

# 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

Date	Changed by	Revisions	Version
December 2023	K. Schneider	Clarified available years for variables	2.4
February 2021	C. Alleman K. Russell	Migrated codebook to 2020 document template	2.3
November 2018	C. Alleman K. Schneider	Inserted statement re: missing data for ICD_CODE_358 and ICD_CODE_113	2.2
June 2018	C. Alleman	Updated values for ICD_CODE_113, ICD_CODE_130, and ICD_CODE_358	2.1
March 2018	C. Alleman K. Schneider S. Pietzsch	Added new variables received with second purchase of NDI data	2.0
May 2017	C. Alleman K. Schneider	Initial release of codebook for Master Beneficiary Summary File (MBSF) — National Death Index (NDI) Segment	1.0

## 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.

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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.

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## 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:** —

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## 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.

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## 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.

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ENTITY\_COND\_1  
ENTITY\_COND\_2  
ENTITY\_COND\_3  
ENTITY\_COND\_4  
ENTITY\_COND\_5  
ENTITY\_COND\_6  
ENTITY\_COND\_7  
ENTITY\_COND\_8  
ENTITY\_COND\_9  
ENTITY\_COND\_10

ENTITY\_COND\_11  
ENTITY\_COND\_12  
ENTITY\_COND\_13  
ENTITY\_COND\_14  
ENTITY\_COND\_15  
ENTITY\_COND\_16  
ENTITY\_COND\_17  
ENTITY\_COND\_18  
ENTITY\_COND\_19  
ENTITY\_COND\_20

**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\_2  
ENTITY\_COND\_3  
ENTITY\_COND\_4  
ENTITY\_COND\_5  
ENTITY\_COND\_6  
ENTITY\_COND\_7  
ENTITY\_COND\_8  
ENTITY\_COND\_9  
ENTITY\_COND\_10

ENTITY\_COND\_11  
ENTITY\_COND\_12  
ENTITY\_COND\_13  
ENTITY\_COND\_14  
ENTITY\_COND\_15  
ENTITY\_COND\_16  
ENTITY\_COND\_17  
ENTITY\_COND\_18  
ENTITY\_COND\_19  
ENTITY\_COND\_20

**LONG NAME:**

ENTITY\_COND\_1  
ENTITY\_COND\_2  
ENTITY\_COND\_3  
ENTITY\_COND\_4  
ENTITY\_COND\_5  
ENTITY\_COND\_6  
ENTITY\_COND\_7  
ENTITY\_COND\_8  
ENTITY\_COND\_9  
ENTITY\_COND\_10

ENTITY\_COND\_11  
ENTITY\_COND\_12  
ENTITY\_COND\_13  
ENTITY\_COND\_14  
ENTITY\_COND\_15  
ENTITY\_COND\_16  
ENTITY\_COND\_17  
ENTITY\_COND\_18  
ENTITY\_COND\_19  
ENTITY\_COND\_20

<b>TYPE:</b>	CHAR
<b>LENGTH:</b>	7
<b>SOURCE:</b>	Centers for Disease Control and Prevention (CDC) National Death Index (NDI)
<b>VALUES:</b>	<p>Each condition takes seven positions in the record</p> <p>Position1: Part/line number on certificate</p> <p>1 = Part I, line 1 (a)</p> <p>2 = Part I, line 2 (b)</p> <p>3 = Part I, line 3 (c)</p> <p>4 = Part I, line 4 (d)</p> <p>5 = Part I, line 5 (e)</p> <p>6 = Part II</p> <p>Position 2: Sequence of condition within part/line Code range 1–7</p> <p>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.</p> <p>Position 7: Nature of Injury flag</p> <p>0 = all other codes (always 0 for ICD-10 codes; 1999 forward)</p>
<b>COMMENT:</b>	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).

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## 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.

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## 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 *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 meninges, brain, and other parts of central nervous system (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)	076 = Influenza and pneumonia (J10–J18)
060 = Other acute ischemic heart diseases (I24)	077 = Influenza (J10–J11)
061 = Other forms of chronic ischemic heart disease (I20, I25)	078 = Pneumonia (J12–J18)
062 = Atherosclerotic cardiovascular disease, so described (I25.0)	079 = Other acute lower respiratory infections (J20–J22)
063 = All other forms of chronic ischemic heart disease (I20, I25.1–I25.9)	080 = Acute bronchitis and bronchiolitis (J20–J21)
064 = Other heart diseases (I26–I51)	081 = Unspecified acute lower respiratory infection (J22)
065 = Acute and subacute endocarditis (I33)	082 = Chronic lower respiratory diseases (J40–J47)
066 = Diseases of pericardium and acute myocarditis (I30–I31, I40)	083 = Bronchitis, chronic and unspecified (J40–J42)
067 = Heart failure (I50)	084 = Emphysema (J43)
068 = All other forms of heart disease (I26–I28, I34–I38, I42–I49, I51)	085 = Asthma (J45–J46)
069 = Essential (primary) hypertension and hypertensive renal disease (I10, I12)	086 = Other chronic lower respiratory diseases (J44, J47)
070 = Cerebrovascular diseases (I60–I69)	087 = Pneumoconiosis and chemical effects (J60–J66, J68)
071 = Atherosclerosis (I70)	088 = Pneumonitis due to solids and liquids (J69)
072 = Other diseases of circulatory system (I71–I78)	089 = Other diseases of respiratory system (J00–J06, J30–J39, J67, J70–J98)
073 = Aortic aneurysm and dissection (I71)	090 = Peptic ulcer (K25–K28)
074 = Other diseases of arteries, arterioles, and capillaries (I72–I78)	091 = Diseases of appendix (K35–K38)
075 = Other disorders of circulatory system (I80–I99)	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)
- 111 = All other diseases (Residual) (D65–E07, E15–E34, E65–F99, G04–G12, G23–G25, G31–H93, K00–K22, K29–K31, K50–K66, K71–K72, K75–K76, K83–M99, N13.0–N13.5, N13.7–N13.9, N14, N15.0, N15.8–N15.9, N20–N23, N28–N39, N41–N64, N80–N98)
- 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)

