'	Poisoning by oth parasympathomimetics, self-harm, init
'T442X2A'	Poisoning by ganglionic blocking drugs, self-harm, init
'T443X2A'	Poisn by oth parasympath and spasmolytics, self-harm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T444X2A'	Poisn by predom alpha-adrenocpt agonists, self-harm, init
'T445X2A'	Poisoning by predom beta-adrenocpt agonists, self-harm, init
'T446X2A'	Poisoning by alpha-adrenocpt antagonists, self-harm, init
'T447X2A'	Poisoning by beta-adrenocpt antagonists, self-harm, init
'T448X2A'	Poisn by centr-acting/adren-neurn-block agnt, slf-hrm, init
'T44902A'	Poisn by unsp drugs aff the autonm nrv sys, slf-hrm, init
'T44992A'	Poisn by oth drug aff the autonm nervous sys, slf-hrm, init
'T450X2A'	Poisoning by antiallerg/antiemetic, self-harm, init
'T451X2A'	Poisoning by antineopl and immunosup drugs, self-harm, init
'T452X2A'	Poisoning by vitamins, intentional self-harm, init encntr
'T453X2A'	Poisoning by enzymes, intentional self-harm, init encntr
'T454X2A'	Poisoning by iron and its compounds, self-harm, init
'T45512A'	Poisoning by anticoagulants, intentional self-harm, init
'T45522A'	Poisoning by antithrombotic drugs, self-harm, init
'T45602A'	Poisoning by unsp fibrin-affct drugs, self-harm, init
'T45612A'	Poisoning by thrombolytic drug, intentional self-harm, init
'T45622A'	Poisoning by hemostatic drug, intentional self-harm, init
'T45692A'	Poisoning by oth fibrin-affct drugs, self-harm, init
'T457X2A'	Poisn by anticoag antag, vit K and oth coag, slf-hrm, init
'T458X2A'	Poisn by oth prim sys and hematolog agents, slf-hrm, init
'T4592XA'	Poisn by unsp prim sys and hematolog agent, slf-hrm, init
'T460X2A'	Poisn by cardi-stim glycos/drug simlar act, self-harm, init
'T461X2A'	Poisoning by calcium-channel blockers, self-harm, init
'T462X2A'	Poisoning by oth antidysrhythmic drugs, self-harm, init
'T463X2A'	Poisoning by coronary vasodilators, self-harm, init
'T464X2A'	Poisn by angiotens-convert-enzyme inhibtr, self-harm, init
'T465X2A'	Poisoning by oth antihypertensive drugs, self-harm, init
'T466X2A'	Poisn by antihyperlip and antiarterio drugs, self-harm, init
'T467X2A'	Poisoning by peripheral vasodilators, self-harm, init
'T468X2A'	Poisn by antivaric drugs, inc scler agents, self-harm, init
'T46902A'	Poisn by unsp agents aff the cardiovasc sys, self-harm, init
'T46992A'	Poisn by oth agents aff the cardiovasc sys, self-harm, init
'T470X2A'	Poisoning by histamine H2-receptor blockers, self-harm, init
'T471X2A'	Poisn by oth antacids & anti-gstrc-sec drugs, slf-hrm, init
'T472X2A'	Poisoning by stimulant laxatives, self-harm, init
'T473X2A'	Poisoning by saline and osmotic laxatives, self-harm, init
'T474X2A'	Poisoning by oth laxatives, intentional self-harm, init
'T475X2A'	Poisoning by digestants, intentional self-harm, init encntr
'T476X2A'	Poisoning by antidiarrheal drugs, self-harm, init
'T477X2A'	Poisoning by emetics, intentional self-harm, init encntr

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T478X2A'	Poisoning by oth agents aff GI sys, self-harm, init
'T4792XA'	Poisoning by unsp agents aff the GI sys, self-harm, init
'T480X2A'	Poisoning by oxytocic drugs, intentional self-harm, init
'T481X2A'	Poisoning by skeletal muscle relaxants, self-harm, init
'T48202A'	Poisoning by unsp drugs acting on muscles, self-harm, init
'T48292A'	Poisoning by oth drugs acting on muscles, self-harm, init
'T483X2A'	Poisoning by antitussives, intentional self-harm, init
'T484X2A'	Poisoning by expectorants, intentional self-harm, init
'T485X2A'	Poisoning by oth anti-common-cold drugs, self-harm, init
'T486X2A'	Poisoning by antiasthmatics, intentional self-harm, init
'T48902A'	Poisn by unsp agents prim act on the resp sys, slf-hrm, init
'T48992A'	Poisn by oth agents prim act on the resp sys, slf-hrm, init
'T490X2A'	Poisn by local antifung/infect/inflamm drugs, slf-hrm, init
'T491X2A'	Poisoning by antipruritics, intentional self-harm, init
'T492X2A'	Poisoning by local astringents/detergents, self-harm, init
'T493X2A'	Poisn by emollients, demulcents and protect, self-harm, init
'T494X2A'	Poisn by keratolyt/keratplst/hair trmt drug, self-harm, init
'T495X2A'	Poisoning by opth drugs and preparations, self-harm, init
'T496X2A'	Poisoning by otorhino drugs and prep, self-harm, init
'T497X2A'	Poisn by dental drugs, topically applied, self-harm, init
'T498X2A'	Poisoning by oth topical agents, intentional self-harm, init
'T4992XA'	Poisoning by unsp topical agent, intentional self-harm, init
'T500X2A'	Poisoning by mineralocorticoids and antag, self-harm, init
'T501X2A'	Poisoning by loop diuretics, intentional self-harm, init
'T502X2A'	Poisn by crbnc-anhydr inhibtr,benzo/oth diuretc,slf-hrm,init
'T503X2A'	Poisn by electrolytic/caloric/wtr-bal agnt, self-harm, init
'T504X2A'	Poisoning by drugs aff uric acid metab, self-harm, init
'T505X2A'	Poisoning by appetite depressants, self-harm, init
'T506X2A'	Poisoning by antidotes and chelating agents, self-harm, init
'T507X2A'	Poisn by analeptics and opioid receptor antag, slf-hrm, init
'T508X2A'	Poisoning by diagnostic agents, intentional self-harm, init
'T50902A'	Poisoning by unsp drug/meds/biol subst, self-harm, init
'T50992A'	Poisoning by oth drug/meds/biol subst, self-harm, init
'T50A12A'	Poisn by pertuss vaccn, inc combin w pertuss, slf-hrm, init
'T50A22A'	Poisn by mixed bact vaccines w/o a pertuss, self-harm, init
'T50A92A'	Poisoning by oth bacterial vaccines, self-harm, init
'T50B12A'	Poisoning by smallpox vaccines, intentional self-harm, init
'T50B92A'	Poisoning by oth viral vaccines, intentional self-harm, init
'T50Z12A'	Poisoning by immunoglobulin, intentional self-harm, init
'T50Z92A'	Poisoning by oth vaccines and biolg substnc, self-harm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T510X2A'	Toxic effect of ethanol, intentional self-harm, init encntr
'T511X2A'	Toxic effect of methanol, intentional self-harm, init encntr
'T512X2A'	Toxic effect of 2-Propanol, intentional self-harm, init
'T513X2A'	Toxic effect of fusel oil, intentional self-harm, init
'T518X2A'	Toxic effect of oth alcohols, intentional self-harm, init
'T5192XA'	Toxic effect of unsp alcohol, intentional self-harm, init
'T520X2A'	Toxic effect of petroleum products, self-harm, init
'T521X2A'	Toxic effect of benzene, intentional self-harm, init encntr
'T522X2A'	Toxic effect of homologues of benzene, self-harm, init
'T523X2A'	Toxic effect of glycols, intentional self-harm, init encntr
'T524X2A'	Toxic effect of ketones, intentional self-harm, init encntr
'T528X2A'	Toxic effect of organic solvents, self-harm, init
'T5292XA'	Toxic effect of unsp organic solvent, self-harm, init
'T530X2A'	Toxic effect of carbon tetrachloride, self-harm, init
'T531X2A'	Toxic effect of chloroform, intentional self-harm, init
'T532X2A'	Toxic effect of trichloroethylene, self-harm, init
'T533X2A'	Toxic effect of tetrachloroethylene, self-harm, init
'T534X2A'	Toxic effect of dichloromethane, intentional self-harm, init
'T535X2A'	Toxic effect of chlorofluorocarbons, self-harm, init
'T536X2A'	Tox eff of halgn deriv of aliphatic hydrocrb, slf-hrm, init
'T537X2A'	Toxic eff of halgn deriv of aromatic hydrocrb, slf-hrm, init
'T5392XA'	Tox eff of unsp halgn deriv of aromat hydrocrb,slf-hrm, init
'T540X2A'	Toxic effect of phenol and phenol homolog, self-harm, init
'T541X2A'	Toxic effect of corrosive organic compounds, self-harm, init
'T542X2A'	Tox eff of corrosv acids & acid-like substnc, slf-hrm, init
'T543X2A'	Tox eff of corrosv alkalis & alk-like substnc, slf-hrm, init
'T5492XA'	Toxic effect of unsp corrosive substance, self-harm, init
'T550X2A'	Toxic effect of soaps, intentional self-harm, init encntr
'T551X2A'	Toxic effect of detergents, intentional self-harm, init
'T560X2A'	Toxic effect of lead and its compounds, self-harm, init
'T561X2A'	Toxic effect of mercury and its compounds, self-harm, init
'T562X2A'	Toxic effect of chromium and its compounds, self-harm, init
'T563X2A'	Toxic effect of cadmium and its compounds, self-harm, init
'T564X2A'	Toxic effect of copper and its compounds, self-harm, init
'T565X2A'	Toxic effect of zinc and its compounds, self-harm, init
'T566X2A'	Toxic effect of tin and its compounds, self-harm, init
'T567X2A'	Toxic effect of beryllium and its compounds, self-harm, init
'T56812A'	Toxic effect of thallium, intentional self-harm, init encntr
'T56892A'	Toxic effect of oth metals, intentional self-harm, init
'T5692XA'	Toxic effect of unsp metal, intentional self-harm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T570X2A'	Toxic effect of arsenic and its compounds, self-harm, init
'T571X2A'	Toxic effect of phosphorus and its compnd, self-harm, init
'T572X2A'	Toxic effect of manganese and its compounds, self-harm, init
'T573X2A'	Toxic effect of hydrogen cyanide, self-harm, init
'T578X2A'	Toxic effect of inorganic substances, self-harm, init
'T5792XA'	Toxic effect of unsp inorganic substance, self-harm, init
'T5802XA'	Toxic eff of carb monx from mtr veh exhaust, slf-hrm, init
'T5812XA'	Toxic effect of carb monx from utility gas, self-harm, init
'T582X2A'	Tox eff of carb monx fr incmpl combst dmst fuel,slf-hrm,init
'T588X2A'	Toxic effect of carb monx from oth source, self-harm, init
'T5892XA'	Toxic effect of carb monx from unsp source, self-harm, init
'T590X2A'	Toxic effect of nitrogen oxides, intentional self-harm, init
'T591X2A'	Toxic effect of sulfur dioxide, intentional self-harm, init
'T592X2A'	Toxic effect of formaldehyde, intentional self-harm, init
'T593X2A'	Toxic effect of lacrimogenic gas, self-harm, init
'T594X2A'	Toxic effect of chlorine gas, intentional self-harm, init
'T595X2A'	Tox eff of fluorine gas and hydrogen fluoride, slf-hrm, init
'T596X2A'	Toxic effect of hydrogen sulfide, self-harm, init
'T597X2A'	Toxic effect of carbon dioxide, intentional self-harm, init
'T59812A'	Toxic effect of smoke, intentional self-harm, init encntr
'T59892A'	Toxic effect of gases, fumes and vapors, self-harm, init
'T5992XA'	Toxic effect of unsp gases, fumes and vapors, slf-hrm, init
'T600X2A'	Toxic eff of organophos and carbamate insect, slf-hrm, init
'T601X2A'	Toxic effect of halogenated insecticides, self-harm, init
'T602X2A'	Toxic effect of insecticides, intentional self-harm, init
'T603X2A'	Toxic effect of herbicides and fungicides, self-harm, init
'T604X2A'	Toxic effect of rodenticides, intentional self-harm, init
'T608X2A'	Toxic effect of oth pesticides, intentional self-harm, init
'T6092XA'	Toxic effect of unsp pesticide, intentional self-harm, init
'T6102XA'	Ciguatera fish poisoning, intentional self-harm, init encntr
'T6112XA'	Scombroid fish poisoning, intentional self-harm, init encntr
'T61772A'	Other fish poisoning, intentional self-harm, init encntr
'T61782A'	Oth shellfish poisoning, intentional self-harm, init encntr
'T618X2A'	Toxic effect of oth seafood, intentional self-harm, init
'T6192XA'	Toxic effect of unsp seafood, intentional self-harm, init
'T620X2A'	Toxic effect of ingested mushrooms, self-harm, init
'T621X2A'	Toxic effect of ingested berries, self-harm, init
'T622X2A'	Toxic effect of ingested (parts of) plant(s), slf-hrm, init
'T628X2A'	Toxic effect of noxious substnc eaten as food, slf-hrm, init
'T6292XA'	Toxic eff of unsp noxious sub eaten as food, slf-hrm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T63002A'	Toxic effect of unsp snake venom, self-harm, init
'T63012A'	Toxic effect of rattlesnake venom, self-harm, init
'T63022A'	Toxic effect of coral snake venom, self-harm, init
'T63032A'	Toxic effect of taipan venom, intentional self-harm, init
'T63042A'	Toxic effect of cobra venom, intentional self-harm, init
'T63062A'	Toxic effect of venom of N & S American snake, slf-hrm, init
'T63072A'	Toxic effect of venom of Australian snake, self-harm, init
'T63082A'	Toxic eff of venom of African and Asian snake, slf-hrm, init
'T63092A'	Toxic effect of venom of snake, intentional self-harm, init
'T63112A'	Toxic effect of venom of gila monster, self-harm, init
'T63122A'	Toxic effect of venom of venomous lizard, self-harm, init
'T63192A'	Toxic effect of venom of reptiles, self-harm, init
'T632X2A'	Toxic effect of venom of scorpion, self-harm, init
'T63302A'	Toxic effect of unsp spider venom, self-harm, init
'T63312A'	Toxic effect of venom of black widow spider, self-harm, init
'T63322A'	Toxic effect of venom of tarantula, self-harm, init
'T63332A'	Toxic effect of venom of brown recluse spider, slf-hrm, init
'T63392A'	Toxic effect of venom of spider, intentional self-harm, init
'T63412A'	Toxic effect of venom of centipede/millipede, slf-hrm, init
'T63422A'	Toxic effect of venom of ants, intentional self-harm, init
'T63432A'	Toxic effect of venom of caterpillars, self-harm, init
'T63442A'	Toxic effect of venom of bees, intentional self-harm, init
'T63452A'	Toxic effect of venom of hornets, self-harm, init
'T63462A'	Toxic effect of venom of wasps, intentional self-harm, init
'T63482A'	Toxic effect of venom of arthropod, self-harm, init
'T63512A'	Toxic effect of contact w stingray, self-harm, init
'T63592A'	Toxic effect of contact w oth venomous fish, self-harm, init
'T63612A'	Toxic effect of contact w Portugese Man-o-war, slf-hrm, init
'T63622A'	Toxic effect of contact w oth jellyfish, self-harm, init
'T63632A'	Toxic effect of contact w sea anemone, self-harm, init
'T63692A'	Toxic eff of cntct w oth venom marine animals, slf-hrm, init
'T63712A'	Toxic effect of contact w venom marine plant, slf-hrm, init
'T63792A'	Toxic effect of contact w oth venomous plant, slf-hrm, init
'T63812A'	Toxic effect of contact w venomous frog, self-harm, init
'T63822A'	Toxic effect of contact w venomous toad, self-harm, init
'T63832A'	Toxic effect of contact w oth venomous amphib, slf-hrm, init
'T63892A'	Toxic effect of contact w oth venom animals, slf-hrm, init
'T6392XA'	Toxic effect of contact w unsp venom animal, slf-hrm, init
'T6402XA'	Toxic effect of aflatoxin, intentional self-harm, init
'T6482XA'	Toxic effect of mycotoxin food contaminants, self-harm, init

