Chronic Conditions Warehouse
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Chronic Conditions Warehouse Virtual Research Data Center

CODEBOOK:
Master Beneficiary Summary File (MBSF)
National Death Index (NDI) Segment

DECEMBER 2023 | VERSION 2.4
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## Revision Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Changed by</th>
<th>Revisions</th>
<th>Version</th>
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<tbody>
<tr>
<td>December 2023</td>
<td>K. Schneider</td>
<td>Clarified available years for variables</td>
<td>2.4</td>
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<tr>
<td>February 2021</td>
<td>C. Alleman K. Russell</td>
<td>Migrated codebook to 2020 document template</td>
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<td>November 2018</td>
<td>C. Alleman K. Schneider</td>
<td>Inserted statement re: missing data for ICD_CODE_358 and ICD_CODE_113</td>
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<tr>
<td>June 2018</td>
<td>C. Alleman</td>
<td>Updated values for ICD_CODE_113, ICD_CODE_130, and ICD_CODE_358</td>
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<td>March 2018</td>
<td>C. Alleman K. Schneider S. Pietzsch</td>
<td>Added new variables received with second purchase of NDI data</td>
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<tr>
<td>May 2017</td>
<td>C. Alleman K. Schneider</td>
<td>Initial release of codebook for Master Beneficiary Summary File (MBSF) — National Death Index (NDI) Segment</td>
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Tips on Navigating the Codebook

This document is a detailed codebook that describes each variable in the Medicare Beneficiary Summary File (MBSF) — National Death Index (NDI) Segment research files. We have included several ways for users to quickly find the information they need:

- A complete listing of all variables in the files, in alphabetical order based on their SAS variable names.
- Individual entries for each variable have a short description of the variable, the possible values for the variable, and, in many cases, comments discussing the variable construction and use.

Hyperlinks are included throughout the codebook to make it easier for users to navigate between the table of contents and the detailed entries for the individual variables:

- Clicking on any variable name in the Table of Contents will take you to the detailed description for that variable.
- From the detailed description for any individual variable, clicking on the "Back to TOC" link after each variable description will take you back to the Table of Contents.
# Table of Contents

This section of the Codebook contains a list of all variables in alphabetical order based on the SAS variable name.

## Quick links:

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## Variable Details

This section contains a list of all variables in the Codebook, organized alphabetically based on the SAS variable name. The variables are listed along with their page numbers for quick reference.

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Variable Details

This section of the codebook contains one entry for each variable in the Medicare Beneficiary Summary File (MBSF) National Death Index (NDI) segment files. Each entry has variable details to facilitate understanding and use of the variables.

**BENE_ENROLLMT_REF_YR**

**LABEL:** Reference Year

**DESCRIPTION:** This field indicates the reference year of the enrollment data.

**SHORT NAME:** RFRNC_YR

**LONG NAME:** BENE_ENROLLMT_REF_YR

**TYPE:** NUM

**LENGTH:** 4

**SOURCE:** CMS Enrollment Database (EDB)

**VALUES:** 1999 forward

**COMMENT:** The data files are partitioned into calendar year files. Since the source data originate outside of CMS, the update cycle is not the same as the other MBSF segments and does not occur on any regular cadence. For years available, reference the CCW Data Availability web page.
**BENE_ID**

**LABEL:** Encrypted CCW Beneficiary ID

**DESCRIPTION:** The unique CCW identifier for a beneficiary. The CCW assigns a unique beneficiary identification number to each individual who receives Medicare and/or Medicaid and uses that number to identify an individual’s records in all CCW data files (e.g., Medicare claims, MAX claims, MDS assessment data).

This number does not change during a beneficiary’s lifetime and each number is used only once.

The BENE_ID is specific to the CCW and is not applicable to any other identification system or data source.

**SHORT NAME:** BENE_ID

**LONG NAME:** BENE_ID

**TYPE:** CHAR

**LENGTH:** 15

**SOURCE:** CCW

**VALUES:** —

**COMMENT:** —

[^Back to TOC^]
## DEATH_CERT_NUM

**LABEL:** NDI Death Certificate Number

**DESCRIPTION:** This field represents the death certificate number of the beneficiary.

**SHORT NAME:** DEATH_CERT_NUM

**LONG NAME:** DEATH_CERT_NUM

**TYPE:** CHAR

**LENGTH:** 6

**SOURCE:** Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

**VALUES:** —

**COMMENT:** Numbers are not unique across years. Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.
**ENRL_SRC**

**LABEL:** Enrollment Source

**DESCRIPTION:** This variable indicates the source of enrollment data.

**SHORT NAME:** ENRL_SRC

**LONG NAME:** ENRL_SRC

**TYPE:** CHAR

**LENGTH:** 3

**SOURCE:** CCW

**VALUES:**

- EDB = Enrollment Database
- CME = Common Medicare Environment

**COMMENT:** The Centers for Medicare & Medicaid Services (CMS) has updated the Medicare enrollment source data for the Master Beneficiary Summary File (MBSF). As of March 2017, the MBSF includes Medicare enrollment information from the CMS Common Medicare Environment (CME) rather than the CMS Common Medicare Environment (CME). Data from the two sources was nearly identical. The CME improves the identification of Medicare Part B enrollment and allows for more timely release of the MBSF.

The universe of beneficiaries in the CME versus the EDB version of the MBSF are only slightly different.
LABEL: NDI Entity Axis Cause of Death

DESCRIPTION: This field identifies the underlying causes of death code as listed by the certifier of death (formatted but not audited).

SHORT NAME:

ENTITY_COND_1  ENTITY_COND_11
ENTITY_COND_2  ENTITY_COND_12
ENTITY_COND_3  ENTITY_COND_13
ENTITY_COND_4  ENTITY_COND_14
ENTITY_COND_5  ENTITY_COND_15
ENTITY_COND_6  ENTITY_COND_16
ENTITY_COND_7  ENTITY_COND_17
ENTITY_COND_8  ENTITY_COND_18
ENTITY_COND_9  ENTITY_COND_19
ENTITY_COND_10 ENTITY_COND_20

LONG NAME:

ENTITY_COND_1  ENTITY_COND_11
ENTITY_COND_2  ENTITY_COND_12
ENTITY_COND_3  ENTITY_COND_13
ENTITY_COND_4  ENTITY_COND_14
ENTITY_COND_5  ENTITY_COND_15
ENTITY_COND_6  ENTITY_COND_16
ENTITY_COND_7  ENTITY_COND_17
ENTITY_COND_8  ENTITY_COND_18
ENTITY_COND_9  ENTITY_COND_19
ENTITY_COND_10 ENTITY_COND_20
TYPE: CHAR

LENGTH: 7

SOURCE: Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

VALUES: Each condition takes seven positions in the record
Position 1: Part/line number on certificate
   1 = Part I, line 1 (a)
   2 = Part I, line 2 (b)
   3 = Part I, line 3 (c)
   4 = Part I, line 4 (d)
   5 = Part I, line 5 (e)
   6 = Part II

Position 2: Sequence of condition within part/line Code range 1–7

Position 3–6: Condition code (reference ICD-10 codes) whenever there is a 4-position code, there is always an implied decimal after the third position.