- |   |   |
|---|---|
| <p>120 = Accidental drowning and submersion (W65–W74)</p> <p>121 = Accidental exposure to smoke, fire, and flames (X00–X09)</p> <p>122 = Accidental poisoning and exposure to noxious substances (X40–X49)</p> <p>123 = Other and unspecified nontransport accidents and their sequelae (W20–W31, W35–W64, W75–W99, X10–X39, X50–X59, Y86)</p> <p>124 = Intentional self-harm (suicide) (*U03, X60–X84, Y87.0)</p> <p>125 = Intentional self-harm (suicide) by discharge of firearms (X72–X74)</p> <p>126 = Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03, X60–X71, X75–X84, Y87.0)</p> | <p>127 = Assault (homicide) (*U01–*U02, X85–Y09, Y87.1)</p> <p>128 = Assault (homicide) by discharge of firearms (*U01.4, X93–X95)</p> <p>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)</p> <p>130 = Legal intervention (Y35, Y89.0)</p> <p>131 = Events of undetermined intent (Y10–Y34, Y87.2, Y89.9)</p> <p>132 = Discharge of firearms, undetermined intent (Y22–Y24)</p> <p>133 = Other and unspecified events of undetermined intent and their sequelae (Y10–Y21, Y25–Y34, Y87.2, Y89.9)</p> <p>134 = Operations of war and their sequelae (Y36, Y89.1)</p> <p>135 = Complications of medical and surgical care (Y40–Y84, Y88)</p> |
|---|---|

**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.

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## 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:**

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

002 = Certain intestinal infectious diseases (A00–A08)

003 = Diarrhea and gastroenteritis of infectious origin (A09)

004 = Tuberculosis (A16–A19)

005 = Tetanus (A33, A35)

006 = Diphtheria (A36)

007 = Whooping cough (A37)

008 = Meningococcal infection (A39)

009 = Septicemia (A40–A41)

010 = Congenital syphilis (A50)

011 = Gonococcal infection (A54)

012 = Viral diseases (A80–B34)

013 = Acute poliomyelitis (A80)

014 = Varicella (chickenpox) (B01)

015 = Measles (B05)

016 = Human immunodeficiency virus (HIV) disease (B20–B24)

017 = Mumps (B26)

018 = Other and unspecified viral diseases (A81–B00, B02–B04, B06–B19, B25, B27–B34)

019 = Candidiasis (B37)

020 = Malaria (B50–B54)

021 = Pneumocystosis (B59)

022 = 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)

023 = Neoplasms (C00–D48)

024 = Malignant neoplasms (C00–C97)

025 = Hodgkin's disease and non-Hodgkin's lymphomas (C81–C85)

026 = Leukemia (C91–C95)

027 = Other and unspecified malignant neoplasms (C00–C80, C88, C90, C96–C97)

028 = In situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior (D00–D48)

029 = Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)	044 = Other diseases of nervous system (G04, G06–G11, G12.1–G12.9, G20–G72, G81–G92, G93.0, G93.2–G93.9, G95–G98)
030 = Anemias (D50–D64)	045 = Diseases of the ear and mastoid process (H60–H93)
031 = Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65–D76)	046 = Diseases of the circulatory system (I00–I99)
032 = Certain disorders involving the immune mechanism (D80–D89)	047 = Pulmonary heart disease and diseases of pulmonary circulation (I26–I28)
033 = Endocrine, nutritional, and metabolic diseases (E00–E88)	048 = Pericarditis, endocarditis, and myocarditis (I30, I33, I40)
034 = Short stature, not elsewhere classified (E34.3)	049 = Cardiomyopathy (I42)
035 = Nutritional deficiencies (E40–E64)	050 = Cardiac arrest (I46)
036 = Cystic fibrosis (E84)	051 = Cerebrovascular diseases (I60–I69)
037 = Volume depletion, disorders of fluid, electrolyte, and acid-base balance (E86–E87)	052 = All other diseases of circulatory system (I00–I25, I31, I34–I38, I44–I45, I47–I51, I70–I99)
038 = All other endocrine, nutritional and metabolic diseases (E00–E32, E34.0–E34.2, E34.4–E34.9, E65–E83, E85, E88)	053 = Diseases of the respiratory system (J00–J98)
039 = Diseases of the nervous system (G00–G98)	054 = Acute upper respiratory infections (J00–J06)
040 = Meningitis (G00, G03)	055 = Influenza and pneumonia (J10–J18)
041 = Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)	056 = Influenza (J10–J11)
042 = Infantile cerebral palsy (G80)	057 = Pneumonia (J12–J18)
043 = Anoxic brain damage, not elsewhere classified (G93.1)	058 = Acute bronchitis and acute bronchiolitis (J20–J21)
	059 = Bronchitis, chronic and unspecified (J40–J42)
	060 = Asthma (J45–J46)
	061 = Pneumonitis due to solids and liquids (J69)