ICD-10-CM DIAGNOSIS	DESCRIPTION
'T650X2A'	Toxic effect of cyanides, intentional self-harm, init encntr
'T651X2A'	Toxic effect of strychnine and its salts, self-harm, init
'T65212A'	Toxic effect of chewing tobacco, intentional self-harm, init
'T65222A'	Toxic effect of tobacco cigarettes, self-harm, init
'T65292A'	Toxic effect of tobacco and nicotine, self-harm, init
'T653X2A'	Tox eff of nitrodrv/aminodrv of benzn/homolog, slf-hrm, init
'T654X2A'	Toxic effect of carbon disulfide, self-harm, init
'T655X2A'	Tox eff of nitro & oth nitric acids & esters, slf-hrm, init
'T656X2A'	Toxic effect of paints and dyes, NEC, self-harm, init
'T65812A'	Toxic effect of latex, intentional self-harm, init encntr
'T65822A'	Toxic eff of harmful algae and algae toxins, slf-hrm, init
'T65832A'	Toxic effect of fiberglass, intentional self-harm, init
'T65892A'	Toxic effect of oth substances, intentional self-harm, init
'T6592XA'	Toxic effect of unsp substance, intentional self-harm, init
'T71112A'	Asphyxiation due to smothering under pillow, self-harm, init
'T71122A'	Asphyxiation due to plastic bag, intentional self-harm, init
'T71132A'	Asphyx due to being trapped in bed linens, self-harm, init
'T71152A'	Asphyxiation due to smothering in furniture, self-harm, init
'T71162A'	Asphyxiation due to hanging, intentional self-harm, init
'T71192A'	Asphyx d/t mech thrt to breathe d/t oth cause, slf-hrm, init
'T71222A'	Asphyx due to being trapped in a car trunk, self-harm, init
'T71232A'	Asphyx d/t being trap in a (discarded) refrig, slf-hrm, init
'X710XXA'	Intentional self-harm by drown while in bathtub, init
'X711XXA'	Intentional self-harm by drown while in swimming pool, init
'X712XXA'	Self-harm by drown after jump into swimming pool, init
'X713XXA'	Intentional self-harm by drown in natural water, init
'X718XXA'	Oth intentional self-harm by drowning and submersion, init
'X719XXA'	Intentional self-harm by drowning and submersion, unsp, init
'X72XXXA'	Intentional self-harm by handgun discharge, init encntr
'X730XXA'	Intentional self-harm by shotgun discharge, init encntr
'X731XXA'	Intentional self-harm by hunting rifle discharge, init
'X732XXA'	Intentional self-harm by machine gun discharge, init encntr
'X738XXA'	Intentional self-harm by oth larger firearm discharge, init
'X739XXA'	Intentional self-harm by unsp larger firearm discharge, init
'X7401XA'	Intentional self-harm by airgun, initial encounter
'X7402XA'	Intentional self-harm by paintball gun, initial encounter
'X7409XA'	Self-harm by oth gas, air or spring-operated gun, init
'X748XXA'	Intentional self-harm by oth firearm discharge, init encntr
'X749XXA'	Intentional self-harm by unsp firearm discharge, init encntr
'X75XXXA'	Intentional self-harm by explosive material, init encntr

ICD-10-CM DIAGNOSIS	DESCRIPTION
'X76XXXA'	Intentional self-harm by smoke, fire and flames, init encntr
'X770XXA'	Intentional self-harm by steam or hot vapors, init encntr
'X771XXA'	Intentional self-harm by hot tap water, initial encounter
'X772XXA'	Intentional self-harm by other hot fluids, initial encounter
'X773XXA'	Intentional self-harm by hot household appliances, init
'X778XXA'	Intentional self-harm by other hot objects, init encntr
'X779XXA'	Intentional self-harm by unsp hot objects, init encntr
'X780XXA'	Intentional self-harm by sharp glass, initial encounter
'X781XXA'	Intentional self-harm by knife, initial encounter
'X782XXA'	Intentional self-harm by sword or dagger, initial encounter
'X788XXA'	Intentional self-harm by other sharp object, init encntr
'X789XXA'	Intentional self-harm by unsp sharp object, init encntr
'X79XXXA'	Intentional self-harm by blunt object, initial encounter
'X80XXXA'	Intentional self-harm by jumping from a high place, init
'X810XXA'	Self-harm by jumping or lying in front of mtr veh, init
'X811XXA'	Slf-hrm by jumping or lying in front of (subway) train, init
'X818XXA'	Slf-hrm by jumping or lying in front of moving object, init
'X820XXA'	Intentional collision of motor vehicle w mtr veh, init
'X821XXA'	Intentional collision of motor vehicle w train, init encntr
'X822XXA'	Intentional collision of motor vehicle w tree, init encntr
'X828XXA'	Oth intentional self-harm by crashing of motor vehicle, init
'X830XXA'	Intentional self-harm by crashing of aircraft, init encntr
'X831XXA'	Intentional self-harm by electrocution, initial encounter
'X832XXA'	Intentional self-harm by exposure to extremes of cold, init
'X838XXA'	Intentional self-harm by other specified means, init encntr
'F59'	Unsp behavrl synd assoc w physiol disturb and physcl factors
'F988'	Oth behav/emotn disord w onset usly occur in chldhd and adol
'F989'	Unsp behav/emotn disord w onst usly occur in chldhd and adol
'R452'	Unhappiness
'R453'	Demoralization and apathy
'R454'	Irritability and anger
'R455'	Hostility
'R456'	Violent behavior
'R457'	State of emotional shock and stress, unspecified
'R4581'	Low self-esteem
'R4582'	Worries
'R4583'	Excessive crying of child, adolescent or adult
'R4584'	Anhedonia
'R4586'	Emotional lability
'R4589'	Other symptoms and signs involving emotional state