Position 7: Nature of Injury flag
   0 = all other codes (always 0 for ICD-10 codes; 1999 forward)

COMMENT: For decedents 1999–2006 there are up to eight underlying conditions on the NDI record, and for 2007 forward there are up to 20 underlying conditions (ENTITY_COND_1–ENTITY_COND_20). Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA. There is another version of the underlying cause of death conditions that is edited and audited by the National Center for Health Statistics (NCHS; reference RECORD_COND_1–RECORD_COND_20).
ICD_CODE

LABEL: ICD-10 Cause of Death Code

DESCRIPTION: This field identifies only the ICD-10 diagnosis code associated with cause of death. The text descriptor for this code is in the field called ICD_TITLE.

SHORT NAME: ICD_CODE

LONG NAME: ICD_CODE

TYPE: CHAR

LENGTH: 4

SOURCE: Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

VALUES: —

COMMENT: All ICD-10 cause of death codes begin with an alpha character followed by two or three digits. NDI results do not include decimals in the cause of death codes. The decimal is implied between the second and third digits for ICD-10 codes. Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.
ICD_CODE_113

LABEL: 113 ICD-10 Cause of Death Recodes

DESCRIPTION: This field groups (or recodes) the NDI ICD-10 code cause of death into 113 categories. The list reflects 113 selected causes of death and enterocolitis due to \textit{Clostridium Difficile}.

SHORT NAME: ICD_CODE_113

LONG NAME: ICD_CODE_113

TYPE: CHAR

LENGTH: 3

SOURCE: Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

VALUES:

001 = Salmonella infections (A01–A02)
002 = Shigellosis and amebiasis (A03, A06)
003 = Certain other intestinal infections (A04, A07–A09)
004 = Tuberculosis (A16–A19)
005 = Respiratory tuberculosis (A16)
006 = Other tuberculosis (A17–A19)
007 = Whooping cough (A37)
008 = Scarlet fever and erysipelas (A38, A46)
009 = Meningococcal infection (A39)
010 = Septicemia (A40–A41)
011 = Syphilis (A50–A53)
012 = Acute poliomyelitis (A80)
013 = Arthropod-borne viral encephalitis (A83–A84, A85.2)
014 = Measles (B05)
015 = Viral hepatitis (B15–B19)
016 = Human immunodeficiency virus (HIV) disease (B20–B24)
017 = Malaria (B50–B54)
018 = Other and unspecified infectious and parasitic diseases and their sequelae (A00, A05, A20–A36, A42–A44, A48–A49, A54–A79, A81–A82, A85.0–A85.1, A85.8, A86–B04, B06–B09, B25–B49, B55–B99)
019 = Malignant neoplasms (C00–C97)
020 = Malignant neoplasms of lip, oral cavity, and pharynx (C00–C14)
021 = Malignant neoplasm of esophagus (C15)
022 = Malignant neoplasm of stomach (C16)
023 = Malignant neoplasms of colon, rectum, and anus (C18–C21)
024 = Malignant neoplasms of liver and intrahepatic bile ducts (C22)
025 = Malignant neoplasm of pancreas (C25)
026 = Malignant neoplasm of larynx (C32)
027 = Malignant neoplasms of trachea, bronchus, and lung (C33–C34)
028 = Malignant melanoma of skin (C43)
029 = Malignant neoplasm of breast (C50)
030 = Malignant neoplasm of cervix uteri (C53)
031 = Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55)
032 = Malignant neoplasm of ovary (C56)
033 = Malignant neoplasm of prostate (C61)
034 = Malignant neoplasms of kidney and renal pelvis (C64–C65)
035 = Malignant neoplasm of bladder (C67)
036 = Malignant neoplasms of lymphoid, hematopoietic, and related tissue (C70–C72)
037 = Malignant neoplasms of lymphoid, hematopoietic, and related tissue (C81–C96)
038 = Hodgkin's disease (C81)
039 = Non-Hodgkin's lymphoma (C82–C85)
040 = Leukemia (C91–C95)
041 = Multiple myeloma and immunoproliferative neoplasms (C88, C90)
042 = Other and unspecified malignant neoplasms of lymphoid, hematopoietic, and related tissue (C96)
043 = All other and unspecified malignant neoplasms (C17, C23–C24, C26–C31, C37–C41, C44–C49, C51–C52, C57–C60, C62–C63, C66, C68–C69, C73–C80, C97)
044 = In situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior (D00–D48)
045 = Anemias (D50–D64)
046 = Diabetes mellitus (E10–E14)
047 = Nutritional deficiencies (E40–E64)
048 = Malnutrition (E40–E46)
049 = Other nutritional deficiencies (E50–E64)
050 = Meningitis (G00, G03)
051 = Parkinson's disease (G20–G21)
052 = Alzheimer's disease (G30)
053 = Major cardiovascular diseases (I00–I78)
054 = Diseases of heart (I00–I09, I11, I13, I20–I51)
055 = Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)
056 = Hypertensive heart disease (I11)
057 = Hypertensive heart and renal disease (I13)
058 = Ischemic heart diseases (I20–I25)
059 = Acute myocardial infarction (I21–I22)
060 = Other acute ischemic heart diseases (I24)
061 = Other forms of chronic ischemic heart disease (I20, I25)
062 = Atherosclerotic cardiovascular disease, so described (I25.0)
063 = All other forms of chronic ischemic heart disease (I20, I25.1–I25.9)
064 = Other heart diseases (I26–I51)
065 = Acute and subacute endocarditis (I33)
066 = Diseases of pericardium and acute myocarditis (I30–I31, I40)
067 = Heart failure (I50)
068 = All other forms of heart disease (I26–I28, I34–I38, I42–I49, I51)
069 = Essential (primary) hypertension and hypertensive renal disease (I10, I12)
070 = Cerebrovascular diseases (I60–I69)
071 = Atherosclerosis (I70)
072 = Other diseases of circulatory system (I71–I78)
073 = Aortic aneurysm and dissection (I71)
074 = Other diseases of arteries, arterioles, and capillaries (I72–I78)
075 = Other disorders of circulatory system (I80–I99)