- 062 = Other and unspecified diseases of respiratory system (J22, J30–J39, J43–J44, J47–J68, J70–J98)
- 063 = Diseases of the digestive system (K00–K92)
- 064 = Gastritis, duodenitis, and noninfective enteritis and colitis (K29, K50–K55)
- 065 = Hernia of abdominal cavity and intestinal obstruction without hernia (K40–K46, K56)
- 066 = All other and unspecified diseases of digestive system (K00–K28, K30–K38, K57–K92)
- 067 = Diseases of the genitourinary system (N00–N95)
- 068 = Renal failure and other disorders of kidney (N17–N19, N25, N27)
- 069 = Other and unspecified diseases of genitourinary system (N00–N15, N20–N23, N26, N28–N95)
- 070 = Certain conditions originating in the perinatal period (P00–P96)
- 071 = Newborn affected by maternal factors and by complications of pregnancy, labor, and delivery (P00–P04)
- 072 = Newborn affected by maternal hypertensive disorders (P00.0)
- 073 = Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1–P00.9)
- 074 = Newborn affected by maternal complications of pregnancy (P01)
- 075 = Newborn affected by incompetent cervix (P01.0)
- 076 = Newborn affected by premature rupture of membranes (P01.1)
- 077 = Newborn affected by multiple pregnancy (P01.5)
- 078 = Newborn affected by other maternal complications of pregnancy (P01.2–P01.4, P01.6–P01.9)
- 079 = Newborn affected by complications of placenta, cord, and membranes (P02)
- 080 = Newborn affected by complications involving placenta (P02.0–P02.3)
- 081 = Newborn affected by complications involving cord (P02.4–P02.6)
- 082 = Newborn affected by chorioamnionitis (P02.7)
- 083 = Newborn affected by other and unspecified abnormalities of membranes (P02.8–P02.9)
- 084 = Newborn affected by other complications of labor and delivery (P03)
- 085 = Newborn affected by noxious influences transmitted via placenta or breast milk (P04)
- 086 = Disorders related to length of gestation and fetal malnutrition (P05–P08)
- 087 = Slow fetal growth and fetal malnutrition (P05)
- 088 = Disorders related to short gestation and low birthweight, not elsewhere classified (P07)

089 = Extremely low birthweight or extreme immaturity (P07.0, P07.2)	106 = Bacterial sepsis of newborn (P36)
090 = Other low birthweight or preterm (P07.1, P07.3)	107 = Omphalitis of newborn with or without mild hemorrhage (P38)
091 = Disorders related to long gestation and high birthweight (P08)	108 = All other infections specific to the perinatal period (P35, P37, P39)
092 = Birth trauma (P10–P15)	109 = Hemorrhagic and hematological disorders of newborn (P50–P61)
093 = Intrauterine hypoxia and birth asphyxia (P20–P21)	110 = Neonatal hemorrhage (P50–P52, P54)
094 = Intrauterine hypoxia (P20)	111 = Hemorrhagic disease of newborn (P53)
095 = Birth asphyxia (P21)	112 = Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55–P59)
096 = Respiratory distress of newborn (P22)	113 = Hematological disorders (P60–P61)
097 = Other respiratory conditions originating in the perinatal period (P23–P28)	114 = Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0–P70.2)
098 = Congenital pneumonia (P23)	115 = Necrotizing enterocolitis of newborn (P77)
099 = Neonatal aspiration syndromes (P24)	116 = Hydrops fetalis not due to hemolytic disease (P83.2)
100 = Interstitial emphysema and related conditions originating in the perinatal period (P25)	117 = Other perinatal conditions (P29, P70.3–P70.9, P71–P76, P78–P81, P83.0–P83.1, P83.3–P83.9, P90–P96)
101 = Pulmonary hemorrhage originating in the perinatal period (P26)	118 = Congenital malformations, deformations, and chromosomal abnormalities (Q00–Q99)
102 = Chronic respiratory disease originating in the perinatal period (P27)	119 = Anencephaly and similar malformations (Q00)
103 = Atelectasis (P28.0–P28.1)	120 = Congenital hydrocephalus (Q03)
104 = All other respiratory conditions originating in the perinatal period (P28.2–P28.9)	121 = Spina bifida (Q05)
105 = Infections specific to the perinatal period (P35–P39)	

