

# Massachusetts Acute Care Hospital Emergency Department Data

FFY 2016-2019

September 2021

Technical Appendix



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# Massachusetts Acute Care Hospital Emergency Department Data: FFY 2016 to 2019

(September 2021)

## TECHNICAL APPENDIX

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## Introduction

This technical appendix provides details on the methodology used for the report [Massachusetts Acute Care Hospital Emergency Department Data: FFY 2016-2019](#) released by the Massachusetts Center for Health Information and Analysis (CHIA) in September 2021. This appendix describes the main characteristics of emergency departments (EDs) of Massachusetts acute care hospitals, as well as details on several of the calculated measures, data categorizations, and groupings used in the report.

## Data Source

For this report, CHIA's Acute Hospital Case Mix Database was used as the primary source data. This database includes patient socio-demographics, diagnostic information, treatment and service information, and hospital charges for all inpatient hospital admissions, ED visits, and outpatient observation stays at all 61 acute care hospitals in Massachusetts. The data are submitted to CHIA quarterly by the hospitals and undergo a cleaning and verification process at CHIA that includes the feedback of verification reports to hospitals for confirmation of their information. Once quarterly data have been processed and verified, CHIA produces and makes available annual files.

Data on ED visits from years Federal Fiscal Year (FFY) 2016 – FFY 2019 were used in this report. The main analyses for this report (Sections 1-4) include ED Visits from all three components of the Case Mix database: the Hospital Inpatient Discharge Database (HIDD), for ED visits that resulted in inpatient admission; the Outpatient Observation Database (OOD), for ED visits resulting in an observation stay but no inpatient admission; and the Emergency Department Database (EDD), for ED visits resulting in neither an inpatient admission nor an observation stay (treat-and-release visits). Section 5: Treat-and-Release Visit Characteristics and Utilization includes only ED visits from the EDD.

For general information about CHIA's Case Mix Data, including overviews of the EDD, HIDD, and OOD databases, please see the [Overview of the Massachusetts Acute Hospital Case Mix Databases](#) and additional information about the Case Mix data on [CHIA's website](#).

## Hospital Characteristics

57 of the 61 acute care hospitals in Massachusetts are associated with one or more ED campuses. Hospital characteristics are assessed at the end of the state fiscal year.

### Hospital Cohort

Hospitals are assigned to one of five mutually exclusive groups of similar hospitals: academic medical centers (AMCs), teaching hospitals, community-High Public Payer (HPP) hospitals, other community hospitals, and specialty hospitals.

- AMCs are characterized by extensive research and teaching programs, comprehensive resources for tertiary and quaternary care, being principal teaching hospitals for their respective medical schools, and being full service hospitals with case mix intensity greater than 5% above the statewide average.
- Teaching hospitals are hospitals that report at least 25 full-time equivalent medical school residents per one hundred inpatient beds in accordance with the Medicare Payment Advisory Commission (MedPAC) and are not classified as AMCs.

- Community-High Public Payer (HPP) hospitals are hospitals that do not meet the MedPAC definition to be classified as teaching hospitals and have 63% or greater of Gross Patient Service Revenue (GPSR) attributable to Medicare, MassHealth, and other government payers, including the Health Safety Net.
- Community hospitals are hospitals that do not meet the MedPAC definition to be classified as teaching hospitals and have a public payer mix of less than 63%.
- Specialty hospitals are hospitals that serve unique patient populations or provide unique sets of services.

### **High Public Payer Hospitals**

A hospital is classified as High Public Payer (HPP) if 63% or greater of its GPSR come from public or government payers such as Medicare, MassHealth or other government payers, as determined by the Executive Office of Health and Human Services (EOHHS) based on the hospital's Massachusetts Hospital Cost Report. Not all hospitals defined as HPP are Community-HPP; some non-Community hospitals are classified as HPP, but this distinction is not made in the cohort classification.

### **Trauma Designation**

For this report, visits were categorized by hospital trauma designation approved by the Massachusetts Department of Public Health (DPH) and verified by the American College of Surgeons (ACS).<sup>1</sup> Trauma designations for hospitals in this report included level I (highest), level II, and level III. Visits to hospitals without a trauma designation were grouped as “non-trauma”. In 2019, there were 9 adult and 4 pediatric trauma level I designated hospitals, 1 adult and 2 pediatric level II trauma designated hospitals, and 8 adult and 0 pediatric level III trauma designated hospitals.

## **Calculated Measures**

### **Age**

Patient age in years was calculated from the date and time of arrival to the ED and the patient's date of birth. Visits were suppressed from the report if the date of birth was missing or invalid, or if the calculated age exceeded 115 years. The number of visits with missing age data was 81 in FFY 2016, 240 in FFY 2017, 256 in FFY 2018, and 318 in FFY 2019.

### **Visits per 100,000 Persons**

Visit rates per 100,000 persons were calculated for each of the 5 Emergency Medical Services (EMS) regions in Massachusetts by dividing the number of visits for each Massachusetts EMS region in 2019 by the total number of people, based on population estimates from 2019 American Community Survey (ACS) 5-Year Population Estimates,<sup>2</sup> then multiplying by 100,000. EMS regions are designated by the Executive Office of Health and Human Services (EOHHS) by Massachusetts city or town [3]. Visits were assigned to EMS regions using geographic information for the patient's permanent residence as provided at the visit. Visits with a valid two-character permanent state code of Massachusetts and valid city/town were assigned to an EMS region by city/town. Visits with missing or invalid state or city/town information but a valid Massachusetts ZIP code were mapped to the town(s) or city(s) corresponding to that ZIP code, and subsequently assigned to an EMS region. A small number of Massachusetts ZIP codes include

portions of more than one city or town; however, this did not result in any ambiguous EMS region assignments. The ACS 5-Year estimates are provided at the town and city level and are aggregated to EMS regions.

Notes about the visits per 100,000 measure used in the report:

- The calculated visit rates for 2019 excluded 152,528 visits with out-of-state, missing, or invalid address information. Because some of these visits may have been for patients who were Massachusetts residents, the calculated visit rates may slightly underestimate the true visit rates.
- The visit rate reflects only visits from Massachusetts acute care hospitals. It does not include visits for Massachusetts residents in out-of-state hospitals.

## Length of Stay

Length of stay (LOS) was only reported among treat-and-release visits in the EDD database. LOS was calculated by subtracting the arrival date and time from the departure date and time. (Visits for which the dates and times were the same would therefore be coded as having a length of stay of 0 hours.) Average length of stay (ALOS) is an aggregate measure of the mean LOS within a category or group.

Notes about the LOS and ALOS measures used in the report:

- No outliers were removed when calculating LOS or ALOS.
- Three hospitals were noted to have a data anomaly in which 95% or more of visits had registration times listed as midnight during all four quarters of FFY2018 and the third quarter of FFY2019, whereas other hospital data-quarters typically had 1% or fewer of registration times listed as midnight. All visits from the five anomalous hospital data-quarters were removed when calculating the length of stay.

The number of treat-and-release visits with missing LOS due to missing date of arrival, missing date of departure, or removal was 7,408 (0.3%) in FFY 2016, 5,136 (0.2%) in FFY 2017, 163,843 (6.7%) in FFY 2018, and 45,207 (1.9%) in 2019.

## Excess Length of Stay

Excess length of stay (excess LOS) was only reported among treat-and-release visits in the EDD database. Excess LOS is a measure designed in consultation with clinicians to capture prolonged stays in the ED and is defined as a length of stay exceeding 4 hours. Excess LOS is calculated by subtracting 4 from the calculated LOS; visits with a remaining LOS greater than 0 were considered to have excess LOS. Visits with missing LOS were also missing excess LOS.

## Data Categorizations and Groupings

### Gender

The number of visits with missing or unknown gender in was 36 in FFY 2016, 40 in FFY 2017, 97 in FFY 2018, and 174 in 2019.

### Race/Ethnicity

Patient race and ethnicity were classified using a hierarchical grouping based on information entered by the facility. First, any patients of Hispanic/Latino/Spanish culture or origin regardless of race were classified as Hispanic of Any Race. Next, patients with valid primary race variables and were not multiple races were classified as non-Hispanic White, non-Hispanic Black, non-Hispanic Asian, non-Hispanic American Indian/Alaska Native, non-Hispanic Native Hawaiian/Other Pacific Islander. Patients classified as Other Race or who had more than one race indicated were classified as non-Hispanic Other or Multiple Races. Due to small population sizes, non-Hispanic American Indian/Alaska Native and non-Hispanic Native Hawaiian/Other Pacific Islander are reported together with non-Hispanic Other or Multiple Races in the report, but these groups are reported separately in the databook. Visits that could not be classified into any of the above groups due to missing or invalid race/ethnicity information are reported as Missing.

