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# **Instruction Manual**

## **Part 11**

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**Computer Edits for Mortality Data, Including Separate Section for Fetal Deaths  
Effective 2012**

From the CENTERS FOR DISEASE CONTROL AND PREVENTION/ National Center for Health Statistics

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# **Instruction Manual**

## **Part 11**

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### **Computer Edits for Mortality Data, Including Separate Section for Fetal Deaths Effective 2012**

**Vital Statistics**  
Data Preparation

U.S. DEPARTMENT of HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
National Center for Health Statistics  
Hyattsville, Maryland  
**August, 2012**

## Acknowledgments

This instruction manual was prepared by the Division of Vital Statistics (DVS) under the general direction of Robert N. Anderson, Ph.D., Chief of the Mortality Statistics Branch (MSB) and Charles Rothwell, Director of DVS. Arialdi Minino (MSB) wrote the text and coordinated production of the manual. Donna Glenn (ret.) of Mortality Medical Classification Branch (MMCB), Joyce Bius (ret.), Tanya Pitts (ret.), Julia Raynor (ret.), June Pearce, and Tyinga Crawford (MMCB, DVS) provided expertise in creating the valid and invalid ICD-10 codes and the edits. Sherry L. Murphy, Donna L. Hoyert, Robert N. Anderson and Kenneth D. Kochanek provided review of the instruction manual. David Johnson of the Systems, Programming, and Statistical Resources Branch, (DVS) provided review of the demographic edits.

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Computer Systems: Systems Programming, and Statistical Resources Branch, Division of Vital Statistics, National Center for Health Statistics, 3311 Toledo Road, Hyattsville, Maryland 20782.

Questions concerning interpretation of mortality data should be referred to the Mortality Statistics Branch, Division of Vital Statistics, National Center for Health Statistics, 3311 Toledo Road, Room 7318, Hyattsville, Maryland 20782.

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VITAL STATISTICS COMPUTER EDITS  
FOR  
MORTALITY DATA, EFFECTIVE **2012**

I. INTRODUCTION

A. Purpose of This Manual

This manual presents a comprehensive description of the mainframe computer edits used by the National Center for Health Statistics (NCHS) in processing mortality data. **Relative to the last revision published<sup>+</sup>, this manual includes edits that are effective for data year 2012.** The edits include both medical edits for the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems, Corrected and Updated by NCHS (ICD-10) and demographic edits. Edits for three different applications are discussed in this manual:

- (1) the final mortality file which consists of death certificates filed for all deaths occurring in the United States in a calendar year. For this file, the data are tabulated and published annually.
- (2) the preliminary mortality file which is based on a continuous receipt of a large sample of death certificates that are processed and tabulated on a semi-annual basis for U.S. deaths occurring in the 12-month period January-December. The purpose of the preliminary mortality file is to produce data on an expedited basis compared with the final file.
- (3) the fetal death file which is based on reports of fetal death received by NCHS from State registration offices. All 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam participate in the fetal-death reporting system. The U.S. Standard Report of Fetal Death issued by the Public Health Service (last revision 2003) served as a model to attain uniformity in the contents of documents used to collect fetal mortality information. The fetal death file is separate from the mortality files discussed above.

<sup>+</sup> "Instruction Manual Part 11: Computer Edits for Mortality Data, Including Separate Section for Fetal Deaths, Effective **2011**." [http://www.cdc.gov/nchs/data/dvs/2011\\_PT11\\_26JAN2011.pdf](http://www.cdc.gov/nchs/data/dvs/2011_PT11_26JAN2011.pdf)

It should be noted that the final mortality file essentially consists of the January-December preliminary mortality file plus all additional and adjudicated death records received through nine months after the end of the calendar year.

Edits used for mainframe processing of the final mortality file are likely to be of greatest relevance and interest to the States, while edits used for the preliminary file are used by NCHS on a current flow to produce annual preliminary mortality statistics.

Both the final and the preliminary mortality files are generated through a series of processing steps including data collection, data entry, and computer processing. Editing of the coded data to assure code validity and consistency among variables is carried out at both the data entry and mainframe computer processing stages. The data entry edits, performed either manually or interactively on a data entry computer, enable detection and correction of major inconsistencies at the point of data entry. The mainframe edits utilize greater computer capability to provide a more comprehensive edit, yet generally require reject reconciliation for correction of errors. Thus, the data entry edits are composed of a small selective subset of the more comprehensive mainframe edits. This manual contains only the mainframe edits.

The mainframe computer edits are performed at strategic locations (appropriate to their function and application) within the processing flow. They are applied only after the data have passed key entry quality control standards and key entry edit criteria.



B. Revisions from Previous Manual

Changes between this manual and the previous one (effective **2011**) are shown in **bold** print. Codes and text that have been deleted from tables have been ~~struck out~~ and the text color appears lighter.

Following is a summary of the major changes:

**1. The following changes were made to the table for age / cause and sex / cause consistency edits for ICD-10 codes valid for both underlying and multiple cause-of-death classification (table G):**

- The “absolute” edit on sex was dropped for code Q963. (The prior edit on the entire rubric Q96 was deleted and, instead, individual edits now appear for ICD codes Q96.0-2, Q96.4,8,9.)

**2. An item was added to the list of infrequent and rare cause-of-death edits for underlying and multiple cause-of-death classification (table J). Rotaviral enteritis (A08.0) is considered as “infrequent” or “rare” if it occurs in children under 5 years old.**

**3. The following ICD-10 codes were added to the table of codes valid for causes of fetal death (table L): E220, E343, G938, K070, K071, K078, K079, N328, Y25-Y29, Y32-Y34, Y360-Y362, Y364-Y369.**

**ICD-10 codes Q356, S312, S313, S314, S374, S375, S376, T384, T385, and T833 were removed from this table. Also, substitutions were made on codes that were incorrectly presented showing only three digits. Now, their four-digit representations are showing. These include: A090 and A099 for A09; X340, X341, X348, X349 for X34; X590 and X599 for X59.**

**4. The following changes were made to the table for sex / cause and plurality / cause consistency edits for ICD-10 (codes valid for cause of fetal death) (table M):**

- The edit for code Q96.3 was removed from Table M.

## II. FINAL MORTALITY FILE COMPUTER EDITS

The final mortality file is used to produce annual detailed tabulations of demographic and geographic data and contains both underlying and multiple cause-of-death data. The demographic and medical data are entered and processed separately. The demographic data are first key entered and sample verified with interactive key entry editing. The resultant demographic record is then established as a master control record in checks of file completeness and subsequent edits of the geographic, demographic, and control variables. On a separate track, the medical data are key entered and sample verified. The mainframe edits are then applied to check code validity for each variable. Finally, the demographic and medical data are merged into one composite record at which point demographic/medical consistency edits are applied. In addition, this stage rechecks medical code validity and lists rare causes for review.

Since NCHS receives the death records on a flow basis, all of the above edits are performed on a continuous basis and records that fail the edits are adjudicated on a continuous basis. At the time the final mortality file is closed (9 months after the end of the data year), all records have been included in the file and adjudicated.

It should be noted that at many points during the processing of the file computer software will reject records for reasons other than failure to meet the edit criteria in this manual. In particular, the MICAR<sup>1</sup>, ACME<sup>2</sup>, and TRANSAX<sup>3</sup> automatic coding systems reject records for resolution of issues which cannot be handled automatically.

The automated edits are designed to (1) assure code validity for each variable and (2) verify codes or code combinations which are considered either impossible or unlikely occurrences. Additionally, for certain demographic variables, the edits convert codes which are unacceptable for statistical analysis to acceptable codes. In edit failures, the proper code is determined in one of two ways. In specific situations, the proper code is imputed or automatically generated without reference to the source certificate. In other situations, the

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<sup>1</sup>Acronym for Mortality Medical Indexing, Classification, and Retrieval which is used to initially enter cause-of-death information.

<sup>2</sup>Acronym for Automated Classification of Medical Entities system which checks the condition codes for validity and automatically assigns the underlying cause of death from the condition codes.

<sup>3</sup>Acronym for Translation of Axis system which translates the condition codes from an entity axis of classification to a record axis of classification for purposes of general multiple cause tabulation and analysis.

record is rejected and listed for adjudication of the codes with the information in the source document and/or with the State health department.

The kind of action is dependent on the variable category involved in the edit. Edits for unlikely occurrences (conditional edits) are always checked with the source document. When a data record is edit rejected, the corrected record is once again processed through the edits to verify passage of the edit (conditional edits are deactivated in the second pass). The edits and their resulting actions are summarized in table A.

A detailed description of all mainframe computer edits is provided below.

A. Demographic Items

Table B-1 provides, for each demographic variable, the edit criteria (if any) which are applied to each category of the variable. This table generally follows the variable structure and value criteria defined by the old (1989) version of the U.S. Standard Certificate of Death. Table B-2 provides edit criteria that are applicable to demographic variables modified in the revised U.S. Standard Certificate of Death. It is important to note, however, that some states that are still using the old Standard Certificate of Death are using the new Federal Information Processing Standard (FIPS) codes and / or are providing multiple race information in the revised race format (or some variation of it). That is, for some states, table B-2 applies to the geographic and / or race variables while table B-1 applies to the balance of the variables. Records that are received by NCHS from States that have implemented the new (2003) standard certificate must be processed following the guidelines indicated on table B-2.

Failed edits are identified in terms of whether the results are imputed or rejected for adjudication. Records having failed edits on the “place of death” (occurrence) and “residence of decedent” items are rejected and are listed for reference to the source document to establish the proper code assignment.

B. Medical Items

Valid cause-of-death codes in ICD-10 are categorized in terms of their validity for underlying and multiple cause-of-death classification.

1. Codes Valid for Both Underlying and Multiple Causes of Death

Table C lists the codes valid for both underlying and multiple cause classification.

2. Codes Valid for Multiple Cause Only

Tables D and E list the ICD-10 codes which are valid for multiple cause coding but not for underlying cause coding. Table D contains the Nature of

Injury codes from Chapter XIX, Injury, poisoning and certain other consequences of external causes (S00-T98).

Table E lists other codes in ICD-10 Chapters I-XVIII and XX which are valid for multiple cause coding only. Included in this group are Postprocedural endocrine, metabolic, nervous system, eye, adnexa, ear, mastoid process, circulatory system, respiratory, digestive system, musculoskeletal, and genitourinary system disorders, not elsewhere classified. Also included in this group are Complications following abortion and ectopic and molar pregnancy. The rules for underlying cause-of-death classification prefer other codes over those listed in this table. (For more detail, see Part 2a of this Vital Statistics Instruction Manual series.)

3. Created Codes

Table F contains a list of special five-digit codes (plus R97) and their complementary valid ICD-10 codes. The created codes are used at the stage medical conditions are coded. They have been created to facilitate automated identification of causal and modification relationships between certain medical conditions when they are processed by the ACME and TRANSAX computer systems. After they have served this purpose, they are converted to their complementary valid ICD-10 codes and do not appear on the final master death tape or in NCHS tabulations of causes of death. Further explanation of the use of these codes may be found in Parts 2b and 2c of this Vital Statistics Instruction Manual series.

C. Composite Medical/Demographic Record

After the demographic and medical data are merged, the following edits are performed:

1. Age/Cause, Sex/Cause Consistency Edits

The purpose of this computer edit is to maintain consistency between a reported underlying or multiple cause of death and the age and/or sex of the decedent. Table G lists the consistency edits applicable to codes given earlier in Table C (codes valid for both underlying and multiple causes of death). Table H lists consistency edits applicable to codes given earlier in Tables D and E (codes valid for multiple cause coding only). The limitations embody the concept that certain combinations of cause of death with age or sex are either impossible (absolute limitation) or that the combinations are highly improbable (conditional limitation). The causes of death shown in these lists include age and/or sex absolute or conditional limitations explicit in ICD-10. Additional conditional limitation edits are applied to ICD-10 categories where occurrence of the category with particular age/sex combinations is considered to be highly improbable or where experience has shown that a particular cause is

especially prone to coding error. In general, the source document is examined to determine if the medical and demographic data are accurately coded based on reporting. Where inaccurate, the codes are corrected. When coded data agree with reported information, no change is made if the edit is conditional in nature. If the edit is absolute, the age (or sex) is arbitrarily retained as coded, and the cause(s) are changed to the minimum necessary to pass the edit.

2. Edits on Manner of Death

Table I contains a list of edits performed on values of the variable “Manner of Death,” as appears on item 29 of the U.S. Standard Certificate of Death (1989 revision) or on item 37 of the 2003 revision of the same document. The purpose of these edits is to maintain consistency between the reported manner of death (natural, accident, suicide, homicide, pending investigation, cannot be determined) and the age of the decedent and the reported underlying cause of death.

3. Infrequent and Rare Cause-of-Death Edits

Table J contains a list of infrequent and rare causes of death in the United States. These causes of death occur rarely and/or present threats to public health in the United States. As a result, each case should be verified to make sure there was no error in certification. When NCHS requests confirmation of a rare cause of death, the Vital Statistics Cooperative Program (VSCP) project director should work with staff to verify that the cause-of-death coding is correct and obtain corroboration from the State Health Officer before signing the confirmation letter. A notation of confirmation should also be recorded on the copy of the certificate sent to NCHS. In the absence of this notation, the NCHS coder will code the disease as stated; the VSCP project officer will be contacted at the time of reconciliation of rejected data records by control cycle to confirm the accuracy of the certification.

4. Place-of-Occurrence Edits for Selected External Causes of Death

Table K lists the place-of-occurrence edits for selected external causes of death (ICD-10 W00-Y34, except Y06.\_ and Y07.\_) that may be either an underlying or a multiple cause of death. The table includes valid place-of-occurrence codes that denote the place where the external cause of death occurred. For a listing of place-of-occurrence codes and their definitions see ICD-10, Vol. 1, in the beginning of Chapter XX. The place-of-occurrence codes assigned are based on reported entries on State death certificate items equivalent to the 1989 revision of the U.S. Standard Certificate of Death item “30e. Place of injury”.

### III. PRELIMINARY MORTALITY FILE COMPUTER EDITS

The preliminary mortality file has less detailed tabulations of demographic and geographic data than the final mortality file and is restricted to tabulations of only the underlying cause of death. It includes death records received by NCHS about four months after the end of the 12-month period January-December. The preliminary mortality file consists of a substantial sample (usually, at least 75 percent for each State) of the death certificates included in the final mortality file.

The demographic and medical data are entered and processed separately. The demographic data are first key entered and sample verified with interactive key entry editing. The resultant demographic record is then established as a master control record in checks of file completeness and in subsequent edits of the geographic, demographic, and control variables. On a separate track, the medical data are key entered and sample verified. The mainframe edits are then applied to check code validity for each variable. Finally, the demographic and medical data are merged into one composite record at which point demographic/medical consistency edits are applied.

Since NCHS receives the death records on a flow basis, all of the above edits are performed on a continuous basis and records that fail the edits are adjudicated on a continuous basis. However, at the cut point, the point at which records are no longer accepted for a preliminary mortality file (about four months after the January-December period), some records that failed the edits have not been adjudicated. Due to the need for timely release of the preliminary mortality data, there is not enough time to adjudicate all errors in the preliminary mortality file. Therefore, some of the edit procedures for the preliminary mortality file differ from those for the final mortality file. For example, for the demographic/medical consistency edits, records that fail the "absolute" edits are deleted from the preliminary mortality file. Records that fail the "conditional" edits are not reviewed, but are retained in the preliminary mortality file.

The automated edits are designed to (1) assure code validity for each variable and (2) verify codes or code combinations which are considered either impossible or unlikely occurrences. Additionally, for certain demographic variables, the edits convert codes which are unacceptable for statistical analysis to acceptable codes. In edit failures, the proper code is determined in one of two ways. In specific situations, the proper code is imputed or automatically generated without reference to the source certificate. In other situations, the record is rejected and listed for adjudication of the codes with the information on the source document and/or with the State health department.

All the demographic items that fail the demographic edits (except place of death) and "residence of decedent" (county/city) are imputed and all records that fail the "absolute" demographic/medical edits are deleted from the file. The edits and their resulting actions are summarized in table A.