ICD-10-CM DIAGNOSIS	DESCRIPTION
'R460'	Very low level of personal hygiene
'R461'	Bizarre personal appearance
'R462'	Strange and inexplicable behavior
'R463'	Overactivity
'R464'	Slowness and poor responsiveness
'R465'	Suspiciousness and marked evasiveness
'R467'	Verbosity and circumstantial detail obscuring rsn for cntct
'R4689'	Other symptoms and signs involving appearance and behavior
'F430'	Acute stress reaction
'F4310'	Post-traumatic stress disorder, unspecified
'F4320'	Adjustment disorder, unspecified
'F4321'	Adjustment disorder with depressed mood
'F4322'	Adjustment disorder with anxiety
'F4323'	Adjustment disorder with mixed anxiety and depressed mood
'F4324'	Adjustment disorder with disturbance of conduct
'F4325'	Adjustment disorder w mixed disturb of emotions and conduct
'F4329'	Adjustment disorder with other symptoms
'F438'	Other reactions to severe stress
'F439'	Reaction to severe stress, unspecified
'F941'	Reactive attachment disorder of childhood
'F942'	Disinhibited attachment disorder of childhood

Table B-2: Substance Use ICD-10-CMS Diagnosis Codes

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F1010'	Alcohol abuse, uncomplicated
'F10120'	Alcohol abuse with intoxication, uncomplicated
'F10121'	Alcohol abuse with intoxication delirium
'F10129'	Alcohol abuse with intoxication, unspecified
'F1014'	Alcohol abuse with alcohol-induced mood disorder
'F10150'	Alcohol abuse w alcoh-induce psychotic disorder w delusions
'F10151'	Alcohol abuse w alcoh-induce psychotic disorder w hallucin
'F10159'	Alcohol abuse with alcohol-induced psychotic disorder, unsp
'F10180'	Alcohol abuse with alcohol-induced anxiety disorder
'F10181'	Alcohol abuse with alcohol-induced sexual dysfunction
'F10182'	Alcohol abuse with alcohol-induced sleep disorder
'F10188'	Alcohol abuse with other alcohol-induced disorder
'F1019'	Alcohol abuse with unspecified alcohol-induced disorder
'F1020'	Alcohol dependence, uncomplicated
'F10220'	Alcohol dependence with intoxication, uncomplicated
'F10221'	Alcohol dependence with intoxication delirium

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F10229'	Alcohol dependence with intoxication, unspecified
'F10230'	Alcohol dependence with withdrawal, uncomplicated
'F10231'	Alcohol dependence with withdrawal delirium
'F10232'	Alcohol dependence w withdrawal with perceptual disturbance
'F10239'	Alcohol dependence with withdrawal, unspecified
'F1024'	Alcohol dependence with alcohol-induced mood disorder
'F10250'	Alcohol depend w alcoh-induce psychotic disorder w delusions
'F10251'	Alcohol depend w alcoh-induce psychotic disorder w hallucin
'F10259'	Alcohol dependence w alcoh-induce psychotic disorder, unsp
'F1026'	Alcohol depend w alcoh-induce persisting amnestic disorder
'F1027'	Alcohol dependence with alcohol-induced persisting dementia
'F10280'	Alcohol dependence with alcohol-induced anxiety disorder
'F10281'	Alcohol dependence with alcohol-induced sexual dysfunction
'F10282'	Alcohol dependence with alcohol-induced sleep disorder
'F10288'	Alcohol dependence with other alcohol-induced disorder
'F1029'	Alcohol dependence with unspecified alcohol-induced disorder
'F10920'	Alcohol use, unspecified with intoxication, uncomplicated
'F10921'	Alcohol use, unspecified with intoxication delirium
'F10929'	Alcohol use, unspecified with intoxication, unspecified
'F1094'	Alcohol use, unspecified with alcohol-induced mood disorder
'F10950'	Alcohol use, unsp w alcoh-induce psych disorder w delusions
'F10951'	Alcohol use, unsp w alcoh-induce psych disorder w hallucin
'F10959'	Alcohol use, unsp w alcohol-induced psychotic disorder, unsp
'F1096'	Alcohol use, unsp w alcoh-induce persist amnestic disorder
'F1097'	Alcohol use, unsp with alcohol-induced persisting dementia
'F10980'	Alcohol use, unsp with alcohol-induced anxiety disorder
'F10981'	Alcohol use, unsp with alcohol-induced sexual dysfunction
'F10982'	Alcohol use, unspecified with alcohol-induced sleep disorder
'F10988'	Alcohol use, unspecified with other alcohol-induced disorder
'F1099'	Alcohol use, unsp with unspecified alcohol-induced disorder
'G621'	Alcoholic polyneuropathy
'1426'	Alcoholic cardiomyopathy
'K2920'	Alcoholic gastritis without bleeding
'K2921'	Alcoholic gastritis with bleeding
'K700'	Alcoholic fatty liver
'K7010'	Alcoholic hepatitis without ascites
'K7011'	Alcoholic hepatitis with ascites
'K702'	Alcoholic fibrosis and sclerosis of liver
'K7030'	Alcoholic cirrhosis of liver without ascites
'K7031'	Alcoholic cirrhosis of liver with ascites

ICD-10-CM DIAGNOSIS	DESCRIPTION
'K7040'	Alcoholic hepatic failure without coma
'K709'	Alcoholic liver disease, unspecified
'O99310'	Alcohol use complicating pregnancy, unspecified trimester
'O99311'	Alcohol use complicating pregnancy, first trimester
'O99312'	Alcohol use complicating pregnancy, second trimester
'O99313'	Alcohol use complicating pregnancy, third trimester
'O99314'	Alcohol use complicating childbirth
'O99315'	Alcohol use complicating the puerperium
'P043'	Newborn affected by maternal use of alcohol
'Q860'	Fetal alcohol syndrome (dysmorphic)
'F1210'	Cannabis abuse, uncomplicated
'F12120'	Cannabis abuse with intoxication, uncomplicated
'F12121'	Cannabis abuse with intoxication delirium
'F12122'	Cannabis abuse with intoxication with perceptual disturbance
'F12129'	Cannabis abuse with intoxication, unspecified
'F12150'	Cannabis abuse with psychotic disorder with delusions
'F12151'	Cannabis abuse with psychotic disorder with hallucinations
'F12159'	Cannabis abuse with psychotic disorder, unspecified
'F12180'	Cannabis abuse with cannabis-induced anxiety disorder
'F12188'	Cannabis abuse with other cannabis-induced disorder
'F1219'	Cannabis abuse with unspecified cannabis-induced disorder
'F1220'	Cannabis dependence, uncomplicated
'F12220'	Cannabis dependence with intoxication, uncomplicated
'F12221'	Cannabis dependence with intoxication delirium
'F12222'	Cannabis dependence w intoxication w perceptual disturbance
'F12229'	Cannabis dependence with intoxication, unspecified
'F12250'	Cannabis dependence with psychotic disorder with delusions
'F12251'	Cannabis dependence w psychotic disorder with hallucinations
'F12259'	Cannabis dependence with psychotic disorder, unspecified
'F12280'	Cannabis dependence with cannabis-induced anxiety disorder
'F12288'	Cannabis dependence with other cannabis-induced disorder
'F1229'	Cannabis dependence with unsp cannabis-induced disorder
'F1290'	Cannabis use, unspecified, uncomplicated
'F12920'	Cannabis use, unspecified with intoxication, uncomplicated
'F12921'	Cannabis use, unspecified with intoxication delirium
'F12922'	Cannabis use, unsp w intoxication w perceptual disturbance
'F12929'	Cannabis use, unspecified with intoxication, unspecified
'F12950'	Cannabis use, unsp with psychotic disorder with delusions
'F12951'	Cannabis use, unsp w psychotic disorder with hallucinations
'F12959'	Cannabis use, unsp with psychotic disorder, unspecified