### **EMS Region<sup>3</sup>**

EMS regions are designated by the Executive Office of Health and Human Services (EOHHS) by Massachusetts city or town. Visits were assigned to EMS regions using geographic information for the patient's permanent residence as provided at the visit. Visits with a valid two-character permanent state code of Massachusetts and valid city/town were assigned to an EMS region by city/town. Visits with missing or invalid state or city/town information but a valid Massachusetts ZIP code were mapped to the town(s) or city(s) corresponding to that ZIP code, and subsequently assigned to an EMS region. A small number of Massachusetts ZIP codes include portions of more than one city or town; however, this did not result in any ambiguous EMS region assignments. Visits with two-character state identification codes representing states other than Massachusetts within the United States were categorized as out-of-state. The number of visits with missing or foreign address information was 42,254 in FFY 2016, 27,473 in FFY 2017, 28,165 in FFY 2018, and 25,953 in FFY 2019.

### **Payer Type**

Payer type is the expected primary payer on the visit as reported by the hospital. For this analysis, payer type categories were derived from payer source codes. Payer type categories were assigned as one of the following:

- Medicaid: MassHealth, including Medicaid managed care, or Commonwealth Care
- Medicare: Fee-for-service Medicare or managed care Medicare
- Commercial: Blue Cross and Blue Cross Managed Care, Commercial Insurance and Commercial Managed Care, HMO, PPO/Other managed care plans not elsewhere classified, point-of-service plans, exclusive provider organizations, and other non-managed care plans
- Other: Worker's Compensation, Other Government Payment, Auto Insurance, and Dental Plans, Self-Pay, Free Care, and Health Safety Net

The number of visits with missing expected primary payer type was 218 in FFY 2016, 134 in FFY 2017, 84 in FFY 2018, and 274 in 2019.

## Discharge Setting

Departure status was only reported among treat-and-release visits in the EDD database. CHIA defined departure status as reported by ED facility. This field identifies the disposition and destination of the patient after departure from the ED. Departure status information reported by the facility was classified into one of five mutually exclusive categories:

- **Routine:** To home or usual place of residence
- **Transferred:** Transferred to other facility
- **AMA:** Patient departed the facility against medical advice
- **Eloped:** Patient departed the facility unsupervised and unprotected
- **Other:** Dead on arrival (with or without resuscitative efforts in the ED), Died during ED visit, Within hospital clinic referral, Patient met personal physician in the ED (not seen by staff)

The number of visits with missing departure status was 189 in FFY 2016, 157 in FFY 2017, 164 in FFY 2018, and 1,202 in FFY 2019.

## Clinical Classifications Software Refined (CCSR) for ICD-10-CM Diagnoses<sup>4</sup>

The CCSR for ICD-10-CM diagnoses was developed by Agency for Healthcare Research and Quality (AHRQ) and aggregates over 70,000 ICD-10-CM diagnosis codes into over 530 clinically meaningful categories, organized across 21 body systems. For this analysis, visits are classified into mutually exclusive categories based on the default outpatient CCSR category for the listed primary ICD-10-CM diagnosis code. This report uses CCSR v. 2021.1.

## Age Group and Obstetric Status

Visits were grouped into one of three mutually exclusive groups: age 0-17, age 18 or older with an obstetric primary diagnosis, and age 18 or older without an obstetric primary diagnosis. The number of visits missing age and obstetric data was 81 in FFY 2016, 240 in FFY 2017, 256 in FFY 2018, and 318 in FFY 2019.

Visits were classified into one of these groups based on age at the time of arrival (0-17 or 18+) and whether the visit was identified as an obstetric visit using the Clinical Classifications Software Refined (CCSR) [4] for the principal ICD-10-CM diagnosis. [CCSR categories used to identify obstetric care](#) were defined as follows:

**Table 1. CCSR Categories Associated with Obstetric Care**

| CCSR CATEGORY | DESCRIPTION  |
|---------------|--|
| FAC013        | Contraceptive and procreative management                       |
| PRG001        | Antenatal screening  |
| PRG002        | Gestational weeks  |
| PRG003        | Spontaneous abortion and complications of spontaneous abortion |
| PRG004        | Induced abortion and complications of termination of pregnancy |
| PRG005        | Ectopic pregnancy and complications of ectopic pregnancy       |
| PRG006        | Molar pregnancy and other abnormal products of conception      |
| PRG007        | Complications following ectopic and/or molar pregnancy         |

| CCSR CATEGORY | DESCRIPTION   |
|---------------|---|
| PRG008        | Supervision of high-risk pregnancy  |
| PRG009        | Early, first or unspecified trimester hemorrhage  |
| PRG010        | Hemorrhage after first trimester  |
| PRG011        | Early or threatened labor   |
| PRG012        | Multiple gestation  |
| PRG013        | Maternal care related to fetal conditions   |
| PRG014        | Polyhydramnios and other problems of amniotic cavity  |
| PRG015        | Obstetric history affecting care in pregnancy   |
| PRG016        | Previous C-section  |
| PRG017        | Maternal care for abnormality of pelvic organs  |
| PRG018        | Maternal care related to disorders of the placenta and placental implantation   |
| PRG019        | Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium<br>Hypertension and hypertensive-related conditions complicating pregnancy; childbirth; and the puerperium |
| PRG020        |   |
| PRG021        | Maternal intrauterine infection   |
| PRG022        | Prolonged pregnancy   |
| PRG023        | Complications specified during childbirth   |
| PRG024        | Malposition, disproportion or other labor complications   |
| PRG025        | Anesthesia complications during pregnancy   |
| PRG026        | OB-related trauma to perineum and vulva   |
| PRG027        | Complications specified during the puerperium   |
| PRG028        | Other specified complications in pregnancy  |
| PRG029        | Uncomplicated pregnancy, delivery or puerperium   |
| PRG030        | Maternal outcome of delivery  |

## Behavioral Health

For this analysis, visits were categorized into clinical meaningful behavioral health (BH) categories based on the listed primary diagnosis code using the CCSR categories for ICD-10-CM diagnoses defined by AHRQ as related to behavioral health [4]. Because ICD-10-CM diagnoses may be associated with more than one CCSR category, some visits were classified into more than one BH category.

**Table 2. CCSR Categories Associated with Behavioral Health**

| OVERALL CATEGORY | DIAGNOSIS CATEGORY | CCSR CATEGORIES | CCSR DESCRIPTION                                      |
|------------------|--------------------|-----------------|---|
| Mental Health    | Mood               | MBD002          | Depressive disorders                                  |
|                  |                    | MBD003          | Bipolar and related disorders                         |
|                  |                    | MBD004          | Other specified and unspecified mood disorders        |
|                  | Anxiety            | MBD005          | Anxiety and fear-related disorders                    |
|                  |                    | MBD006          | Obsessive-compulsive and related disorders            |
|                  | Adjustment         | MBD007          | Trauma and stressor-related disorders                 |
|                  | Suicide            | MBD012          | Suicidal ideation, attempt, and intentional self-harm |



|               |                     |  |  |
|---------------|---------------------|--|--|
|               |                     | <b>MBD027</b>                                    | Suicide attempt or intentional self-harm, subsequent encounter |
|               | Schizophrenia       | <b>MBD001</b>                                    | Schizophrenia and other psychotic disorders                    |
|               | Personality         | <b>MBD009</b>                                    | Personality disorders  |
|               | Impulse             | <b>MBD008</b>                                    | Disruptive, impulse-control and conduct disorders              |
|               | Other Mental Health | <b>MBD010</b>                                    | Feeding and eating disorders                                   |
|               |                     | <b>MBD011</b>                                    | Somatic disorders  |
|               |                     | <b>MBD013</b>                                    | Miscellaneous mental and behavioral disorders and conditions   |
| Substance Use | Alcohol             | <b>MBD017</b>                                    | Alcohol-related disorders                                      |
|               | Cannabis            | <b>MBD019</b>                                    | Cannabis-related disorders                                     |
|               |                     | <b>MBD030</b>                                    | Cannabis-related disorders, subsequent encounter               |
|               | Opioids             | <b>MBD018</b>                                    | Opioid-related disorders                                       |
|               |                     | <b>MBD028</b>                                    | Opioid-related disorders, subsequent encounter                 |
|               | Cocaine             | <b>MBD021*</b>                                   | Stimulant-related disorders                                    |
|               |                     | <b>MBD029*</b>                                   | Stimulant-related disorders, subsequent encounter              |
|               |                     | *Only including those related to cocaine         |  |
|               | Sedatives           | <b>MBD020</b>                                    | Sedative-related disorders                                     |
|               |                     | <b>MBD032</b>                                    | Sedative-related disorders, subsequent encounter               |
|               | Stimulants          | <b>MBD021*</b>                                   | Stimulant-related disorders                                    |
|               |                     | <b>MBD029*</b>                                   | Stimulant-related disorders, subsequent encounter              |
|               |                     | *Except those related to cocaine                 |  |
|               | Hallucinogens       | <b>MBD022</b>                                    | Hallucinogen-related disorders                                 |
|               |                     | <b>MBD031</b>                                    | Hallucinogen-related disorders; subsequent encounter           |
|               | Other Substance Use | <b>MBD023</b>                                    | Inhalant-related disorders                                     |
|               |                     | <b>MBD025</b>                                    | Other specified substance-related disorders                    |
| <b>MBD033</b> |                     | Inhalant-related disorders, subsequent encounter |  |

Additionally, ICD-10-CM diagnoses in CCSR categories MBD026 (Mental and substance use disorders in remission) and MBD034 (Mental and substance use disorders; sequela) were manually associated with the diagnosis categories listed above. See Appendix A for a complete list of behavioral health ICD-10-CM codes and their classifications.