A detailed description of all mainframe computer edits is provided below.

A. Demographic Items

Tables B-1 and B-2 provide, for each demographic variable, the edit criteria (if any) which are applied to each category of the variable. Records that fail edits for demographic items other than “place of death” (occurrence) and “residence of decedent” (county/city) are imputed. At the cut point, if the edit for “place of death” (State of occurrence) fails, the record is deleted. The edits for “place of death” (county of occurrence) and “residence of decedent” (county/city) are not used. The edit for “residence of decedent” (State of residence), however, is used.

B. Medical items

Valid cause-of-death codes in ICD-10 are categorized in terms of their validity for underlying and multiple cause-of-death classification.

1. Codes Valid for Both Underlying and Multiple Causes of Death

Table C lists the codes valid for both underlying and multiple cause classification. At the cut point, if a cause-of-death code is invalid, the record is deleted from the preliminary mortality file.

2. Codes Valid for Multiple Cause Only

Tables D and E list the ICD-10 codes which are valid for multiple cause coding but not for underlying cause coding. Table D contains the Nature of Injury codes from Chapter XIX, Injury, poisoning and certain other consequences of external causes (S00-T98).

Table E lists other codes in ICD-10 Chapters I-XVIII and XX which are valid for multiple cause coding only. Included in this group are Postprocedural endocrine, metabolic, nervous system, eye, adnexa, ear, mastoid process, circulatory system, respiratory, digestive system, musculoskeletal, and genitourinary system disorders, not elsewhere classified. Also included in this group are Complications following abortion and ectopic and molar pregnancy. The rules for underlying cause-of-death classification prefer other codes over those listed in this table. (For more detail, see Part 2a of this Vital Statistics Instruction Manual series.) At the cut point, if a cause-of-death code is invalid, the record is deleted from the preliminary mortality file.

### 3. Created Codes

Table F contains a list of special five-digit codes (plus R97) and their complementary valid ICD-10 codes. The created codes are used at the stage medical conditions are coded. They have been created to facilitate automated identification of causal and modification relationships between certain medical conditions when they are processed by the ACME and TRANSAX computer systems. After they have served this purpose, they are converted to their complementary valid ICD-10 codes and do not appear on the final master death tape or in NCHS tabulations of causes of death. Further explanation of the use of these codes may be found in Parts 2b and 2c of this Vital Statistics Instruction Manual series.

### C. Composite Medical/Demographic Record

After the demographic and medical data are merged, the following edits are performed:

#### 1. Age/Cause, Sex/Cause Consistency Edits

The purpose of this computer edit is to maintain consistency between a reported underlying or multiple cause of death and the age and/or sex of the decedent. Table G lists the consistency edits applicable to codes given earlier in Table C (codes valid for both underlying and multiple causes of death). Table H lists consistency edits applicable to codes given earlier in Tables D and E (codes valid for multiple cause coding only). The limitations embody the concept that certain combinations of cause of death with age or sex are either impossible (absolute limitation) or that the combinations are highly improbable (conditional limitation). The causes of death shown in these lists include age and/or sex absolute or conditional limitations explicit in ICD-10. Additional conditional limitation edits are applied to ICD-10 categories where occurrence of the category with particular age/sex combinations is considered to be highly improbable or where experience has shown that a particular cause is especially prone to coding error. At the cut point, the conditional limitation edits, shown in tables G and H, are not used for the preliminary mortality file. In general, the source document is examined to determine if the medical and demographic data are accurately coded based on reporting. At the cut point, records that fail the “absolute” edits shown in tables G and H are deleted from the preliminary mortality file. The “conditional” edits shown in tables G and H are not used.



2. Edits on Manner of Death

Edits on variable “Manner of Death” are not used for the preliminary mortality file.

3. Infrequent and Rare Cause-of-Death Edits

The infrequent and rare cause-of-death edits shown in table J are not used for the preliminary mortality file.

4. Place-of-Occurrence Edits for Selected External Causes of Death

Table K lists the place-of-occurrence edits for selected external causes of death (ICD-10 W00-Y34, except Y06.\_ and Y07.\_) that may be either an underlying or a multiple cause of death. The table includes valid place-of-occurrence codes that denote the place where the external cause of death occurred. For a listing of place-of-occurrence codes and their definitions see ICD-10, Vol. 1, in the beginning of Chapter XX. The place-of-occurrence codes assigned are based on reported entries on State death certificate items equivalent to the 1989 revision of the U.S. Standard Certificate of Death item “30e. Place of injury”.

Table A. Demographic Edits and ICD-10 Cause-of-Death Edits for the Final Mortality File and the Preliminary Mortality File and Resulting Action if a Record Fails the Edit (impute; reject and adjudicate; or delete the record)

Edit table	Edit	Final file		Preliminary file	
		Impute	Reject	Impute	Delete
<i>Demographic</i>					
B-1, B-2	All items, except Place of death and Residence of decedent	X		X	
B-1, B-2	Place of death (State)		X		X
B-1, B-2	Place of death (county)		X	Not used	
B-1, B-2	Residence of decedent (State)		X	X	
B-1, B-2	Residence of decedent (county/city)		X	Not used	
<i>Cause-of-death</i>					
C	ICD-10 codes valid for underlying and multiple causes		X		X
D	ICD-10 nature-of-injury codes valid for multiple causes only		X		X
E	ICD-10 codes valid for multiple causes only		X		X
G	Age/cause and sex/cause consistency edits for ICD-10 codes valid for both underlying and multiple causes (absolute)		X		X
G	Age/cause and sex/cause consistency edits for ICD-10 codes valid for both underlying and multiple causes (conditional)		X	Not used	
H	Age/cause and sex/cause consistency edits for ICD-10 codes valid for multiple causes only (absolute)		X		X
H	Age/cause and sex/cause consistency edits for ICD-10 codes valid for multiple causes only (conditional)		X	Not used	
I	Age and Cause Consistency Edits for "Manner of Death" Variable	X		Not used	
J	Infrequent and rare cause-of-death edits for underlying and multiple cause-of-death		X	Not used	
K	Place-of-occurrence edits for selected external causes of death	X		X	

Table B-1. Edits for Demographic Items Under 1989 U.S. Standard Certificate Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Sex	Code must be valid and other than "not stated".	Imputation: If last digit of certificate number is odd number, sex is assigned female code.  If last digit of certificate number is even number, sex is assigned male code.
Date of Death: Month	Code must be valid and other than "not stated".	Imputation: Date of death from last preceding record containing a valid date of death is substituted.
Day	Code must be valid (month is valid also).	Imputation: Assign to "not classifiable" code.
Age of Decedent: Number of Units	Both codes must be valid.	Imputation: Assign to "not classifiable" code (999).
Units	Combination of unit and number of units must be acceptable.	(See page 14.)

IF UNIT OF AGE IS:	AND NO. OF UNITS IS:	THEN FINAL EDITED AGE IS:
9 (not classifiable)	Anything -----	)
Codes 0, 2-6	00 -----	)
Code 1 (100 or more years)	Greater than 35 -----	)
Code 2 (months)	Greater than 23 -----	)
Code 3 (weeks)	Greater than 47 -----	) 999 (not
Code 4 (days)	Greater than 60 -----	) classifiable)
Code 5 (hours)	Greater than 72 -----	)
Code 6 (minutes)	Greater than 95 -----	)
Code 0 (years - less than 100)	01-99	001-099
Code 1 (100 or more years)	00-35	100-135
Code 2 (months)	01-11	201-211
Code 2 (months)	12-23	001 (1 year)
Code 3 (weeks)	01-03	301-303
Code 3 (weeks)	04-08	201 (1 month)
Code 3 (weeks)	09-12	202 (2 months)
" " "	13-17	203 (3 months)
" " "	18-21	204 (4 months)
" " "	22-25	205 (5 months)
" " "	26-29	206 (6 months)
" " "	30-34	207 (7 months)
" " "	35-38	208 (8 months)
" " "	39-42	209 (9 months)
" " "	43-47	210 (10 months)
Code 4 (days)	01-27	401-427
" " "	28-59	201 (1 month)
" " "	60	202 (2 months)
Code 5 (hours)	01-23	501-523
Code 5 (hours)	24-72	401-403 (days)
Code 6 (minutes)	01-59	601-659
Code 6 (minutes)	60-95	501 (1 hour)
Codes 2-6 (months-minutes)	99 (no. of units not classifiable)	2-6, 99*

\*In the age recoding process, unknown number of months is allocated to 1 month; unknown number of weeks is allocated to 1 week; unknown number of days is allocated to 1 day; unknown number of hours is allocated to 1 hour; unknown number of minutes is allocated to under 1 hour.

Table B-1. Edits for Demographic Items Under 1989 U.S. Standard Certificate Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Date of Birth: Month	Code must be valid.	Imputation: Assign to "not classifiable" code.
Day	Code must be valid.	Imputation: Assign to "not classifiable" code.
Year	Code must be valid. <b>1877-2012</b> are valid for <b>2012</b> . For subsequent data years, add 1 to the lower and upper limits of the range (e.g. for <b>2013</b> , the range is <b>1878-2013</b> ).	Imputation: Assign to "not classifiable" code.
State of Birth of Decedent	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
Place of Death: State/County	State/county code combination must be valid.	For Final: Reject for correction. For Preliminary: State-Delete record. County-Edit not used.
Type of Place of Death	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
Marital Status of Decedent	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
	If age of decedent is less than 12 years, marital status must be "single."	Imputation: Convert to "single" code.
Occupation of Decedent	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
	Age under 14 years.	Imputation: Code to 917 (child).

Table B-1. Edits for Demographic Items Under 1989 U.S. Standard Certificate Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Type of Industry	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
	Age under 14 years.	Imputation: Code to 961 (own home).
Residence of Decedent	State, County/City code combination must be valid.	For Final: Reject for correction. For Preliminary: State-Impute to place of death (State). County/City-Edit not used.
Hispanic Origin of Decedent	Code must be valid.	Imputation: Convert invalid code to "not classifiable" code.
	"Not classifiable" (code 9) and "Other and unknown Hispanic" (code 5).	Imputation: Use "State of birth" and if birthplace is Mexico (code 2), then code Mexican (code 1); if birthplace is Puerto Rico (code 52) then code to Puerto Rican (code 2); if birthplace is Cuba (code 56), then code Cuban (code 3); and if birthplace is any of the following: Argentina, Bolivia, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Nicaragua, Panama, Panama Canal Zone, Paraguay, Peru, Spain, Uruguay or Venezuela, then code "Other and unknown Hispanic" (code 5). Otherwise, keep the original code 5 or 9.

Table B-1. Edits for Demographic Items Under 1989 U.S. Standard Certificate Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Race of Decedent	Code must be valid.  If code is: "Not stated" (code 9) or "Other entries" ( code 0) or "Multi-racial" (code F).	Imputation: Code record to the race of preceding record.  Imputation: Code record to the race of preceding record. NOTE: Race imputation flags are shown separately for "Not stated", "Other entries" and "Multi-racial".  Note: For imputation of race among decedents of Hispanic origin, "preceding record" is restricted to those also of Hispanic origin that have valid race data.

Table B-1. Edits for Demographic Items Under 1989 U.S. Standard Certificate Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>																																		
Education of Decedent	Code must be valid.	Imputation: Assign to “not classifiable” code.																																		
	Combination of education and age must be acceptable.	Imputation: If education is not valid or not classifiable and age is under 5 years, then assign education to “00.”  Else, if education is greater than the maximum shown for given age, assign education to “not classifiable” code.																																		
	<table border="1"> <thead> <tr> <th>Age</th> <th>Maximum Education</th> </tr> </thead> <tbody> <tr><td>Under 5 years</td><td>00</td></tr> <tr><td>5 years</td><td>01</td></tr> <tr><td>6 years</td><td>02</td></tr> <tr><td>7 years</td><td>03</td></tr> <tr><td>8 years</td><td>04</td></tr> <tr><td>9 years</td><td>05</td></tr> <tr><td>10 years</td><td>06</td></tr> <tr><td>11 years</td><td>07</td></tr> <tr><td>12 years</td><td>08</td></tr> <tr><td>13 years</td><td>09</td></tr> <tr><td>14 years</td><td>10</td></tr> <tr><td>15 years</td><td>11</td></tr> <tr><td>16 years</td><td>12</td></tr> <tr><td>17 years</td><td>13</td></tr> <tr><td>18 years</td><td>14</td></tr> <tr><td>19 years</td><td>15</td></tr> </tbody> </table>	Age	Maximum Education	Under 5 years	00	5 years	01	6 years	02	7 years	03	8 years	04	9 years	05	10 years	06	11 years	07	12 years	08	13 years	09	14 years	10	15 years	11	16 years	12	17 years	13	18 years	14	19 years	15	
Age	Maximum Education																																			
Under 5 years	00																																			
5 years	01																																			
6 years	02																																			
7 years	03																																			
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16 years	12																																			
17 years	13																																			
18 years	14																																			
19 years	15																																			
Injury at Work	Code must be valid. Record must include injury code (S00-T98) somewhere in medical portion of certificate, or record must be classified to underlying cause in the range C45, J60 – J704 <sup>1</sup> .	Imputation: If record does not include injury code (S00-T98) somewhere in medical portion of certificate, or if record is not classified to underlying cause C45, J60 – J70 <sup>1</sup> then convert code to “Not applicable.”																																		

<sup>1</sup> Conditions on chapters I-XVIII that are “effects of external causes.” See Instruction Manual Part 2b.



Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
State of Death	Code must be valid FIPS value (section II, Part 8A manual).	For Final: Reject for correction  For Preliminary: Delete record
Sex	Code must be valid ('M', 'F') and other than 'Unknown' ('U').	Imputation: If last digit of certificate number is odd number, sex is assigned female code.  If last digit of certificate number is even number, sex is assigned male code.

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format - Continued

Variable: Decedent's Age:

IF UNIT OF AGE IS:                      AND NO. OF UNITS IS:                      THEN FINAL EDITED AGE IS:

---

9 (not classifiable)	Anything -----	)
Codes 1-6	000 -----	)
Code 1 (years)	Greater than 135 -----	)
Code 2 (months)	Greater than 023 -----	) 9999 (not
Code 4 (days)	Greater than 060 -----	) classifiable)
Code 5 (hours)	Greater than 072 -----	)
Code 6 (minutes)	Greater than 095 -----	)
Code 1 (years)	001-135	1001-1135
Code 2 (months)	001-011	2001-2011
Code 2 (months)	012-023	1001 (1 year)
Code 4 (days)	001-027	4001-4027
" " "	028-059	2001 (1 month)
" " "	060	2002 (2 months)
Code 5 (hours)	001-023	5001-5023
Code 5 (hours)	024-047	4001 (1 day)
Code 5 (hours)	048-071	4002 (2 days)
Code 5 (hours)	072	4003 (3 days)
Code 6 (minutes)	001-059	6001-6059
Code 6 (minutes)	60-95	5001 (1 hour)
Codes 1-6 (years-minutes)	999 (no. of units unknown/ not classifiable)	1-6, 999*

\*In the age recoding process, unknown number of months is allocated to 1 month; unknown number of days is allocated to 1 day; unknown number of hours is allocated to 1 hour; unknown number of minutes is allocated to under 1 hour. If age of decedent is not stated, age is derived by referring to date of birth and date of death.

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Country of Birth	Code must be valid FIPS value (Section III, Part 8A manual).	Imputation: Convert invalid / blank code to “not classifiable” code ('ZZ').
State of Birth	Code must be valid FIPS value (Section II, Part 8A manual).  If Country of Birth (see preceding) is not U.S., then State of Birth must be blank.	Imputation: Convert invalid code to “unknown or blank” code ('ZZ').
City of Residence	Code must be valid FIPS value (FIPS table 55-3).  Code combination for Country, State, County, and City of residence must be valid.  If Country of Residence (see further below) is not U.S. or Canada, City of Residence must be blank.	Imputation: Convert invalid code to “not classifiable” code ('99999').  For foreign residents, convert invalid /blank code to '000.'