F12988' Cannabis use, unsp with other cannabis-induced disorder F1299' Cannabis use, unsp with unsp cannabis-induced disorder F1299' Poisoning by cannabis (derivatives), accidental, init F1407XAA' Poisoning by cannabis (derivatives), assault, init encntr F1407XAA' Poisoning by cannabis (derivatives), undetermined, init F1407XAA' Poisoning by cannabis (derivatives), initial encounter F1610' Hallucinogen abuse, uncomplicated F16121' Hallucinogen abuse with intoxication, uncomplicated F16121' Hallucinogen abuse with intoxication with delirium F16122' Hallucinogen abuse with intoxication, unspecified F1614' Hallucinogen abuse with intoxication, unspecified F16150' Hallucinogen abuse with intoxication, unspecified F16161' Hallucinogen abuse with provided disorder F16150' Hallucinogen abuse with provided disorder with delirium F16150' Hallucinogen abuse with hallucinogen-induced mood disorder F16151' Hallucinogen abuse with provided disorder with delirium F16159' Hallucinogen abuse with provided disorder with allucinations F161619' Hallucinogen abuse with provided disorder, unsp F1616183' Hallucinogen abuse with hallucinogen-induced anxiety disorder F1616186' Hallucinogen abuse with other hallucinogen-induced disorder F161619' Hallucinogen abuse with other hallucinogen-induced disorder F161620' Hallucinogen dependence, uncomplicated F16220' Hallucinogen dependence with intoxication, uncomplicated F16221' Hallucinogen dependence with intoxication, unspecified F1629' Hallucinogen dependence w psychotic disorder w hallucin F1629' Hallucinogen dependence w psychotic disorder with allucin F1629' Hallucinogen dependence with intoxication with delirium F16280' Hallucinogen dependence w psychotic disorder with allucin F1629' Hallucinogen dependence with intoxication with delirium F16280' Hallucinogen dependence w psychotic disorder with disorder F1629' Hallucinogen dependence w unspecified F1629' Hallucinogen use, unspecified, uncomplicated F1690' Hallucinogen use, unspecified with intoxication, unspecified	ICD-10-CM DIAGNOSIS	DESCRIPTION
F1299' Cannabis use, unsp with unsp cannabis-induced disorder     T407X1A' Poisoning by cannabis (derivatives), accidental, init     T407X3A' Poisoning by cannabis (derivatives), assault, init encntr     T407X5A' Poisoning by cannabis (derivatives), undetermined, init     T407X5A' Adverse effect of cannabis (derivatives), initial encounter     F1610' Hallucinogen abuse, uncomplicated     F16120' Hallucinogen abuse with intoxication, uncomplicated     F16121' Hallucinogen abuse with intoxication with delirium     F16122' Hallucinogen abuse with intoxication with delirium     F16129' Hallucinogen abuse with intoxication with delirium     F161614' Hallucinogen abuse with intoxication, unspecified     F161614' Hallucinogen abuse with intoxication, unspecified     F16150' Hallucinogen abuse with pallucinogen-induced mood disorder     F16151' Hallucinogen abuse w psychotic disorder w delusions     F16159' Hallucinogen abuse w psychotic disorder w hallucinations     F16169' Hallucinogen abuse w psychotic disorder with pallucinations     F16180' Hallucinogen abuse w hallucinogen-induced anxiety disorder     F16180' Hallucinogen abuse w hallucinogen-induced disorder     F16181' Hallucinogen abuse w hallucinogen-induced disorder     F16180' Hallucinogen abuse with other hallucinogen-induced disorder     F16181' Hallucinogen abuse with other hallucinogen-induced disorder     F16182' Hallucinogen dependence, uncomplicated     F1619' Hallucinogen dependence with intoxication, uncomplicated     F1620' Hallucinogen dependence with intoxication with delirium     F16220' Hallucinogen dependence with intoxication, unspecified     F1621' Hallucinogen dependence w psychotic disorder w hallucin     F16250' Hallucinogen dependence w psychotic disorder w hallucin     F16260' Hallucinogen dependence w psychotic disorder with intoxication     F16280' Hallucinogen dependence w psychotic disorder with intoxication     F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder     F1629' Hallucinogen dependence w unsp hallucino	'F12980'	Cannabis use, unspecified with anxiety disorder
T407X1A' Poisoning by cannabis (derivatives), accidental, init  'T407X3A' Poisoning by cannabis (derivatives), assault, init encntr  'T407XAA' Poisoning by cannabis (derivatives), undetermined, init  'T407X5A' Adverse effect of cannabis (derivatives), initial encounter  'F1610' Hallucinogen abuse, uncomplicated  'F16121' Hallucinogen abuse with intoxication, uncomplicated  'F16122' Hallucinogen abuse with intoxication with delirium  'F16122' Hallucinogen abuse with intoxication with delirium  'F16129' Hallucinogen abuse with intoxication, unspecified  'F16150' Hallucinogen abuse with hallucinogen-induced mood disorder  'F16150' Hallucinogen abuse with province with delirium  'F16150' Hallucinogen abuse with province with delirium  'F16150' Hallucinogen abuse with province with delirium  'F16159' Hallucinogen abuse with province with delirium  'F16180' Hallucinogen abuse with province with disorder with hallucinogen-induced anxiety disorder  'F16183' Hallucinogen abuse with other hallucinogen-induced disorder  'F16188' Hallucinogen abuse with other hallucinogen-induced disorder  'F1619' Hallucinogen abuse with other hallucinogen-induced disorder  'F1620' Hallucinogen dependence, uncomplicated  'F16220' Hallucinogen dependence with intoxication, uncomplicated  'F16221' Hallucinogen dependence with intoxication, uncomplicated  'F16221' Hallucinogen dependence with intoxication, unspecified  'F16221' Hallucinogen dependence with intoxication, unspecified  'F16250' Hallucinogen dependence with intoxication with delirium  'F16250' Hallucinogen dependence w psychotic disorder wellucions  'F16250' Hallucinogen dependence w psychotic disorder  'F16268' Hallucinogen dependence w psychotic disorder  'F16270' Hallucinogen dependence w psychotic disorder  'F16290'	'F12988'	Cannabis use, unsp with other cannabis-induced disorder
T407X3A' Poisoning by cannabis (derivatives), assault, init encntr 'T407X4A' Poisoning by cannabis (derivatives), undetermined, init 'T407X5A' Adverse effect of cannabis (derivatives), initial encounter 'F1610' Hallucinogen abuse, uncomplicated 'F16121' Hallucinogen abuse with intoxication, uncomplicated 'F16122' Hallucinogen abuse with intoxication with delirium 'F16129' Hallucinogen abuse with intoxication with delirium 'F16150' Hallucinogen abuse with hallucinogen-induced mood disorder 'F16150' Hallucinogen abuse with solucion, unspecified 'F16150' Hallucinogen abuse with solucion with delirium 'F16150' Hallucinogen abuse with solucion with delirium 'F16159' Hallucinogen abuse with solucion with delirium 'F16189' Hallucinogen abuse with solucion with delirium 'F16180' Hallucinogen abuse with other hallucinogen-induced anxiety disorder 'F16180' Hallucinogen abuse with other hallucinogen-induced disorder 'F161818' Hallucinogen abuse with other hallucinogen-induced disorder 'F1619' Hallucinogen abuse with other hallucinogen-induced disorder 'F1619' Hallucinogen abuse with intoxication, uncomplicated 'F1620' Hallucinogen dependence, uncomplicated 'F16221' Hallucinogen dependence with intoxication, uncomplicated 'F16221' Hallucinogen dependence with intoxication, unspecified 'F16221' Hallucinogen dependence with intoxication, unspecified 'F16250' Hallucinogen dependence w psychotic disorder wellusions 'F16251' Hallucinogen dependence w psychotic disorder wellusions 'F16250' Hallucinogen dependence w psychotic disorder wellusions 'F16250' Hallucinogen dependence w psychotic disorder wellusions 'F16260' Hallucinogen dependence w psychotic disorder wellusions 'F16260' Hallucinogen dependence w psychotic disorder wellusions 'F16260' Hallucinogen dependence w psychotic disorder wellusions 'F16270' Hallucinogen dependence w psychotic disorder wellusions 'F16280' Hallucinogen dependence w unsiety disorder 'F16290' Hallucinogen dependence w unsiety disorder 'F16290' Hallucinogen use, unspecified with intoxication, unspec	'F1299'	Cannabis use, unsp with unsp cannabis-induced disorder
T407X4A' Poisoning by cannabis (derivatives), undetermined, init 'T407X5A' Adverse effect of cannabis (derivatives), initial encounter 'F1610' Hallucinogen abuse, uncomplicated 'F16120' Hallucinogen abuse with intoxication, uncomplicated 'F16121' Hallucinogen abuse with intoxication with delirium 'F16122' Hallucinogen abuse with intoxication with delirium 'F16129' Hallucinogen abuse with intoxication, unspecified 'F1614' Hallucinogen abuse with hallucinogen-induced mood disorder 'F16150' Hallucinogen abuse with hallucinogen-induced mood disorder 'F16151' Hallucinogen abuse w psychotic disorder w delusions 'F16159' Hallucinogen abuse w psychotic disorder w hallucinations 'F16180' Hallucinogen abuse w psychotic disorder, unsp 'F16180' Hallucinogen abuse w hallucinogen-induced anxiety disorder 'F16188' Hallucinogen abuse w hallucinogen-induced disorder 'F16189' Hallucinogen abuse with other hallucinogen-induced disorder 'F1619' Hallucinogen abuse with other hallucinogen-induced disorder 'F1620' Hallucinogen dependence, uncomplicated 'F16220' Hallucinogen dependence with intoxication, uncomplicated 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1629' Hallucinogen dependence w hallucinogen-induced mood disorder 'F1629' Hallucinogen dependence w psychotic disorder w delusions 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16250' Hallucinogen dependence w psychotic disorder w hallucin 'F16283' Hallucinogen dependence w psychotic disorder w hallucin 'F16286' Hallucinogen dependence w psychotic disorder w delusions 'F16286' Hallucinogen dependence w psychotic disorder w delusions 'F16280' Hallucinogen dependence w psychotic disorder w delusions 'F16280' Hallucinogen dependence w psychotic disorder w delusions 'F16280' Hallucinogen dependence w psychotic disorder 'F16280' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F16290' Hallucinogen use, unsp with intoxication, uncomplicated 'F16920' Hallucinogen	'T407X1A'	Poisoning by cannabis (derivatives), accidental, init
T407X5A' Adverse effect of cannabis (derivatives), initial encounter  F1610' Hallucinogen abuse, uncomplicated  F16120' Hallucinogen abuse with intoxication, uncomplicated  F16121' Hallucinogen abuse with intoxication with delirium  F16122' Hallucinogen abuse with intoxication with delirium  F16129' Hallucinogen abuse with intoxication, unspecified  F1614' Hallucinogen abuse with hallucinogen-induced mood disorder  F16150' Hallucinogen abuse with sold isorder with delirium  F16159' Hallucinogen abuse with psychotic disorder with allucinations  F16169' Hallucinogen abuse with psychotic disorder with allucinations  F16180' Hallucinogen abuse with psychotic disorder, unsp  F16180' Hallucinogen abuse with psychotic disorder with allucinations  F161819' Hallucinogen abuse with allucinogen-induced disorder  F161819' Hallucinogen abuse with other hallucinogen-induced disorder  F1619' Hallucinogen abuse with unsp hallucinogen-induced disorder  F1620' Hallucinogen dependence, uncomplicated  F16220' Hallucinogen dependence with intoxication, uncomplicated  F16220' Hallucinogen dependence with intoxication, uncomplicated  F16220' Hallucinogen dependence with intoxication, unspecified  F1624' Hallucinogen dependence with intoxication, unspecified  F1624' Hallucinogen dependence with intoxication with delirium  F16250' Hallucinogen dependence w psychotic disorder with allucinogen dependence with intoxication with delirium  F16250' Hallucinogen dependence with intoxication disorder  F16260' Hallucinogen dependence with intoxication disorder  F16270' Hallucinogen dependence with intoxication with delirium  F16290' Hallucinogen use, unsp with intoxication, uncomplicated  F16290' Hallucinogen use, unsp with intoxication, unspecified	'T407X3A'	Poisoning by cannabis (derivatives), assault, init encntr
Hallucinogen abuse, uncomplicated   Hallucinogen abuse with intoxication, uncomplicated   Hallucinogen abuse with intoxication with delirium   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with hallucinogen-induced mood disorder   Hallucinogen abuse with with with with with with with with	'T407X4A'	Poisoning by cannabis (derivatives), undetermined, init
Hallucinogen abuse with intoxication, uncomplicated   Hallucinogen abuse with intoxication with delirium   Hallucinogen abuse with intoxication with delirium   Hallucinogen abuse with intoxication with delirium   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with hallucinogen-induced mood disorder   Hallucinogen abuse with hallucinogen-induced mood disorder   Hallucinogen abuse w psychotic disorder w delusions   Hallucinogen abuse w psychotic disorder w delusions   Hallucinogen abuse w psychotic disorder, unsp   Hallucinogen abuse w psychotic disorder, unsp   Hallucinogen abuse w psychotic disorder, unsp   Hallucinogen abuse w hallucinogen-induced anxiety disorder   Hallucinogen abuse w hallucinogen-induced disorder   Hallucinogen abuse with other hallucinogen-induced disorder   Hallucinogen abuse with other hallucinogen-induced disorder   Hallucinogen abuse with unsp hallucinogen-induced disorder   Hallucinogen dependence, uncomplicated   Hallucinogen dependence with intoxication, uncomplicated   Hallucinogen dependence with intoxication with delirium   Hallucinogen dependence with intoxication with delirium   Hallucinogen dependence with intoxication, unspecified   Hallucinogen dependence w hallucinogen-induced mood disorder   Hallucinogen dependence w psychotic disorder w delusions   Hallucinogen dependence w psychotic disorder w hallucin   Hallucinogen dependence w psychotic disorder w hallucin   Hallucinogen dependence w psychotic disorder w hallucin   Hallucinogen dependence w psychotic disorder   Hallucinogen de	'T407X5A'	Adverse effect of cannabis (derivatives), initial encounter
Hallucinogen abuse with intoxication with delirium   F16122'   Hallucinogen abuse with intoxication with delirium   F16129'   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with intoxication, unspecified   Hallucinogen abuse with hallucinogen-induced mood disorder   F16150'   Hallucinogen abuse with hallucinogen-induced mood disorder   Hallucinogen abuse with psychotic disorder with delivions   Hallucinogen abuse with psychotic disorder with delivions   Hallucinogen abuse with psychotic disorder, unsp   Hallucinogen abuse with psychotic disorder, unsp   Hallucinogen abuse with psychotic disorder, unsp   Hallucinogen abuse with allucinogen-induced anxiety disorder   Hallucinogen abuse with other hallucinogen-induced disorder   Hallucinogen abuse with other hallucinogen-induced disorder   Hallucinogen abuse with other hallucinogen-induced disorder   Hallucinogen dependence, uncomplicated   Hallucinogen dependence with intoxication, uncomplicated   Hallucinogen dependence with intoxication, uncomplicated   Hallucinogen dependence with intoxication, unspecified   Hallucinogen dependence with intoxication, unspecified   Hallucinogen dependence with intoxication, unspecified   Hallucinogen dependence with psychotic disorder with   Hallucinogen dependence with psychotic disorder with   Hallucinogen dependence with   Hallucinogen dependence with   Hallucinogen dependence with   Hallucinogen   Hallucinogen dependence with   Hallucinogen   Hallucinogen dependence with   Hallucinogen   Hallucinog	'F1610'	Hallucinogen abuse, uncomplicated
Hallucinogen abuse w intoxication w perceptual disturbance	'F16120'	Hallucinogen abuse with intoxication, uncomplicated
Hallucinogen abuse with intoxication, unspecified	'F16121'	Hallucinogen abuse with intoxication with delirium
F1614' Hallucinogen abuse with hallucinogen-induced mood disorder F16150' Hallucinogen abuse w psychotic disorder w delusions F16151' Hallucinogen abuse w psychotic disorder w hallucinations F16159' Hallucinogen abuse w psychotic disorder, unsp F16180' Hallucinogen abuse w hallucinogen-induced anxiety disorder F16183' Hallucinogen abuse w hallucinogen-induced anxiety disorder F16188' Hallucinogen abuse with other hallucinogen-induced disorder F1619' Hallucinogen abuse with unsp hallucinogen-induced disorder F1620' Hallucinogen dependence, uncomplicated F16221' Hallucinogen dependence with intoxication, uncomplicated F16229' Hallucinogen dependence with intoxication with delirium F16229' Hallucinogen dependence w hallucinogen-induced mood disorder F16250' Hallucinogen dependence w psychotic disorder w delusions F16251' Hallucinogen dependence w psychotic disorder w hallucin F16259' Hallucinogen dependence w psychotic disorder w hallucin F16280' Hallucinogen dependence w psychotic disorder, unsp F16280' Hallucinogen dependence w anxiety disorder F16281' Hallucinogen dependence w on thallucinogen-induced disorder F16288' Hallucinogen dependence w unsp hallucinogen-induced disorder F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder F1629' Hallucinogen use, unspecified, uncomplicated F1690' Hallucinogen use, unsp with intoxication, uncomplicated F16921' Hallucinogen use, unsp with intoxication, uncomplicated F16929' Hallucinogen use, unsp with intoxication with delirium F16929' Hallucinogen use, unsp with intoxication, unspecified	'F16122'	Hallucinogen abuse w intoxication w perceptual disturbance
Hallucinogen abuse w psychotic disorder w delusions     Hallucinogen abuse w psychotic disorder w hallucinations     Hallucinogen abuse w psychotic disorder w hallucinations     Hallucinogen abuse w psychotic disorder, unsp     Hallucinogen abuse w hallucinogen-induced anxiety disorder     Hallucinogen abuse w hallucinogen-induced disorder     Hallucinogen abuse w hallucinogen-induced disorder     Hallucinogen abuse with other hallucinogen-induced disorder     Hallucinogen abuse with unsp hallucinogen-induced disorder     Hallucinogen dependence, uncomplicated     Hallucinogen dependence with intoxication, uncomplicated     Hallucinogen dependence with intoxication with delirium     Hallucinogen dependence with intoxication, unspecified     Hallucinogen dependence w hallucinogen-induced mood disorder     Hallucinogen dependence w psychotic disorder w delusions     Hallucinogen dependence w psychotic disorder w hallucin     Hallucinogen dependence w naxiety disorder     Hallucinogen dependence w anxiety disorder     Hallucinogen dependence w oth hallucinogen-induced disorder     Hallucinogen dependence w unsp hallucinogen-induced disorder     Hallucinogen dependence w unsp hallucinogen-induced disorder     Hallucinogen use, unspecified, uncomplicated     Hallucinogen use, unsp with intoxication, uncomplicated     Hallucinogen use, unsp with intoxication with delirium     Hallucinogen use, unspecified with intoxication, unspecified	'F16129'	Hallucinogen abuse with intoxication, unspecified
Hallucinogen abuse w psychotic disorder w hallucinations     Hallucinogen abuse w psychotic disorder, unsp     Hallucinogen abuse w hallucinogen-induced anxiety disorder     Hallucinogen abuse w hallucinogen-induced anxiety disorder     Hallucinogen abuse w hallucinogen-induced disorder     Hallucinogen abuse with other hallucinogen-induced disorder     Hallucinogen abuse with unsp hallucinogen-induced disorder     Hallucinogen abuse with unsp hallucinogen-induced disorder     Hallucinogen dependence, uncomplicated     Hallucinogen dependence with intoxication, uncomplicated     Hallucinogen dependence with intoxication with delirium     Hallucinogen dependence with intoxication, unspecified     Hallucinogen dependence with intoxication, unspecified     Hallucinogen dependence w psychotic disorder w delusions     Hallucinogen dependence w psychotic disorder w delusions     Hallucinogen dependence w psychotic disorder w hallucin     Hallucinogen dependence w anxiety disorder     Hallucinogen dependence w anxiety disorder     Hallucinogen dependence w oth hallucinogen-induced disorder     Hallucinogen dependence w unsp hallucinogen-induced disorder     Hallucinogen use, unspecified, uncomplicated     Hallucinogen use, unspecified with intoxication, uncomplicated     Hallucinogen use, unspecified with intoxication, unspecified     Hallucinogen use, unspecified with intoxication	'F1614'	Hallucinogen abuse with hallucinogen-induced mood disorder
Hallucinogen abuse w psychotic disorder, unsp	'F16150'	Hallucinogen abuse w psychotic disorder w delusions
Hallucinogen abuse w hallucinogen-induced anxiety disorder     F16188'	'F16151'	Hallucinogen abuse w psychotic disorder w hallucinations
Hallucign abuse w hallucign persisting perception disorder     F16188' Hallucinogen abuse with other hallucinogen-induced disorder     F1619' Hallucinogen abuse with unsp hallucinogen-induced disorder     F1620' Hallucinogen dependence, uncomplicated     F16220' Hallucinogen dependence with intoxication, uncomplicated     F16221' Hallucinogen dependence with intoxication with delirium     F16229' Hallucinogen dependence with intoxication, unspecified     F1624' Hallucinogen dependence w hallucinogen-induced mood disorder     F16250' Hallucinogen dependence w psychotic disorder w delusions     F16251' Hallucinogen dependence w psychotic disorder w hallucin     F16259' Hallucinogen dependence w psychotic disorder, unsp     F16280' Hallucinogen dependence w anxiety disorder     F16281' Hallucinogen dependence w oth hallucinogen-induced disorder     F16282' Hallucinogen dependence w oth hallucinogen-induced disorder     F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder     F1690' Hallucinogen use, unspecified, uncomplicated     F16920' Hallucinogen use, unsp with intoxication, uncomplicated     F16921' Hallucinogen use, unspecified with intoxication, unspecified     F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16159'	Hallucinogen abuse w psychotic disorder, unsp
'F16188' Hallucinogen abuse with other hallucinogen-induced disorder 'F1619' Hallucinogen abuse with unsp hallucinogen-induced disorder 'F1620' Hallucinogen dependence, uncomplicated 'F16220' Hallucinogen dependence with intoxication, uncomplicated 'F16221' Hallucinogen dependence with intoxication with delirium 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w oth hallucinogen-induced disorder 'F16298' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16180'	Hallucinogen abuse w hallucinogen-induced anxiety disorder
F1619' Hallucinogen abuse with unsp hallucinogen-induced disorder 'F1620' Hallucinogen dependence, uncomplicated 'F16220' Hallucinogen dependence with intoxication, uncomplicated 'F16221' Hallucinogen dependence with intoxication with delirium 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16183'	Hallucign abuse w hallucign persisting perception disorder
'F1620' Hallucinogen dependence, uncomplicated 'F16220' Hallucinogen dependence with intoxication, uncomplicated 'F16221' Hallucinogen dependence with intoxication with delirium 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w anxiety disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unsp with intoxication, unspecified	'F16188'	Hallucinogen abuse with other hallucinogen-induced disorder
'F16220' Hallucinogen dependence with intoxication, uncomplicated 'F16221' Hallucinogen dependence with intoxication with delirium 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w anxiety disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F1619'	Hallucinogen abuse with unsp hallucinogen-induced disorder
'F16221' Hallucinogen dependence with intoxication with delirium 'F16229' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w oth hallucinogen-induced disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F1620'	Hallucinogen dependence, uncomplicated
'F1629' Hallucinogen dependence with intoxication, unspecified 'F1624' Hallucinogen dependence w hallucinogen-induced mood disorder 'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w anxiety disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16220'	Hallucinogen dependence with intoxication, uncomplicated
'F1624'  Hallucinogen dependence w hallucinogen-induced mood disorder  'F16250'  Hallucinogen dependence w psychotic disorder w delusions  'F16251'  Hallucinogen dependence w psychotic disorder w hallucin  'F16259'  Hallucinogen dependence w psychotic disorder, unsp  'F16280'  Hallucinogen dependence w anxiety disorder  'F16283'  Hallucinogen dependence w at hallucinogen-induced disorder  'F16288'  Hallucinogen dependence w oth hallucinogen-induced disorder  'F1629'  Hallucinogen dependence w unsp hallucinogen-induced disorder  'F1690'  Hallucinogen use, unspecified, uncomplicated  'F16920'  Hallucinogen use, unsp with intoxication, uncomplicated  'F16921'  Hallucinogen use, unsp with intoxication with delirium  'F16929'  Hallucinogen use, unspecified with intoxication, unspecified	'F16221'	Hallucinogen dependence with intoxication with delirium
'F16250' Hallucinogen dependence w psychotic disorder w delusions 'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w anxiety disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16229'	Hallucinogen dependence with intoxication, unspecified
'F16251' Hallucinogen dependence w psychotic disorder w hallucin 'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w oth hallucinogen-induced disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F1624'	Hallucinogen dependence w hallucinogen-induced mood disorder
'F16259' Hallucinogen dependence w psychotic disorder, unsp 'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucinogen dependence w oth hallucinogen-induced disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16250'	Hallucinogen dependence w psychotic disorder w delusions
'F16280' Hallucinogen dependence w anxiety disorder 'F16283' Hallucign depend w hallucign persisting perception disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16251'	Hallucinogen dependence w psychotic disorder w hallucin
'F16283' Hallucign depend w hallucign persisting perception disorder 'F16288' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16259'	Hallucinogen dependence w psychotic disorder, unsp
'F1628' Hallucinogen dependence w oth hallucinogen-induced disorder 'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16280'	Hallucinogen dependence w anxiety disorder
'F1629' Hallucinogen dependence w unsp hallucinogen-induced disorder 'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16283'	Hallucign depend w hallucign persisting perception disorder
'F1690' Hallucinogen use, unspecified, uncomplicated 'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16288'	Hallucinogen dependence w oth hallucinogen-induced disorder
'F16920' Hallucinogen use, unsp with intoxication, uncomplicated 'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F1629'	Hallucinogen dependence w unsp hallucinogen-induced disorder
'F16921' Hallucinogen use, unsp with intoxication with delirium 'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F1690'	Hallucinogen use, unspecified, uncomplicated
'F16929' Hallucinogen use, unspecified with intoxication, unspecified	'F16920'	Hallucinogen use, unsp with intoxication, uncomplicated
	'F16921'	Hallucinogen use, unsp with intoxication with delirium
1540041	'F16929'	Hallucinogen use, unspecified with intoxication, unspecified
Hallucinogen use, unsp w hallucinogen-induced mood disorder	'F1694'	Hallucinogen use, unsp w hallucinogen-induced mood disorder
'F16950' Hallucinogen use, unsp w psychotic disorder w delusions	'F16950'	Hallucinogen use, unsp w psychotic disorder w delusions
'F16951' Hallucinogen use, unsp w psychotic disorder w hallucinations	'F16951'	Hallucinogen use, unsp w psychotic disorder w hallucinations
'F16959' Hallucinogen use, unsp w psychotic disorder, unsp	'F16959'	Hallucinogen use, unsp w psychotic disorder, unsp