Based on the behavioral health diagnosis categories, visits were aggregated into larger categories representing whether the primary diagnosis was associated with any BH condition (that is, either a mental health condition or substance use disorder), and for BH diagnoses, whether the diagnosis was a mental health condition and/or a substance use disorder. Some primary diagnoses may be classified as both mental health and substance use disorders; as such, the categories for Any Mental Health Condition and Any Substance Use Disorder are not mutually exclusive.

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## Frequent Utilizers

Patients were identified as frequent utilizers of the ED in a given federal fiscal year if they had any 12-month period ending during that year in which they had 10 or more ED visits. If a patient was identified as a frequent utilizer at least once during a given fiscal year, the patient and all their visits in that fiscal year were associated with frequent utilization. For example, a patient who had an ED visit on July 1, 2019 and had at least 9 other visits between July 2, 2018 and July 1, 2019 would be classified as a frequent utilizer for FFY 2019, and all ED visits that occurred in FFY 2019 would be classified as being associated with a frequent utilizer. The report includes data for FFY 2019 only; frequent utilizer data for additional years can be found in the databook.

To identify unique patients, these analyses leveraged an enhanced probabilistic patient identifier (EPI) to identify and link patient records. The EPI is created by CHIA using Master Data Management (MDM) techniques by employing an industry-leading MDM software solution, IBM Initiate Master Data Service. It utilizes probabilistic matching on all available and valid patient demographic information to identify records belonging to the same patient. Patient demographic information was sourced from all three components of CHIA's Acute Hospital Case Mix Databases, including the HIDD, EDD, and OOD, and uses data dating back to 2006.

For patient-level frequent utilizer analyses, visit and patient characteristics that varied across a patient's ED visit records were assigned a single value per patient for FFY 2019. This assignment was based on the value of the characteristic associated with the most visits in that year; for instance, a patient with three Medicare visits and two Medicaid visits in FFY 2019 would be considered as having an expected primary payer type of Medicare in FFY 2019. If there was an equal number of visits for two or more values of a characteristic for a patient in FFY 2019, then priority was given to the characteristic observed on the most recent of these visits; for example, if a patient had 4 total ED visits in FFY 2019 and they were age 64 for the first two visits and age 65 for the subsequent two visits, the patient was considered age 65 for this analysis. Consequently, the count of visits associated with patient and discharge characteristics calculated in this section may differ slightly from those reported elsewhere in the report, as the other sections use only the information reported for the visit.

## Appendix A. CCSR Category MBD026 and MBD034 Behavioral Health Classification

| CCSR CATEGORY | ICD-10 CODE | ICD-10 CODE DESCRIPTION   | OVERALL BH CATEGORY | BH DIAGNOSIS CATEGORY |
|---------------|-------------|---|---------------------|-----------------------|
| MBD026        | F1011       | Alcohol abuse, in remission   | Substance Use       | Alcohol               |
| MBD026        | F1021       | Alcohol dependence, in remission  | Substance Use       | Alcohol               |
| MBD026        | F1111       | Opioid abuse, in remission  | Substance Use       | Opioids               |
| MBD026        | F1121       | Opioid dependence, in remission   | Substance Use       | Opioids               |
| MBD026        | F1211       | Cannabis abuse, in remission  | Substance Use       | Cannabis              |
| MBD026        | F1221       | Cannabis dependence, in remission   | Substance Use       | Cannabis              |
| MBD026        | F1311       | Sedative, hypnotic or anxiolytic abuse, in remission  | Substance Use       | Sedatives             |
| MBD026        | F1321       | Sedative, hypnotic or anxiolytic dependence, in remission                                     | Substance Use       | Sedatives             |
| MBD026        | F1411       | Cocaine abuse, in remission   | Substance Use       | Cocaine               |
| MBD026        | F1421       | Cocaine dependence, in remission  | Substance Use       | Cocaine               |
| MBD026        | F1511       | Other stimulant abuse, in remission   | Substance Use       | Stimulants            |
| MBD026        | F1521       | Other stimulant dependence, in remission  | Substance Use       | Stimulants            |
| MBD026        | F1611       | Hallucinogen abuse, in remission  | Substance Use       | Hallucinogens         |
| MBD026        | F1621       | Hallucinogen dependence, in remission   | Substance Use       | Hallucinogens         |
| MBD026        | F1811       | Inhalant abuse, in remission  | Substance Use       | Other Substance Use   |
| MBD026        | F1821       | Inhalant dependence, in remission   | Substance Use       | Other Substance Use   |
| MBD026        | F1911       | Other psychoactive substance abuse, in remission  | Substance Use       | Other Substance Use   |
| MBD026        | F1921       | Other psychoactive substance dependence, in remission   | Substance Use       | Other Substance Use   |
| MBD026        | F304        | Manic episode in full remission   | Mental Health       | Mood                  |
| MBD026        | F3170       | Bipolar disorder, currently in remission, most recent episode unspecified                     | Mental Health       | Mood                  |
| MBD026        | F3172       | Bipolar disorder, in full remission, most recent episode hypomanic                            | Mental Health       | Mood                  |
| MBD026        | F3174       | Bipolar disorder, in full remission, most recent episode manic                                | Mental Health       | Mood                  |
| MBD026        | F3176       | Bipolar disorder, in full remission, most recent episode depressed                            | Mental Health       | Mood                  |
| MBD026        | F3178       | Bipolar disorder, in full remission, most recent episode mixed                                | Mental Health       | Mood                  |
| MBD026        | F325        | Major depressive disorder, single episode, in full remission                                  | Mental Health       | Mood                  |
| MBD026        | F3340       | Major depressive disorder, recurrent, in remission, unspecified                               | Mental Health       | Mood                  |
| MBD026        | F3342       | Major depressive disorder, recurrent, in full remission                                       | Mental Health       | Mood                  |
| MBD034        | T1491XS     | Suicide attempt, sequela  | Mental Health       | Suicide               |
| MBD034        | T360X2S     | Poisoning by penicillins, intentional self-harm, sequela                                      | Mental Health       | Suicide               |
| MBD034        | T361X2S     | Poisoning by cephalosporins and other beta-lactam antibiotics, intentional self-harm, sequela | Mental Health       | Suicide               |
| MBD034        | T362X2S     | Poisoning by chloramphenicol group, intentional self-harm, sequela                            | Mental Health       | Suicide               |

|               |         |   |               |         |
|---------------|---------|---|---------------|---------|
| <b>MBD034</b> | T363X2S | Poisoning by macrolides, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T364X2S | Poisoning by tetracyclines, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T365X2S | Poisoning by aminoglycosides, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T366X2S | Poisoning by rifampicins, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T367X2S | Poisoning by antifungal antibiotics, systemically used, intentional self-harm, sequela                                  | Mental Health | Suicide |
| <b>MBD034</b> | T368X2S | Poisoning by other systemic antibiotics, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T369X2S | Poisoning by unspecified systemic antibiotic, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T370X2S | Poisoning by sulfonamides, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T371X2S | Poisoning by antimycobacterial drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T372X2S | Poisoning by antimalarials and drugs acting on other blood protozoa, intentional self-harm, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | T373X2S | Poisoning by other antiprotozoal drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T374X2S | Poisoning by anthelmintics, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T375X2S | Poisoning by antiviral drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T378X2S | Poisoning by other specified systemic anti-infectives and antiparasitics, intentional self-harm, sequela                | Mental Health | Suicide |
| <b>MBD034</b> | T379X2S | Poisoning by unspecified systemic anti-infective and antiparasitics, intentional self-harm, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | T380X2S | Poisoning by glucocorticoids and synthetic analogues, intentional self-harm, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | T381X2S | Poisoning by thyroid hormones and substitutes, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T382X2S | Poisoning by antithyroid drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T383X2S | Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, intentional self-harm, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | T384X2S | Poisoning by oral contraceptives, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T385X2S | Poisoning by other estrogens and progestogens, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T386X2S | Poisoning by antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T387X2S | Poisoning by androgens and anabolic congeners, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T38802S | Poisoning by unspecified hormones and synthetic substitutes, intentional self-harm, sequela                             | Mental Health | Suicide |