- 122 = Other congenital malformations of nervous system (Q01–Q02, Q04, Q06–Q07)
- 123 = Congenital malformations of heart (Q20–Q24)
- 124 = Other congenital malformations of circulatory system (Q25–Q28)
- 125 = Congenital malformations of respiratory system (Q30–Q34)
- 126 = Congenital malformations of digestive system (Q35–Q45)
- 127 = Congenital malformations of genitourinary system (Q50–Q64)
- 128 = Congenital malformations and deformations of musculoskeletal system, limbs, and integument (Q65–Q85)
- 129 = Down's syndrome (Q90)
- 130 = Edward's syndrome (Q91.0–Q91.3)
- 131 = Patau's syndrome (Q91.4–Q91.7)
- 132 = Other congenital malformations and deformations (Q10–Q18, Q86–Q89)
- 133 = Other chromosomal abnormalities, not elsewhere classified (Q92–Q99)
- 134 = Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)
- 135 = Sudden infant death syndrome (R95)
- 136 = Other symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00–R53, R55–R94, R96–R99)
- 137 = All other diseases (Residual) (F01–F99, H00–H57, L00–M99)
- 138 = External causes of mortality (\*U01, V01–Y84)
- 139 = Accidents (unintentional injuries) (V01–X59)
- 140 = Transport accidents (V01–V99)
- 141 = 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)
- 142 = Other and unspecified 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, V90–V99)
- 143 = Falls (W00–W19)
- 144 = Accidental discharge of firearms (W32–W34)
- 145 = Accidental drowning and submersion (W65–W74)
- 146 = Accidental suffocation and strangulation in bed (W75)
- 147 = Other accidental suffocation and strangulation (W76–W77, W81–W84)

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|---|--|
| <p>148 = Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78–W80)</p> <p>149 = Accidents caused by exposure to smoke, fire, and flames (X00–X09)</p> <p>150 = Accidental poisoning and exposure to noxious substances (X40–X49)</p> <p>151 = Other and unspecified accidents (W20–W31, W35–W64, W85–W99, X10–X39, X50–X59)</p> <p>152 = Assault (homicide) (*U01, X85–Y09)</p> | <p>153 = Assault (homicide) by hanging strangulation and suffocation (X91)</p> <p>154 = Assault (homicide) by discharge of firearms (*U01.4, X93–X95)</p> <p>155 = Neglect, abandonment, and other maltreatment syndromes (Y06–Y07)</p> <p>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)</p> <p>157 = Complications of medical and surgical care (Y40–Y84)</p> <p>158 = Other external causes (X60–X84, Y10–Y36)</p> |
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**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.

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## 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)	01500 = Zoonotic and other bacterial diseases (A20–A49)
00200 = Intestinal infectious diseases (A00–A09)	01600 = Plague (A20)
00300 = Cholera (A00)	01700 = Brucellosis (A23)
00400 = Other intestinal infectious diseases (A01–A08)	01800 = Tetanus (A33–A35)
00500 = Typhoid fever (A01.0)	01900 = Diphtheria (A36)
00600 = Paratyphoid fevers and other salmonella infections (A01.1–A01.4, A02)	02000 = Whooping cough (A37)
00700 = Shigellosis (A03)	02100 = Scarlet fever and erysipelas (A38, A46)
00800 = Other bacterial food-borne intoxications (A05)	02200 = Meningococcal infection (A39)
00900 = Amebiasis (A06)	02300 = Septicemia (A40–A41)
01000 = Intestinal infections due to other specified organisms (A04, A07–A08)	02400 = Other zoonotic and bacterial diseases (A21–A22, A24–A32, A42–A44, A48–A49)
01100 = Diarrhea and gastroenteritis of infectious origin (A09)	02500 = Infections with a predominately sexual mode of transmission (A50–A64)
01200 = Tuberculosis (A16–A19)	02600 = Syphilis (A50–A53)
01300 = Respiratory tuberculosis (A16)	02700 = Cardiovascular syphilis (A52.0)
01400 = Other tuberculosis (A17–A19)	02800 = Neurosyphilis (A52.1–A52.3)
	02900 = Other and unspecified syphilis (A50–A51, A52.7–A52.9, A53)

03000 = Gonococcal infection (A54)	04900 = Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases (B20)
03100 = Other infections with a predominately sexual mode of transmission (A55–A64)	05000 = Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms (B21)
03200 = Other infections caused by spirochetes, chlamydia, or rickettsia (A65–A79)	05100 = Human immunodeficiency virus (HIV) disease resulting in other specified diseases (B22)
03300 = Lyme disease (A69.2)	05200 = Human immunodeficiency virus (HIV) disease resulting in other conditions (B23)
03400 = Typhus fever (A75)	05300 = Unspecified human immunodeficiency virus (HIV) disease (B24)
03500 = All other infections caused by spirochetes, chlamydia, or rickettsia (A65–A68, A69.0–A69.1, A69.8–A69.9, A70–A74, A77–A79)	05400 = All other and unspecified viral diseases (A81, A85.0–A85.1, A85.8, A86–A89, B01, B04, B07–B09, B25–B34)
03600 = Viral diseases (A80–B34)	05500 = Other and unspecified infectious and parasitic diseases and their sequelae (B35–B99)
03700 = Acute poliomyelitis (A80)	05600 = Mycoses (B35–B49)
03800 = Rabies (A82)	05700 = Protozoal diseases (B50–B64)
03900 = Arthropod-borne viral encephalitis (A83–A84, A85.2)	05800 = Malaria (B50–B54)
04000 = Yellow fever (A95)	05900 = Leishmaniasis (B55)
04100 = Other and unspecified arthropod-borne viral and hemorrhagic fevers (A90–A94, A96–A99)	06000 = Trypanosomiasis (B56–B57)
04200 = Herpesviral (herpes simplex) infections (B00)	06100 = Pneumocystosis (B59)
04300 = Zoster (herpes zoster) (B02)	06200 = Other and unspecified protozoal diseases (B58, B60–B64)
04400 = Smallpox (B03)	06300 = Helminthiasis (B65–B83)
04500 = Measles (B05)	06400 = Schistosomiasis (bilharziasis) (B65)
04600 = Rubella (German measles) (B06)	
04700 = Viral hepatitis (B15–B19)	
04800 = Human immunodeficiency virus (HIV) disease (B20–B24)	