076 = Influenza and pneumonia (J10–J18)
077 = Influenza (J10–J11)
078 = Pneumonia (J12–J18)
079 = Other acute lower respiratory infections (J20–J22)
080 = Acute bronchitis and bronchiolitis (J20–J21)
081 = Unspecified acute lower respiratory infection (J22)
082 = Chronic lower respiratory diseases (J40–J47)
083 = Bronchitis, chronic and unspecified (J40–J42)
084 = Emphysema (J43)
085 = Asthma (J45–J46)
086 = Other chronic lower respiratory diseases (J44, J47)
087 = Pneumoconiosis and chemical effects (J60–J66, J68)
088 = Pneumonitis due to solids and liquids (J69)
089 = Other diseases of respiratory system (J00–J06, J30–J39, J67, J70–J98)
090 = Peptic ulcer (K25–K28)
091 = Diseases of appendix (K35–K38)
092 = Hernia (K40–K46)
093 = Chronic liver disease and cirrhosis (K70, K73–K74)
094 = Alcoholic liver disease (K70)
095 = Other chronic liver disease and cirrhosis (K73–K74)
096 = Cholelithiasis and other disorders of gallbladder (K80–K82)
097 = Nephritis, nephrotic syndrome, and nephrosis (N00–N07, N17–N19, N25–N27)
098 = Acute and rapidly progressive nephritic and nephrotic syndrome (N00–N01, N04)
099 = Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02–N03, N05–N07, N26)
100 = Renal failure (N17–N19)
101 = Other disorders of kidney (N25, N27)
102 = Infections of kidney (N10–N12, N13.6, N15.1)
103 = Hyperplasia of prostate (N40)
104 = Inflammatory diseases of female pelvic organs (N70–N76)
105 = Pregnancy, childbirth, and the puerperium (O00–O99)
106 = Pregnancy with abortive outcome (O00–O07)
107 = Other complications of pregnancy, childbirth, and the puerperium (O10–O99)
108 = Certain conditions originating in the perinatal period (P00–P96)
109 = Congenital malformations, deformations, and chromosomal abnormalities (Q00–Q99)
110 = Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)
112 = Accidents (unintentional injuries) (V01–X59, Y85–Y86)
113 = Transport accidents (V01–V99, Y85)
114 = Motor vehicle accidents (V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2)
115 = Other land transport accidents (V01, V05–V06, V09.1, V09.3–V09.9, V10–V11, V15–V18, V19.3, V19.8–V19.9, V80.0–V80.2, V80.6–V80.9, V81.2–V81.9, V82.2–V82.9, V87.9, V88.9, V89.1, V89.3, V89.9)
116 = Water, air and space, and other and unspecified transport accidents and their sequelae (V90–V99, Y85)
117 = Nontransport accidents (W00–X59, Y86)
118 = Falls (W00–W19)
119 = Accidental discharge of firearms (W32–W34)
120 = Accidental drowning and submersion (W65–W74)
121 = Accidental exposure to smoke, fire, and flames (X00–X09)
122 = Accidental poisoning and exposure to noxious substances (X40–X49)
123 = Other and unspecified nontransport accidents and their sequelae (W20–W31, W35–W64, W75–W99, X10–X39, X50–X59, Y86)
124 = Intentional self-harm (suicide) (*U03, X60–X84, Y87.0)
125 = Intentional self-harm (suicide) by discharge of firearms (X72–X74)
126 = Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03, X60–X71, X75–X84, Y87.0)
127 = Assault (homicide) (*U01–*U02, X85–Y09, Y87.1)
128 = Assault (homicide) by discharge of firearms (*U01.4, X93–X95)
129 = Assault (homicide) by other and unspecified means and their sequelae (*U01.0–*U01.3, *U01.5–*U01.9, *U02, X85–X92, X96–Y09, Y87.1)
130 = Legal intervention (Y35, Y89.0)
131 = Events of undetermined intent (Y10–Y34, Y87.2, Y89.9)
132 = Discharge of firearms, undetermined intent (Y22–Y24)
133 = Other and unspecified events of undetermined intent and their sequelae (Y10–Y21, Y25–Y34, Y87.2, Y89.9)
134 = Operations of war and their sequelae (Y36, Y89.1)
135 = Complications of medical and surgical care (Y40–Y84, Y88)

COMMENT: Additional information regarding these categories can be found on the CDC website (reference https://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2011.pdf).

Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.

NOTE: This field is not populated for a large proportion of 2008 records due to source data issues.
ICD_CODE_130

**LABEL:** 130 ICD-10 Cause of Death Recodes

**DESCRIPTION:** This field groups (or recodes) the NDI ICD-10 code cause of death into 130 categories. The list reflects 130 selected causes of infant death.