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F16980'	Hallucinogen use, unsp w anxiety disorder
'F16983'	Hallucign use, unsp w hallucign persist perception disorder
'F16988'	Hallucinogen use, unsp w oth hallucinogen-induced disorder
'F1699'	Hallucinogen use, unsp w unsp hallucinogen-induced disorder
'T408X1A'	Poisoning by lysergide, accidental (unintentional), init
'T408X3A'	Poisoning by lysergide [LSD], assault, initial encounter
'T408X4A'	Poisoning by lysergide, undetermined, initial encounter
'T408X5A'	Adverse effect of lysergide [LSD] initial encounter
'T40901A'	Poisoning by unsp psychodyslept, accidental, init
'T40903A'	Poisoning by unsp psychodysleptics, assault, init encntr
'T40904A'	Poisoning by unsp psychodysleptics, undetermined, init
'T40905A'	Adverse effect of unspecified psychodysleptics, init encntr
'T40991A'	Poisoning by oth psychodyslept, accidental, init
'T40993A'	Poisoning by other psychodysleptics, assault, init encntr
'T40994A'	Poisoning by oth psychodysleptics, undetermined, init encntr
'T40995A'	Adverse effect of other psychodysleptics, initial encounter
'F1810'	Inhalant abuse, uncomplicated
'F18120'	Inhalant abuse with intoxication, uncomplicated
'F18121'	Inhalant abuse with intoxication delirium
'F18129'	Inhalant abuse with intoxication, unspecified
'F1814'	Inhalant abuse with inhalant-induced mood disorder
'F18150'	Inhalant abuse w inhalnt-induce psych disorder w delusions
'F18151'	Inhalant abuse w inhalnt-induce psych disorder w hallucin
'F18159'	Inhalant abuse w inhalant-induced psychotic disorder, unsp
'F1817'	Inhalant abuse with inhalant-induced dementia
'F18180'	Inhalant abuse with inhalant-induced anxiety disorder
'F18188'	Inhalant abuse with other inhalant-induced disorder
'F1819'	Inhalant abuse with unspecified inhalant-induced disorder
'F1820'	Inhalant dependence, uncomplicated
'F18220'	Inhalant dependence with intoxication, uncomplicated
'F18221'	Inhalant dependence with intoxication delirium
'F18229'	Inhalant dependence with intoxication, unspecified
'F1824'	Inhalant dependence with inhalant-induced mood disorder
'F18250'	Inhalant depend w inhalnt-induce psych disorder w delusions
'F18251'	Inhalant depend w inhalnt-induce psych disorder w hallucin
'F18259'	Inhalant depend w inhalnt-induce psychotic disorder, unsp
'F1827'	Inhalant dependence with inhalant-induced dementia
'F18280'	Inhalant dependence with inhalant-induced anxiety disorder
'F18288'	Inhalant dependence with other inhalant-induced disorder
'F1829'	Inhalant dependence with unsp inhalant-induced disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F1890'	Inhalant use, unspecified, uncomplicated
'F18920'	Inhalant use, unspecified with intoxication, uncomplicated
'F18921'	Inhalant use, unspecified with intoxication with delirium
'F18929'	Inhalant use, unspecified with intoxication, unspecified
'F1894'	Inhalant use, unsp with inhalant-induced mood disorder
'F18950'	Inhalant use, unsp w inhalnt-induce psych disord w delusions
'F18951'	Inhalant use, unsp w inhalnt-induce psych disord w hallucin
'F18959'	Inhalant use, unsp w inhalnt-induce psychotic disorder, unsp
'F1897'	Inhalant use, unsp with inhalant-induced persisting dementia
'F18980'	Inhalant use, unsp with inhalant-induced anxiety disorder
'F18988'	Inhalant use, unsp with other inhalant-induced disorder
'F1899'	Inhalant use, unsp with unsp inhalant-induced disorder
'F1110'	Opioid abuse, uncomplicated
'F11120'	Opioid abuse with intoxication, uncomplicated
'F11121'	Opioid abuse with intoxication delirium
'F11122'	Opioid abuse with intoxication with perceptual disturbance
'F11129'	Opioid abuse with intoxication, unspecified
'F1114'	Opioid abuse with opioid-induced mood disorder
'F11150'	Opioid abuse w opioid-induced psychotic disorder w delusions
'F11151'	Opioid abuse w opioid-induced psychotic disorder w hallucin
'F11159'	Opioid abuse with opioid-induced psychotic disorder, unsp
'F11181'	Opioid abuse with opioid-induced sexual dysfunction
'F11182'	Opioid abuse with opioid-induced sleep disorder
'F11188'	Opioid abuse with other opioid-induced disorder
'F1119'	Opioid abuse with unspecified opioid-induced disorder
'F1120'	Opioid dependence, uncomplicated
'F11220'	Opioid dependence with intoxication, uncomplicated
'F11221'	Opioid dependence with intoxication delirium
'F11222'	Opioid dependence w intoxication with perceptual disturbance
'F11229'	Opioid dependence with intoxication, unspecified
'F1123'	Opioid dependence with withdrawal
'F1124'	Opioid dependence with opioid-induced mood disorder
'F11250'	Opioid depend w opioid-induc psychotic disorder w delusions
'F11251'	Opioid depend w opioid-induc psychotic disorder w hallucin
'F11259'	Opioid dependence w opioid-induced psychotic disorder, unsp
'F11281'	Opioid dependence with opioid-induced sexual dysfunction
'F11282'	Opioid dependence with opioid-induced sleep disorder
'F11288'	Opioid dependence with other opioid-induced disorder
'F1129'	Opioid dependence with unspecified opioid-induced disorder
'F1190'	Opioid use, unspecified, uncomplicated