06500 = Other and unspecified helminthiases (B66–B83)	08500 = Liver (C22.0, C22.2–C22.9)
06600 = Sequelae of tuberculosis (B90)	08600 = Intrahepatic bile duct carcinoma (C22.1)
06700 = Sequelae of poliomyelitis (B91)	08700 = Of gallbladder and extrahepatic bile ducts (C23–C24)
06800 = All other and unspecified infectious and parasitic diseases and their sequelae (B85–B89, B92–B99)	08800 = Of pancreas (C25)
06900 = II. Neoplasms (C00–D48)	08900 = Of other and ill-defined digestive organs (C26)
07000 = Malignant neoplasms (C00–C97)	09000 = Malignant neoplasms of respiratory and intrathoracic organs (C30–C39)
07100 = Malignant neoplasms of lip, oral cavity, and pharynx (C00–C14)	09100 = Of nasal cavity, middle ear, and accessory sinuses (C30–C31)
07200 = Of lip (C00)	09200 = Of larynx (C32)
07300 = Of tongue (C01–C02)	09300 = Of trachea, bronchus, and lung (C33–C34)
07400 = Of pharynx (C10–C13, C14.0)	09400 = Of thymus, heart, mediastinum, and pleura (C37–C38)
07500 = Of other and unspecified sites within the lip, oral cavity, and pharynx (C03–C09, C14.2–C14.8)	09500 = Of other and ill-defined sites in respiratory system and intrathoracic organs (C39)
07600 = Malignant neoplasms of digestive organs (C15–C26)	09600 = Malignant neoplasms of bone and articular cartilage (C40–C41)
07700 = Of esophagus (C15)	09700 = Melanoma and other malignant neoplasms of skin (C43–C44)
07800 = Of stomach (C16)	09800 = Malignant melanoma of skin (C43)
07900 = Of small intestine (C17)	09900 = Other malignant neoplasms of skin (C44)
08000 = Of colon, rectum, and anus (C18–C21)	10000 = Malignant neoplasms of mesothelial and soft tissue (C45–C49)
08100 = Colon (C18)	10100 = Mesothelioma (C45)
08200 = Rectosigmoid junction and rectum (C19–C20)	
08300 = Anus and anus canal (C21)	
08400 = Of liver and intrahepatic bile ducts (C22)	

10200 = Kaposi's sarcoma (C46)	12100 = Malignant neoplasms of meninges, brain, and other parts of central nervous system (C70–C72)
10300 = Of other mesothelial and soft tissue (C47–C49)	12200 = Of brain (C71)
10400 = Malignant neoplasm of breast (C50)	12300 = Of other parts of central nervous system (C70, C72)
10500 = Malignant neoplasms of female genital organs (C51–C58)	12400 = Malignant neoplasms of thyroid and other endocrine glands (C73–C75)
10600 = Of vulva and vagina (C51–C52)	12500 = Other malignant neoplasms of other and unspecified sites (C76–C80, C97)
10700 = Of cervix uteri (C53)	12600 = Malignant neoplasms of lymphoid, hematopoietic, and related tissue (C81–C96)
10800 = Of corpus uteri and uterus, part unspecified (C54–C55)	12700 = Hodgkin's disease (C81)
10900 = Of ovary (C56)	12800 = Of other lymphoid, hematopoietic, and related tissue (C82–C85, C96)
11000 = Of other and unspecified female genital organs (C57)	12900 = Non-Hodgkin's lymphoma (C82–C85)
11100 = Of placenta (C58)	13000 = Of other and unspecified lymphoid, hematopoietic, and related tissue (C96)
11200 = Malignant neoplasms of male genital organs (C60–C63)	13100 = Malignant immunoproliferative diseases (C88)
11300 = Of prostate (C61)	13200 = Multiple myeloma and malignant plasma cell neoplasms (C90)
11400 = Of testis (C62)	13300 = Leukemia (C91–C95)
11500 = Of penis and other and unspecified male genital organs (C60, C63)	13400 = Lymphoid leukemia (C91)
11600 = Malignant neoplasms of urinary tract (C64–C68)	13500 = Myeloid leukemia (C92)
11700 = Of kidney and renal pelvis (C64–C65)	13600 = Monocytic leukemia (C93)
11800 = Of bladder (C67)	13700 = Other and unspecified leukemia (C94–C95)
11900 = Of other and unspecified sites within the urinary tract (C66, C68)	
12000 = Malignant neoplasm of eye and adnexa (C69)	