**SHORT NAME:** ICD_CODE_130

**LONG NAME:** ICD_CODE_130

**TYPE:** CHAR

**LENGTH:** 3

**SOURCE:** Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

**VALUES:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Certain infectious and parasitic diseases (A00–B99)</td>
</tr>
<tr>
<td>002</td>
<td>Certain intestinal infectious diseases (A00–A08)</td>
</tr>
<tr>
<td>003</td>
<td>Diarrhea and gastroenteritis of infectious origin (A09)</td>
</tr>
<tr>
<td>004</td>
<td>Tuberculosis (A16–A19)</td>
</tr>
<tr>
<td>005</td>
<td>Tetanus (A33, A35)</td>
</tr>
<tr>
<td>006</td>
<td>Diphtheria (A36)</td>
</tr>
<tr>
<td>007</td>
<td>Whooping cough (A37)</td>
</tr>
<tr>
<td>008</td>
<td>Meningococcal infection (A39)</td>
</tr>
<tr>
<td>009</td>
<td>Septicemia (A40–A41)</td>
</tr>
<tr>
<td>010</td>
<td>Congenital syphilis (A50)</td>
</tr>
<tr>
<td>011</td>
<td>Gonococcal infection (A54)</td>
</tr>
<tr>
<td>012</td>
<td>Viral diseases (A80–B34)</td>
</tr>
<tr>
<td>013</td>
<td>Acute poliomyelitis (A80)</td>
</tr>
<tr>
<td>014</td>
<td>Varicella (chickenpox) (B01)</td>
</tr>
<tr>
<td>015</td>
<td>Measles (B05)</td>
</tr>
<tr>
<td>016</td>
<td>Human immunodeficiency virus (HIV) disease (B20–B24)</td>
</tr>
<tr>
<td>017</td>
<td>Mumps (B26)</td>
</tr>
<tr>
<td>018</td>
<td>Other and unspecified viral diseases (A81–B00, B02–B04, B06–B19, B25, B27–B34)</td>
</tr>
<tr>
<td>019</td>
<td>Candidiasis (B37)</td>
</tr>
<tr>
<td>020</td>
<td>Malaria (B50–B54)</td>
</tr>
<tr>
<td>021</td>
<td>Pneumocystosis (B59)</td>
</tr>
<tr>
<td>022</td>
<td>All other and unspecified infectious and parasitic diseases (A20–A32, A38, A42–A49, A51–A53, A55–A79, B35–B36, B38–B49, B55–B58, B60–B99)</td>
</tr>
<tr>
<td>023</td>
<td>Neoplasms (C00–D48)</td>
</tr>
<tr>
<td>024</td>
<td>Malignant neoplasms (C00–C97)</td>
</tr>
<tr>
<td>025</td>
<td>Hodgkin's disease and non-Hodgkin's lymphomas (C81–C85)</td>
</tr>
<tr>
<td>026</td>
<td>Leukemia (C91–C95)</td>
</tr>
<tr>
<td>027</td>
<td>Other and unspecified malignant neoplasms (C00–C80, C88, C90, C96–C97)</td>
</tr>
<tr>
<td>028</td>
<td>In situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior (D00–D48)</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>029</td>
<td>Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)</td>
</tr>
<tr>
<td>030</td>
<td>Anemias (D50–D64)</td>
</tr>
<tr>
<td>031</td>
<td>Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65–D76)</td>
</tr>
<tr>
<td>032</td>
<td>Certain disorders involving the immune mechanism (D80–D89)</td>
</tr>
<tr>
<td>033</td>
<td>Endocrine, nutritional, and metabolic diseases (E00–E88)</td>
</tr>
<tr>
<td>034</td>
<td>Short stature, not elsewhere classified (E34.3)</td>
</tr>
<tr>
<td>035</td>
<td>Nutritional deficiencies (E40–E64)</td>
</tr>
<tr>
<td>036</td>
<td>Cystic fibrosis (E84)</td>
</tr>
<tr>
<td>037</td>
<td>Volume depletion, disorders of fluid, electrolyte, and acid-base balance (E86–E87)</td>
</tr>
<tr>
<td>038</td>
<td>All other endocrine, nutritional and metabolic diseases (E00–E32, E34.0–E34.2, E34.4–E34.9, E65–E83, E85, E88)</td>
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<td>042</td>
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<td>043</td>
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<td>044</td>
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<td>046</td>
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<td>052</td>
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<td>Diseases of the digestive system (K00–K92)</td>
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<td>066</td>
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<td>Certain conditions originating in the perinatal period (P00–P96)</td>
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089 = Extremely low birthweight or extreme immaturity (P07.0, P07.2)
090 = Other low birthweight or preterm (P07.1, P07.3)
091 = Disorders related to long gestation and high birthweight (P08)
092 = Birth trauma (P10–P15)
093 = Intrauterine hypoxia and birth asphyxia (P20–P21)
094 = Intrauterine hypoxia (P20)
095 = Birth asphyxia (P21)
096 = Respiratory distress of newborn (P22)
097 = Other respiratory conditions originating in the perinatal period (P23–P28)
098 = Congenital pneumonia (P23)
099 = Neonatal aspiration syndromes (P24)
100 = Interstitial emphysema and related conditions originating in the perinatal period (P25)
101 = Pulmonary hemorrhage originating in the perinatal period (P26)
102 = Chronic respiratory disease originating in the perinatal period (P27)
103 = Atelectasis (P28.0–P28.1)
104 = All other respiratory conditions originating in the perinatal period (P28.2–P28.9)
105 = Infections specific to the perinatal period (P35–P39)
106 = Bacterial sepsis of newborn (P36)
107 = Omphalitis of newborn with or without mild hemorrhage (P38)
108 = All other infections specific to the perinatal period (P35, P37, P39)
109 = Hemorrhagic and hematological disorders of newborn (P50–P61)
110 = Neonatal hemorrhage (P50–P52, P54)
111 = Hemorrhagic disease of newborn (P53)
112 = Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55–P59)
113 = Hematological disorders (P60–P61)
114 = Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0–P70.2)
115 = Necrotizing enterocolitis of newborn (P77)
116 = Hydrops fetalis not due to hemolytic disease (P83.2)
117 = Other perinatal conditions (P29, P70.3–P70.9, P71–P76, P78–P81, P83.0–P83.1, P83.3–P83.9, P90–P96)
118 = Congenital malformations, deformations, and chromosomal abnormalities (Q00–Q99)
119 = Anencephaly and similar malformations (Q00)
120 = Congenital hydrocephalus (Q03)
121 = Spina bifida (Q05)
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<td>137</td>
<td>All other diseases (Residual) (F01–F99, H00–H57, L00–M99)</td>
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<td>138</td>
<td>External causes of mortality (*U01, V01–Y84)</td>
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<td>Accidents (unintentional injuries) (V01–X59)</td>
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<td>Motor vehicle accidents (V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2)</td>
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<td>143</td>
<td>Falls (W00–W19)</td>
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<td>Accidental suffocation and strangulation in bed (W75)</td>
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<td>147</td>
<td>Other accidental suffocation and strangulation (W76–W77, W81–W84)</td>
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</tbody>
</table>
148 = Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78–W80)

149 = Accidents caused by exposure to smoke, fire, and flames (X00–X09)

150 = Accidental poisoning and exposure to noxious substances (X40–X49)


152 = Assault (homicide) (*U01, X85–Y09)

153 = Assault (homicide) by hanging strangulation and suffocation (X91)

154 = Assault (homicide) by discharge of firearms (*U01.4, X93–X95)

155 = Neglect, abandonment, and other maltreatment syndromes (Y06–Y07)

156 = Assault (homicide) by other and unspecified means (*U01.0–*U01.3, *U01.5–*U01.9, X85–X90, X92, X96–X99, Y00–Y05, Y08–Y09)

157 = Complications of medical and surgical care (Y40–Y84)

158 = Other external causes (X60–X84, Y10–Y36)

**COMMENT:** Additional information regarding these categories can be found on the CDC website (reference https://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2011.pdf).

Available for 2007 forward. Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.
**ICD_CODE_358**

**LABEL:** 358 ICD-10 Cause of Death Recodes

**DESCRIPTION:** This field groups (or recodes) the NDI ICD-10 code cause of death into 358 categories. The list reflects 358 selected causes of death.

**SHORT NAME:** ICD_CODE_358

**LONG NAME:** ICD_CODE_358

**TYPE:** CHAR

**LENGTH:** 5

**SOURCE:** Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

**VALUES:**

00100 = Certain infectious and parasitic diseases (A00–B99)

00200 = Intestinal infectious diseases (A00–A09)

00300 = Cholera (A00)

00400 = Other intestinal infectious diseases (A01–A08)

00500 = Typhoid fever (A01.0)

00600 = Paratyphoid fevers and other salmonella infections (A01.1–A01.4, A02)

00700 = Shigellosis (A03)

00800 = Other bacterial food-borne intoxications (A05)

00900 = Amebiasis (A06)

01000 = Intestinal infections due to other specified organisms (A04, A07–A08)

01100 = Diarrhea and gastroenteritis of infectious origin (A09)

01200 = Tuberculosis (A16–A19)

01300 = Respiratory tuberculosis (A16)

01400 = Other tuberculosis (A17–A19)

01500 = Zoonotic and other bacterial diseases (A20–A49)

01600 = Plague (A20)

01700 = Brucellosis (A23)

01800 = Tetanus (A33–A35)