|               |         |  |               |         |
|---------------|---------|--|---------------|---------|
| <b>MBD034</b> | T38812S | Poisoning by anterior pituitary [adenohypophyseal] hormones, intentional self-harm, sequela                        | Mental Health | Suicide |
| <b>MBD034</b> | T38892S | Poisoning by other hormones and synthetic substitutes, intentional self-harm, sequela                              | Mental Health | Suicide |
| <b>MBD034</b> | T38902S | Poisoning by unspecified hormone antagonists, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T38992S | Poisoning by other hormone antagonists, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T39012S | Poisoning by aspirin, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T39092S | Poisoning by salicylates, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T391X2S | Poisoning by 4-Aminophenol derivatives, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T392X2S | Poisoning by pyrazolone derivatives, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T39312S | Poisoning by propionic acid derivatives, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T39392S | Poisoning by other nonsteroidal anti-inflammatory drugs [NSAID], intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T394X2S | Poisoning by antirheumatics, not elsewhere classified, intentional self-harm, sequela                              | Mental Health | Suicide |
| <b>MBD034</b> | T398X2S | Poisoning by other nonopioid analgesics and antipyretics, not elsewhere classified, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T3992XS | Poisoning by unspecified nonopioid analgesic, antipyretic and antirheumatic, intentional self-harm, sequela        | Mental Health | Suicide |
| <b>MBD034</b> | T400X1S | Poisoning by opium, accidental (unintentional), sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T400X2S | Poisoning by opium, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T400X3S | Poisoning by opium, assault, sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T400X4S | Poisoning by opium, undetermined, sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T400X5S | Adverse effect of opium, sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T401X1S | Poisoning by heroin, accidental (unintentional), sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T401X2S | Poisoning by heroin, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T401X3S | Poisoning by heroin, assault, sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T401X4S | Poisoning by heroin, undetermined, sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T402X1S | Poisoning by other opioids, accidental (unintentional), sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T402X2S | Poisoning by other opioids, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T402X3S | Poisoning by other opioids, assault, sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T402X4S | Poisoning by other opioids, undetermined, sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T402X5S | Adverse effect of other opioids, sequela   | Substance Use | Opioids |
| <b>MBD034</b> | T403X1S | Poisoning by methadone, accidental (unintentional), sequela  | Substance Use | Opioids |
| <b>MBD034</b> | T403X2S | Poisoning by methadone, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T403X3S | Poisoning by methadone, assault, sequela   | Substance Use | Opioids |

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| <b>MBD034</b> | T403X4S | Poisoning by methadone, undetermined, sequela                                  | Substance Use | Opioids             |
| <b>MBD034</b> | T403X5S | Adverse effect of methadone, sequela   | Substance Use | Opioids             |
| <b>MBD034</b> | T40411S | Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela | Substance Use | Opioids             |
| <b>MBD034</b> | T40412S | Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela      | Mental Health | Suicide             |
| <b>MBD034</b> | T40413S | Poisoning by fentanyl or fentanyl analogs, assault, sequela                    | Substance Use | Opioids             |
| <b>MBD034</b> | T40414S | Poisoning by fentanyl or fentanyl analogs, undetermined, sequela               | Substance Use | Opioids             |
| <b>MBD034</b> | T40415S | Adverse effect of fentanyl or fentanyl analogs, sequela                        | Substance Use | Opioids             |
| <b>MBD034</b> | T40421S | Poisoning by tramadol, accidental (unintentional), sequela                     | Substance Use | Opioids             |
| <b>MBD034</b> | T40422S | Poisoning by tramadol, intentional self-harm, sequela                          | Mental Health | Suicide             |
| <b>MBD034</b> | T40423S | Poisoning by tramadol, assault, sequela  | Substance Use | Opioids             |
| <b>MBD034</b> | T40424S | Poisoning by tramadol, undetermined, sequela                                   | Substance Use | Opioids             |
| <b>MBD034</b> | T40425S | Adverse effect of tramadol, sequela  | Substance Use | Opioids             |
| <b>MBD034</b> | T40491S | Poisoning by other synthetic narcotics, accidental (unintentional), sequela    | Substance Use | Other Substance Use |
| <b>MBD034</b> | T40492S | Poisoning by other synthetic narcotics, intentional self-harm, sequela         | Mental Health | Suicide             |
| <b>MBD034</b> | T40493S | Poisoning by other synthetic narcotics, assault, sequela                       | Substance Use | Other Substance Use |
| <b>MBD034</b> | T40494S | Poisoning by other synthetic narcotics, undetermined, sequela                  | Substance Use | Other Substance Use |
| <b>MBD034</b> | T40495S | Adverse effect of other synthetic narcotics, sequela                           | Substance Use | Other Substance Use |
| <b>MBD034</b> | T404X1S | Poisoning by other synthetic narcotics, accidental (unintentional), sequela    | Substance Use | Opioids             |
| <b>MBD034</b> | T404X2S | Poisoning by other synthetic narcotics, intentional self-harm, sequela         | Mental Health | Suicide             |
| <b>MBD034</b> | T404X3S | Poisoning by other synthetic narcotics, assault, sequela                       | Substance Use | Opioids             |
| <b>MBD034</b> | T404X4S | Poisoning by other synthetic narcotics, undetermined, sequela                  | Substance Use | Opioids             |
| <b>MBD034</b> | T404X5S | Adverse effect of other synthetic narcotics, sequela                           | Substance Use | Opioids             |
| <b>MBD034</b> | T405X1S | Poisoning by cocaine, accidental (unintentional), sequela                      | Substance Use | Cocaine             |
| <b>MBD034</b> | T405X2S | Poisoning by cocaine, intentional self-harm, sequela                           | Mental Health | Suicide             |
| <b>MBD034</b> | T405X3S | Poisoning by cocaine, assault, sequela   | Substance Use | Cocaine             |
| <b>MBD034</b> | T405X4S | Poisoning by cocaine, undetermined, sequela                                    | Substance Use | Cocaine             |
| <b>MBD034</b> | T405X5S | Adverse effect of cocaine, sequela   | Substance Use | Cocaine             |
| <b>MBD034</b> | T40601S | Poisoning by unspecified narcotics, accidental (unintentional), sequela        | Substance Use | Opioids             |
| <b>MBD034</b> | T40602S | Poisoning by unspecified narcotics, intentional self-harm, sequela             | Mental Health | Suicide             |
| <b>MBD034</b> | T40603S | Poisoning by unspecified narcotics, assault, sequela                           | Substance Use | Opioids             |

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| <b>MBD034</b> | T40604S | Poisoning by unspecified narcotics, undetermined, sequela                                      | Substance Use | Opioids       |
| <b>MBD034</b> | T40605S | Adverse effect of unspecified narcotics, sequela   | Substance Use | Opioids       |
| <b>MBD034</b> | T40691S | Poisoning by other narcotics, accidental (unintentional), sequela                              | Substance Use | Opioids       |
| <b>MBD034</b> | T40692S | Poisoning by other narcotics, intentional self-harm, sequela                                   | Mental Health | Suicide       |
| <b>MBD034</b> | T40693S | Poisoning by other narcotics, assault, sequela   | Substance Use | Opioids       |
| <b>MBD034</b> | T40694S | Poisoning by other narcotics, undetermined, sequela  | Substance Use | Opioids       |
| <b>MBD034</b> | T40695S | Adverse effect of other narcotics, sequela   | Substance Use | Opioids       |
| <b>MBD034</b> | T407X1S | Poisoning by cannabis (derivatives), accidental (unintentional), sequela                       | Substance Use | Cannabis      |
| <b>MBD034</b> | T407X2S | Poisoning by cannabis (derivatives), intentional self-harm, sequela                            | Mental Health | Suicide       |
| <b>MBD034</b> | T407X3S | Poisoning by cannabis (derivatives), assault, sequela  | Substance Use | Cannabis      |
| <b>MBD034</b> | T407X4S | Poisoning by cannabis (derivatives), undetermined, sequela                                     | Substance Use | Cannabis      |
| <b>MBD034</b> | T407X5S | Adverse effect of cannabis (derivatives), sequela  | Substance Use | Cannabis      |
| <b>MBD034</b> | T408X1S | Poisoning by lysergide [LSD], accidental (unintentional), sequela                              | Substance Use | Hallucinogens |
| <b>MBD034</b> | T408X2S | Poisoning by lysergide [LSD], intentional self-harm, sequela                                   | Mental Health | Suicide       |
| <b>MBD034</b> | T408X3S | Poisoning by lysergide [LSD], assault, sequela   | Substance Use | Hallucinogens |
| <b>MBD034</b> | T408X4S | Poisoning by lysergide [LSD], undetermined, sequela  | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40901S | Poisoning by unspecified psychodysleptics [hallucinogens], accidental (unintentional), sequela | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40902S | Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm, sequela      | Mental Health | Suicide       |
| <b>MBD034</b> | T40903S | Poisoning by unspecified psychodysleptics [hallucinogens], assault, sequela                    | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40904S | Poisoning by unspecified psychodysleptics [hallucinogens], undetermined, sequela               | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40905S | Adverse effect of unspecified psychodysleptics [hallucinogens], sequela                        | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40991S | Poisoning by other psychodysleptics [hallucinogens], accidental (unintentional), sequela       | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40992S | Poisoning by other psychodysleptics [hallucinogens], intentional self-harm, sequela            | Mental Health | Suicide       |
| <b>MBD034</b> | T40993S | Poisoning by other psychodysleptics [hallucinogens], assault, sequela                          | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40994S | Poisoning by other psychodysleptics [hallucinogens], undetermined, sequela                     | Substance Use | Hallucinogens |
| <b>MBD034</b> | T40995S | Adverse effect of other psychodysleptics [hallucinogens], sequela                              | Substance Use | Hallucinogens |