13800 = In situ neoplasms (D00–D09)	15400 = Other diseases of blood and blood-forming organs (D70–D76)
13900 = Carcinoma in situ of breast and genitourinary system (D05–D07)	15500 = Certain disorders involving the immune mechanism (D80–D89)
14000 = Carcinoma in situ of other and unspecified sites (D00–D04, D09)	15600 = IV. Endocrine, nutritional, and metabolic diseases (E00–E88)
14100 = Benign neoplasms (D10–D36)	15700 = Endocrine diseases (E00–E34)
14200 = Of female genital organs (D25–D28)	15800 = Disorders of thyroid gland (E00–E07)
14300 = Of eye, brain, and other parts of central nervous system (D31–D33)	15900 = Diabetes mellitus (E10–E14)
14400 = Of other and unspecified sites (D10–D24, D29–D30, D34–D36)	16000 = Disorders of pituitary gland (E22–E23)
14500 = Neoplasms of uncertain or unknown behavior of specified sites (D37–D47)	16100 = Disorders of adrenal glands (E24–E27)
14600 = Neoplasms of uncertain or unknown behavior of unspecified sites (D48)	16200 = Diseases of thymus (E32)
14700 = III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)	16300 = Other endocrine diseases (E15–E21, E28–E31, E34)
14800 = Anemias (D50–D64)	16400 = Nutritional diseases (E40–E68)
14900 = Nutritional anemias (D50–D53)	16500 = Malnutrition (E40–E46)
15000 = Hemolytic anemias (D55–D59)	16600 = Nutritional marasmus (E41)
15100 = Aplastic anemias (D60–D61)	16700 = Other and unspecified malnutrition (E40, E42–E46)
15200 = Acute post hemorrhagic and other anemias (D62, D64)	16800 = Other nutritional deficiencies (E50–E64)
15300 = Coagulation defects, purpura, and other hemorrhagic conditions (D65–D69)	16900 = Obesity and other hyperalimentation (E65–E68)
	17000 = Metabolic disorders (E70–E88)
	17100 = Cystic fibrosis (E84)
	17200 = Volume depletion, disorders of fluid, electrolyte, and acid-base balance (E86–E87)
	17300 = Other metabolic disorders (E70–E83, E85, E88)

17400 = V. Mental and behavioral disorders (F01–F99)	19100 = Epilepsy (G40–G41)
17500 = Organic dementia (F01, F03)	19200 = Transient cerebral ischemic attacks and related syndromes (G45)
17600 = Other and unspecified organic mental disorders (F04–F09)	19300 = Infantile cerebral palsy (G80)
17700 = Mental and behavioral disorders due to psychoactive substance use (F10–F19)	19400 = All other diseases of nervous system (G10–G12, G23–G25, G31, G36–G37, G43–G44, G47–G72, G81–G98)
17800 = Mental and behavioral disorders due to use of alcohol (F10)	19500 = VII. Diseases of the eye and adnexa (H00–H57)
17900 = Mental and behavioral disorders due to other psychoactive substance use (F11–F19)	19600 = VIII. Diseases of the ear and mastoid process (H60–H93)
18000 = Schizophrenia, schizotypal and delusional disorders (F20–F29)	19700 = IX. Diseases of the circulatory system (I00–I99)
18100 = Mood (affective) disorders (F30–F39)	19800 = Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)
18200 = Neurotic, stress-related and somatoform disorders (F40–F48)	19900 = Acute rheumatic fever (I00–I02)
18300 = Mental retardation (F70–F79)	20000 = Chronic rheumatic heart diseases (I05–I09)
18400 = Other and unspecified mental and behavioral disorders (F50–F69, F80–F99)	20100 = Rheumatic mitral valve diseases (I05)
18500 = VI. Diseases of the nervous system (G00–G98)	20200 = Rheumatic aortic valve diseases (I06)
18600 = Meningitis (G00, G03)	20300 = Disorders of both mitral and aortic valves (I08.0)
18700 = Other inflammatory diseases of central nervous system (G04–G09)	20400 = Other chronic rheumatic heart diseases (I07, I08.1–I08.9, I09)
18800 = Parkinson’s disease (G20–G21)	20500 = Hypertensive diseases (I10–I13)
18900 = Alzheimer’s disease (G30)	20600 = Essential (primary) hypertension (I10)
19000 = Multiple sclerosis (G35)	20700 = Hypertensive heart disease (I11)