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
County of Residence	<p>Code must be valid FIPS value (Section IV, Part 8 manual).</p> <p>Code combination for Country, State, County, and City of residence must be valid.</p> <p>If Country of Residence (see further below) is not U.S. or Canada, County of Residence must be blank.</p>	<p>Imputation: Convert invalid / blank code to "not classifiable" code ('999').</p>
State of Residence	<p>Code must be valid FIPS value (Section II, Part 8A manual).</p> <p>Code combination for Country, State, County, and City of residence must be valid.</p> <p>If Country of Residence (see further below) is not U.S. or Canada, State of Residence must be 'XX'. If Country of Residence is 'unknown,' then State of Residence must be 'ZZ.'</p>	<p>For Final: Reject for correction</p> <p>For Preliminary: Impute to State of Death</p> <p>Imputation: For foreign residents, convert invalid / blank code to 'XX' ('not applicable.')</p> <p>For unknown Country of Residence, convert invalid / blank code to 'ZZ.'</p>
Country of Residence	<p>Code must be valid FIPS value (Section III, Part 8A manual) and not be blank.</p> <p>Code combination for Country, State, County, and City of residence must be valid.</p>	<p>Imputation: Convert invalid / blank code to 'unknown' code ('ZZ').</p>

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Marital Status	Code must be valid ('M', 'A', 'W', 'D', 'S', 'U')	Imputation: Code record to the marital status of preceding record of same 5-year age group and sex. Initial marital status (as set by programmers) should be established by modal value for the given age group of most recent data year. Note: Value "A" (Married but separated) is recoded to "M" (Married).
	If age of decedent is less than 12 years, marital status must be "Never Married" ('S').	Imputation: Convert marital status code to "Never Married" ('S').
Place of Death (type of facility included)	Code must be valid (1-7, 9).  Note: changes to coding from previous certificate revision include: 4= "Decedent's home <sup>1</sup> ," 5= "Hospice facility," 6= "Nursing home/Long term care facility," 9= "Unknown"	Imputation: Convert place of death code to "Unknown" ('9').

<sup>1</sup> This code extends to homes other than the decedent's own.

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>																			
County of Death	Code must be valid FIPS value (Section IV, Part 8 manual).  Code combination for State and County of death must be valid.	For Final: Reject for correction  For Preliminary: Not used																			
Method of Disposition	Code must be valid ('B', 'C', 'D', 'E', 'R', 'O', 'U').	Imputation: Code invalid / blank method of disposition to "Unknown" ('U').																			
Time of Death	Code must be valid (0000-2400, 9999).	Imputation: Convert '2400' to '0000'.  Convert invalid / blank Time of Death to '9999'.																			
Education of Decedent	Code must be valid (1-9).	Imputation: Code invalid / blank education to "Unknown" ('9').																			
	Combination of education and age of decedent must be acceptable.	Imputation: If education is not valid or not classifiable and age is less than 8 years, then assign education to "1."																			
	<table border="1"> <thead> <tr> <th>Minimum Age</th> <th>Education</th> </tr> </thead> <tbody> <tr> <td>Any age</td> <td>1</td> </tr> <tr> <td>9 years</td> <td>2</td> </tr> <tr> <td>16 years</td> <td>3</td> </tr> <tr> <td>17 years</td> <td>4</td> </tr> <tr> <td>18 years</td> <td>5</td> </tr> <tr> <td>20 years</td> <td>6</td> </tr> <tr> <td>21 years</td> <td>7</td> </tr> <tr> <td>23 years</td> <td>8</td> </tr> <tr> <td>None</td> <td>9</td> </tr> </tbody> </table>	Minimum Age	Education	Any age	1	9 years	2	16 years	3	17 years	4	18 years	5	20 years	6	21 years	7	23 years	8	None	9
Minimum Age	Education																				
Any age	1																				
9 years	2																				
16 years	3																				
17 years	4																				
18 years	5																				
20 years	6																				
21 years	7																				
23 years	8																				
None	9																				

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Decedent of Hispanic <sup>2</sup> (Mexican) Origin	Code must be valid ('N', 'H', 'U') and not be blank.	Imputation: If Country of Birth is Mexico, code blank to "Yes, Mexican." Otherwise, convert blank Mexican origin to "No, not Mexican" ('N').
Decedent of Hispanic <sup>2</sup> (Puerto Rican) Origin	Code must be valid ('N', 'H', 'U') and not be blank.	Imputation: If Country of Birth is Puerto Rico, code blank to "Yes, Puerto Rican." Otherwise, convert blank Puerto Rican origin to "No, not Puerto Rican" ('N').
Decedent of Hispanic <sup>2</sup> (Cuban) Origin	Code must be valid ('N', 'H', 'U') and not be blank.	Imputation: If Country of Birth is Cuba, code blank to "Yes, Cuban." Otherwise, convert blank Cuban origin to "No, not Cuban" ('N').
Decedent of Hispanic <sup>2</sup> (Other) Origin	Code must be valid ('N', 'H', 'U') and not be blank.	Imputation: If country of birth is among the following: -Argentina -Bolivia -Chile -Colombia -Costa Rica -Dominican Republic -Ecuador -El Salvador -Guatemala -Honduras -Nicaragua -Panama -Panama Canal Zone -Paraguay -Peru -Spain -Uruguay -Venezuela  Then convert blank other Hispanic origin to "Yes, other... Hispanic/Latino" ('Y').

<sup>2</sup> Hispanic Origin item is not part of the death certificate in Puerto Rico, American Samoa nor Northern Marianas – therefore, it is unnecessary to run these imputation procedures for these territories.

Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Decedent's Race: Race item 'White'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Black or African American'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'American Indian or Alaska Native'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Asian Indian'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Chinese'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Filipino'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Korean'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Vietnamese'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).



Table B-2. Edits for Demographic Items Under New U.S. Standard Certificate (2003) Format

<u>Variable</u>	<u>Edit Criterion</u>	<u>Fail Edit Corrected By</u>
Decedent's Race: Race item 'Other Asian'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Native Hawaiian'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Guamanian or Chamorro'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Samoan'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Other Pacific Islander'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).
Decedent's Race: Race item 'Other'	Code must be valid ('Y', 'N') and not be blank.	Imputation: Convert blank race item to "No" ('99'; box for given race not checked).

Note: For a technical discussion on bridging multiple-race data to a single race value, see Appendix I.

Note: For imputation of race among decedents of Hispanic origin, "preceding record" is restricted to those also of Hispanic origin that have valid race data.

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

A000	A184	A35	A515	A771	A982	B209	B379	B520	B744	C020	C173	C401	C510	C714
A001	A185	A360	A519	A772	A983	B210	B380	B528	B748	C021	C178	C402	C511	C715
A009	A186	A361	A520	A773	A984	B211	B381	B529	B749	C022	C179	C403	C512	C716
A010	A187	A362	A521	A778	A985	B212	B382	B530	B75	C023	C180	C408	C518	C717
A011	A188	A363	A522	A779	A988	B213	B383	B531	B760	C024	C181	C409	C519	C718
A012	A190	A368	A523	A78	A99	B217	B384	B538	B761	C028	C182	C410	C52	C719
A013	A191	A369	A527	A790	B000	B218	B387	B54	B768	C029	C183	C411	C530	C720
A014	A192	A370	A528	A791	B001	B219	B388	B550	B769	C030	C184	C412	C531	C721
A020	A198	A371	A529	A798	B002	B220	B389	B551	B770	C031	C185	C413	C538	C722
A021	A199	A378	A530	A799	B003	B221	B390	B552	B778	C039	C186	C414	C539	C723
A022	A200	A379	A539	A800	B004	B222	B391	B559	B779	C040	C187	C418	C540	C724
A028	A201	A38	A540	A801	B005	B227	B392	B560	B780	C041	C188	C419	C541	C725
A029	A202	A390	A541	A802	B007	B230	B393	B561	B781	C048	C189	C430	C542	C728
A030	A203	A391	A542	A803	B008	B231	B394	B569	B787	C049	C19	C431	C543	C729
A031	A207	A392	A543	A804	B009	B232	B395	B570	B789	C050	C20	C432	C548	C73
A032	A208	A393	A544	A809	B010	B238	B399	B571	B79	C051	C210	C433	C549	C740
A033	A209	A394	A545	A810	B011	B24	B400	B572	B80	C052	C211	C434	C55	C741
A038	A210	A395	A546	A811	B012	B250	B401	B573	B810	C058	C212	C435	C56	C749
A039	A211	A398	A548	A812	B018	B251	B402	B574	B811	C059	C218	C436	C570	C750
A040	A212	A399	A549	A818	B019	B252	B403	B575	B812	C060	C220	C437	C571	C751
A041	A213	A400	A55	A819	B020	B258	B407	B580	B813	C061	C221	C438	C572	C752
A042	A217	A401	A560	A820	B021	B259	B408	B581	B814	C062	C222	C439	C573	C753
A043	A218	A402	A561	A821	B022	B260	B409	B582	B818	C068	C223	C440	C574	C754
A044	A219	A403	A562	A829	B023	B261	B410	B583	B820	C069	C224	C441	C577	C755
A045	A220	A408	A563	A830	B027	B262	B417	B588	B829	C07	C227	C442	C578	C758
A046	A221	A409	A564	A831	B028	B263	B418	B589	B830	C080	C229	C443	C579	C759
A047	A222	A410	A568	A832	B029	B268	B419	B59	B831	C081	C23	C444	C58	C760
A048	A227	A411	A57	A833	B03	B269	B420	B600	B832	C088	C240	C445	C600	C761
A049	A228	A412	A58	A834	B04	B270	B421	B601	B833	C089	C241	C446	C601	C762
A050	A229	A413	A590	A835	B050	B271	B427	B602	B834	C090	C248	C447	C602	C763
A051	A230	A414	A598	A836	B051	B278	B428	B608	B838	C091	C249	C448	C608	C764
A052	A231	A415	A599	A838	B052	B279	B429	B64	B839	C098	C250	C449	C609	C765
A053	A232	A418	A600	A839	B053	B300	B430	B650	B850	C099	C251	C450	C61	C767
A054	A233	A419	A601	A840	B054	B301	B431	B651	B851	C100	C252	C451	C620	C768
A058	A238	A420	A609	A841	B058	B302	B432	B652	B852	C101	C253	C452	C621	C770
A059	A239	A421	A630	A848	B059	B303	B438	B653	B853	C102	C254	C457	C629	C771
A060	A240	A422	A638	A849	B060	B308	B439	B658	B854	C103	C257	C459	C630	C772
A061	A241	A427	A64	A850	B068	B309	B440	B659	B86	C104	C258	C460	C631	C773
A062	A242	A428	A65	A851	B069	B330	B441	B660	B870	C108	C259	C461	C632	C774
A063	A243	A429	A660	A852	B07	B331	B442	B661	B871	C109	C260	C462	C637	C775
A064	A244	A430	A661	A858	B080	B332	B447	B662	B872	C110	C261	C463	C638	C778
A065	A250	A431	A662	A86	B081	B333	B448	B663	B873	C111	C268	C467	C639	C779
A066	A251	A438	A663	A870	B082	B334	B449	B664	B874	C112	C269	C468	C64	C780
A067	A259	A439	A664	A871	B083	B338	B450	B665	B878	C113	C300	C469	C65	C781
A068	A260	A440	A665	A872	B084	B340	B451	B668	B879	C118	C301	C470	C66	C782
A069	A267	A441	A666	A878	B085	B341	B452	B669	B880	C119	C310	C471	C670	C783
A070	A268	A448	A667	A879	B088	B342	B453	B670	B881	C12	C311	C472	C671	C784
A071	A269	A449	A668	A880	B09	B343	B457	B671	B882	C130	C312	C473	C672	C785
A072	A270	A46	A669	A881	B150	B344	B458	B672	B883	C131	C313	C474	C673	C786
A073	A278	A480	A670	A888	B159	B348	B459	B673	B888	C132	C318	C475	C674	C787
A078	A279	A481	A671	A89	B160	B349	B460	B674	B889	C138	C319	C476	C675	C788
A079	A280	A482	A672	A90	B161	B350	B461	B675	B89	C139	C320	C478	C676	C790
A080	A281	A483	A673	A91	B162	B351	B462	B676	B900	C140	C321	C479	C677	C791
A081	A282	A484	A679	A920	B169	B352	B463	B677	B901	C142	C322	C480	C678	C792
A082	A288	A488	A680	A921	B170	B353	B464	B678	B902	C148	C323	C481	C679	C793
A083	A289	A490	A681	A922	B171	B354	B465	B679	B908	C150	C328	C482	C680	C794
A084	A300	A491	A689	A923	B172	B355	B468	B680	B909	C151	C329	C488	C681	C795
A085	A301	A492	A690	A924	B178	B356	B469	B681	B91	C152	C33	C490	C688	C796
A090	A302	A493	A691	A928	B179	B358	B470	B689	B92	C153	C340	C491	C689	C797
A099	A303	A498	A692	A929	B180	B359	B471	B690	B940	C154	C341	C492	C690	C798
A162	A304	A499	A698	A930	B181	B360	B479	B691	B941	C155	C342	C493	C691	C80
A163	A305	A500	A699	A931	B182	B361	B480	B698	B942	C158	C343	C494	C692	C810
A164	A308	A501	A70	A932	B188	B362	B481	B699	B948	C159	C348	C495	C693	C811
A165	A309	A502	A710	A938	B189	B363	B482	B700	B949	C160	C349	C496	C694	
A167	A310	A503	A711	A94	B190	B368	B483	B701	B99	C161	C37	C498	C695	
A168	A311	A504	A719	A950	B199	B369	B484	B710	C000	C162	C380	C499	C696	
A169	A318	A505	A740	A951	B200	B370	B487	B711	C001	C163	C381	C500	C698	
A170	A319	A506	A748	A959	B201	B371	B488	B718	C002	C164	C382	C501	C699	
A171	A320	A507	A749	A960	B202	B372	B49	B719	C003	C165	C383	C502	C700	
A178	A321	A509	A750	A961	B203	B373	B500	B72	C004	C166	C384	C503	C701	
A179	A327	A510	A751	A962	B204	B374	B508	B73	C005	C168	C388	C504	C709	
A180	A328	A511	A752	A968	B205	B375	B509	B740	C006	C169	C390	C505	C710	
A181	A329	A512	A753	A969	B206	B376	B510	B741	C008	C170	C398	C506	C711	
A182	A33	A513	A759	A980	B207	B377	B518	B742	C009	C171	C399	C508	C712	
A183	A34	A514	A770	A981	B208	B378	B519	B743	C01	C172	C400	C509	C713	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death