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| <b>MBD034</b> | T410X1S | Poisoning by inhaled anesthetics, accidental (unintentional), sequela                                   | Substance Use | Other Substance Use |
| <b>MBD034</b> | T410X2S | Poisoning by inhaled anesthetics, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T410X3S | Poisoning by inhaled anesthetics, assault, sequela  | Substance Use | Other Substance Use |
| <b>MBD034</b> | T410X4S | Poisoning by inhaled anesthetics, undetermined, sequela   | Substance Use | Other Substance Use |
| <b>MBD034</b> | T410X5S | Adverse effect of inhaled anesthetics, sequela  | Substance Use | Other Substance Use |
| <b>MBD034</b> | T411X2S | Poisoning by intravenous anesthetics, intentional self-harm, sequela                                    | Mental Health | Suicide             |
| <b>MBD034</b> | T41202S | Poisoning by unspecified general anesthetics, intentional self-harm, sequela                            | Mental Health | Suicide             |
| <b>MBD034</b> | T41292S | Poisoning by other general anesthetics, intentional self-harm, sequela                                  | Mental Health | Suicide             |
| <b>MBD034</b> | T413X2S | Poisoning by local anesthetics, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T4142XS | Poisoning by unspecified anesthetic, intentional self-harm, sequela                                     | Mental Health | Suicide             |
| <b>MBD034</b> | T415X2S | Poisoning by therapeutic gases, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T420X2S | Poisoning by hydantoin derivatives, intentional self-harm, sequela                                      | Mental Health | Suicide             |
| <b>MBD034</b> | T422X2S | Poisoning by succinimides and oxazolidinediones, intentional self-harm, sequela                         | Mental Health | Suicide             |
| <b>MBD034</b> | T423X2S | Poisoning by barbiturates, intentional self-harm, sequela   | Mental Health | Suicide             |
| <b>MBD034</b> | T424X2S | Poisoning by benzodiazepines, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T425X2S | Poisoning by mixed antiepileptics, intentional self-harm, sequela                                       | Mental Health | Suicide             |
| <b>MBD034</b> | T426X1S | Poisoning by other antiepileptic and sedative-hypnotic drugs, accidental (unintentional), sequela       | Substance Use | Sedatives           |
| <b>MBD034</b> | T426X2S | Poisoning by other antiepileptic and sedative-hypnotic drugs, intentional self-harm, sequela            | Mental Health | Suicide             |
| <b>MBD034</b> | T426X3S | Poisoning by other antiepileptic and sedative-hypnotic drugs, assault, sequela                          | Substance Use | Sedatives           |
| <b>MBD034</b> | T426X4S | Poisoning by other antiepileptic and sedative-hypnotic drugs, undetermined, sequela                     | Substance Use | Sedatives           |
| <b>MBD034</b> | T426X5S | Adverse effect of other antiepileptic and sedative-hypnotic drugs, sequela                              | Substance Use | Sedatives           |
| <b>MBD034</b> | T4271XS | Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, accidental (unintentional), sequela | Substance Use | Sedatives           |
| <b>MBD034</b> | T4272XS | Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, intentional self-harm, sequela      | Mental Health | Suicide             |
| <b>MBD034</b> | T4273XS | Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, assault, sequela                    | Substance Use | Sedatives           |



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| <b>MBD034</b> | T4274XS | Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, undetermined, sequela                     | Substance Use | Sedatives           |
| <b>MBD034</b> | T4275XS | Adverse effect of unspecified antiepileptic and sedative-hypnotic drugs, sequela                              | Substance Use | Sedatives           |
| <b>MBD034</b> | T428X2S | Poisoning by antiparkinsonism drugs and other central muscle-tone depressants, intentional self-harm, sequela | Mental Health | Suicide             |
| <b>MBD034</b> | T43012S | Poisoning by tricyclic antidepressants, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T43022S | Poisoning by tetracyclic antidepressants, intentional self-harm, sequela                                      | Mental Health | Suicide             |
| <b>MBD034</b> | T431X2S | Poisoning by monoamine-oxidase-inhibitor antidepressants, intentional self-harm, sequela                      | Mental Health | Suicide             |
| <b>MBD034</b> | T43202S | Poisoning by unspecified antidepressants, intentional self-harm, sequela                                      | Mental Health | Suicide             |
| <b>MBD034</b> | T43205S | Adverse effect of unspecified antidepressants, sequela  | Substance Use | Other Substance Use |
| <b>MBD034</b> | T43212S | Poisoning by selective serotonin and norepinephrine reuptake inhibitors, intentional self-harm, sequela       | Mental Health | Suicide             |
| <b>MBD034</b> | T43222S | Poisoning by selective serotonin reuptake inhibitors, intentional self-harm, sequela                          | Mental Health | Suicide             |
| <b>MBD034</b> | T43292S | Poisoning by other antidepressants, intentional self-harm, sequela  | Mental Health | Suicide             |
| <b>MBD034</b> | T433X2S | Poisoning by phenothiazine antipsychotics and neuroleptics, intentional self-harm, sequela                    | Mental Health | Suicide             |
| <b>MBD034</b> | T434X2S | Poisoning by butyrophenone and thiothixene neuroleptics, intentional self-harm, sequela                       | Mental Health | Suicide             |
| <b>MBD034</b> | T43502S | Poisoning by unspecified antipsychotics and neuroleptics, intentional self-harm, sequela                      | Mental Health | Suicide             |
| <b>MBD034</b> | T43592S | Poisoning by other antipsychotics and neuroleptics, intentional self-harm, sequela                            | Mental Health | Suicide             |
| <b>MBD034</b> | T43601S | Poisoning by unspecified psychostimulants, accidental (unintentional), sequela                                | Substance Use | Stimulants          |
| <b>MBD034</b> | T43602S | Poisoning by unspecified psychostimulants, intentional self-harm, sequela                                     | Mental Health | Suicide             |
| <b>MBD034</b> | T43603S | Poisoning by unspecified psychostimulants, assault, sequela   | Substance Use | Stimulants          |
| <b>MBD034</b> | T43604S | Poisoning by unspecified psychostimulants, undetermined, sequela  | Substance Use | Stimulants          |
| <b>MBD034</b> | T43605S | Adverse effect of unspecified psychostimulants, sequela   | Substance Use | Stimulants          |
| <b>MBD034</b> | T43611S | Poisoning by caffeine, accidental (unintentional), sequela  | Substance Use | Stimulants          |
| <b>MBD034</b> | T43612S | Poisoning by caffeine, intentional self-harm, sequela   | Mental Health | Suicide             |
| <b>MBD034</b> | T43613S | Poisoning by caffeine, assault, sequela   | Substance Use | Stimulants          |
| <b>MBD034</b> | T43614S | Poisoning by caffeine, undetermined, sequela  | Substance Use | Stimulants          |
| <b>MBD034</b> | T43615S | Adverse effect of caffeine, sequela   | Substance Use | Stimulants          |