20800 = Hypertensive renal disease (I12)	22500 = Nonrheumatic aortic valve disorders (I35)
20900 = Hypertensive heart and renal disease (I13)	22600 = All other diseases of endocardium (I36–I38)
21000 = Ischemic heart diseases (I20–I25)	22700 = Cardiomyopathy (I42)
21100 = Acute myocardial infarction (I21–I22)	22800 = Conduction disorders and cardiac dysrhythmias (I44–I49)
21200 = Other acute ischemic heart diseases (I24)	22900 = Heart failure (I50)
21300 = Other forms of chronic ischemic heart disease (I20, I25)	23000 = Congestive heart failure (I50.0)
21400 = Atherosclerotic cardiovascular disease, so described (I25.0)	23100 = Other and unspecified heart failure (I50.1–I50.9)
21500 = All other forms of chronic ischemic heart disease (I20, I25.1–I25.9)	23200 = Myocarditis, unspecified and myocardial degeneration (I51.4–I51.5)
21600 = Other heart diseases (I26–I51)	23300 = All other and ill-defined forms of heart disease (I50.0–I51.3, I51.6–I51.9)
21700 = Pulmonary heart disease and diseases of pulmonary circulation (I26–I28)	23400 = Cerebrovascular diseases (I60–I69)
21800 = Pulmonary embolism (I26)	23500 = Subarachnoid hemorrhage (I60)
21900 = Other pulmonary heart disease and diseases of pulmonary circulation (I27–I28)	23600 = Intracerebral and other intracranial hemorrhage (I61–I62)
22000 = Other non-pulmonary forms of heart disease (I30–I51)	23700 = Cerebral infarction (I63)
22100 = Acute and subacute endocarditis (I33)	23800 = Stroke, not specified as hemorrhage or infarction (I64)
22200 = Diseases of pericardium and acute myocarditis (I30–I31, I40)	23900 = Other cerebrovascular diseases and their sequelae (I67, I69)
22300 = Other diseases of endocardium (I34–I38)	24000 = Diseases of arteries, arterioles, and capillaries (I70–I78)
22400 = Nonrheumatic mitral valve disorders (I34)	24100 = Atherosclerosis (I70)
	24200 = Aortic aneurysm and dissection (I71)

24300 = Other diseases of arteries, arterioles, and capillaries (I72–I78)	26000 = Unspecified acute lower respiratory infection (J22)
24400 = Other disorders of circulatory system (I80–I99)	26100 = Other diseases of upper respiratory tract (J30–J39)
24500 = Phlebitis, thrombophlebitis, venous embolism, and thrombosis (I80–I82)	26200 = Chronic lower respiratory diseases (J40–J47)
24600 = All other and unspecified disorders of circulatory system (I83–I99)	26300 = Bronchitis, chronic and unspecified, emphysema and asthma (J40–J46)
24700 = X. Diseases of the respiratory system (J00–J98)	26400 = Bronchitis, not specified as acute or chronic (J40)
24800 = Acute upper respiratory infections (J00–J06)	26500 = Chronic bronchitis (J41–J42)
24900 = Acute pharyngitis and tonsillitis (J02–J03)	26600 = Emphysema (J43)
25000 = Acute laryngitis and tracheitis (J04)	26700 = Other chronic obstructive pulmonary disease (J44)
25100 = Other and unspecified acute upper respiratory infections (J00–J01, J05–J06)	26800 = Asthma (J45–J46)
25200 = Other diseases of the respiratory system (J10–J98)	26900 = Bronchiectasis (J47)
25300 = Influenza (J10–J11)	27000 = Lung diseases due to external agents (J60–J70)
25400 = Pneumonia (J12–J18)	27100 = Pneumoconioses and chemical effects (J60–J66, J68)
25500 = Viral pneumonia, not elsewhere classified (J12)	27200 = Pneumonitis due to solids and liquids (J69)
25600 = Bacterial pneumonia (J13–J15)	27300 = Pneumonitis due to food and vomit (J69.0)
25700 = Pneumonia due to other or unspecified organisms (J16, J18)	27400 = Other pneumonitis due to solids and liquids (J69.1–J69.8)
25800 = Other acute lower respiratory infections (J20–J22)	27500 = Other lung diseases due to external agents (J67, J70)
25900 = Acute bronchitis and bronchiolitis (J20–J21)	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)	29600 = Diseases of peritoneum (K65–K66)
27900 = XI. Diseases of the digestive system (K00–K92)	29700 = Diseases of liver (K70–K76)
28000 = Diseases of oral cavity, salivary glands, and jaws (K00–K14)	29800 = Alcoholic liver disease (K70)
28100 = Diseases of other parts of digestive system (K20–K92)	29900 = Chronic hepatitis, not elsewhere classified (K73)
28200 = Diseases of esophagus (K20–K22)	30000 = Fibrosis and cirrhosis of liver (K74)
28300 = Peptic ulcer (K25–K28)	30100 = Other diseases of liver (K71–K72, K75–K76)
28400 = Gastric ulcer (K25)	30200 = Cholelithiasis and other disorders of gallbladder (K80–K82)
28500 = Duodenal ulcer (K26)	30300 = Disorders of biliary tract and pancreas (K83–K86)
28600 = Peptic ulcer, site unspecified (K27)	30400 = Pancreatitis (K85, K86.0–K86.1)
28700 = Gastrojejunal ulcer (K28)	30500 = Other disorders of biliary tract and pancreas (K83, K86.2–K86.9)
28800 = Gastritis and duodenitis (K29)	30600 = All other diseases of digestive system (K90, K92)
28900 = Dyspepsia and other diseases of stomach and duodenum (K30–K31)	30700 = XII. Diseases of the skin and subcutaneous tissue (L00–L98)
29000 = Diseases of appendix (K35–K38)	30800 = Infections of skin and subcutaneous tissue (L00–L08)
29100 = Hernia (K40–K46)	30900 = Other and unspecified diseases of skin and subcutaneous tissue (L10–L98)
29200 = Crohn’s disease and ulcerative colitis (K50–K51)	31000 = XIII. Diseases of the musculoskeletal system and connective tissue (M00–M99)
29300 = Vascular disorders and obstruction of intestine without hernia (K55–K56)	31100 = Rheumatoid arthritis and related inflammatory polyarthropathies (M05–M08)
29400 = Diverticular disease of intestine (K57)	31200 = Systemic lupus erythematosus (M32)
29500 = Other diseases of intestines and peritoneum (K52, K58–K63)	