01900 = Diphtheria (A36)

02000 = Whooping cough (A37)

02100 = Scarlet fever and erysipelas (A38, A46)

02200 = Meningococcal infection (A39)

02300 = Septicemia (A40–A41)

02400 = Other zoonotic and bacterial diseases (A21–A22, A24–A32, A42–A44, A48–A49)

02500 = Infections with a predominately sexual mode of transmission (A50–A64)

02600 = Syphilis (A50–A53)

02700 = Cardiovascular syphilis (A52.0)

02800 = Neurosyphilis (A52.1–A52.3)

02900 = Other and unspecified syphilis (A50–A51, A52.7–A52.9, A53)
03000 = Gonococcal infection (A54)
03100 = Other infections with a predominately sexual mode of transmission (A55–A64)
03200 = Other infections caused by spirochetes, chlamydia, or rickettsia (A65–A79)
03300 = Lyme disease (A69.2)
03400 = Typhus fever (A75)
03500 = All other infections caused by spirochetes, chlamydia, or rickettsia (A65–A68, A69.0–A69.1, A69.8–A69.9, A70–A74, A77–A79)
03600 = Viral diseases (A80–B34)
03700 = Acute poliomyelitis (A80)
03800 = Rabies (A82)
03900 = Arthropod-borne viral encephalitis (A83–A84, A85.2)
04000 = Yellow fever (A95)
04100 = Other and unspecified arthropod-borne viral and hemorrhagic fevers (A90–A94, A96–A99)
04200 = Herpesviral (herpes simplex) infections (B00)
04300 = Zoster (herpes zoster) (B02)
04400 = Smallpox (B03)
04500 = Measles (B05)
04600 = Rubella (German measles) (B06)
04700 = Viral hepatitis (B15–B19)
04800 = Human immunodeficiency virus (HIV) disease (B20–B24)
04900 = Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases (B20)
05000 = Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms (B21)
05100 = Human immunodeficiency virus (HIV) disease resulting in other specified diseases (B22)
05200 = Human immunodeficiency virus (HIV) disease resulting in other conditions (B23)
05300 = Unspecified human immunodeficiency virus (HIV) disease (B24)
05400 = All other and unspecified viral diseases (A81, A85.0–A85.1, A85.8, A86–A89, B01, B04, B07–B09, B25–B34)
05500 = Other and unspecified infectious and parasitic diseases and their sequelae (B35–B99)
05600 = Mycoses (B35–B49)
05700 = Protozoal diseases (B50–B64)
05800 = Malaria (B50–B54)
05900 = Leishmaniasis (B55)
06000 = Trypanosomiasis (B56–B57)
06100 = Pneumocystosis (B59)
06200 = Other and unspecified protozoal diseases (B58, B60–B64)
06300 = Helminthiases (B65–B83)
06400 = Schistosomiasis (bilharziasis) (B65)
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<td>06700</td>
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<td>Malignant neoplasms (C00–C97)</td>
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<td>07100</td>
<td>Malignant neoplasms of lip, oral cavity, and pharynx (C00–C14)</td>
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<td>07400</td>
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<td>07500</td>
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<td>Malignant neoplasms of respiratory and intrathoracic organs (C30–C39)</td>
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<td>Of thymus, heart, mediastinum, and pleura (C37–C38)</td>
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<td>Of other and ill-defined sites in respiratory system and intrathoracic organs (C39)</td>
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<td>Malignant neoplasms of bone and articular cartilage (C40–C41)</td>
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<td>10100</td>
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</table>
10200 = Kaposi’s sarcoma (C46)
10300 = Of other mesothelial and soft tissue (C47–C49)
10400 = Malignant neoplasm of breast (C50)
10500 = Malignant neoplasms of female genital organs (C51–C58)
10600 = Of vulva and vagina (C51–C52)
10700 = Of cervix uteri (C53)
10800 = Of corpus uteri and uterus, part unspecified (C54–C55)
10900 = Of ovary (C56)
11000 = Of other and unspecified female genital organs (C57)
11100 = Of placenta (C58)
11200 = Malignant neoplasms of male genital organs (C60–C63)
11300 = Of prostate (C61)
11400 = Of testis (C62)
11500 = Of penis and other and unspecified male genital organs (C60, C63)
11600 = Malignant neoplasms of urinary tract (C64–C68)
11700 = Of kidney and renal pelvis (C64–C65)
11800 = Of bladder (C67)
11900 = Of other and unspecified sites within the urinary tract (C66, C68)
12000 = Malignant neoplasm of eye and adnexa (C69)
12100 = Malignant neoplasms of meninges, brain, and other parts of central nervous system (C70–C72)
12200 = Of brain (C71)
12300 = Of other parts of central nervous system (C70, C72)
12400 = Malignant neoplasms of thyroid and other endocrine glands (C73–C75)
12500 = Other malignant neoplasms of other and unspecified sites (C76–C80, C97)
12600 = Malignant neoplasms of lymphoid, hematopoietic, and related tissue (C81–C96)
12700 = Hodgkin’s disease (C81)
12800 = Of other lymphoid, hematopoietic, and related tissue (C82–C85, C96)
12900 = Non-Hodgkin’s lymphoma (C82–C85)
13000 = Of other and unspecified lymphoid, hematopoietic, and related tissue (C96)
13100 = Malignant immunoproliferative diseases (C88)
13200 = Multiple myeloma and malignant plasma cell neoplasms (C90)
13300 = Leukemia (C91–C95)
13400 = Lymphoid leukemia (C91)
13500 = Myeloid leukemia (C92)
13600 = Monocytic leukemia (C93)
13700 = Other and unspecified leukemia (C94–C95)
13800 = In situ neoplasms (D00–D09)
13900 = Carcinoma in situ of breast and
genitourinary system (D05–D07)
14000 = Carcinoma in situ of other and
unspecified sites (D00–D04, D09)
14100 = Benign neoplasms (D10–D36)
14200 = Of female genital organs (D25–D28)
14300 = Of eye, brain, and other parts
of central nervous system
(D31–D33)
14400 = Of other and unspecified sites
(D10–D24, D29–D30, D34–D36)
14500 = Neoplasms of uncertain or
unknown behavior of specified
sites (D37–D47)
14600 = Neoplasms of uncertain or
unknown behavior of
unspecified sites (D48)
14700 = III. Diseases of the blood and
blood-forming organs and
certain disorders involving the
immune mechanism (D50–D89)
14800 = Anemias (D50–D64)
14900 = Nutritional anemias (D50–D53)
15000 = Hemolytic anemias (D55–D59)
15100 = Aplastic anemias (D60–D61)
15200 = Acute post hemorrhagic and
other anemias (D62, D64)
15300 = Coagulation defects, purpura,
and other hemorrhagic
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15500 = Certain disorders involving the
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15600 = IV. Endocrine, nutritional, and
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15700 = Endocrine diseases (E00–E34)
15800 = Disorders of thyroid gland
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15900 = Diabetes mellitus (E10–E14)
16000 = Disorders of pituitary gland
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16100 = Disorders of adrenal glands
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16200 = Diseases of thymus (E32)
16300 = Other endocrine diseases (E15–E21, E28–E31, E34)
16400 = Nutritional diseases (E40–E68)
16500 = Malnutrition (E40–E46)
16600 = Nutritional marasmus (E41)
16700 = Other and unspecified
malnutrition (E40, E42–E46)
16800 = Other nutritional deficiencies
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16900 = Obesity and other
hyperalimentation (E65–E68)
17000 = Metabolic disorders (E70–E88)
17100 = Cystic fibrosis (E84)