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| <b>MBD034</b> | T43621S | Poisoning by amphetamines, accidental (unintentional), sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43622S | Poisoning by amphetamines, intentional self-harm, sequela   | Mental Health | Suicide    |
| <b>MBD034</b> | T43623S | Poisoning by amphetamines, assault, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43624S | Poisoning by amphetamines, undetermined, sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43625S | Adverse effect of amphetamines, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43631S | Poisoning by methylphenidate, accidental (unintentional), sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43632S | Poisoning by methylphenidate, intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T43633S | Poisoning by methylphenidate, assault, sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43634S | Poisoning by methylphenidate, undetermined, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43635S | Adverse effect of methylphenidate, sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43641S | Poisoning by ecstasy, accidental (unintentional), sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43642S | Poisoning by ecstasy, intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T43643S | Poisoning by ecstasy, assault, sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43644S | Poisoning by ecstasy, undetermined, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43691S | Poisoning by other psychostimulants, accidental (unintentional), sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43692S | Poisoning by other psychostimulants, intentional self-harm, sequela   | Mental Health | Suicide    |
| <b>MBD034</b> | T43693S | Poisoning by other psychostimulants, assault, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T43694S | Poisoning by other psychostimulants, undetermined, sequela  | Substance Use | Stimulants |
| <b>MBD034</b> | T43695S | Adverse effect of other psychostimulants, sequela   | Substance Use | Stimulants |
| <b>MBD034</b> | T438X2S | Poisoning by other psychotropic drugs, intentional self-harm, sequela   | Mental Health | Suicide    |
| <b>MBD034</b> | T4392XS | Poisoning by unspecified psychotropic drug, intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T440X2S | Poisoning by anticholinesterase agents, intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T441X2S | Poisoning by other parasympathomimetics [cholinergics], intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T442X2S | Poisoning by ganglionic blocking drugs, intentional self-harm, sequela  | Mental Health | Suicide    |
| <b>MBD034</b> | T443X2S | Poisoning by other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, intentional self-harm, sequela | Mental Health | Suicide    |
| <b>MBD034</b> | T444X2S | Poisoning by predominantly alpha-adrenoreceptor agonists, intentional self-harm, sequela                                      | Mental Health | Suicide    |
| <b>MBD034</b> | T445X2S | Poisoning by predominantly beta-adrenoreceptor agonists, intentional self-harm, sequela                                       | Mental Health | Suicide    |

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| <b>MBD034</b> | T446X2S | Poisoning by alpha-adrenoreceptor antagonists, intentional self-harm, sequela                                   | Mental Health | Suicide |
| <b>MBD034</b> | T447X2S | Poisoning by beta-adrenoreceptor antagonists, intentional self-harm, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | T448X2S | Poisoning by centrally-acting and adrenergic-neuron-blocking agents, intentional self-harm, sequela             | Mental Health | Suicide |
| <b>MBD034</b> | T44902S | Poisoning by unspecified drugs primarily affecting the autonomic nervous system, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T44992S | Poisoning by other drug primarily affecting the autonomic nervous system, intentional self-harm, sequela        | Mental Health | Suicide |
| <b>MBD034</b> | T450X2S | Poisoning by antiallergic and antiemetic drugs, intentional self-harm, sequela                                  | Mental Health | Suicide |
| <b>MBD034</b> | T451X2S | Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | T452X2S | Poisoning by vitamins, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T453X2S | Poisoning by enzymes, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T454X2S | Poisoning by iron and its compounds, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T45512S | Poisoning by anticoagulants, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T45522S | Poisoning by antithrombotic drugs, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T45602S | Poisoning by unspecified fibrinolysis-affecting drugs, intentional self-harm, sequela                           | Mental Health | Suicide |
| <b>MBD034</b> | T45612S | Poisoning by thrombolytic drug, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T45622S | Poisoning by hemostatic drug, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T45692S | Poisoning by other fibrinolysis-affecting drugs, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T457X2S | Poisoning by anticoagulant antagonists, vitamin K and other coagulants, intentional self-harm, sequela          | Mental Health | Suicide |
| <b>MBD034</b> | T458X2S | Poisoning by other primarily systemic and hematological agents, intentional self-harm, sequela                  | Mental Health | Suicide |
| <b>MBD034</b> | T4592XS | Poisoning by unspecified primarily systemic and hematological agent, intentional self-harm, sequela             | Mental Health | Suicide |
| <b>MBD034</b> | T460X2S | Poisoning by cardiac-stimulant glycosides and drugs of similar action, intentional self-harm, sequela           | Mental Health | Suicide |
| <b>MBD034</b> | T461X2S | Poisoning by calcium-channel blockers, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T462X2S | Poisoning by other antidysrhythmic drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T463X2S | Poisoning by coronary vasodilators, intentional self-harm, sequela  | Mental Health | Suicide |

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| <b>MBD034</b> | T464X2S | Poisoning by angiotensin-converting-enzyme inhibitors, intentional self-harm, sequela                           | Mental Health | Suicide |
| <b>MBD034</b> | T465X2S | Poisoning by other antihypertensive drugs, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T466X2S | Poisoning by antihyperlipidemic and antiarteriosclerotic drugs, intentional self-harm, sequela                  | Mental Health | Suicide |
| <b>MBD034</b> | T467X2S | Poisoning by peripheral vasodilators, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T468X2S | Poisoning by antivaricose drugs, including sclerosing agents, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T46902S | Poisoning by unspecified agents primarily affecting the cardiovascular system, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T46992S | Poisoning by other agents primarily affecting the cardiovascular system, intentional self-harm, sequela         | Mental Health | Suicide |
| <b>MBD034</b> | T470X2S | Poisoning by histamine H2-receptor blockers, intentional self-harm, sequela                                     | Mental Health | Suicide |
| <b>MBD034</b> | T471X2S | Poisoning by other antacids and anti-gastric-secretion drugs, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T472X2S | Poisoning by stimulant laxatives, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T473X2S | Poisoning by saline and osmotic laxatives, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T474X2S | Poisoning by other laxatives, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T475X2S | Poisoning by digestants, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T476X2S | Poisoning by antidiarrheal drugs, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T477X2S | Poisoning by emetics, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T478X2S | Poisoning by other agents primarily affecting gastrointestinal system, intentional self-harm, sequela           | Mental Health | Suicide |
| <b>MBD034</b> | T4792XS | Poisoning by unspecified agents primarily affecting the gastrointestinal system, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T480X2S | Poisoning by oxytocic drugs, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T481X2S | Poisoning by skeletal muscle relaxants [neuromuscular blocking agents], intentional self-harm, sequela          | Mental Health | Suicide |
| <b>MBD034</b> | T48202S | Poisoning by unspecified drugs acting on muscles, intentional self-harm, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | T48292S | Poisoning by other drugs acting on muscles, intentional self-harm, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | T483X2S | Poisoning by antitussives, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T484X2S | Poisoning by expectorants, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T485X2S | Poisoning by other anti-common-cold drugs, intentional self-harm, sequela                                       | Mental Health | Suicide |

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| <b>MBD034</b> | T486X2S | Poisoning by antiasthmatics, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T48902S | Poisoning by unspecified agents primarily acting on the respiratory system, intentional self-harm, sequela                 | Mental Health | Suicide |
| <b>MBD034</b> | T48992S | Poisoning by other agents primarily acting on the respiratory system, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T490X2S | Poisoning by local antifungal, anti-infective and anti-inflammatory drugs, intentional self-harm, sequela                  | Mental Health | Suicide |
| <b>MBD034</b> | T491X2S | Poisoning by antipruritics, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T492X2S | Poisoning by local astringents and local detergents, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T493X2S | Poisoning by emollients, demulcents and protectants, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T494X2S | Poisoning by keratolytics, keratoplastics, and other hair treatment drugs and preparations, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T495X2S | Poisoning by ophthalmological drugs and preparations, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T496X2S | Poisoning by otorhinolaryngological drugs and preparations, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T497X2S | Poisoning by dental drugs, topically applied, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T498X2S | Poisoning by other topical agents, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T4992XS | Poisoning by unspecified topical agent, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T500X2S | Poisoning by mineralocorticoids and their antagonists, intentional self-harm, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | T501X2S | Poisoning by loop [high-ceiling] diuretics, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T502X2S | Poisoning by carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics, intentional self-harm, sequela          | Mental Health | Suicide |
| <b>MBD034</b> | T503X2S | Poisoning by electrolytic, caloric and water-balance agents, intentional self-harm, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | T504X2S | Poisoning by drugs affecting uric acid metabolism, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T505X2S | Poisoning by appetite depressants, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T506X2S | Poisoning by antidotes and chelating agents, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T507X2S | Poisoning by analeptics and opioid receptor antagonists, intentional self-harm, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | T508X2S | Poisoning by diagnostic agents, intentional self-harm, sequela   | Mental Health | Suicide |