Classification - Continued

C812	C967	D123	D235	D380	D519	D693	D891	E132	E298	E642	E800	F105	F188	F401
C813	C969	D124	D236	D381	D520	D694	D892	E133	E299	E643	E801	F106	F189	F402
C817	C97	D125	D237	D382	D521	D695	D893	E134	E300	E648	E802	F107	F191	F408
C819	D000	D126	D239	D383	D528	D696	D898	E135	E301	E649	E803	F108	F192	F409
C820	D001	D127	D24	D384	D529	D698	D899	E136	E308	E65	E804	F109	F193	F410
C821	D002	D128	D250	D385	D530	D699	E000	E137	E309	E660	E805	F111	F194	F411
C822	D010	D129	D251	D386	D531	D70	E001	E139	E310	E661	E806	F112	F195	F412
C827	D011	D130	D252	D390	D532	D71	E002	E140	E311	E662	E807	F113	F196	F413
C829	D012	D131	D259	D391	D538	D720	E009	E141	E318	E668	E830	F114	F197	F418
C830	D013	D132	D260	D392	D539	D721	E010	E142	E319	E669	E831	F115	F198	F419
C831	D014	D133	D261	D397	D550	D728	E011	E143	E320	E670	E832	F116	F199	F420
C832	D015	D134	D267	D399	D551	D729	E012	E144	E321	E671	E833	F117	F200	F421
C833	D017	D135	D269	D400	D552	D730	E018	E145	E328	E672	E834	F118	F201	F422
C834	D019	D136	D27	D401	D553	D731	E02	E146	E329	E673	E835	F119	F202	F428
C835	D020	D137	D280	D407	D558	D732	E030	E147	E340	E678	E838	F121	F203	F429
C836	D021	D139	D281	D409	D559	D733	E031	E149	E341	E68	E839	F122	F204	F430
C837	D022	D140	D282	D410	D560	D734	E032	E15	E342	E700	E840	F123	F205	F431
C838	D023	D141	D287	D411	D561	D735	E033	E160	E343	E701	E841	F124	F206	F432
C839	D024	D142	D289	D412	D562	D738	E034	E161	E344	E702	E848	F125	F208	F438
C840	D030	D143	D290	D413	D563	D739	E035	E162	E345	E703	E849	F126	F209	F439
C841	D031	D144	D291	D414	D564	D740	E038	E163	E348	E708	E850	F127	F21	F440
C842	D032	D150	D292	D417	D568	D748	E039	E164	E349	E709	E851	F128	F220	F441
C843	D033	D151	D293	D419	D569	D749	E040	E168	E40	E710	E852	F129	F228	F442
C844	D034	D152	D294	D420	D570	D750	E041	E169	E41	E711	E853	F131	F229	F443
C845	D035	D157	D297	D421	D571	D751	E042	E200	E42	E712	E854	F132	F230	F444
C850	D036	D159	D299	D429	D572	D752	E048	E201	E43	E713	E858	F133	F231	F445
C851	D037	D160	D300	D430	D573	D758	E049	E208	E440	E720	E859	F134	F232	F446
C857	D038	D161	D301	D431	D578	D759	E050	E209	E441	E721	E86	F135	F233	F447
C859	D039	D162	D302	D432	D580	D760	E051	E210	E45	E722	E870	F136	F238	F448
C880	D040	D163	D303	D433	D581	D761	E052	E211	E46	E723	E871	F137	F239	F449
C881	D041	D164	D304	D434	D582	D762	E053	E212	E500	E724	E872	F138	F24	F450
C882	D042	D165	D307	D437	D588	D763	E054	E213	E501	E725	E873	F139	F250	F451
C883	D043	D166	D309	D439	D589	D800	E055	E214	E502	E728	E874	F141	F251	F452
C887	D044	D167	D310	D440	D590	D801	E058	E215	E503	E729	E875	F142	F252	F453
C889	D045	D168	D311	D441	D591	D802	E059	E220	E504	E730	E876	F143	F258	F454
C900	D046	D169	D312	D442	D592	D803	E060	E221	E505	E731	E877	F144	F259	F458
C901	D047	D170	D313	D443	D593	D804	E061	E222	E506	E738	E878	F145	F28	F459
C902	D048	D171	D314	D444	D594	D805	E062	E228	E507	E739	E880	F146	F29	F480
C910	D049	D172	D315	D445	D595	D806	E063	E229	E508	E740	E881	F147	F300	F481
C911	D050	D173	D316	D446	D596	D807	E064	E230	E509	E741	E882	F148	F301	F488
C912	D051	D174	D319	D447	D598	D808	E065	E231	E511	E742	E883	F149	F302	F489
C913	D057	D175	D320	D448	D599	D809	E069	E232	E512	E743	E888	F151	F308	F500
C914	D059	D176	D321	D449	D600	D810	E070	E233	E518	E744	E889	F152	F309	F501
C915	D060	D177	D329	D45	D601	D811	E071	E236	E519	E748	F010	F153	F310	F502
C917	D061	D179	D330	D460	D608	D812	E078	E237	E52	E749	F011	F154	F311	F503
C919	D067	D180	D331	D461	D609	D813	E079	E240	E530	E750	F012	F155	F312	F504
C920	D069	D181	D332	D462	D610	D814	E100	E241	E531	E751	F013	F156	F313	F505
C921	D070	D190	D333	D463	D611	D815	E101	E242	E538	E752	F018	F157	F314	F508
C922	D071	D191	D334	D464	D612	D816	E102	E243	E539	E753	F019	F158	F315	F509
C923	D072	D197	D337	D467	D613	D817	E103	E244	E54	E754	F03	F159	F316	F510
C924	D073	D199	D339	D469	D618	D818	E104	E248	E550	E755	F04	F161	F317	F511
C925	D074	D200	D34	D470	D619	D819	E105	E249	E559	E756	F050	F162	F318	F512
C927	D075	D201	D350	D471	D62	D820	E106	E250	E560	E760	F051	F163	F319	F513
C929	D076	D210	D351	D472	D640	D821	E107	E258	E561	E761	F058	F164	F320	F514
C930	D090	D211	D352	D473	D641	D822	E109	E259	E568	E762	F059	F165	F321	F515
C931	D091	D212	D353	D477	D642	D823	E110	E260	E569	E763	F060	F166	F322	F518
C932	D092	D213	D354	D479	D643	D824	E111	E261	E58	E768	F061	F167	F323	F519
C937	D093	D214	D355	D480	D644	D828	E112	E268	E59	E769	F062	F168	F328	F520
C939	D097	D215	D356	D481	D648	D829	E113	E269	E60	E770	F063	F169	F329	F521
C940	D099	D216	D357	D482	D649	D830	E114	E270	E610	E771	F064	F171	F330	F522
C941	D100	D219	D358	D483	D65	D831	E115	E271	E611	E778	F065	F172	F331	F523
C942	D101	D220	D359	D484	D66	D832	E116	E272	E612	E779	F066	F173	F332	F524
C943	D102	D221	D360	D485	D67	D838	E117	E273	E613	E780	F067	F174	F333	F525
C944	D103	D222	D361	D486	D680	D839	E119	E274	E614	E781	F068	F175	F334	F526
C945	D104	D223	D367	D487	D681	D840	E120	E275	E615	E782	F069	F176	F338	
C947	D105	D224	D369	D489	D682	D841	E121	E278	E616	E783	F070	F177	F339	
C950	D106	D225	D370	D500	D683	D848	E122	E279	E617	E784	F071	F178	F340	
C951	D107	D226	D371	D501	D684	D849	E123	E280	E618	E785	F072	F179	F341	
C952	D109	D227	D372	D508	D685	D860	E124	E281	E619	E786	F078	F181	F348	
C957	D110	D229	D373	D509	D686	D861	E125	E282	E630	E788	F079	F182	F349	
C959	D117	D230	D374	D510	D688	D862	E126	E283	E631	E789	F09	F183	F380	
C960	D119	D231	D375	D511	D689	D863	E127	E288	E638	E790	F101	F184	F381	
C961	D120	D232	D376	D512	D690	D868	E129	E289	E639	E791	F102	F185	F388	
C962	D121	D233	D377	D513	D691	D869	E130	E290	E640	E798	F103	F186	F39	
C963	D122	D234	D379	D518	D692	D890	E131	E291	E641	E799	F104	F187	F400	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death  
Classification - Continued

F527	F842	G120	G433	G609	G950	H183	H408	H578	H903	I220	I443	I671	I831	J14
F528	F843	G121	G438	G610	G951	H184	H409	H579	H904	I221	I444	I672	I832	J150
F529	F844	G122	G439	G611	G952	H185	H430	H600	H905	I228	I445	I673	I839	J151
F530	F845	G128	G440	G618	G958	H186	H431	H601	H906	I229	I446	I674	I840	J152
F531	F848	G129	G441	G619	G959	H187	H432	H602	H907	I241	I447	I675	I841	J153
F538	F849	G14	G442	G620	G960	H188	H433	H603	H908	I248	I450	I676	I842	J154
F539	F88	G20	G443	G621	G961	H189	H438	H604	H910	I249	I451	I677	I843	J155
F54	F89	G210	G444	G622	G968	H200	H439	H605	H911	I250	I452	I678	I844	J156
F55	F900	G211	G448	G628	G969	H201	H440	H608	H912	I251	I453	I679	I845	J157
F59	F901	G212	G450	G629	G98	H202	H441	H609	H913	I253	I454	I690	I846	J158
F600	F908	G213	G451	G64	H000	H208	H442	H610	H918	I254	I455	I691	I847	J159
F601	F909	G214	G452	G700	H001	H209	H443	H611	H919	I255	I456	I692	I848	J160
F602	F910	G218	G453	G701	H010	H210	H444	H612	H920	I256	I458	I693	I849	J168
F603	F911	G219	G454	G702	H011	H211	H445	H613	H921	I258	I459	I694	I850	J180
F604	F912	G230	G458	G708	H018	H212	H446	H618	H922	I259	I460	I698	I859	J181
F605	F913	G231	G459	G709	H019	H213	H447	H619	H930	I260	I461	I700	I860	J182
F606	F918	G232	G470	G710	H020	H214	H448	H650	H931	I269	I469	I701	I861	J188
F607	F919	G238	G471	G711	H021	H215	H449	H651	H932	I270	I470	I702	I862	J189
F608	F920	G239	G472	G712	H022	H218	H46	H652	H933	I271	I471	I708	I863	J200
F609	F928	G240	G473	G713	H023	H219	H470	H653	H938	I272	I472	I709	I864	J201
F61	F929	G241	G474	G718	H024	H250	H471	H654	H939	I278	I479	I710	I868	J202
F620	F930	G242	G478	G719	H025	H251	H472	H659	I00	I279	I48	I711	I870	J203
F621	F931	G243	G479	G720	H026	H252	H473	H660	I010	I280	I490	I712	I871	J204
F628	F932	G244	G500	G721	H027	H258	H474	H661	I011	I281	I491	I713	I872	J205
F629	F933	G245	G501	G722	H028	H259	H475	H662	I012	I288	I492	I714	I878	J206
F630	F938	G248	G508	G723	H029	H260	H476	H663	I018	I289	I493	I715	I879	J207
F631	F939	G249	G509	G724	H040	H261	H477	H664	I019	I300	I494	I716	I880	J208
F632	F940	G250	G510	G728	H041	H262	H490	H669	I020	I301	I495	I718	I881	J209
F633	F941	G251	G511	G729	H042	H263	H491	H680	I029	I308	I498	I719	I888	J210
F638	F942	G252	G512	G800	H043	H264	H492	H681	I050	I309	I499	I720	I889	J211
F639	F948	G253	G513	G801	H044	H268	H493	H690	I051	I310	I500	I721	I890	J218
F640	F949	G254	G514	G802	H045	H269	H494	H698	I052	I311	I501	I722	I891	J219
F641	F950	G255	G518	G803	H046	H270	H498	H699	I058	I312	I509	I723	I898	J22
F642	F951	G256	G519	G804	H048	H271	H499	H700	I059	I313	I510	I724	I899	J300
F648	F952	G258	G520	G808	H049	H278	H500	H701	I060	I318	I511	I725	I950	J301
F649	F958	G259	G521	G809	H050	H279	H501	H702	I061	I319	I512	I728	I951	J302
F650	F959	G300	G522	G810	H051	H300	H502	H708	I062	I330	I513	I729	I952	J303
F651	F980	G301	G523	G811	H052	H301	H503	H709	I068	I339	I514	I730	I958	J304
F652	F981	G308	G527	G819	H053	H302	H504	H71	I069	I340	I515	I731	I959	J310
F653	F982	G309	G528	G820	H054	H308	H505	H720	I070	I341	I516	I738	I99	J311
F654	F983	G310	G529	G821	H055	H309	H506	H721	I071	I342	I517	I739	J00	J312
F655	F984	G311	G540	G822	H058	H310	H508	H722	I072	I348	I518	I740	J010	J320
F656	F985	G312	G541	G823	H059	H311	H509	H728	I078	I349	I519	I741	J011	J321
F658	F986	G318	G542	G824	H100	H312	H510	H729	I079	I350	I600	I742	J012	J322
F659	F988	G319	G543	G825	H101	H313	H511	H730	I080	I351	I601	I743	J013	J323
F660	F989	G35	G544	G830	H102	H314	H512	H731	I081	I352	I602	I744	J014	J324
F661	F99	G360	G545	G831	H103	H318	H518	H738	I082	I358	I603	I745	J018	J328
F662	G000	G361	G546	G832	H104	H319	H519	H739	I083	I359	I604	I748	J019	J329
F668	G001	G368	G547	G833	H105	H330	H520	H740	I088	I360	I605	I749	J020	J330
F669	G002	G369	G548	G834	H108	H331	H521	H741	I089	I361	I606	I770	J028	J331
F680	G003	G370	G549	G838	H109	H332	H522	H742	I090	I362	I607	I771	J029	J338
F681	G008	G371	G560	G839	H110	H333	H523	H743	I091	I368	I608	I772	J030	J339
F688	G009	G372	G561	G900	H111	H334	H524	H744	I092	I369	I609	I773	J038	J340
F69	G030	G373	G562	G901	H112	H335	H525	H748	I098	I370	I610	I774	J039	J341
F70	G031	G374	G563	G902	H113	H340	H526	H749	I099	I371	I611	I775	J040	J342
F71	G032	G375	G564	G903	H114	H341	H527	H800	I10	I372	I612	I776	J041	J343
F72	G038	G378	G568	G904	H118	H342	H530	H801	I110	I378	I613	I778	J042	J348
F73	G039	G379	G569	G908	H119	H348	H531	H802	I119	I379	I614	I779	J050	J350
F78	G040	G400	G570	G909	H150	H349	H532	H808	I120	I38	I615	I780	J051	J351
F79	G041	G401	G571	G910	H151	H350	H533	H809	I129	I400	I616	I781	J060	J352
F800	G042	G402	G572	G911	H158	H351	H534	H810	I130	I401	I618	I788	J068	J353
F801	G048	G403	G573	G912	H159	H352	H535	H811	I131	I408	I619	I789	J069	J358
F802	G049	G404	G574	G913	H160	H353	H536	H812	I132	I409	I620	I800	J09	J359
F803	G060	G405	G575	G918	H161	H354	H538	H813	I139	I420	I621	I801	J100	J36
F808	G061	G406	G576	G919	H162	H355	H539	H814	I150	I421	I629	I802	J101	J370
F809	G062	G407	G578	G92	H163	H356	H540	H818	I159	I422	I630	I803	J108	J371
F810	G08	G408	G579	G930	H164	H357	H541	H819	I200	I423	I631	I808	J110	J380
F811	G09	G409	G580	G931	H168	H358	H542	H830	I201	I424	I632	I809	J111	J381
F812	G10	G410	G587	G932	H169	H359	H543	H831	I208	I425	I633	I81	J118	J382
F813	G110	G411	G588	G933	H170	H400	H544	H832	I209	I426	I634	I820	J120	
F818	G111	G412	G589	G934	H171	H401	H545	H833	I210	I427	I635	I821	J121	
F819	G112	G418	G600	G935	H178	H402	H546	H838	I211	I428	I636	I822	J122	
F82	G113	G419	G601	G936	H179	H403	H549	H839	I212	I429	I638	I823	J123	
F83	G114	G430	G602	G937	H180	H404	H55	H900	I213	I440	I639	I828	J128	
F840	G118	G431	G603	G938	H181	H405	H570	H901	I214	I441	I64	I829	J129	
F841	G119	G432	G608	G939	H182	H406	H571	H902	I219	I442	I670	I830	J13	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death  
Classification - Continued