17200 = Volume depletion, disorders of
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balance (E86–E87)
17300 = Other metabolic disorders
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<td>Other and unspecified organic mental disorders (F04–F09)</td>
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<td>17700</td>
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<td>Mental and behavioral disorders due to other psychoactive substance use (F11–F19)</td>
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<td>19300</td>
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<td>19400</td>
<td>All other diseases of nervous system (G10–G12, G23–G25, G31, G36–G37, G43–G44, G47–G72, G81–G98)</td>
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<td>20600</td>
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<td>20700</td>
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</table>
20800 = Hypertensive renal disease (I12)
20900 = Hypertensive heart and renal disease (I13)
21000 = Ischemic heart diseases (I20–I25)
21100 = Acute myocardial infarction (I21–I22)
21200 = Other acute ischemic heart diseases (I24)
21300 = Other forms of chronic ischemic heart disease (I20, I25)
21400 = Atherosclerotic cardiovascular disease, so described (I25.0)
21500 = All other forms of chronic ischemic heart disease (I20, I25.1–I25.9)
21600 = Other heart diseases (I26–I51)
21700 = Pulmonary heart disease and diseases of pulmonary circulation (I26–I28)
21800 = Pulmonary embolism (I26)
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22100 = Acute and subacute endocarditis (I33)
22200 = Diseases of pericardium and acute myocarditis (I30–I31, I40)
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22400 = Nonrheumatic mitral valve disorders (I34)
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22600 = All other diseases of endocardium (I36–I38)
22700 = Cardiomyopathy (I42)
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22900 = Heart failure (I50)
23000 = Congestive heart failure (I50.0)
23100 = Other and unspecified heart failure (I50.1–I50.9)
23200 = Myocarditis, unspecified and myocardial degeneration (I51.4–I51.5)
23300 = All other and ill-defined forms of heart disease (I50.0–I51.3, I51.6–I51.9)
23400 = Cerebrovascular diseases (I60–I69)
23500 = Subarachnoid hemorrhage (I60)
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23700 = Cerebral infarction (I63)
23800 = Stroke, not specified as hemorrhage or infarction (I64)
23900 = Other cerebrovascular diseases and their sequelae (I67, I69)
24000 = Diseases of arteries, arterioles, and capillaries (I70–I78)
24100 = Atherosclerosis (I70)
24200 = Aortic aneurysm and dissection (I71)
24300 = Other diseases of arteries, arterioles, and capillaries (I72–I78)
24400 = Other disorders of circulatory system (I80–I99)
24500 = Phlebitis, thrombophlebitis, venous embolism, and thrombosis (I80–I82)
24600 = All other and unspecified disorders of circulatory system (I83–I99)
24700 = X. Diseases of the respiratory system (J00–J98)
24800 = Acute upper respiratory infections (J00–J06)
24900 = Acute pharyngitis and tonsillitis (J02–J03)
25000 = Acute laryngitis and tracheitis (J04)
25100 = Other and unspecified acute upper respiratory infections (J00–J01, J05–J06)
25200 = Other diseases of the respiratory system (J10–J98)
25300 = Influenza (J10–J11)
25400 = Pneumonia (J12–J18)
25500 = Viral pneumonia, not elsewhere classified (J12)
25600 = Bacterial pneumonia (J13–J15)
25700 = Pneumonia due to other or unspecified organisms (J16, J18)
25800 = Other acute lower respiratory infections (J20–J22)
25900 = Acute bronchitis and bronchiolitis (J20–J21)
26000 = Unspecified acute lower respiratory infection (J22)
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26200 = Chronic lower respiratory diseases (J40–J47)
26300 = Bronchitis, chronic and unspecified, emphysema and asthma (J40–J46)
26400 = Bronchitis, not specified as acute or chronic (J40)
26500 = Chronic bronchitis (J41–J42)
26600 = Emphysema (J43)
26700 = Other chronic obstructive pulmonary disease (J44)
26800 = Asthma (J45–J46)
26900 = Bronchiectasis (J47)
27000 = Lung diseases due to external agents (J60–J70)
27100 = Pneumoconioses and chemical effects (J60–J66, J68)
27200 = Pneumonitis due to solids and liquids (J69)
27300 = Pneumonitis due to food and vomit (J69.0)
27400 = Other pneumonitis due to solids and liquids (J69.1–J69.8)
27500 = Other lung diseases due to external agents (J67, J70)
27600 = Suppurative and necrotic conditions of lower respiratory tract (J85–J86)
27700 = Pleural effusion and plaque (J90, J92)
27800 = All other diseases of respiratory system (J80–J84, J93–J98)
27900 = XI. Diseases of the digestive system (K00–K92)
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28100 = Diseases of other parts of digestive system (K20–K92)
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28400 = Gastric ulcer (K25)
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28800 = Gastritis and duodenitis (K29)
28900 = Dyspepsia and other diseases of stomach and duodenum (K30–K31)
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29100 = Hernia (K40–K46)
29200 = Crohn’s disease and ulcerative colitis (K50–K51)
29300 = Vascular disorders and obstruction of intestine without hernia (K55–K56)
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29500 = Other diseases of intestines and peritoneum (K52, K58–K63)
29600 = Diseases of peritoneum (K65–K66)
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29900 = Chronic hepatitis, not elsewhere classified (K73)
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30100 = Other diseases of liver (K71–K72, K75–K76)
30200 = Cholelithiasis and other disorders of gallbladder (K80–K82)
30300 = Disorders of biliary tract and pancreas (K83–K86)
30400 = Pancreatitis (K85, K86.0–K86.1)
30500 = Other disorders of biliary tract and pancreas (K83, K86.2–K86.9)
30600 = All other diseases of digestive system (K90, K92)
30700 = XII. Diseases of the skin and subcutaneous tissue (L00–L98)
30800 = Infections of skin and subcutaneous tissue (L00–L08)
30900 = Other and unspecified diseases of skin and subcutaneous tissue (L10–L98)
31000 = XIII. Diseases of the musculoskeletal system and connective tissue (M00–M99)
31100 = Rheumatoid arthritis and related inflammatory polyarthropathies (M05–M08)
31200 = Systemic lupus erythematosus (M32)
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<td>31800</td>
<td>Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue (M83–M99)</td>
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<td>33100</td>
<td>Other diseases of urinary system (N28–N36, N39.1–N39.9)</td>
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<td>33200</td>
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<td>33400</td>
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<td>33500</td>
<td>Disorders of breast (N60–N64)</td>
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<td>33600</td>
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<td>34600</td>
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<td>34700</td>
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34800 = Hemorrhage of pregnancy and childbirth and placenta previa (O20, O44–O46, O67, O72)