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| <b>MBD034</b> | T50902S | Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm, sequela             | Mental Health | Suicide |
| <b>MBD034</b> | T50912S | Poisoning by multiple unspecified drugs, medicaments and biological substances, intentional self-harm, sequela    | Mental Health | Suicide |
| <b>MBD034</b> | T50992S | Poisoning by other drugs, medicaments and biological substances, intentional self-harm, sequela                   | Mental Health | Suicide |
| <b>MBD034</b> | T50A12S | Poisoning by pertussis vaccine, including combinations with a pertussis component, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T50A22S | Poisoning by mixed bacterial vaccines without a pertussis component, intentional self-harm, sequela               | Mental Health | Suicide |
| <b>MBD034</b> | T50A92S | Poisoning by other bacterial vaccines, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T50B12S | Poisoning by smallpox vaccines, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T50B92S | Poisoning by other viral vaccines, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T50Z12S | Poisoning by immunoglobulin, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T50Z92S | Poisoning by other vaccines and biological substances, intentional self-harm, sequela                             | Mental Health | Suicide |
| <b>MBD034</b> | T510X2S | Toxic effect of ethanol, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T511X2S | Toxic effect of methanol, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T512X2S | Toxic effect of 2-Propanol, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T513X2S | Toxic effect of fusel oil, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T518X2S | Toxic effect of other alcohols, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T5192XS | Toxic effect of unspecified alcohol, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T520X2S | Toxic effect of petroleum products, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T521X2S | Toxic effect of benzene, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T522X2S | Toxic effect of homologues of benzene, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T523X2S | Toxic effect of glycols, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T524X2S | Toxic effect of ketones, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T528X2S | Toxic effect of other organic solvents, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T5292XS | Toxic effect of unspecified organic solvent, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T530X2S | Toxic effect of carbon tetrachloride, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T531X2S | Toxic effect of chloroform, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T532X2S | Toxic effect of trichloroethylene, intentional self-harm, sequela   | Mental Health | Suicide |

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| <b>MBD034</b> | T533X2S | Toxic effect of tetrachloroethylene, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T534X2S | Toxic effect of dichloromethane, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T535X2S | Toxic effect of chlorofluorocarbons, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T536X2S | Toxic effect of other halogen derivatives of aliphatic hydrocarbons, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T537X2S | Toxic effect of other halogen derivatives of aromatic hydrocarbons, intentional self-harm, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | T5392XS | Toxic effect of unspecified halogen derivatives of aliphatic and aromatic hydrocarbons, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T540X2S | Toxic effect of phenol and phenol homologues, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T541X2S | Toxic effect of other corrosive organic compounds, intentional self-harm, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | T542X2S | Toxic effect of corrosive acids and acid-like substances, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T543X2S | Toxic effect of corrosive alkalis and alkali-like substances, intentional self-harm, sequela                           | Mental Health | Suicide |
| <b>MBD034</b> | T5492XS | Toxic effect of unspecified corrosive substance, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T550X2S | Toxic effect of soaps, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T551X2S | Toxic effect of detergents, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T560X2S | Toxic effect of lead and its compounds, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T561X2S | Toxic effect of mercury and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T562X2S | Toxic effect of chromium and its compounds, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T563X2S | Toxic effect of cadmium and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T564X2S | Toxic effect of copper and its compounds, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T565X2S | Toxic effect of zinc and its compounds, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T566X2S | Toxic effect of tin and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T567X2S | Toxic effect of beryllium and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T56812S | Toxic effect of thallium, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T56892S | Toxic effect of other metals, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T5692XS | Toxic effect of unspecified metal, intentional self-harm, sequela  | Mental Health | Suicide |

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| <b>MBD034</b> | T570X2S | Toxic effect of arsenic and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T571X2S | Toxic effect of phosphorus and its compounds, intentional self-harm, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | T572X2S | Toxic effect of manganese and its compounds, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T573X2S | Toxic effect of hydrogen cyanide, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T578X2S | Toxic effect of other specified inorganic substances, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T5792XS | Toxic effect of unspecified inorganic substance, intentional self-harm, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | T5802XS | Toxic effect of carbon monoxide from motor vehicle exhaust, intentional self-harm, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | T5812XS | Toxic effect of carbon monoxide from utility gas, intentional self-harm, sequela                                   | Mental Health | Suicide |
| <b>MBD034</b> | T582X2S | Toxic effect of carbon monoxide from incomplete combustion of other domestic fuels, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T588X2S | Toxic effect of carbon monoxide from other source, intentional self-harm, sequela                                  | Mental Health | Suicide |
| <b>MBD034</b> | T5892XS | Toxic effect of carbon monoxide from unspecified source, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T590X2S | Toxic effect of nitrogen oxides, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T591X2S | Toxic effect of sulfur dioxide, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T592X2S | Toxic effect of formaldehyde, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T593X2S | Toxic effect of lacrimogenic gas, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T594X2S | Toxic effect of chlorine gas, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T595X2S | Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T596X2S | Toxic effect of hydrogen sulfide, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T597X2S | Toxic effect of carbon dioxide, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T59812S | Toxic effect of smoke, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T59892S | Toxic effect of other specified gases, fumes and vapors, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T5992XS | Toxic effect of unspecified gases, fumes and vapors, intentional self-harm, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | T600X2S | Toxic effect of organophosphate and carbamate insecticides, intentional self-harm, sequela                         | Mental Health | Suicide |



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| <b>MBD034</b> | T601X2S | Toxic effect of halogenated insecticides, intentional self-harm, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | T602X2S | Toxic effect of other insecticides, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T603X2S | Toxic effect of herbicides and fungicides, intentional self-harm, sequela                        | Mental Health | Suicide |
| <b>MBD034</b> | T604X2S | Toxic effect of rodenticides, intentional self-harm, sequela                                     | Mental Health | Suicide |
| <b>MBD034</b> | T608X2S | Toxic effect of other pesticides, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T6092XS | Toxic effect of unspecified pesticide, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T6102XS | Ciguatera fish poisoning, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T6112XS | Scombroid fish poisoning, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T61772S | Other fish poisoning, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T61782S | Other shellfish poisoning, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T618X2S | Toxic effect of other seafood, intentional self-harm, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | T6192XS | Toxic effect of unspecified seafood, intentional self-harm, sequela                              | Mental Health | Suicide |
| <b>MBD034</b> | T620X2S | Toxic effect of ingested mushrooms, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T621X2S | Toxic effect of ingested berries, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T622X2S | Toxic effect of other ingested (parts of) plant(s), intentional self-harm, sequela               | Mental Health | Suicide |
| <b>MBD034</b> | T628X2S | Toxic effect of other specified noxious substances eaten as food, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T6292XS | Toxic effect of unspecified noxious substance eaten as food, intentional self-harm, sequela      | Mental Health | Suicide |
| <b>MBD034</b> | T63002S | Toxic effect of unspecified snake venom, intentional self-harm, sequela                          | Mental Health | Suicide |
| <b>MBD034</b> | T63012S | Toxic effect of rattlesnake venom, intentional self-harm, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | T63022S | Toxic effect of coral snake venom, intentional self-harm, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | T63032S | Toxic effect of taipan venom, intentional self-harm, sequela                                     | Mental Health | Suicide |
| <b>MBD034</b> | T63042S | Toxic effect of cobra venom, intentional self-harm, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | T63062S | Toxic effect of venom of other North and South American snake, intentional self-harm, sequela    | Mental Health | Suicide |
| <b>MBD034</b> | T63072S | Toxic effect of venom of other Australian snake, intentional self-harm, sequela                  | Mental Health | Suicide |
| <b>MBD034</b> | T63082S | Toxic effect of venom of other African and Asian snake, intentional self-harm, sequela           | Mental Health | Suicide |

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| <b>MBD034</b> | T63092S | Toxic effect of venom of other snake, intentional self-harm, sequela                        | Mental Health | Suicide |
| <b>MBD034</b> | T63112S | Toxic effect of venom of gila monster, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T63122S | Toxic effect of venom of other venomous lizard, intentional self-harm, sequela              | Mental Health | Suicide |
| <b>MBD034</b> | T63192S | Toxic effect of venom of other reptiles, intentional self-harm, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | T632X2S | Toxic effect of venom of scorpion, intentional self-harm, sequela                           | Mental Health | Suicide |
| <b>MBD034</b> | T63302S | Toxic effect of unspecified spider venom, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T63312S | Toxic effect of venom of black widow spider, intentional self-harm, sequela                 | Mental Health | Suicide |
| <b>MBD034</b> | T63322S | Toxic effect of venom of tarantula, intentional self-harm, sequela                          | Mental Health | Suicide |
| <b>MBD034</b> | T63332S | Toxic effect of venom of brown recluse spider, intentional self-harm, sequela               | Mental Health | Suicide |
| <b>MBD034</b> | T63392S | Toxic effect of venom of other spider, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T63412S | Toxic effect of venom of centipedes and venomous millipedes, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T63422S | Toxic effect of venom of ants, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T63432S | Toxic effect of venom of caterpillars, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T63442S | Toxic effect of venom of bees, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T63452S | Toxic effect of venom of hornets, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T63462S | Toxic effect of venom of wasps, intentional self-harm, sequela                              | Mental Health | Suicide |
| <b>MBD034</b> | T63482S | Toxic effect of venom of other arthropod, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T63512S | Toxic effect of contact with stingray, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T63592S | Toxic effect of contact with other venomous fish, intentional self-harm, sequela            | Mental Health | Suicide |
| <b>MBD034</b> | T63612S | Toxic effect of contact with Portugese Man-o-war, intentional self-harm, sequela            | Mental Health | Suicide |
| <b>MBD034</b> | T63622S | Toxic effect of contact with other jellyfish, intentional self-harm, sequela                | Mental Health | Suicide |
| <b>MBD034</b> | T63632S | Toxic effect of contact with sea anemone, intentional self-harm, sequela                    | Mental Health | Suicide |
| <b>MBD034</b> | T63692S | Toxic effect of contact with other venomous marine animals, intentional self-harm, sequela  | Mental Health | Suicide |