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F11920'	Opioid use, unspecified with intoxication, uncomplicated
'F11921'	Opioid use, unspecified with intoxication delirium
'F11922'	Opioid use, unsp w intoxication with perceptual disturbance
'F11929'	Opioid use, unspecified with intoxication, unspecified
'F1193'	Opioid use, unspecified with withdrawal
'F1194'	Opioid use, unspecified with opioid-induced mood disorder
'F11950'	Opioid use, unsp w opioid-induc psych disorder w delusions
'F11951'	Opioid use, unsp w opioid-induc psych disorder w hallucin
'F11959'	Opioid use, unsp w opioid-induced psychotic disorder, unsp
'F11981'	Opioid use, unsp with opioid-induced sexual dysfunction
'F11982'	Opioid use, unspecified with opioid-induced sleep disorder
'F11988'	Opioid use, unspecified with other opioid-induced disorder
'F1199'	Opioid use, unsp with unspecified opioid-induced disorder
'P961'	Neonatal w/drawal symp from matern use of drugs of addiction
'T400X1A'	Poisoning by opium, accidental (unintentional), init encntr
'T400X2A'	Poisoning by opium, intentional self-harm, initial encounter
'T400X3A'	Poisoning by opium, assault, initial encounter
'T400X4A'	Poisoning by opium, undetermined, initial encounter
'T400X5A'	Adverse effect of opium, initial encounter
'T401X1A'	Poisoning by heroin, accidental (unintentional), init encntr
'T401X2A'	Poisoning by heroin, intentional self-harm, init encntr
'T401X3A'	Poisoning by heroin, assault, initial encounter
'T401X4A'	Poisoning by heroin, undetermined, initial encounter
'T401X5A'	Adverse effect of heroin initial encounter
'T402X2A'	Poisoning by oth opioids, intentional self-harm, init encntr
'T403X2A'	Poisoning by methadone, intentional self-harm, init encntr
'T404X2A'	Poisoning by oth synthetic narcotics, self-harm, init
'T40602A'	Poisoning by unsp narcotics, intentional self-harm, init
'T40692A'	Poisoning by oth narcotics, intentional self-harm, init
'F1910'	Other psychoactive substance abuse, uncomplicated
'F19120'	Oth psychoactive substance abuse w intoxication, uncomp
'F19121'	Oth psychoactive substance abuse with intoxication delirium
'F19122'	Oth psychoactv substance abuse w intox w perceptual disturb
'F19129'	Other psychoactive substance abuse with intoxication, unsp
'F1914'	Oth psychoactive substance abuse w mood disorder
'F19150'	Oth psychoactv substance abuse w psych disorder w delusions
'F19151'	Oth psychoactv substance abuse w psych disorder w hallucin
'F19159'	Oth psychoactive substance abuse w psychotic disorder, unsp
'F1916'	Oth psychoactv substance abuse w persist amnestic disorder
'F1917'	Oth psychoactive substance abuse w persisting dementia