J383	J81	K051	K225	K403	K605	K767	L059	L298	L573	L748	L983	M171	M310	M483
J384	J82	K052	K226	K404	K610	K768	L080	L299	L574	L749	L984	M172	M311	M484
J385	J840	K053	K227	K409	K611	K769	L081	L300	L575	L750	L985	M173	M312	M485
J386	J841	K054	K228	K410	K612	K800	L088	L301	L578	L751	L986	M174	M313	M488
J387	J848	K055	K229	K411	K613	K801	L089	L302	L579	L752	L988	M175	M314	M489
J390	J849	K056	K250	K412	K614	K802	L100	L303	L580	L758	L989	M179	M315	M500
J391	J850	K060	K251	K413	K620	K803	L101	L304	L581	L759	M000	M180	M316	M501
J392	J851	K061	K252	K414	K621	K804	L102	L305	L589	L80	M001	M181	M317	M502
J393	J852	K062	K253	K419	K622	K805	L103	L308	L590	L810	M002	M182	M318	M503
J398	J853	K068	K254	K420	K623	K808	L104	L309	L598	L811	M008	M183	M319	M508
J399	J860	K069	K255	K421	K624	K810	L105	L400	L599	L812	M009	M184	M320	M509
J40	J869	K070	K256	K429	K625	K811	L108	L401	L600	L813	M020	M185	M321	M510
J410	J90	K071	K257	K430	K626	K818	L109	L402	L601	L814	M021	M189	M328	M511
J411	J920	K072	K259	K431	K627	K819	L110	L403	L602	L815	M022	M190	M329	M512
J418	J929	K073	K260	K439	K628	K820	L111	L404	L603	L816	M023	M191	M330	M513
J42	J930	K074	K261	K440	K629	K821	L118	L405	L604	L817	M028	M192	M331	M514
J430	J931	K075	K262	K441	K630	K822	L119	L408	L605	L818	M029	M198	M332	M518
J431	J938	K076	K263	K449	K631	K823	L120	L409	L608	L819	M050	M199	M339	M519
J432	J939	K078	K264	K450	K632	K824	L121	L410	L609	L82	M051	M200	M340	M530
J438	J940	K079	K265	K451	K633	K828	L122	L411	L630	L83	M052	M201	M341	M531
J439	J941	K080	K266	K458	K634	K829	L123	L412	L631	L84	M053	M202	M342	M532
J440	J942	K081	K267	K460	K635	K830	L128	L413	L632	L850	M058	M203	M348	M533
J441	J948	K082	K269	K461	K638	K831	L129	L414	L638	L851	M059	M204	M349	M538
J448	J949	K083	K270	K469	K639	K832	L130	L415	L639	L852	M060	M205	M350	M539
J449	J960	K088	K271	K500	K650	K833	L131	L418	L640	L853	M061	M206	M351	M540
J450	J961	K089	K272	K501	K658	K834	L138	L419	L648	L858	M062	M210	M352	M541
J451	J969	K090	K273	K508	K659	K835	L139	L42	L649	L859	M063	M211	M353	M542
J458	J980	K091	K274	K509	K660	K838	L200	L430	L650	L870	M064	M212	M354	M543
J459	J981	K092	K275	K510	K661	K839	L208	L431	L651	L871	M068	M213	M355	M544
J46	J982	K098	K276	K512	K668	K850	L209	L432	L652	L872	M069	M214	M356	M545
J47	J983	K099	K277	K513	K669	K851	L210	L433	L658	L878	M080	M215	M357	M546
J60	J984	K100	K279	K514	K700	K852	L211	L438	L659	L879	M081	M216	M358	M548
J61	J985	K101	K280	K515	K701	K853	L218	L439	L660	L88	M082	M217	M359	M549
J620	J986	K102	K281	K518	K702	K858	L219	L440	L661	L890	M083	M218	M400	M600
J628	J988	K103	K282	K519	K703	K859	L22	L441	L662	L891	M084	M219	M401	M601
J630	J989	K108	K283	K520	K704	K860	L230	L442	L663	L892	M088	M220	M402	M602
J631	K000	K109	K284	K521	K709	K861	L231	L443	L664	L893	M089	M221	M403	M608
J632	K001	K110	K285	K522	K710	K862	L232	L444	L668	L899	M100	M222	M404	M609
J633	K002	K111	K286	K523	K711	K863	L233	L448	L669	L900	M101	M223	M405	M610
J634	K003	K112	K287	K528	K712	K868	L234	L449	L670	L901	M102	M224	M410	M611
J635	K004	K113	K289	K529	K713	K869	L235	L500	L671	L902	M103	M228	M411	M612
J638	K005	K114	K290	K550	K714	K900	L236	L501	L678	L903	M104	M229	M412	M613
J64	K006	K115	K291	K551	K715	K901	L237	L502	L679	L904	M109	M230	M413	M614
J65	K007	K116	K292	K552	K716	K902	L238	L503	L680	L905	M110	M231	M414	M615
J660	K008	K117	K293	K558	K717	K903	L239	L504	L681	L906	M111	M232	M415	M619
J661	K009	K118	K294	K559	K718	K904	L240	L505	L682	L908	M112	M233	M418	M620
J662	K010	K119	K295	K560	K719	K908	L241	L506	L683	L909	M118	M234	M419	M621
J668	K011	K120	K296	K561	K720	K909	L242	L508	L688	L910	M119	M235	M420	M622
J670	K020	K121	K297	K562	K721	K920	L243	L509	L689	L918	M120	M236	M421	M623
J671	K021	K122	K298	K563	K729	K921	L244	L510	L700	L919	M121	M238	M429	M624
J672	K022	K123	K299	K564	K730	K922	L245	L511	L701	L920	M122	M239	M430	M625
J673	K023	K130	K30	K565	K731	K928	L246	L512	L702	L921	M123	M240	M431	M626
J674	K024	K131	K310	K566	K732	K929	L247	L518	L703	L922	M124	M241	M432	M628
J675	K028	K132	K311	K567	K738	L00	L248	L519	L704	L923	M125	M242	M433	M629
J676	K029	K133	K312	K570	K739	L010	L249	L52	L705	L928	M128	M243	M434	M650
J677	K030	K134	K313	K571	K740	L011	L250	L530	L708	L929	M130	M244	M435	M651
J678	K031	K135	K314	K572	K741	L020	L251	L531	L709	L930	M131	M245	M436	M652
J679	K032	K136	K315	K573	K742	L021	L252	L532	L710	L931	M138	M246	M438	M653
J680	K033	K137	K316	K574	K743	L022	L253	L533	L711	L932	M139	M247	M439	M654
J681	K034	K140	K317	K575	K744	L023	L254	L538	L718	L940	M150	M248	M45	M658
J682	K035	K141	K318	K578	K745	L024	L255	L539	L719	L941	M151	M249	M460	M659
J683	K036	K142	K319	K579	K746	L028	L258	L550	L720	L942	M152	M250	M461	M660
J684	K037	K143	K352	K580	K750	L029	L259	L551	L721	L943	M153	M251	M462	M661
J688	K038	K144	K353	K589	K751	L030	L26	L552	L722	L944	M154	M252	M463	M662
J689	K039	K145	K358	K590	K752	L031	L270	L558	L728	L945	M158	M253	M464	M663
J690	K040	K146	K36	K591	K753	L032	L271	L559	L729	L946	M159	M254	M465	M664
J691	K041	K148	K37	K592	K754	L033	L272	L560	L730	L948	M160	M255	M468	M665
J698	K042	K149	K380	K593	K758	L038	L278	L561	L731	L949	M161	M256	M469	M670
J700	K043	K20	K381	K594	K759	L039	L279	L562	L732	L950	M162	M257	M470	M671
J701	K044	K210	K382	K598	K760	L040	L280	L563	L738	L951	M163	M258	M471	M672
J702	K045	K219	K383	K599	K761	L041	L281	L564	L739	L958	M164	M259	M472	M673
J703	K046	K220	K388	K600	K762	L042	L282	L568	L740	L959	M165	M300	M478	M674
J704	K047	K221	K389	K601	K763	L043	L290	L569	L741	L97	M166	M301	M479	M678
J708	K048	K222	K400	K602	K764	L048	L291	L570	L742	L980	M167	M302	M480	
J709	K049	K223	K401	K603	K765	L049	L292	L571	L743	L981	M169	M303	M481	
J80	K050	K224	K402	K604	K766	L050	L293	L572	L744	L982	M170	M308	M482	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification - Continued

M679	M816	M941	N053	N259	N484	N818	N922	O057	O263	O364	O681	O894	P026	P200
M700	M818	M942	N054	N26	N485	N819	N923	O058	O264	O365	O682	O895	P027	P201
M701	M819	M943	N055	N270	N486	N820	N924	O059	O265	O366	O683	O896	P028	P209
M702	M830	M948	N056	N271	N488	N821	N925	O060	O266	O367	O688	O898	P029	P210
M703	M831	M949	N057	N279	N489	N822	N926	O061	O267	O368	O689	O899	P030	P211
M704	M832	M950	N058	N280	N490	N823	N930	O062	O268	O369	O690	O900	P031	P219
M705	M833	M951	N059	N281	N491	N824	N938	O063	O269	O40	O691	O901	P032	P220
M706	M834	M952	N060	N288	N492	N825	N939	O064	O280	O410	O692	O902	P033	P221
M707	M835	M953	N061	N289	N498	N828	N940	O065	O281	O411	O693	O903	P034	P228
M708	M838	M954	N062	N300	N499	N829	N941	O066	O282	O418	O694	O904	P035	P229
M709	M839	M955	N063	N301	N500	N830	N942	O067	O283	O419	O695	O905	P036	P230
M710	M840	M958	N064	N302	N501	N831	N943	O068	O284	O420	O698	O908	P038	P231
M711	M841	M959	N065	N303	N508	N832	N944	O069	O285	O421	O699	O909	P039	P232
M712	M842	M990	N066	N304	N509	N833	N945	O070	O288	O422	O700	O910	P040	P233
M713	M843	M991	N067	N308	N600	N834	N946	O071	O289	O429	O701	O911	P041	P234
M714	M844	M992	N068	N309	N601	N835	N948	O072	O290	O430	O702	O912	P042	P235
M715	M848	M993	N069	N310	N602	N836	N949	O073	O291	O431	O703	O920	P043	P236
M718	M849	M994	N070	N311	N603	N837	N950	O074	O292	O432	O709	O921	P044	P238
M719	M850	M995	N071	N312	N604	N838	N951	O075	O293	O438	O710	O922	P045	P239
M720	M851	M996	N072	N318	N608	N839	N952	O076	O294	O439	O711	O923	P046	P240
M721	M852	M997	N073	N319	N609	N840	N953	O077	O295	O440	O712	O924	P048	P241
M722	M853	M998	N074	N320	N61	N841	N958	O078	O296	O441	O713	O925	P049	P242
M724	M854	M999	N075	N321	N62	N842	N959	O079	O298	O450	O714	O926	P050	P243
M726	M855	N000	N076	N322	N63	N843	N96	O100	O299	O458	O715	O927	P051	P248
M728	M856	N001	N077	N323	N640	N848	N970	O101	O300	O459	O716	O95	P052	P249
M729	M858	N002	N078	N324	N641	N849	N971	O102	O301	O460	O717	O960	P059	P250
M750	M859	N003	N079	N328	N642	N850	N972	O103	O302	O468	O718	O961	P070	P251
M751	M860	N004	N10	N329	N643	N851	N973	O104	O308	O469	O719	O969	P071	P252
M752	M861	N005	N110	N340	N644	N852	N974	O109	O309	O470	O720	O970	P072	P253
M753	M862	N006	N111	N341	N645	N853	N978	O11	O310	O471	O721	O971	P073	P258
M754	M863	N007	N118	N342	N648	N854	N979	O120	O311	O479	O722	O979	P080	P260
M755	M864	N008	N119	N343	N649	N855	N980	O121	O312	O48	O723	O980	P081	P261
M758	M865	N009	N12	N350	N700	N856	N981	O122	O318	O60	O730	O981	P082	P268
M759	M866	N010	N130	N351	N701	N857	N982	O13	O320	O610	O731	O982	P100	P269
M760	M868	N011	N131	N358	N709	N858	N983	O140	O321	O611	O740	O983	P101	P270
M761	M869	N012	N132	N359	N710	N859	N988	O141	O322	O618	O741	O984	P102	P271
M762	M870	N013	N133	N360	N711	N86	N989	O142	O323	O619	O742	O985	P103	P278
M763	M871	N014	N134	N361	N719	N870	O000	O149	O324	O620	O743	O986	P104	P279
M764	M872	N015	N135	N362	N72	N871	O001	O150	O325	O621	O744	O987	P108	P280
M765	M873	N016	N136	N363	N730	N872	O002	O151	O326	O622	O745	O988	P109	P281
M766	M878	N017	N137	N368	N731	N879	O008	O152	O328	O623	O746	O989	P110	P282
M767	M879	N018	N138	N369	N732	N880	O009	O159	O329	O624	O747	O990	P111	P283
M768	M880	N019	N139	N390	N733	N881	O010	O16	O330	O628	O748	O991	P112	P284
M769	M888	N020	N140	N391	N734	N882	O011	O200	O331	O629	O749	O992	P113	P285
M770	M889	N021	N141	N392	N735	N883	O019	O208	O332	O630	O750	O993	P114	P288
M771	M890	N022	N142	N393	N736	N884	O020	O209	O333	O631	O751	O994	P115	P289
M772	M891	N023	N143	N394	N738	N888	O021	O210	O334	O632	O752	O995	P119	P290
M773	M892	N024	N144	N398	N739	N889	O028	O211	O335	O639	O753	O996	P120	P291
M774	M893	N025	N150	N399	N750	N890	O029	O212	O336	O640	O754	O997	P121	P292
M775	M894	N026	N151	N40	N751	N891	O030	O218	O337	O641	O755	O998	P122	P293
M778	M895	N027	N158	N410	N758	N892	O031	O219	O338	O642	O756	P000	P123	P294
M779	M896	N028	N159	N411	N759	N893	O032	O220	O339	O643	O757	P001	P124	P298
M790	M898	N029	N170	N412	N760	N894	O033	O221	O340	O644	O758	P002	P128	P299
M791	M899	N030	N171	N413	N761	N895	O034	O222	O341	O645	O759	P003	P129	P350
M792	M910	N031	N172	N418	N762	N896	O035	O223	O342	O648	O85	P004	P130	P351
M793	M911	N032	N178	N419	N763	N897	O036	O224	O343	O649	O860	P005	P131	P352
M794	M912	N033	N179	N420	N764	N898	O037	O225	O344	O650	O861	P006	P132	P353
M795	M913	N034	N181	N421	N765	N899	O038	O228	O345	O651	O862	P007	P133	P358
M796	M918	N035	N182	N422	N766	N900	O039	O229	O346	O652	O863	P008	P134	P359
M797	M919	N036	N183	N423	N768	N901	O040	O230	O347	O653	O864	P009	P138	P360
M798	M920	N037	N184	N428	N800	N902	O041	O231	O348	O654	O868	P010	P139	P361
M799	M921	N038	N185	N429	N801	N903	O042	O232	O349	O655	O870	P011	P140	P362
M800	M922	N039	N189	N430	N802	N904	O043	O233	O350	O658	O871	P012	P141	P363
M801	M923	N040	N19	N431	N803	N905	O044	O234	O351	O659	O872	P013	P142	P364
M802	M924	N041	N200	N432	N804	N906	O045	O235	O352	O660	O873	P014	P143	P365
M803	M925	N042	N201	N433	N805	N907	O046	O239	O353	O661	O878	P015	P148	P368
M804	M926	N043	N202	N434	N806	N908	O047	O240	O354	O662	O879	P016	P149	P369
M805	M927	N044	N209	N44	N808	N909	O048	O241	O355	O663	O880	P017	P150	P370
M808	M928	N045	N210	N450	N809	N910	O049	O242	O356	O664	O881	P018	P151	P371
M809	M929	N046	N211	N459	N810	N911	O050	O243	O357	O665	O882	P019	P152	P372
M810	M930	N047	N218	N46	N811	N912	O051	O244	O358	O668	O883	P020	P153	P373
M811	M931	N048	N219	N47	N812	N913	O052	O249	O359	O669	O888	P021	P154	P374
M812	M932	N049	N23	N480	N813	N914	O053	O25	O360	O670	O890	P022	P155	P375
M813	M938	N050	N250	N481	N814	N915	O054	O260	O361	O678	O891	P023	P156	
M814	M939	N051	N251	N482	N815	N920	O055	O261	O362	O679	O892	P024	P158	
M815	M940	N052	N258	N483	N816	N921	O056	O262	O363	O680	O893	P025	P159	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification - Continued