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| <b>MBD034</b> | T63712S | Toxic effect of contact with venomous marine plant, intentional self-harm, sequela                                  | Mental Health | Suicide |
| <b>MBD034</b> | T63792S | Toxic effect of contact with other venomous plant, intentional self-harm, sequela                                   | Mental Health | Suicide |
| <b>MBD034</b> | T63812S | Toxic effect of contact with venomous frog, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T63822S | Toxic effect of contact with venomous toad, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T63832S | Toxic effect of contact with other venomous amphibian, intentional self-harm, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | T63892S | Toxic effect of contact with other venomous animals, intentional self-harm, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | T6392XS | Toxic effect of contact with unspecified venomous animal, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T6402XS | Toxic effect of aflatoxin, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T6482XS | Toxic effect of other mycotoxin food contaminants, intentional self-harm, sequela                                   | Mental Health | Suicide |
| <b>MBD034</b> | T650X2S | Toxic effect of cyanides, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T651X2S | Toxic effect of strychnine and its salts, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T65212S | Toxic effect of chewing tobacco, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T65222S | Toxic effect of tobacco cigarettes, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T65292S | Toxic effect of other tobacco and nicotine, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T653X2S | Toxic effect of nitroderivatives and aminoderivatives of benzene and its homologues, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T654X2S | Toxic effect of carbon disulfide, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T655X2S | Toxic effect of nitroglycerin and other nitric acids and esters, intentional self-harm, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | T656X2S | Toxic effect of paints and dyes, not elsewhere classified, intentional self-harm, sequela                           | Mental Health | Suicide |
| <b>MBD034</b> | T65812S | Toxic effect of latex, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T65822S | Toxic effect of harmful algae and algae toxins, intentional self-harm, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | T65832S | Toxic effect of fiberglass, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T65892S | Toxic effect of other specified substances, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T6592XS | Toxic effect of unspecified substance, intentional self-harm, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | T71112S | Asphyxiation due to smothering under pillow, intentional self-harm, sequela   | Mental Health | Suicide |

|               |         |  |               |         |
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| <b>MBD034</b> | T71122S | Asphyxiation due to plastic bag, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T71132S | Asphyxiation due to being trapped in bed linens, intentional self-harm, sequela                        | Mental Health | Suicide |
| <b>MBD034</b> | T71152S | Asphyxiation due to smothering in furniture, intentional self-harm, sequela                            | Mental Health | Suicide |
| <b>MBD034</b> | T71162S | Asphyxiation due to hanging, intentional self-harm, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | T71192S | Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm, sequela | Mental Health | Suicide |
| <b>MBD034</b> | T71222S | Asphyxiation due to being trapped in a car trunk, intentional self-harm, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | T71232S | Asphyxiation due to being trapped in a (discarded) refrigerator, intentional self-harm, sequela        | Mental Health | Suicide |
| <b>MBD034</b> | X710XXS | Intentional self-harm by drowning and submersion while in bathtub, sequela                             | Mental Health | Suicide |
| <b>MBD034</b> | X711XXS | Intentional self-harm by drowning and submersion while in swimming pool, sequela                       | Mental Health | Suicide |
| <b>MBD034</b> | X712XXS | Intentional self-harm by drowning and submersion after jump into swimming pool, sequela                | Mental Health | Suicide |
| <b>MBD034</b> | X713XXS | Intentional self-harm by drowning and submersion in natural water, sequela                             | Mental Health | Suicide |
| <b>MBD034</b> | X718XXS | Other intentional self-harm by drowning and submersion, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X719XXS | Intentional self-harm by drowning and submersion, unspecified, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | X72XXXS | Intentional self-harm by handgun discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X730XXS | Intentional self-harm by shotgun discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X731XXS | Intentional self-harm by hunting rifle discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X732XXS | Intentional self-harm by machine gun discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X738XXS | Intentional self-harm by other larger firearm discharge, sequela                                       | Mental Health | Suicide |
| <b>MBD034</b> | X739XXS | Intentional self-harm by unspecified larger firearm discharge, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | X7401XS | Intentional self-harm by airgun, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | X7402XS | Intentional self-harm by paintball gun, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X7409XS | Intentional self-harm by other gas, air or spring-operated gun, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | X748XXS | Intentional self-harm by other firearm discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X749XXS | Intentional self-harm by unspecified firearm discharge, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X75XXXS | Intentional self-harm by explosive material, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | X76XXXS | Intentional self-harm by smoke, fire and flames, sequela   | Mental Health | Suicide |
| <b>MBD034</b> | X770XXS | Intentional self-harm by steam or hot vapors, sequela  | Mental Health | Suicide |

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| <b>MBD034</b> | X771XXS | Intentional self-harm by hot tap water, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | X772XXS | Intentional self-harm by other hot fluids, sequela                                 | Mental Health | Suicide |
| <b>MBD034</b> | X773XXS | Intentional self-harm by hot household appliances, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | X778XXS | Intentional self-harm by other hot objects, sequela                                | Mental Health | Suicide |
| <b>MBD034</b> | X779XXS | Intentional self-harm by unspecified hot objects, sequela                          | Mental Health | Suicide |
| <b>MBD034</b> | X780XXS | Intentional self-harm by sharp glass, sequela                                      | Mental Health | Suicide |
| <b>MBD034</b> | X781XXS | Intentional self-harm by knife, sequela  | Mental Health | Suicide |
| <b>MBD034</b> | X782XXS | Intentional self-harm by sword or dagger, sequela                                  | Mental Health | Suicide |
| <b>MBD034</b> | X788XXS | Intentional self-harm by other sharp object, sequela                               | Mental Health | Suicide |
| <b>MBD034</b> | X789XXS | Intentional self-harm by unspecified sharp object, sequela                         | Mental Health | Suicide |
| <b>MBD034</b> | X79XXXS | Intentional self-harm by blunt object, sequela                                     | Mental Health | Suicide |
| <b>MBD034</b> | X80XXXS | Intentional self-harm by jumping from a high place, sequela                        | Mental Health | Suicide |
| <b>MBD034</b> | X810XXS | Intentional self-harm by jumping or lying in front of motor vehicle, sequela       | Mental Health | Suicide |
| <b>MBD034</b> | X811XXS | Intentional self-harm by jumping or lying in front of (subway) train, sequela      | Mental Health | Suicide |
| <b>MBD034</b> | X818XXS | Intentional self-harm by jumping or lying in front of other moving object, sequela | Mental Health | Suicide |
| <b>MBD034</b> | X828XXS | Other intentional self-harm by crashing of motor vehicle, sequela                  | Mental Health | Suicide |
| <b>MBD034</b> | X830XXS | Intentional self-harm by crashing of aircraft, sequela                             | Mental Health | Suicide |
| <b>MBD034</b> | X831XXS | Intentional self-harm by electrocution, sequela                                    | Mental Health | Suicide |
| <b>MBD034</b> | X832XXS | Intentional self-harm by exposure to extremes of cold, sequela                     | Mental Health | Suicide |
| <b>MBD034</b> | X838XXS | Intentional self-harm by other specified means, sequela                            | Mental Health | Suicide |

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<sup>1</sup> Trauma Hospital Destinations. 2021. Commonwealth of Massachusetts. Available from <https://www.mass.gov/service-details/trauma-hospital-destinations>

<sup>2</sup> U.S. Census Bureau. ACS Demographic and Housing Estimates. 2016-2018 American Community Survey 5-Year Estimates (Massachusetts), Explore Census Data. Available from [data.census.gov](https://data.census.gov).

<sup>3</sup> EMS Regions in Massachusetts. 2021. Commonwealth of Massachusetts. Available from <https://www.mass.gov/service-details/ems-regions-in-massachusetts>

<sup>4</sup> Clinical Classifications Software Refined (CCSR). November 2020. Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD. Available from [www.hcup-us.ahrq.gov/toolssoftware/ccsr/ccs\\_refined.jsp](http://www.hcup-us.ahrq.gov/toolssoftware/ccsr/ccs_refined.jsp)