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F19180'	Oth psychoactive substance abuse w anxiety disorder
'F19181'	Oth psychoactive substance abuse w sexual dysfunction
'F19182'	Oth psychoactive substance abuse w sleep disorder
'F19188'	Oth psychoactive substance abuse w oth disorder
'F1919'	Oth psychoactive substance abuse w unsp disorder
'F1920'	Other psychoactive substance dependence, uncomplicated
'F19220'	Oth psychoactive substance dependence w intoxication, uncomp
'F19221'	Oth psychoactive substance dependence w intox delirium
'F19222'	Oth psychoactv substance depend w intox w perceptual disturb
'F19229'	Oth psychoactive substance dependence w intoxication, unsp
'F19230'	Oth psychoactive substance dependence w withdrawal, uncomp
'F19231'	Oth psychoactive substance dependence w withdrawal delirium
'F19232'	Oth psychoactv sub depend w w/drawal w perceptl disturb
'F19239'	Oth psychoactive substance dependence with withdrawal, unsp
'F1924'	Oth psychoactive substance dependence w mood disorder
'F19250'	Oth psychoactv substance depend w psych disorder w delusions
'F19251'	Oth psychoactv substance depend w psych disorder w hallucin
'F19259'	Oth psychoactv substance depend w psychotic disorder, unsp
'F1926'	Oth psychoactv substance depend w persist amnestic disorder
'F1927'	Oth psychoactive substance dependence w persisting dementia
'F19280'	Oth psychoactive substance dependence w anxiety disorder
'F19281'	Oth psychoactive substance dependence w sexual dysfunction
'F19282'	Oth psychoactive substance dependence w sleep disorder
'F19288'	Oth psychoactive substance dependence w oth disorder
'F1929'	Oth psychoactive substance dependence w unsp disorder
'F1990'	Other psychoactive substance use, unspecified, uncomplicated
'F19920'	Oth psychoactive substance use, unsp w intoxication, uncomp
'F19921'	Oth psychoactive substance use, unsp w intox w delirium
'F19922'	Oth psychoactv sub use, unsp w intox w perceptl disturb
'F19929'	Oth psychoactive substance use, unsp with intoxication, unsp
'F19930'	Oth psychoactive substance use, unsp w withdrawal, uncomp
'F19931'	Oth psychoactive substance use, unsp w withdrawal delirium
'F19932'	Oth psychoactv sub use, unsp w w/drawal w perceptl disturb
'F19939'	Other psychoactive substance use, unsp with withdrawal, unsp
'F1994'	Oth psychoactive substance use, unsp w mood disorder
'F19950'	Oth psychoactv sub use, unsp w psych disorder w delusions
'F19951'	Oth psychoactv sub use, unsp w psych disorder w hallucin
'F19959'	Oth psychoactv substance use, unsp w psych disorder, unsp
'F1996'	Oth psychoactv sub use, unsp w persist amnestic disorder
'F1997'	Oth psychoactive substance use, unsp w persisting dementia

-19981'	Oth psychoactive substance use, unsp w anxiety disorder Oth psychoactive substance use, unsp w sexual dysfunction Oth psychoactive substance use, unsp w sleep disorder
-10082'	Oth psychoactive substance use, unsp w sleep disorder
19902	
=19988'	Oth psychoactive substance use, unsp w oth disorder
=1999'	Oth psychoactive substance use, unsp w unsp disorder
550'	Abuse of antacids
551'	Abuse of herbal or folk remedies
552'	Abuse of laxatives
553'	Abuse of steroids or hormones
=554'	Abuse of vitamins
558'	Abuse of other non-psychoactive substances
=630' I	Pathological gambling
O355XX0'	Maternal care for (suspected) damage to fetus by drugs, unsp
O355XX1'	Maternal care for damage to fetus by drugs, fetus 1
O355XX2'	Maternal care for damage to fetus by drugs, fetus 2
O355XX3'	Maternal care for damage to fetus by drugs, fetus 3
O355XX4'	Maternal care for damage to fetus by drugs, fetus 4
O355XX5'	Maternal care for damage to fetus by drugs, fetus 5
O355XX9'	Maternal care for (suspected) damage to fetus by drugs, oth
D99320'	Drug use complicating pregnancy, unspecified trimester
D99321'	Drug use complicating pregnancy, first trimester
D99322'	Drug use complicating pregnancy, second trimester
D99323'	Drug use complicating pregnancy, third trimester
D99324'	Drug use complicating childbirth
D99325'	Drug use complicating the puerperium
P0449'	Newborn affected by maternal use of other drugs of addiction
P962'	Withdrawal symptoms from therapeutic use of drugs in newborn
=1310'	Sedative, hypnotic or anxiolytic abuse, uncomplicated
=13120'	Sedatv/hyp/anxiolytc abuse w intoxication, uncomplicated
<del>-</del> 13121'	Sedatv/hyp/anxiolytc abuse w intoxication delirium
=13129'	Sedative, hypnotic or anxiolytic abuse w intoxication, unsp
=1314'	Sedative, hypnotic or anxiolytic abuse w mood disorder
=13150'	Sedatv/hyp/anxiolytc abuse w psychotic disorder w delusions
=13151'	Sedatv/hyp/anxiolytc abuse w psychotic disorder w hallucin
-13159'	Sedatv/hyp/anxiolytc abuse w psychotic disorder, unsp
=13180'	Sedative, hypnotic or anxiolytic abuse w anxiety disorder
=13181'	Sedative, hypnotic or anxiolytic abuse w sexual dysfunction
=13182'	Sedative, hypnotic or anxiolytic abuse w sleep disorder
-13188'	Sedative, hypnotic or anxiolytic abuse w oth disorder
=1319'	Sedative, hypnotic or anxiolytic abuse w unsp disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F1320'	Sedative, hypnotic or anxiolytic dependence, uncomplicated
'F13220'	Sedatv/hyp/anxiolytc dependence w intoxication, uncomp
'F13221'	Sedatv/hyp/anxiolytc dependence w intoxication delirium
'F13229'	Sedatv/hyp/anxiolytc dependence w intoxication, unsp
'F13230'	Sedatv/hyp/anxiolytc dependence w withdrawal, uncomplicated
'F13231'	Sedatv/hyp/anxiolytc dependence w withdrawal delirium
'F13232'	Sedatv/hyp/anxiolytc depend w w/drawal w perceptual disturb
'F13239'	Sedatv/hyp/anxiolytc dependence w withdrawal, unsp
'F1324'	Sedative, hypnotic or anxiolytic dependence w mood disorder
'F13250'	Sedatv/hyp/anxiolytc depend w psychotic disorder w delusions
'F13251'	Sedatv/hyp/anxiolytc depend w psychotic disorder w hallucin
'F13259'	Sedatv/hyp/anxiolytc dependence w psychotic disorder, unsp
'F1326'	Sedatv/hyp/anxiolytc depend w persisting amnestic disorder
'F1327'	Sedatv/hyp/anxiolytc dependence w persisting dementia
'F13280'	Sedatv/hyp/anxiolytc dependence w anxiety disorder
'F13281'	Sedatv/hyp/anxiolytc dependence w sexual dysfunction
'F13282'	Sedative, hypnotic or anxiolytic dependence w sleep disorder
'F13288'	Sedative, hypnotic or anxiolytic dependence w oth disorder
'F1329'	Sedative, hypnotic or anxiolytic dependence w unsp disorder
'F1390'	Sedative, hypnotic, or anxiolytic use, unsp, uncomplicated
'F13920'	Sedatv/hyp/anxiolytc use, unsp w intoxication, uncomplicated
'F13921'	Sedatv/hyp/anxiolytc use, unsp w intoxication delirium
'F13929'	Sedatv/hyp/anxiolytc use, unsp w intoxication, unsp
'F13930'	Sedatv/hyp/anxiolytc use, unsp w withdrawal, uncomplicated
'F13931'	Sedatv/hyp/anxiolytc use, unsp w withdrawal delirium
'F13932'	Sedatv/hyp/anxiolytc use, unsp w w/drawal w perceptl disturb
'F13939'	Sedatv/hyp/anxiolytc use, unsp w withdrawal, unsp
'F1394'	Sedative, hypnotic or anxiolytic use, unsp w mood disorder
'F13950'	Sedatv/hyp/anxiolytc use, unsp w psych disorder w delusions
'F13951'	Sedatv/hyp/anxiolytc use, unsp w psych disorder w hallucin
'F13959'	Sedatv/hyp/anxiolytc use, unsp w psychotic disorder, unsp
'F1396'	Sedatv/hyp/anxiolytc use, unsp w persist amnestic disorder
'F1397'	Sedatv/hyp/anxiolytc use, unsp w persisting dementia
'F13980'	Sedatv/hyp/anxiolytc use, unsp w anxiety disorder
'F13981'	Sedatv/hyp/anxiolytc use, unsp w sexual dysfunction
'F13982'	Sedative, hypnotic or anxiolytic use, unsp w sleep disorder
'F13988'	Sedative, hypnotic or anxiolytic use, unsp w oth disorder
'F1399'	Sedative, hypnotic or anxiolytic use, unsp w unsp disorder
'F1410'	Cocaine abuse, uncomplicated
'F14120'	Cocaine abuse with intoxication, uncomplicated