P378	P703	P961	Q140	Q251	Q378	Q518	Q649	Q752	Q846	Q973	R200	R457	R760	R871
P379	P704	P962	Q141	Q252	Q379	Q519	Q650	Q753	Q848	Q978	R201	R458	R761	R872
P38	P708	P963	Q142	Q253	Q380	Q520	Q651	Q754	Q849	Q979	R202	R460	R762	R873
P390	P709	P964	Q143	Q254	Q381	Q521	Q652	Q755	Q850	Q980	R203	R461	R768	R874
P391	P710	P965	Q148	Q255	Q382	Q522	Q653	Q758	Q851	Q981	R208	R462	R769	R875
P392	P711	P968	Q149	Q256	Q383	Q523	Q654	Q759	Q858	Q982	R21	R463	R770	R876
P393	P712	P969	Q150	Q257	Q384	Q524	Q655	Q760	Q859	Q983	R220	R464	R771	R877
P394	P713	Q000	Q158	Q258	Q385	Q525	Q656	Q761	Q860	Q984	R221	R465	R772	R878
P398	P714	Q001	Q159	Q259	Q386	Q526	Q658	Q762	Q861	Q985	R222	R466	R778	R879
P399	P718	Q002	Q160	Q260	Q387	Q527	Q659	Q763	Q862	Q986	R223	R467	R779	R890
P500	P719	Q010	Q161	Q261	Q388	Q528	Q660	Q764	Q868	Q987	R224	R468	R780	R891
P501	P720	Q011	Q162	Q262	Q390	Q529	Q661	Q765	Q870	Q988	R227	R470	R781	R892
P502	P721	Q012	Q163	Q263	Q391	Q530	Q662	Q766	Q871	Q989	R229	R471	R782	R893
P503	P722	Q018	Q164	Q264	Q392	Q531	Q663	Q767	Q872	Q990	R230	R478	R783	R894
P504	P728	Q019	Q165	Q265	Q393	Q532	Q664	Q768	Q873	Q991	R231	R480	R784	R895
P505	P729	Q02	Q169	Q266	Q394	Q539	Q665	Q769	Q874	Q992	R232	R481	R785	R896
P508	P740	Q030	Q170	Q268	Q395	Q540	Q666	Q770	Q875	Q998	R233	R482	R786	R897
P509	P741	Q031	Q171	Q269	Q396	Q541	Q667	Q771	Q878	Q999	R234	R488	R787	R898
P510	P742	Q038	Q172	Q270	Q398	Q542	Q668	Q772	Q890	R000	R238	R490	R788	R899
P518	P743	Q039	Q173	Q271	Q399	Q543	Q669	Q773	Q891	R001	R250	R491	R789	R900
P519	P744	Q040	Q174	Q272	Q400	Q544	Q670	Q774	Q892	R002	R251	R492	R790	R908
P520	P745	Q041	Q175	Q273	Q401	Q548	Q671	Q775	Q893	R008	R252	R498	R798	R91
P521	P748	Q042	Q178	Q274	Q402	Q549	Q672	Q776	Q894	R010	R253	R502	R799	R92
P522	P749	Q043	Q179	Q278	Q403	Q550	Q673	Q777	Q897	R011	R258	R508	R80	R930
P523	P760	Q044	Q180	Q279	Q408	Q551	Q674	Q778	Q898	R012	R260	R509	R81	R931
P524	P761	Q045	Q181	Q280	Q409	Q552	Q675	Q779	Q899	R02	R261	R51	R820	R932
P525	P762	Q046	Q182	Q281	Q410	Q553	Q676	Q780	Q900	R030	R262	R520	R821	R933
P526	P768	Q048	Q183	Q282	Q411	Q554	Q677	Q781	Q901	R031	R263	R521	R822	R934
P528	P769	Q049	Q184	Q283	Q412	Q555	Q678	Q782	Q902	R040	R268	R522	R823	R935
P529	P77	Q050	Q185	Q288	Q418	Q556	Q680	Q783	Q909	R041	R270	R529	R824	R936
P53	P780	Q051	Q186	Q289	Q419	Q558	Q681	Q784	Q910	R042	R278	R53	R825	R937
P540	P781	Q052	Q187	Q300	Q420	Q559	Q682	Q785	Q911	R048	R290	R54	R826	R938
P541	P782	Q053	Q188	Q301	Q421	Q560	Q683	Q786	Q912	R049	R291	R55	R827	R940
P542	P783	Q054	Q189	Q302	Q422	Q561	Q684	Q788	Q913	R05	R292	R560	R828	R941
P543	P788	Q055	Q200	Q303	Q423	Q562	Q685	Q789	Q914	R060	R293	R568	R829	R942
P544	P789	Q056	Q201	Q308	Q428	Q563	Q688	Q790	Q915	R061	R294	R570	R830	R943
P545	P800	Q057	Q202	Q309	Q429	Q564	Q690	Q791	Q916	R062	R296	R571	R831	R944
P546	P808	Q058	Q203	Q310	Q430	Q600	Q691	Q792	Q917	R063	R298	R578	R832	R945
P548	P809	Q059	Q204	Q311	Q431	Q601	Q692	Q793	Q920	R064	R300	R579	R833	R946
P549	P810	Q060	Q205	Q312	Q432	Q602	Q699	Q794	Q921	R065	R301	R58	R834	R947
P550	P818	Q061	Q206	Q313	Q433	Q603	Q700	Q795	Q922	R066	R309	R590	R835	R948
P551	P819	Q062	Q208	Q315	Q434	Q604	Q701	Q796	Q923	R067	R31	R591	R836	R95
P558	P830	Q063	Q209	Q318	Q435	Q605	Q702	Q798	Q924	R068	R32	R599	R837	R960
P559	P831	Q064	Q210	Q319	Q436	Q606	Q703	Q799	Q925	R070	R33	R600	R838	R961
P560	P832	Q068	Q211	Q320	Q437	Q610	Q704	Q800	Q926	R071	R34	R601	R839	R98
P569	P833	Q069	Q212	Q321	Q438	Q611	Q709	Q801	Q927	R072	R35	R609	R840	R99
P570	P834	Q070	Q213	Q322	Q439	Q612	Q710	Q802	Q928	R073	R36	R610	R841	*U010
P578	P835	Q078	Q214	Q323	Q440	Q613	Q711	Q803	Q929	R074	R390	R611	R842	*U011
P579	P836	Q079	Q218	Q324	Q441	Q614	Q712	Q804	Q930	R090	R391	R619	R843	*U012
P580	P838	Q100	Q219	Q330	Q442	Q615	Q713	Q808	Q931	R091	R392	R620	R844	*U013
P581	P839	Q101	Q220	Q331	Q443	Q618	Q714	Q809	Q932	R092	R398	R628	R845	*U014
P582	P90	Q102	Q221	Q332	Q444	Q619	Q715	Q810	Q933	R093	R400	R629	R846	*U015
P583	P910	Q103	Q222	Q333	Q445	Q620	Q716	Q811	Q934	R098	R401	R630	R847	*U016
P584	P911	Q104	Q223	Q334	Q446	Q621	Q718	Q812	Q935	R100	R402	R631	R848	*U017
P585	P912	Q105	Q224	Q335	Q447	Q622	Q719	Q818	Q936	R101	R410	R632	R849	*U018
P588	P913	Q106	Q225	Q336	Q450	Q623	Q720	Q819	Q937	R102	R411	R633	R850	*U019
P589	P914	Q107	Q226	Q338	Q451	Q624	Q721	Q820	Q938	R103	R412	R634	R851	*U02
P590	P915	Q110	Q228	Q339	Q452	Q625	Q722	Q821	Q939	R104	R413	R635	R852	*U030
P591	P916	Q111	Q229	Q340	Q453	Q626	Q723	Q822	Q950	R11	R418	R636	R853	*U039
P592	P918	Q112	Q230	Q341	Q458	Q627	Q724	Q823	Q951	R12	R42	R638	R854	U049
P593	P919	Q113	Q231	Q348	Q459	Q628	Q725	Q824	Q952	R13	R430	R64	R855	V010
P598	P920	Q120	Q232	Q349	Q500	Q630	Q726	Q825	Q953	R14	R431	R680	R856	V011
P599	P921	Q121	Q233	Q351	Q501	Q631	Q727	Q828	Q954	R15	R432	R681	R857	V019
P60	P922	Q122	Q234	Q353	Q502	Q632	Q728	Q829	Q955	R160	R438	R682	R858	V020
P610	P923	Q123	Q238	Q355	Q503	Q633	Q729	Q830	Q958	R161	R440	R683	R859	V021
P611	P924	Q124	Q239	Q357	Q504	Q638	Q730	Q831	Q959	R162	R441	R688	R860	V029
P612	P925	Q128	Q240	Q359	Q505	Q639	Q731	Q832	Q960	R17	R442	R700	R861	
P613	P928	Q129	Q241	Q360	Q506	Q640	Q738	Q833	Q961	R18	R443	R701	R862	
P614	P929	Q130	Q242	Q361	Q510	Q641	Q740	Q838	Q962	R190	R448	R71	R863	
P615	P93	Q131	Q243	Q369	Q511	Q642	Q741	Q839	Q963	R191	R450	R72	R864	
P616	P940	Q132	Q244	Q370	Q512	Q643	Q742	Q840	Q964	R192	R451	R730	R865	
P618	P941	Q133	Q245	Q371	Q513	Q644	Q743	Q841	Q968	R193	R452	R739	R866	
P619	P942	Q134	Q246	Q372	Q514	Q645	Q748	Q842	Q969	R194	R453	R740	R867	
P700	P948	Q135	Q248	Q373	Q515	Q646	Q749	Q843	Q970	R195	R454	R748	R868	
P701	P949	Q138	Q249	Q374	Q516	Q647	Q750	Q844	Q971	R196	R455	R749	R869	
P702	P960	Q139	Q250	Q375	Q517	Q648	Q751	Q845	Q972	R198	R456	R75	R870	

Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death  
 Classification - Continued

V030	V189	V296	V384	V472	V560	V647	V735	V821	V909	W19	X11	X88	Y405	Y497
V031	V190	V298	V385	V473	V561	V649	V736	V822	V910	W20	X12	X89	Y406	Y498
V039	V191	V299	V386	V474	V562	V650	V737	V823	V911	W21	X13	X90	Y407	Y499
V040	V192	V300	V387	V475	V563	V651	V739	V824	V912	W22	X14	X91	Y408	Y500
V041	V193	V301	V389	V476	V564	V652	V740	V825	V913	W23	X15	X92	Y409	Y501
V049	V194	V302	V390	V477	V565	V653	V741	V826	V914	W24	X16	X93	Y410	Y502
V050	V195	V303	V391	V479	V566	V654	V742	V827	V915	W25	X17	X94	Y411	Y508
V051	V196	V304	V392	V480	V567	V655	V743	V828	V916	W26	X18	X95	Y412	Y509
V059	V198	V305	V393	V481	V569	V656	V744	V829	V917	W27	X19	X96	Y413	Y510
V060	V199	V306	V394	V482	V570	V657	V745	V830	V918	W28	X20	X97	Y414	Y511
V061	V200	V307	V395	V483	V571	V659	V746	V831	V919	W29	X21	X98	Y415	Y512
V069	V201	V309	V396	V484	V572	V660	V747	V832	V920	W30	X22	X99	Y418	Y513
V090	V202	V310	V398	V485	V573	V661	V749	V833	V921	W31	X23	Y00	Y419	Y514
V091	V203	V311	V399	V486	V574	V662	V750	V834	V922	W32	X24	Y01	Y420	Y515
V092	V204	V312	V400	V487	V575	V663	V751	V835	V923	W33	X25	Y02	Y421	Y516
V093	V205	V313	V401	V489	V576	V664	V752	V836	V924	W34	X26	Y03	Y422	Y517
V099	V209	V314	V402	V490	V577	V665	V753	V837	V925	W35	X27	Y04	Y423	Y518
V100	V210	V315	V403	V491	V579	V666	V754	V839	V926	W36	X28	Y05	Y424	Y519
V101	V211	V316	V404	V492	V580	V667	V755	V840	V927	W37	X29	Y060	Y425	Y520
V102	V212	V317	V405	V493	V581	V669	V756	V841	V928	W38	X30	Y061	Y426	Y521
V103	V213	V319	V406	V494	V582	V670	V757	V842	V929	W39	X31	Y062	Y427	Y522
V104	V214	V320	V407	V495	V583	V671	V759	V843	V930	W40	X32	Y068	Y428	Y523
V105	V215	V321	V409	V496	V584	V672	V760	V844	V931	W41	X33	Y069	Y429	Y524
V109	V219	V322	V410	V498	V585	V673	V761	V845	V932	W42	X340	Y070	Y430	Y525
V110	V220	V323	V411	V499	V586	V674	V762	V846	V933	W43	X341	Y071	Y431	Y526
V111	V221	V324	V412	V500	V587	V675	V763	V847	V934	W44	X348	Y072	Y432	Y527
V112	V222	V325	V413	V501	V589	V676	V764	V849	V935	W45	X349	Y073	Y433	Y528
V113	V223	V326	V414	V502	V590	V677	V765	V850	V936	W46	X35	Y078	Y434	Y529
V114	V224	V327	V415	V503	V591	V679	V766	V851	V937	W49	X36	Y079	Y435	Y530
V115	V225	V329	V416	V504	V592	V680	V767	V852	V938	W50	X37	Y08	Y436	Y531
V119	V229	V330	V417	V505	V593	V681	V769	V853	V939	W51	X38	Y09	Y438	Y532
V120	V230	V331	V419	V506	V594	V682	V770	V854	V940	W52	X39	Y10	Y439	Y533
V121	V231	V332	V420	V507	V595	V683	V771	V855	V941	W53	X40	Y11	Y440	Y534
V122	V232	V333	V421	V509	V596	V684	V772	V856	V942	W54	X41	Y12	Y441	Y535
V123	V233	V334	V422	V510	V598	V685	V773	V857	V943	W55	X42	Y13	Y442	Y536
V124	V234	V335	V423	V511	V599	V686	V774	V859	V944	W56	X43	Y14	Y443	Y537
V125	V235	V336	V424	V512	V600	V687	V775	V860	V945	W57	X44	Y15	Y444	Y538
V129	V239	V337	V425	V513	V601	V689	V776	V861	V946	W58	X45	Y16	Y445	Y539
V130	V240	V339	V426	V514	V602	V690	V777	V862	V947	W59	X46	Y17	Y446	Y540
V131	V241	V340	V427	V515	V603	V691	V779	V863	V948	W60	X47	Y18	Y447	Y541
V132	V242	V341	V429	V516	V604	V692	V780	V864	V949	W64	X48	Y19	Y449	Y542
V133	V243	V342	V430	V517	V605	V693	V781	V865	V950	W65	X49	Y20	Y450	Y543
V134	V244	V343	V431	V519	V606	V694	V782	V866	V951	W66	X50	Y21	Y451	Y544
V135	V245	V344	V432	V520	V607	V695	V783	V867	V952	W67	X51	Y22	Y452	Y545
V139	V249	V345	V433	V521	V609	V696	V784	V869	V953	W68	X52	Y23	Y453	Y546
V140	V250	V346	V434	V522	V610	V698	V785	V870	V954	W69	X53	Y24	Y454	Y547
V141	V251	V347	V435	V523	V611	V699	V786	V871	V958	W70	X54	Y25	Y455	Y548
V142	V252	V349	V436	V524	V612	V700	V787	V872	V959	W73	X57	Y26	Y458	Y549
V143	V253	V350	V437	V525	V613	V701	V789	V873	V960	W74	X58	Y27	Y459	Y550
V144	V254	V351	V439	V526	V614	V702	V790	V874	V961	W75	X590	Y28	Y460	Y551
V145	V255	V352	V440	V527	V615	V703	V791	V875	V962	W76	X599	Y29	Y461	Y552
V149	V259	V353	V441	V529	V616	V704	V792	V876	V968	W77	X60	Y30	Y462	Y553
V150	V260	V354	V442	V530	V617	V705	V793	V877	V969	W78	X61	Y31	Y463	Y554
V151	V261	V355	V443	V531	V619	V706	V794	V878	V970	W79	X62	Y32	Y464	Y555
V152	V262	V356	V444	V532	V620	V707	V795	V879	V971	W80	X63	Y33	Y465	Y556
V153	V263	V357	V445	V533	V621	V709	V796	V880	V972	W81	X64	Y34	Y466	Y557
V154	V264	V359	V446	V534	V622	V710	V798	V881	V973	W83	X65	Y350	Y467	Y560
V155	V265	V360	V447	V535	V623	V711	V799	V882	V978	W84	X66	Y351	Y468	Y561
V159	V269	V361	V449	V536	V624	V712	V800	V883	V98	W85	X67	Y352	Y470	Y562
V160	V270	V362	V450	V537	V625	V713	V801	V884	V99	W86	X68	Y353	Y471	Y563
V161	V271	V363	V451	V539	V626	V714	V802	V885	W00	W87	X69	Y354	Y472	Y564
V162	V272	V364	V452	V540	V627	V715	V803	V886	W01	W88	X70	Y355	Y473	Y565
V163	V273	V365	V453	V541	V629	V716	V804	V887	W02	W89	X71	Y356	Y474	Y566
V164	V274	V366	V454	V542	V630	V717	V805	V888	W03	W90	X72	Y357	Y475	Y567
V165	V275	V367	V455	V543	V631	V719	V806	V889	W04	W91	X73	Y360	Y478	Y568
V169	V279	V369	V456	V544	V632	V720	V807	V890	W05	W92	X74	Y361	Y479	Y569
V170	V280	V370	V457	V545	V633	V721	V808	V891	W06	W93	X75	Y362	Y480	Y570
V171	V281	V371	V459	V546	V634	V722	V809	V892	W07	W94	X76	Y363	Y481	Y571
V172	V282	V372	V460	V547	V635	V723	V810	V893	W08	W99	X77	Y364	Y482	Y572
V173	V283	V373	V461	V549	V636	V724	V811	V899	W09	X00	X78	Y365	Y483	Y573
V174	V284	V374	V462	V550	V637	V725	V812	V900	W10	X01	X79	Y366	Y484	Y574
V175	V285	V375	V463	V551	V639	V726	V813	V901	W11	X02	X80	Y367	Y485	Y575
V179	V289	V376	V464	V552	V640	V727	V814	V902	W12	X03	X81	Y368	Y490	Y576
V180	V290	V377	V465	V553	V641	V729	V815	V903	W13	X04	X82	Y369	Y491	Y577
V181	V291	V379	V466	V554	V642	V730	V816	V904	W14	X05	X83	Y400	Y492	Y578
V182	V292	V380	V467	V555	V643	V731	V817	V905	W15	X06	X84	Y401	Y493	Y579
V183	V293	V381	V469	V556	V644	V732	V818	V906	W16	X08	X85	Y402	Y494	Y580
V184	V294	V382	V470	V557	V645	V733	V819	V907	W17	X09	X86	Y403	Y495	Y581
V185	V295	V383	V471	V559	V646	V734	V820	V908	W18	X10	X87	Y404	Y496	Y582