34900 = Complications predominately related to the puerperium (O85–O92)

35000 = Obstetric embolism (O88)

35100 = Other complications predominately related to the puerperium (O85–O87, O89–O92)

35200 = All other direct obstetric causes (O10, O12, O21–O43, O47–O66, O68–O71, O73–O75)

35300 = Obstetric death of unspecified cause (O95)

35400 = Other deaths related to pregnancy, childbirth, and the puerperium (O96–O97)

35500 = Indirect obstetric deaths (O98–O99)

35600 = XVI. Certain conditions originating in the perinatal period (P00–P96)

35700 = Newborn affected by maternal factors and by complications of pregnancy, labor, and delivery (P00–P04)

35800 = Disorders related to short gestation and low birth weight, not elsewhere classified (P07)

35900 = Birth trauma (P10–P15)

36000 = Intrauterine hypoxia and birth asphyxia (P20–P21)

36100 = Respiratory distress of newborn (P22)

36200 = Other respiratory conditions originating in the perinatal period (P23–P28)

36300 = Infections specific to the perinatal period (P25–P28)

36400 = Other and unspecified conditions originating in the perinatal period (P05, P08, P29, P50–P96)

36500 = XVII. Congenital malformations, deformations, and chromosomal abnormalities (Q00–Q99)

36600 = Anencephaly and similar malformations (Q00)

36700 = Spina bifida (Q05)

36800 = All other congenital malformations of nervous system (Q01–Q04, Q06–Q07)

36900 = Congenital malformations of heart (Q20–Q24)

37000 = Other congenital malformations of circulatory system (Q25–Q28)

37100 = Congenital malformations of respiratory system (Q30–Q34)

37200 = Other congenital malformations and deformations (Q10–Q18, Q35–Q89)

37300 = Down’s syndrome (Q90)

37400 = All other chromosomal abnormalities, not elsewhere classified (Q91–Q99)

37500 = XVIII. Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)
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<td>38600</td>
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<td>38700</td>
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<td>39300</td>
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39900 = Other and unspecified land transport accidents (V01, V06, V09.1, V09.3, V09.9, V10–V11, V16–V18, V19.3, V19.8–V19.9, V80.0–V80.2, V80.7–V80.9, V87.9, V88.9, V89.1, V89.3, V89.9)

40000 = Water transport accidents (V90–V94)

40100 = Air and space transport accidents (V95–V97)

40200 = Other and unspecified transport accidents and their sequelae (V98–V99, Y85)

40300 = Falls (W00–W19)

40400 = Fall on same level (W00–W09, W18)

40500 = Fall from one level to another (W10–W17)

40600 = Unspecified fall (W19)

40700 = Accidental discharge of firearms (W32–W34)

40800 = Accidental explosion (W39–W40)

40900 = Accidental drowning and submersion (W65–W74)

41000 = Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78–W80)

41100 = Other accidental and unspecified threats to breathing (W75–W77, W81–W84)

41200 = Accidental exposure to electric current (W85–W87)

41300 = Accidental exposure to radiation (W88–W91)

41400 = Accidental exposure to smoke, fire, and flames (X00–X09)

41500 = Accidental contact with heat and hot substances (X10–X19)

41600 = Lightning (X33)

41700 = Earthquake, volcanic eruption, avalanche, landslide, and other earth movements (X34–X36)

41800 = Cataclysmic storm and flood (X37–X38)

41900 = Accidental poisoning and exposure to noxious substances (X40–X49)

42000 = Accidental poisoning by and exposure to drugs and other biological substances (X40–X44)

42100 = Accidental poisoning by and exposure to other and unspecified solid or liquids substances (X45–X46, X48–X49)

42200 = Accidental poisoning by and exposure to other gases and vapors (X47)


42400 = Intentional self-harm (suicide) (*U03, X60–X84, Y87.0)

42500 = Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances (X60–X64)
42600 = Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors (X65–X66, X68–X69)

42700 = Intentional self-poisoning (suicide) by and exposure to other gases and vapors (X67)

42800 = Intentional self-harm (suicide) by hanging, strangulation and suffocation (X70)

42900 = Intentional self-harm (suicide) by discharge of firearms (X72–X74)

43000 = Intentional self-harm (suicide) by jumping from a high place (X80)

43100 = Intentional self-harm (suicide) by all other and unspecified means and their sequelae (*U03, X71, X75–X79, X81–X84, Y87.0)

43200 = Assault (homicide) (*U01–*U02, X85–Y09, Y87.1)

43300 = Assault (homicide) by drugs, biological substances, and other and unspecified noxious substances (*U01.6–*U01.7, X85–X90)

43400 = Assault (homicide) by hanging, strangulation and suffocation (X91)

43500 = Assault (homicide) by discharge of firearms (*U01.4, X93–X95)

43600 = Assault (homicide) by sharp object (X99)

43700 = Assault (homicide) by blunt object (Y00)

43800 = Assault (homicide) by bodily force (Y04)

43900 = Sexual assault (homicide) by bodily force (Y05)

44000 = Neglect, abandonment, and other maltreatment syndromes (Y06–Y07)

44100 = Assault (homicide) by all other and unspecified means and their sequelae (*U01.0–*U01.3, *U01.5, *U01.8–*U01.9, *U02, X92, X96–X98, Y01–Y03, Y08–Y09, Y87.1)

44200 = Event of undetermined intent (Y10–Y34, Y87.2, Y89.9)

44300 = Poisoning by and exposure to drugs and biological substances, undetermined intent (Y10–Y14)

44400 = Poisoning by and exposure to other and unspecified solid or liquid substance, undetermined intent (Y15–Y16, Y18–Y19)

44500 = Poisoning by and exposure to other gases and vapors, undetermined intent (Y17)

44600 = Discharge of firearms, undetermined intent (Y22–Y24)

44700 = Falling, jumping, or pushed from a high place, undetermined intent (Y30)

44800 = All other and unspecified events of undetermined intent and their sequelae (Y20–Y21, Y25–Y29, Y31–Y34, Y87.2, Y89.9)

44900 = Legal intervention (Y35, Y89.0)

45000 = Legal execution (Y35.5)
45100 = Other legal intervention and their sequelae (Y35.0–Y35.4, Y35.6–Y35.7, Y89.0)

45200 = Operations of war and their sequelae (Y36, Y89.1)

45300 = Complications of medical and surgical care (Y40–Y84, Y88)

45400 = Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae (Y40–Y59, Y88.0)

45500 = Misadventures to patients during medical and surgical care and their sequelae (Y60–Y69, Y88.1)

45600 = Other complications of medical and surgical care and their sequelae (Y70–Y84, Y88.2–Y88.3)

**COMMENT:** Additional information regarding these categories can be found on the CDC website (reference https://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2011.pdf).