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F14121'	Cocaine abuse with intoxication with delirium
'F14122'	Cocaine abuse with intoxication with perceptual disturbance
'F14129'	Cocaine abuse with intoxication, unspecified
'F1414'	Cocaine abuse with cocaine-induced mood disorder
'F14150'	Cocaine abuse w cocaine-induc psychotic disorder w delusions
'F14151'	Cocaine abuse w cocaine-induc psychotic disorder w hallucin
'F14159'	Cocaine abuse with cocaine-induced psychotic disorder, unsp
'F14180'	Cocaine abuse with cocaine-induced anxiety disorder
'F14181'	Cocaine abuse with cocaine-induced sexual dysfunction
'F14182'	Cocaine abuse with cocaine-induced sleep disorder
'F14188'	Cocaine abuse with other cocaine-induced disorder
'F1419'	Cocaine abuse with unspecified cocaine-induced disorder
'F1420'	Cocaine dependence, uncomplicated
'F14220'	Cocaine dependence with intoxication, uncomplicated
'F14221'	Cocaine dependence with intoxication delirium
'F14222'	Cocaine dependence w intoxication w perceptual disturbance
'F14229'	Cocaine dependence with intoxication, unspecified
'F1423'	Cocaine dependence with withdrawal
'F1424'	Cocaine dependence with cocaine-induced mood disorder
'F14250'	Cocaine depend w cocaine-induc psych disorder w delusions
'F14251'	Cocaine depend w cocaine-induc psychotic disorder w hallucin
'F14259'	Cocaine dependence w cocaine-induc psychotic disorder, unsp
'F14280'	Cocaine dependence with cocaine-induced anxiety disorder
'F14281'	Cocaine dependence with cocaine-induced sexual dysfunction
'F14282'	Cocaine dependence with cocaine-induced sleep disorder
'F14288'	Cocaine dependence with other cocaine-induced disorder
'F1429'	Cocaine dependence with unspecified cocaine-induced disorder
'F1490'	Cocaine use, unspecified, uncomplicated
'F14920'	Cocaine use, unspecified with intoxication, uncomplicated
'F14921'	Cocaine use, unspecified with intoxication delirium
'F14922'	Cocaine use, unsp w intoxication with perceptual disturbance
'F14929'	Cocaine use, unspecified with intoxication, unspecified
'F1494'	Cocaine use, unspecified with cocaine-induced mood disorder
'F14950'	Cocaine use, unsp w cocaine-induc psych disorder w delusions
'F14951'	Cocaine use, unsp w cocaine-induc psych disorder w hallucin
'F14959'	Cocaine use, unsp w cocaine-induced psychotic disorder, unsp
'F14980'	Cocaine use, unsp with cocaine-induced anxiety disorder
'F14981'	Cocaine use, unsp with cocaine-induced sexual dysfunction
'F14982'	Cocaine use, unspecified with cocaine-induced sleep disorder
'F14988'	Cocaine use, unspecified with other cocaine-induced disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F1499'	Cocaine use, unsp with unspecified cocaine-induced disorder
'F1510'	Other stimulant abuse, uncomplicated
'F15120'	Other stimulant abuse with intoxication, uncomplicated
'F15121'	Other stimulant abuse with intoxication delirium
'F15122'	Oth stimulant abuse w intoxication w perceptual disturbance
'F15129'	Other stimulant abuse with intoxication, unspecified
'F1514'	Other stimulant abuse with stimulant-induced mood disorder
'F15150'	Oth stimulant abuse w stim-induce psych disorder w delusions
'F15151'	Oth stimulant abuse w stim-induce psych disorder w hallucin
'F15159'	Oth stimulant abuse w stim-induce psychotic disorder, unsp
'F15180'	Oth stimulant abuse with stimulant-induced anxiety disorder
'F15181'	Oth stimulant abuse w stimulant-induced sexual dysfunction
'F15182'	Other stimulant abuse with stimulant-induced sleep disorder
'F15188'	Other stimulant abuse with other stimulant-induced disorder
'F1519'	Other stimulant abuse with unsp stimulant-induced disorder
'F1520'	Other stimulant dependence, uncomplicated
'F15220'	Other stimulant dependence with intoxication, uncomplicated
'F15221'	Other stimulant dependence with intoxication delirium
'F15222'	Oth stimulant dependence w intox w perceptual disturbance
'F15229'	Other stimulant dependence with intoxication, unspecified
'F1523'	Other stimulant dependence with withdrawal
'F1524'	Oth stimulant dependence w stimulant-induced mood disorder
'F15250'	Oth stim depend w stim-induce psych disorder w delusions
'F15251'	Oth stimulant depend w stim-induce psych disorder w hallucin
'F15259'	Oth stimulant depend w stim-induce psychotic disorder, unsp
'F15280'	Oth stimulant dependence w stim-induce anxiety disorder
'F15281'	Oth stimulant dependence w stim-induce sexual dysfunction
'F15282'	Oth stimulant dependence w stimulant-induced sleep disorder
'F15288'	Oth stimulant dependence with oth stimulant-induced disorder
'F1529'	Oth stimulant dependence w unsp stimulant-induced disorder
'F1590'	Other stimulant use, unspecified, uncomplicated
'F15920'	Other stimulant use, unsp with intoxication, uncomplicated
'F15921'	Other stimulant use, unspecified with intoxication delirium
'F15922'	Oth stimulant use, unsp w intox w perceptual disturbance
'F15929'	Other stimulant use, unsp with intoxication, unspecified
'F1594'	Oth stimulant use, unsp with stimulant-induced mood disorder
'F15950'	Oth stim use, unsp w stim-induce psych disorder w delusions
'F15951'	Oth stim use, unsp w stim-induce psych disorder w hallucin
'F15959'	Oth stimulant use, unsp w stim-induce psych disorder, unsp
'F15980'	Oth stimulant use, unsp w stimulant-induced anxiety disorder

ICD-10-CM DIAGNOSIS	DESCRIPTION
'F15981'	Oth stimulant use, unsp w stim-induce sexual dysfunction
'F15982'	Oth stimulant use, unsp w stimulant-induced sleep disorder
'F15988'	Oth stimulant use, unsp with oth stimulant-induced disorder
'F1599'	Oth stimulant use, unsp with unsp stimulant-induced disorder
'P0441'	Newborn affected by maternal use of cocaine
'T405X1A'	Poisoning by cocaine, accidental (unintentional), init
'T405X3A'	Poisoning by cocaine, assault, initial encounter
'T405X4A'	Poisoning by cocaine, undetermined, initial encounter
'T405X5A'	Adverse effect of cocaine, initial encounter

# <u>Dental Conditions ICD-10-CM Diagnosis Codes</u>

K000, K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K011, K023, K0251, K0252, K0253, K0261, K0262, K0263, K027, K029, K030, K031, K032, K033, K034, K035, K036, K037, K0381, K0389, K039, K0401, K0402, K041, K042, K043, K044, K045, K046, K047, K048, K0490, K0499, K0500, K0501, K0510, K0511, K0520, K05211, K05212, K05213, K05219, K05221, K05222, K05223, K05229, K0530, K05311, K05312, K05313, K05319, K05321, K05322, K05323, K05329, K054, K055, K056, K06010, K06011, K06012, K06013, K06020, K06021, K06022, K06023, K061, K062, K063, K068, K069.

## Injury ICD-10-CM Diagnosis Codes

S00-S99; T07-T34; T36-T50 with a 6th character of 1,2, 3, or 4 (except T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 with a 5th character of 1, 2, 3, or 4); T51-T65; T66-T76; T79; T84.01; T84.02; and O9A.2-O9A.5.

## **APPENDIX C: STATISTICAL METHODS**

This appendix explains the statistical methods and gives formulas for the calculations of standard errors and hypothesis tests. These statistics are derived from weighted SID and demographic population data provided by Claritas (a vendor that compiles and adds value to Bureau of Census data). Standard error calculations for the rates were based on the HCUP report entitled *Inferences with HCUP State Databases Final Report* (Houchens, et al., 2010). We will refer to this report simply as the SID Variance Report throughout this appendix. This method takes into account the cluster and stratification aspects when calculating these statistics on weighted data using the SAS procedure PROC SURVEYMEANS. For population counts based on Claritas data, there is no sampling error.

Even though the SID databases contain nearly all discharges from nearly all hospitals in the State, we treat the files as though they were drawn from an infinite population. We do not employ finite population correction factors in estimating standard errors. We take this approach because we view the outcomes as a result of myriad processes that go into treatment decisions rather than being the result of specific, fixed processes generating outcomes for a specific population and a specific year. We consider the SID to be samples from a "super-population" for purposes of variance estimation. Further, we assume the counts (of QI events) to be binomial.

# 1. Standard Error Estimates for Weighted Discharge Rates per 100,000 Population Using the 2016 Claritas Population Data for Area-Based Qls

The observed rate was calculated as follows:

$$R = 100,000 \cdot \frac{\sum_{i=1}^{n} w_i x_i}{N} = 100,000 \cdot \frac{S}{N}.$$
 (2.1)

 $w_i$  and  $x_i$ , respectively, are the weight and variable of interest for patient i in the QDR analysis file or SID. To obtain the estimate of S and its standard error,  $SE_S$ , we followed instructions in the SID Variance Report.

The population count in the denominator is a constant. Consequently, the standard error of the rate *R* was calculated as:

$$SE_R = 100,000 * SE_S / N.$$
 (2.2)

Standard Error Estimates for Inpatient Rates per 1,000 Discharges Using Weighted Discharge Counts in Both the Numerator and the Denominator for Provider-based QIs

We calculated the observed rate as follows:

$$R = 1,000 \cdot \frac{\sum_{i=1}^{n} w_i x_i}{\sum_{i=1}^{n} w_i} = 1,000 \cdot \frac{S}{N}.$$
 (2.6)

Following instructions in the HCUP SID Variance Report, we used PROC SURVEYMEANS to obtain estimates of the weighted mean, S/N, and the standard error of the weighted mean,  $SE_{S/N}$ . We multiplied this standard error by 1,000.

# 2. Significance Tests

Let  $R_1$  and  $R_2$  be either observed or adjusted rates calculated for comparison groups 1 and 2, respectively. Let  $SE_1$  and  $SE_2$  be the corresponding standard errors for the two rates. We calculated the test statistic and (two-sided) p-value:

$$t = \frac{R_1 - R_2}{|SE_1^2 + SE_2^2|}$$
 (2.10)  
$$p = 2 * \text{Prob}(Z > |t|)$$

where Z is a standard normal variate.

Note: the following functions calculate *p* in SAS and EXCEL:

SAS: p = 2 \* (1 - PROBNORM(ABS(t)));

EXCEL: = 2\*(1-NORMDIST(ABS(t),0,1,TRUE))

# APPENDIX D: CAVEATS TO THE INTREPRETATION OF HCUP-BASED QI ESTIMATES REPORTED IN THE QDR

Some caution should be used in interpreting the QI statistics presented in the QDR. These caveats relate to inter-State differences in data collection and other more general issues.

## **State-Specific Rates**

Organizations that collect statewide data generally collect data using the Uniform Billing formats (UB-92 or UB-04). However, not every statewide data organization collects all data elements nor codes them the same way. Uneven availability of a few data elements can underlie HCUP estimates, as noted next.

## Number of Clinical Fields

One data collection issue relates to the number of fields that statewide data organizations permit for reporting patient diagnoses and procedures during the hospitalization. The mean number of diagnosis codes across all records in the 2016 SID used for the QDR was 10.6, while the mean number of procedure codes across all records was 1.6. Across the 2016 SID used for the QDR, there was a maximum of 72 diagnosis and 76 procedure fields.

#### Non-Resident Discharges

HCUP databases include discharges from all hospitals in a State, and may include non-residents, including foreign patients, which can bias the results for QIs using area-based denominators (State populations). We had no way to adjust the HCUP data to consistently exclude the non-resident discharges and include discharges for residents hospitalized in other States. Therefore, non-resident discharges were retained in the SID databases for the QDR analyses. Based on an analysis performed with the 2016 SID, the overall percentage of non-resident discharges within a State is 4 percent with a range from 1 percent to 45 percent. Most States were below 10 percent, but six States (MO, ND, SD, TN, VT, WV) and the District of Columbia had more than 10 percent of discharges in the SID that were for non-residents. The proportion of non-resident discharges and range across States in the 2016 SID is similar to that observed in prior years.