Table C. ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification - Continued

Y583	Y599	Y610	Y621	Y633	Y651	Y703	Y728	Y750	Y771	Y792	Y813	Y834	Y846	Y881
Y584	Y600	Y611	Y622	Y634	Y652	Y708	Y730	Y751	Y772	Y793	Y818	Y835	Y847	Y882
Y585	Y601	Y612	Y623	Y635	Y653	Y710	Y731	Y752	Y773	Y798	Y820	Y836	Y848	Y883
Y586	Y602	Y613	Y624	Y636	Y654	Y711	Y732	Y753	Y778	Y800	Y821	Y838	Y849	Y890
Y588	Y603	Y614	Y625	Y638	Y655	Y712	Y733	Y758	Y780	Y801	Y822	Y839	Y850	Y891
Y589	Y604	Y615	Y626	Y639	Y658	Y713	Y738	Y760	Y781	Y802	Y823	Y840	Y859	Y899
Y590	Y605	Y616	Y628	Y640	Y66	Y718	Y740	Y761	Y782	Y803	Y828	Y841	Y86	
Y591	Y606	Y617	Y629	Y641	Y69	Y720	Y741	Y762	Y783	Y808	Y830	Y842	Y870	
Y592	Y607	Y618	Y630	Y648	Y700	Y721	Y742	Y763	Y788	Y810	Y831	Y843	Y871	
Y593	Y608	Y619	Y631	Y649	Y701	Y722	Y743	Y768	Y790	Y811	Y832	Y844	Y872	
Y598	Y609	Y620	Y632	Y650	Y702	Y723	Y748	Y770	Y791	Y812	Y833	Y845	Y880	

Table D. ICD-10 Nature-of-Injury Codes Valid for Multiple Cause Classification Only  
(from Chapter XIX, Injury, poisoning and certain other consequences of external causes)

S000	S069	S202	S307	S379	S499	S617	S709	S832	S940	T065	T190	T269	T346	T420
S001	S070	S203	S308	S380	S500	S618	S710	S833	S941	T07	T191	T270	T347	T421
S002	S071	S204	S309	S381	S501	S619	S711	S834	S942	T08	T192	T271	T348	T422
S003	S078	S207	S310	S382	S507	S620	S717	S835	S943	T090	T193	T272	T349	T423
S004	S079	S208	S311	S383	S508	S621	S718	S836	S947	T091	T198	T273	T350	T424
S005	S080	S210	S312	S390	S509	S622	S720	S837	S948	T092	T199	T274	T351	T425
S007	S081	S211	S313	S396	S510	S623	S721	S840	S949	T093	T200	T275	T352	T426
S008	S088	S212	S314	S397	S517	S624	S722	S841	S950	T094	T201	T276	T353	T427
S009	S089	S217	S315	S398	S518	S625	S723	S842	S951	T095	T202	T277	T354	T428
S010	S090	S218	S317	S399	S519	S626	S724	S847	S952	T096	T203	T280	T355	T430
S011	S091	S219	S318	S400	S520	S627	S727	S848	S957	T098	T204	T281	T356	T431
S012	S092	S220	S320	S407	S521	S628	S728	S849	S958	T099	T205	T282	T357	T432
S013	S097	S221	S321	S408	S522	S630	S729	S850	S959	T10	T206	T283	T360	T433
S014	S098	S222	S322	S409	S523	S631	S730	S851	S960	T110	T207	T284	T361	T434
S015	S099	S223	S323	S410	S524	S632	S731	S852	S961	T111	T210	T285	T362	T435
S017	S100	S224	S324	S411	S525	S633	S740	S853	S962	T112	T211	T286	T363	T436
S018	S101	S225	S325	S417	S526	S634	S741	S854	S967	T113	T212	T287	T364	T438
S019	S107	S228	S327	S418	S527	S635	S742	S855	S968	T114	T213	T288	T365	T439
S020	S108	S229	S328	S420	S528	S636	S747	S857	S969	T115	T214	T289	T366	T440
S021	S109	S230	S330	S421	S529	S637	S748	S858	S970	T116	T215	T300	T367	T441
S022	S110	S231	S331	S422	S530	S640	S749	S859	S971	T118	T216	T301	T368	T442
S023	S111	S232	S332	S423	S531	S641	S750	S860	S978	T119	T217	T302	T369	T443
S024	S112	S233	S333	S424	S532	S642	S751	S861	S980	T12	T220	T303	T370	T444
S025	S117	S234	S334	S427	S533	S643	S752	S862	S981	T130	T221	T304	T371	T445
S026	S118	S235	S335	S428	S534	S644	S757	S863	S982	T131	T222	T305	T372	T446
S027	S119	S240	S336	S429	S540	S647	S758	S867	S983	T132	T223	T306	T373	T447
S028	S120	S241	S337	S430	S541	S648	S759	S868	S984	T133	T224	T307	T374	T448
S029	S121	S242	S340	S431	S542	S649	S760	S869	S997	T134	T225	T310	T375	T449
S030	S122	S243	S341	S432	S543	S650	S761	S870	S998	T135	T226	T311	T378	T450
S031	S127	S244	S342	S433	S547	S651	S762	S878	S999	T136	T227	T312	T379	T451
S032	S128	S245	S343	S434	S548	S652	S763	S880	T002	T138	T230	T313	T380	T452
S033	S129	S246	S344	S435	S549	S653	S764	S881	T003	T139	T231	T314	T381	T453
S034	S130	S250	S345	S436	S550	S654	S767	S889	T008	T140	T232	T315	T382	T454
S035	S131	S251	S346	S437	S551	S655	S770	S897	T009	T141	T233	T316	T383	T455
S040	S132	S252	S348	S440	S552	S657	S771	S898	T012	T142	T234	T317	T384	T456
S041	S133	S253	S350	S441	S557	S658	S772	S899	T013	T143	T235	T318	T385	T457
S042	S134	S254	S351	S442	S558	S659	S780	S900	T019	T144	T236	T319	T386	T458
S043	S135	S255	S352	S443	S559	S660	S781	S901	T021	T145	T237	T320	T387	T459
S044	S136	S257	S353	S444	S560	S661	S789	S902	T022	T146	T240	T321	T388	T460
S045	S140	S258	S354	S445	S561	S662	S797	S903	T023	T147	T241	T322	T389	T461
S046	S141	S259	S355	S447	S562	S663	S798	S907	T024	T148	T242	T323	T390	T462
S047	S142	S260	S357	S448	S563	S664	S799	S908	T025	T149	T243	T324	T391	T463
S048	S143	S268	S358	S449	S564	S665	S800	S909	T028	T150	T244	T325	T392	T464
S049	S144	S269	S359	S450	S565	S666	S801	S910	T029	T151	T245	T326	T393	T465
S050	S145	S270	S360	S451	S567	S667	S807	S911	T031	T158	T246	T327	T394	T466
S051	S146	S271	S361	S452	S568	S668	S808	S912	T032	T159	T247	T328	T398	T467
S052	S150	S272	S362	S453	S570	S669	S809	S913	T033	T16	T250	T329	T399	T468
S053	S151	S273	S363	S457	S578	S670	S810	S917	T038	T170	T251	T330	T400	T469
S054	S152	S274	S364	S458	S579	S678	S817	S920	T039	T171	T252	T331	T401	T470
S055	S153	S275	S365	S459	S580	S680	S818	S921	T041	T172	T253	T332	T402	T471
S056	S157	S276	S366	S460	S581	S681	S819	S922	T042	T173	T254	T333	T403	T472
S057	S158	S277	S367	S461	S589	S682	S820	S923	T043	T174	T255	T334	T404	T473
S058	S159	S278	S368	S462	S597	S683	S821	S924	T048	T175	T256	T335	T405	T474
S059	S16	S279	S369	S463	S598	S684	S822	S925	T049	T178	T257	T336	T406	T475
S060	S170	S280	S370	S467	S599	S688	S823	S927	T050	T179	T260	T337	T407	T476
S061	S178	S281	S371	S468	S600	S689	S824	S929	T052	T180	T261	T338	T408	T477
S062	S179	S290	S372	S469	S601	S697	S825	S930	T053	T181	T262	T339	T409	T478
S063	S18	S297	S373	S47	S602	S698	S826	S931	T055	T182	T263	T340	T410	T479
S064	S197	S298	S374	S480	S607	S699	S827	S932	T058	T183	T264	T341	T411	T480
S065	S198	S299	S375	S481	S608	S700	S828	S933	T059	T184	T265	T342	T412	T481
S066	S199	S300	S376	S489	S609	S701	S829	S934	T062	T185	T266	T343	T413	T482
S067	S200	S301	S377	S497	S610	S707	S830	S935	T063	T188	T267	T344	T414	T483
S068	S201	S302	S378	S498	S611	S708	S831	S936	T064	T189	T268	T345	T415	T484

Table D. ICD-10 Nature-of-Injury Codes Valid for Multiple Cause Classification Only (from Chapter XIX, Injury, poisoning and certain other consequences of external causes) - Continued

T485	T572	T690	T817	T887
T486	T573	T691	T818	T888
T487	T578	T698	T819	T889
T490	T579	T699	T820	T900
T491	T58	T700	T821	T901
T492	T590	T701	T822	T902
T493	T591	T702	T823	T903
T494	T592	T703	T824	T904
T495	T593	T704	T825	T905
T496	T594	T708	T826	T908
T497	T595	T709	T827	T909
T498	T596	T71	T828	T910
T499	T597	T730	T829	T911
T500	T598	T731	T830	T912
T501	T599	T732	T831	T913
T502	T600	T733	T832	T914
T503	T601	T738	T833	T915
T504	T602	T739	T834	T918
T505	T603	T740	T835	T919
T506	T604	T741	T836	T920
T507	T608	T742	T838	T921
T508	T609	T743	T839	T922
T509	T610	T748	T840	T923
T510	T611	T749	T841	T924
T511	T612	T750	T842	T925
T512	T618	T751	T843	T926
T513	T619	T752	T844	T928
T518	T620	T753	T845	T929
T519	T621	T754	T846	T930
T520	T622	T758	T847	T931
T521	T628	T780	T848	T932
T522	T629	T781	T849	T933
T523	T630	T782	T850	T934
T524	T631	T783	T851	T935
T528	T632	T784	T852	T936
T529	T633	T788	T853	T938
T530	T634	T789	T854	T939
T531	T635	T790	T855	T940
T532	T636	T791	T856	T941
T533	T638	T792	T857	T950
T534	T639	T793	T858	T951
T535	T64	T794	T859	T952
T536	T650	T795	T860	T953
T537	T651	T796	T861	T954
T539	T652	T797	T862	T958
T540	T653	T798	T863	T959
T541	T654	T799	T864	T96
T542	T655	T800	T868	T97
T543	T656	T801	T869	T980
T549	T658	T802	T870	T981
T55	T659	T803	T871	T982
T560	T66	T804	T872	T983
T561	T670	T805	T873	
T562	T671	T806	T874	
T563	T672	T808	T875	
T564	T673	T809	T876	
T565	T674	T810	T880	
T566	T675	T811	T881	
T567	T676	T812	T882	
T568	T677	T813	T883	
T569	T678	T814	T884	
T570	T679	T815	T885	
T571	T68	T816	T886	

Table E. ICD-10 Codes Valid for Multiple Cause Classification Only (from Chapters I-XVIII and XX)

E890	O086
E891	O087
E892	O088
E893	O089
E894	
E895	
E896	
E898	
E899	
G970	
G971	
G972	
G978	
G979	
H590	
H598	
H599	
H950	
H951	
H958	
H959	
I970	
I971	
I972	
I978	
I979	
J950	
J951	
J952	
J953	
J954	
J955	
J958	
J959	
K910	
K911	
K912	
K913	
K914	
K915	
K918	
K919	
M960	
M961	
M962	
M963	
M964	
M965	
M966	
M968	
M969	
N990	
N991	
N992	
N993	
N994	
N995	
N998	
N999	
O080	
O081	
O082	
O083	
O084	
O085	

Table F. Created Codes and their Complementary Valid ICD-10 Codes

Created code	Valid ICD-10 code
A1690	A169
E0390	E039
G1220	G122
G2000	G20
I2190	I219
I4200	I420
I4210	I421
I4220	I422
I4250	I425
I4280	I428
I4290	I429
I5000	I500
I5140	I514
I5150	I515
I6000	I600
I6060	I606
I6070	I607
I6080	I608
I6090	I609
I6100	I610
I6110	I611
I6120	I612
I6130	I613
I6140	I614
I6150	I615
I6180	I618
I6190	I619
I6300	I630
I6310	I631
I6320	I632
I6330	I633
I6340	I634
I6350	I635
I6360	I636
I6380	I638
I6390	I639
I6400	I64
I6910	I691
I6930	I693
I6940	I694
J1010	J101
J1110	J111
J8490	J849
J9840	J984
K3190	K319
K5500	K550
K6310	K631
K7200	K720
K7210	K721
K7290	K729
M1990	M199
Q2780	Q278
Q2820	Q282
Q2830	Q283
R5800	R58
R97	R99