**NOTE:** This field is not populated for a large proportion of 2008 records due to source data issues.

Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.

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<table>
<thead>
<tr>
<th><strong>ICD_TITLE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LABEL:</strong> ICD-10 Cause of Death Title</td>
</tr>
<tr>
<td><strong>DESCRIPTION:</strong> This field is the narrative description of the ICD-10 cause of death code value (for variable ICD_CODE).</td>
</tr>
<tr>
<td><strong>SHORT NAME:</strong> ICD_TITLE</td>
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<tr>
<td><strong>LONG NAME:</strong> ICD_TITLE</td>
</tr>
<tr>
<td><strong>TYPE:</strong> CHAR</td>
</tr>
<tr>
<td><strong>LENGTH:</strong> 120</td>
</tr>
<tr>
<td><strong>SOURCE:</strong> CCW (derived)</td>
</tr>
<tr>
<td><strong>VALUES:</strong> —</td>
</tr>
<tr>
<td><strong>COMMENT:</strong> Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.</td>
</tr>
</tbody>
</table>

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**NDI_DEATH_DT**

**LABEL:** NDI Date of Death

**DESCRIPTION:** This variable is the date of death as reported on the Beneficiary’s death certificate.

**SHORT NAME:** NDI_DEATH_DT

**LONG NAME:** NDI_DEATH_DT

**TYPE:** DATE

**LENGTH:** 8

**SOURCE:** Centers for Disease Control and Prevention (CDC) National Death Index (NDI)

**VALUES:** —

**COMMENT:** Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.
**NDI_STATE_DEATH_CD**

**LABEL:** NDI State of Death

**DESCRIPTION:** This variable is the two-digit Social Security Administration (SSA) code for the state identified as the state where the beneficiary death occurred.

**SHORT NAME:** NDI_STATE_DEATH_CD

**LONG NAME:** NDI_STATE_DEATH_CD

**TYPE:** CHAR

**LENGTH:** 2

**SOURCE:** Centers for Disease Control and Prevention (CDC) National Death Index (NDI) and CCW (recode)

**VALUES:**

- 01 = Alabama
- 02 = Alaska
- 03 = Arizona
- 04 = Arkansas
- 05 = California
- 06 = Colorado
- 07 = Connecticut
- 08 = Delaware
- 09 = District of Columbia
- 10 = Florida
- 11 = Georgia
- 12 = Hawaii
- 13 = Idaho
- 14 = Illinois
- 15 = Indiana
- 16 = Iowa
- 17 = Kansas
- 18 = Kentucky
- 19 = Louisiana
- 20 = Maine
- 21 = Maryland
- 22 = Massachusetts
- 23 = Michigan
- 24 = Minnesota
- 25 = Mississippi
- 26 = Missouri
- 27 = Montana
- 28 = Nebraska
- 29 = Nevada
- 30 = New Hampshire
- 31 = New Jersey
- 32 = New Mexico
- 33 = New York
- 34 = North Carolina
- 35 = North Dakota
- 36 = Ohio
- 37 = Oklahoma
- 38 = Oregon
- 39 = Pennsylvania
- 40 = Puerto Rico
- 41 = Rhode Island
- 42 = South Carolina
- 43 = South Dakota
- 44 = Tennessee
- 45 = Texas
- 46 = Utah
- 47 = Vermont
- 48 = Virgin Islands
- 49 = Virginia
- 50 = Washington
- 51 = West Virginia
- 52 = Wisconsin
- 53 = Wyoming

**COMMENT:** Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA.
| RECORD_COND_1       | RECORD_COND_11      |
| RECORD_COND_2       | RECORD_COND_12      |
| RECORD_COND_3       | RECORD_COND_13      |
| RECORD_COND_4       | RECORD_COND_14      |
| RECORD_COND_5       | RECORD_COND_15      |
| RECORD_COND_6       | RECORD_COND_16      |
| RECORD_COND_7       | RECORD_COND_17      |
| RECORD_COND_8       | RECORD_COND_18      |
| RECORD_COND_9       | RECORD_COND_19      |
| RECORD_COND_10      | RECORD_COND_20      |

**LABEL:** NDI Record Axis Cause of Death

**DESCRIPTION:** This field identifies the underlying causes of death code as edited and audited by National Center for Health Statistics (NCHS).

**SHORT NAME:**

| RECORD_COND_1       | RECORD_COND_11      |
| RECORD_COND_2       | RECORD_COND_12      |
| RECORD_COND_3       | RECORD_COND_13      |
| RECORD_COND_4       | RECORD_COND_14      |
| RECORD_COND_5       | RECORD_COND_15      |
| RECORD_COND_6       | RECORD_COND_16      |
| RECORD_COND_7       | RECORD_COND_17      |
| RECORD_COND_8       | RECORD_COND_18      |
| RECORD_COND_9       | RECORD_COND_19      |
| RECORD_COND_10      | RECORD_COND_20      |

**LONG NAME:**

| RECORD_COND_1       | RECORD_COND_11      |
| RECORD_COND_2       | RECORD_COND_12      |
| RECORD_COND_3       | RECORD_COND_13      |
| RECORD_COND_4       | RECORD_COND_14      |
| RECORD_COND_5       | RECORD_COND_15      |
| RECORD_COND_6       | RECORD_COND_16      |
| RECORD_COND_7       | RECORD_COND_17      |
| RECORD_COND_8       | RECORD_COND_18      |
| RECORD_COND_9       | RECORD_COND_19      |
| RECORD_COND_10      | RECORD_COND_20      |
TYPE: CHAR
LENGTH: 5
SOURCE: Centers for Disease Control and Prevention (CDC) National Death Index (NDI)
VALUES: Each condition takes five positions in the record.
Positions 1–4: Condition Code (Reference ICD-10 codes)

NOTE: Whenever there is a 4-position code, there is always an implied decimal after the third position.
Position 5: Nature of Injury Flag
0 = all other codes (always 0 for ICD-10 codes; 1999 forward)

COMMENT: For decedents 1999–2006 there are up to 8 underlying conditions on the NDI record and for 2007 forward there are up to 20 underlying conditions (RECORD_COND_1–RECORD_COND_20). Researchers wishing to obtain this NDI segment of the MBSF must obtain an additional approval beyond the CMS DUA. There is another version of the underlying cause of death conditions that is the unedited version from the death certificate (reference ENTITY_COND_1–ENTITY_COND_20).