31300 = Other arthropathies and related disorders (M00, M02, M10–M31, M33–M35)

31400 = Dorsopathies (M40–M54)

31500 = Soft tissue disorders (M60–M79)

31600 = Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue (M80–M99)

31700 = Osteoporosis (M80–M81)

31800 = Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue (M83–M99)

31900 = XIV. Diseases of the genitourinary system (N00–N98)

32000 = Diseases of urinary system (N00–N39)

32100 = Glomerular and renal tubule-  
interstitial diseases (N00–N15)

32200 = Glomerular diseases (N00–N07)

32300 = Acute and rapidly progressive nephritic syndrome (N00–N01)

32400 = Nephrotic syndrome (N04)

32500 = Other and unspecified glomerular diseases (N02–N03, N05–N07)

32600 = Renal tubulo-interstitial diseases (N10–N15)

32700 = Renal failure (N17–N19)

32800 = Urolithiasis (N20–N23)

32900 = Other and unspecified disorders of kidney (N25–N27)

33000 = Urinary tract infection, site not specified (N39.0)

33100 = Other diseases of urinary system (N28–N36, N39.1–N39.9)

33200 = Diseases of male genital organs (N40–N50)

33300 = Hyperplasia of prostate (N40)

33400 = Other diseases of male genital organs (N41–N50)

33500 = Disorders of breast (N60–N64)

33600 = Disorders of female genital organs (N70–N98)

33700 = Inflammatory diseases of female pelvic organs (N70–N76)

33800 = Noninflammatory disorders of female genital tract (N80–N98)

33900 = XV. Pregnancy, childbirth, and the puerperium (O00–O99)

34000 = Pregnancy with abortive outcome (O00–O07)

34100 = Ectopic pregnancy (O00)

34200 = Spontaneous abortion (O03)

34300 = Medical abortion (O04)

34400 = Other abortion (O05)

34500 = Other and unspecified pregnancy with abortive outcome (O01–O02, O06–O07)

34600 = Other direct obstetric deaths (O10–O92)

34700 = Eclampsia and pre-eclampsia (O11, O13–O16)

- 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 (P35–P39)
- 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)

- 37600 = Senility (R54)
- 37700 = Ill-defined and unknown causes of mortality (R95–R99)
- 37800 = Sudden infant death syndrome (R95)
- 37900 = Other ill-defined and unknown causes of mortality (R96–R99)
- 38000 = All other symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00–R53, R55–R94)
- 38100 = XX. External causes of mortality (\*U01–\*U03, V01–Y89)
- 38200 = Accidents (unintentional injuries) (V01–X59, Y85–Y86)
- 38300 = Transport accidents (V01–V99, Y85)
- 38400 = Railway accidents (V05, V15, V80.6, V81.2–V81.9)
- 38500 = 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)
- 38600 = Pedestrian involved in collision with motor vehicle (V02–V04)
- 38700 = Pedalcyclist involved in collision with motor vehicle (V12–V14, V19.0–V19.2, V19.4–V19.6)
- 38800 = Motorcyclist involved in any accident except collision with railway train (V20–V24, V26–V34, V36–V39)
- 38900 = Motor vehicle accident involving collision with railway train (V25, V35, V45, V55, V65, V75, V81.0–V81.1, V87.6, V88.6)
- 39000 = Motorcyclist involved in collision with railway train (V25, V35)
- 39100 = Other motor vehicle accident involving collision with railway train (V45, V55, V65, V75, V81.0–V81.1, V87.6, V88.6)
- 39200 = Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal, or pedestrian (V40–V41, V46–V47, V50–V51, V56–V57, V60–V61, V66–V67, V70–V71, V76–V77)
- 39300 = Occupant of car, pickup truck or van involved in collision with other motor vehicle (V42–V44, V49, V52–V54, V59)
- 39400 = Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle (V62–V64, V69, V72–V74, V79)
- 39500 = Occupant of motor vehicle involved in no collision accident (V48, V58, V68, V78)
- 39600 = Occupant of special-use motor vehicle involved in any accident (V83–V86)
- 39700 = Other and unspecified motor vehicle accidents (V09.0, V09.2, V80.3–V80.5, V82.0–V82.1, V87.0–V87.5, V87.7–V87.8, V88.0–V88.5, V88.7–V88.8, V89.0, V89.2)
- 39800 = Streetcar accidents (V82.2–V82.9)

- 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)
- 42300 = All other and unspecified accidents and their sequelae (W20–W31, W35–W38, W41–W64, W92–W99, X20–X32, X39, X50–X59, Y86)
- 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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## ICD\_TITLE

**LABEL:** ICD-10 Cause of Death Title

**DESCRIPTION:** This field is the narrative description of the ICD-10 cause of death code value (for variable ICD\_CODE).

**SHORT NAME:** ICD\_TITLE

**LONG NAME:** ICD\_TITLE

**TYPE:** CHAR

**LENGTH:** 120

**SOURCE:** CCW (derived)

**VALUES:** —

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

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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.

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

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

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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).

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