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable					
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>
A32	Under 28 days	1	No	2	3
A33	1 year and over	1	No	2	2
A34	Under 10 years or 55 years and over	0	Male	1	14
A35	Under 28 days	1	No	2	3
A40	Under 28 days	1	No	2	3
A41	Under 28 days	1	No	2	3
A50.3	Under 2 years	0	No	2	5
A50.4	Under 2 years	0	No	2	5
A50.5	Under 2 years	0	No	2	5
A50.6	Under 2 years	0	No	2	5
A50.7	Under 2 years	0	No	2	5
A52	Under 2 years	0	No	2	5
A53.9	Under 2 years	0	No	2	5
A56	Under 28 days	1	No	2	3
A74	Under 28 days	1	No	2	3
B26.0	No	2	Female	1	10
B30	Under 28 days	1	No	2	3
B37.0	Under 28 days	1	No	2	3
B37.1	Under 28 days	1	No	2	3
B37.2	Under 28 days	1	No	2	3
B37.3	Under 28 days	1	Male	1	13
B37.4	Under 28 days	1	No	2	3
B37.5	Under 28 days	1	No	2	3
B37.6	Under 28 days	1	No	2	3
B37.7	Under 28 days	1	No	2	3
B37.8	Under 28 days	1	No	2	3
B37.9	Under 28 days	1	No	2	3
B90	Under 1 year	1	No	2	4
B91	Under 1 year	1	No	2	4
B92	Under 1 year	1	No	2	4
B94	Under 1 year	1	No	2	4
C51	No	2	Male	1	11
C52	No	2	Male	1	11
C53	No	2	Male	1	11
C54	No	2	Male	1	11
C55	No	2	Male	1	11

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable					
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>
C56	No	2	Male	1	11
C57	No	2	Male	1	11
C58	Under 10 years or 55 years and over	0	Male	1	14
C60	No	2	Female	1	10
C61	No	2	Female	1	10
C62	No	2	Female	1	10
C63	No	2	Female	1	10
C79.6	No	2	Male	1	11
D06	No	2	Male	1	11
D07.0	No	2	Male	1	11
D07.1	No	2	Male	1	11
D07.2	No	2	Male	1	11
D07.3	No	2	Male	1	11
D07.4	No	2	Female	1	10
D07.5	No	2	Female	1	10
D07.6	No	2	Female	1	10
D17.6	No	2	Female	1	10
D25	No	2	Male	1	11
D26	No	2	Male	1	11
D27	No	2	Male	1	11
D28	No	2	Male	1	11
D29	No	2	Female	1	10
D39.0	No	2	Male	1	11
D39.1	No	2	Male	1	11
D39.2	Under 10 years or 55 years and over	0	Male	1	14
D39.7	No	2	Male	1	11
D39.9	No	2	Male	1	11
D40	No	2	Female	1	10
D65	Under 28 days	1	No	2	3
D75.1	Under 28 days	1	No	2	3
E05	Under 28 days	1	No	2	3
E10	Under 28 days	1	No	2	3
E11	Under 28 days	1	No	2	3
E12	Under 28 days	1	No	2	3
E13	Under 28 days	1	No	2	3

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

						0 - Conditional
						1 - Absolute
						2 - Not Applicable
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
E14	Under 28 days	1	No	2	3	
E16.2	Under 28 days	1	No	2	3	
E28	No	2	Male	1	11	
E29	No	2	Female	1	10	
E30	Under 5 years	1	No	2	6	
E56.1	Under 28 days	1	No	2	3	
E63	Under 28 days	1	No	2	3	
E64	Under 1 year	1	No	2	4	
E68	Under 1 year	1	No	2	4	
E83.4	Under 28 days	1	No	2	3	
E83.5	Under 28 days	1	No	2	3	
E86	Under 28 days	0	No	2	3	
F01	Under 20 years	0	No	2	7	
F03	Under 55 years	0	No	2	23	
F10	Under 1 year	1	No	2	4	
F11	Under 1 year	1	No	2	4	
F12	Under 1 year	1	No	2	4	
F13	Under 1 year	1	No	2	4	
F14	Under 1 year	1	No	2	4	
F15	Under 1 year	1	No	2	4	
F16	Under 1 year	1	No	2	4	
F17	Under 1 year	1	No	2	4	
F18	Under 1 year	1	No	2	4	
F19	Under 1 year	1	No	2	4	
F20	Under 1 year	1	No	2	4	
F21	Under 1 year	1	No	2	4	
F22	Under 1 year	1	No	2	4	
F23	Under 1 year	1	No	2	4	
F24	Under 1 year	1	No	2	4	
F25	Under 1 year	1	No	2	4	
F28	Under 1 year	1	No	2	4	
F29	Under 1 year	1	No	2	4	
F30	Under 1 year	1	No	2	4	
F31	Under 1 year	1	No	2	4	
F32	Under 1 year	1	No	2	4	
F33	Under 1 year	1	No	2	4	
F34	Under 1 year	1	No	2	4	



Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

						0 - Conditional
						1 - Absolute
						2 - Not Applicable
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
F38	Under 1 year	1	No	2	4	
F39	Under 1 year	1	No	2	4	
F40	Under 1 year	1	No	2	4	
F41	Under 1 year	1	No	2	4	
F42	Under 1 year	1	No	2	4	
F43	Under 1 year	1	No	2	4	
F44	Under 1 year	1	No	2	4	
F45	Under 1 year	1	No	2	4	
F48	Under 1 year	1	No	2	4	
F50	Under 1 year	1	No	2	4	
F51	Under 1 year	1	No	2	4	
F52.0	Under 10 years	1	No	2	20	
F52.1	Under 10 years	1	No	2	20	
F52.2	Under 10 years	1	No	2	20	
F52.3	Under 10 years	1	No	2	20	
F52.4	Under 10 years	1	Female	1	19	
F52.5	Under 10 years	1	Male	1	18	
F53	Under 10 years or 55 years and over	1	Male	1	14	
F54	Under 1 year	1	No	2	4	
F55	Under 1 year	1	No	2	4	
F59	Under 1 year	1	No	2	4	
F60	Under 1 year	1	No	2	4	
F61	Under 1 year	1	No	2	4	
F62	Under 1 year	1	No	2	4	
F63	Under 1 year	1	No	2	4	
F64	Under 1 year	1	No	2	4	
F65	Under 1 year	1	No	2	4	
F66	Under 1 year	1	No	2	4	
F68	Under 10 years	1	No	2	20	
F69	Under 10 years	1	No	2	20	
G09	Under 1 year	0	No	2	4	
G14	Under 1 year	1	No	2	4	
G30.0	Under 30 years	0	No	2	24	
G30.1	Under 65 years	0	No	2	9	
G30.8	Under 30 years	0	No	2	24	
G30.9	Under 30 years	0	No	2	24	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
G47.3	Under 28 days	1	No	2	3	
G70.0	Under 28 days	1	No	2	3	
H25	Under 10 years	1	No	2	20	
I48	Under 28 days	1	No	2	3	
I49	Under 28 days	1	No	2	3	
I50	Under 28 days	1	No	2	3	
I61	Under 28 days	1	No	2	3	
I62	Under 28 days	1	No	2	3	
I69	Under 1 year	1	No	2	4	
I86.1	No	2	Female	1	10	
I86.3	No	2	Male	1	11	
J12	Under 28 days	1	No	2	3	
J13	Under 28 days	1	No	2	3	
J14	Under 28 days	1	No	2	3	
J15	Under 28 days	1	No	2	3	
J16	Under 28 days	1	No	2	3	
J18	Under 28 days	1	No	2	3	
J43	Under 28 days	1	No	2	3	
J80	Under 28 days	1	No	2	3	
J84.9	Under 28 days	1	No	2	3	
J96	Under 28 days	1	No	2	3	
J98.1	Under 28 days	1	No	2	3	
J98.2	Under 28 days	1	No	2	3	
J98.4	Under 28 days	1	No	2	3	
J98.8	Under 28 days	1	No	2	3	
K27	Under 28 days	1	No	2	3	
K31.1	Under 1 year	1	No	2	4	
K31.3	Under 1 year	1	No	2	4	
K56.6	Under 28 days	0	No	2	3	
K63.1	Under 28 days	1	No	2	3	
K65	Under 28 days	1	No	2	3	
K70	Under 1 year	1	No	2	4	
K92	Under 28 days	1	No	2	3	
L01	Under 28 days	1	No	2	3	
L10	Under 28 days	1	No	2	3	
L29.1	No	2	Female	1	10	
L29.2	No	2	Male	1	11	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
L50	Under 28 days	1	No	2	3	
L53.0	Under 28 days	1	No	2	3	
L70.0	Under 1 year	1	No	2	4	
L70.1	Under 1 year	1	No	2	4	
L70.2	Under 1 year	1	No	2	4	
L70.3	Under 1 year	1	No	2	4	
L70.5	Under 1 year	1	Male	1	21	
L70.9	Under 1 year	1	No	2	4	
M34	Under 28 days	1	No	2	3	
M42.1	Under 10 years	1	No	2	20	
M80.0	No	2	Male	1	11	
M80.1	No	2	Male	1	11	
M81.0	No	2	Male	1	11	
M81.1	No	2	Male	1	11	
M83.0	Under 10 years or 55 years and over	1	Male	1	14	
M83.1	Under 10 years	1	No	2	20	
M83.2	Under 10 years	1	No	2	20	
M83.3	Under 10 years	1	No	2	20	
M83.4	Under 10 years	1	No	2	20	
M83.5	Under 10 years	1	No	2	20	
M83.8	Under 10 years	1	No	2	20	
M83.9	Under 10 years	1	No	2	20	
N39.0	Under 28 days	1	No	2	3	
N40	No	2	Female	1	10	
N41	No	2	Female	1	10	
N42	No	2	Female	1	10	
N43	No	2	Female	1	10	
N44	No	2	Female	1	10	
N45	No	2	Female	1	10	
N46	No	2	Female	1	10	
N47	No	2	Female	1	10	
N48	No	2	Female	1	10	
N49	No	2	Female	1	10	
N50	No	2	Female	1	10	
N61	Under 28 days	1	No	2	3	
N70	No	2	Male	1	11	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

						0 - Conditional
						1 - Absolute
						2 - Not Applicable
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
N71	No	2	Male	1	11	
N72	No	2	Male	1	11	
N73	No	2	Male	1	11	
N75	No	2	Male	1	11	
N76	No	2	Male	1	11	
N80	No	2	Male	1	11	
N81	No	2	Male	1	11	
N82	No	2	Male	1	11	
N83	No	2	Male	1	11	
N84	No	2	Male	1	11	
N85	No	2	Male	1	11	
N86	No	2	Male	1	11	
N87	No	2	Male	1	11	
N88	No	2	Male	1	11	
N89	No	2	Male	1	11	
N90	No	2	Male	1	11	
N91	Under 10 years	1	Male	1	18	
N91	55 years and over	0	Male	1	26	
N92	Under 10 years or 55 years and over	0	Male	1	14	
N93	No	2	Male	1	11	
N94	Under 10 years or 55 years and over	0	Male	1	14	
N95	Under 10 years	1	Male	1	18	
N95	55 years and over	0	Male	1	26	
N96	Under 10 years	1	Male	1	18	
N96	55 years and over	0	Male	1	26	
N97	Under 10 years	1	Male	1	18	
N97	55 years and over	0	Male	1	26	
N98	Under 10 years	1	Male	1	18	
N98	55 years and over	0	Male	1	26	
O00	Under 10 years	1	Male	1	18	
O00	55 years and over	0	Male	1	26	
O01	Under 10 years	1	Male	1	18	
O01	55 years and over	0	Male	1	26	
O02	Under 10 years	1	Male	1	18	
O02	55 years and over	0	Male	1	26	
O03	Under 10 years	1	Male	1	18	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
O03	55 years and over	0	Male	1	26	
O04	Under 10 years	1	Male	1	18	
O04	55 years and over	0	Male	1	26	
O05	Under 10 years	1	Male	1	18	
O05	55 years and over	0	Male	1	26	
O06	Under 10 years	1	Male	1	18	
O06	55 years and over	0	Male	1	26	
O07	Under 10 years	1	Male	1	18	
O07	55 years and over	0	Male	1	26	
O10	Under 10 years	1	Male	1	18	
O10	55 years and over	0	Male	1	26	
O11	Under 10 years	1	Male	1	18	
O11	55 years and over	0	Male	1	26	
O12	Under 10 years	1	Male	1	18	
O12	55 years and over	0	Male	1	26	
O13	Under 10 years	1	Male	1	18	
O13	55 years and over	0	Male	1	26	
O14	Under 10 years	1	Male	1	18	
O14	55 years and over	0	Male	1	26	
O15	Under 10 years	1	Male	1	18	
O15	55 years and over	0	Male	1	26	
O16	Under 10 years	1	Male	1	18	
O16	55 years and over	0	Male	1	26	
O20	Under 10 years	1	Male	1	18	
O20	55 years and over	0	Male	1	26	
O21	Under 10 years	1	Male	1	18	
O21	55 years and over	0	Male	1	26	
O22	Under 10 years	1	Male	1	18	
O22	55 years and over	0	Male	1	26	
O23	Under 10 years	1	Male	1	18	
O23	55 years and over	0	Male	1	26	
O24	Under 10 years	1	Male	1	18	
O24	55 years and over	0	Male	1	26	
O25	Under 10 years	1	Male	1	18	
O25	55 years and over	0	Male	1	26	
O26	Under 10 years	1	Male	1	18	
O26	55 years and over	0	Male	1	26	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
O28	Under 10 years	1	Male	1	18	
O28	55 years and over	0	Male	1	26	
O29	Under 10 years	1	Male	1	18	
O29	55 years and over	0	Male	1	26	
O30	Under 10 years	1	Male	1	18	
O30	55 years and over	0	Male	1	26	
O31	Under 10 years	1	Male	1	18	
O31	55 years and over	0	Male	1	26	
O32	Under 10 years	1	Male	1	18	
O32	55 years and over	0	Male	1	26	
O33	Under 10 years	1	Male	1	18	
O33	55 years and over	0	Male	1	26	
O34	Under 10 years	1	Male	1	18	
O34	55 years and over	0	Male	1	26	
O35	Under 10 years	1	Male	1	18	
O35	55 years and over	0	Male	1	26	
O36	Under 10 years	1	Male	1	18	
O36	55 years and over	0	Male	1	26	
O40	Under 10 years	1	Male	1	18	
O40	55 years and over	0	Male	1	26	
O41	Under 10 years	1	Male	1	18	
O41	55 years and over	0	Male	1	26	
O42	Under 10 years	1	Male	1	18	
O42	55 years and over	0	Male	1	26	
O43	Under 10 years	1	Male	1	18	
O43	55 years and over	0	Male	1	26	
O44	Under 10 years	1	Male	1	18	
O44	55 years and over	0	Male	1	26	
O45	Under 10 years	1	Male	1	18	
O45	55 years and over	0	Male	1	26	
O46	Under 10 years	1	Male	1	18	
O46	55 years and over	0	Male	1	26	
O47	Under 10 years	1	Male	1	18	
O47	55 years and over	0	Male	1	26	
O48	Under 10 years	1	Male	1	18	
O48	55 years and over	0	Male	1	26	
O60	Under 10 years	1	Male	1	18	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
O60	55 years and over	0	Male	1	26	
O61	Under 10 years	1	Male	1	18	
O61	55 years and over	0	Male	1	26	
O62	Under 10 years	1	Male	1	18	
O62	55 years and over	0	Male	1	26	
O63	Under 10 years	1	Male	1	18	
O63	55 years and over	0	Male	1	26	
O64	Under 10 years	1	Male	1	18	
O64	55 years and over	0	Male	1	26	
O65	Under 10 years	1	Male	1	18	
O65	55 years and over	0	Male	1	26	
O66	Under 10 years	1	Male	1	18	
O66	55 years and over	0	Male	1	26	
O67	Under 10 years	1	Male	1	18	
O67	55 years and over	0	Male	1	26	
O68	Under 10 years	1	Male	1	18	
O68	55 years and over	0	Male	1	26	
O69	Under 10 years	1	Male	1	18	
O69	55 years and over	0	Male	1	26	
O70	Under 10 years	1	Male	1	18	
O70	55 years and over	0	Male	1	26	
O71	Under 10 years	1	Male	1	18	
O71	55 years and over	0	Male	1	26	
O72	Under 10 years	1	Male	1	18	
O72	55 years and over	0	Male	1	26	
O73	Under 10 years	1	Male	1	18	
O73	55 years and over	0	Male	1	26	
O74	Under 10 years	1	Male	1	18	
O74	55 years and over	0	Male	1	26	
O75	Under 10 years	1	Male	1	18	
O75	55 years and over	0	Male	1	26	
O85	Under 10 years	1	Male	1	18	
O85	55 years and over	0	Male	1	26	
O86	Under 10 years	1	Male	1	18	
O86	55 years and over	0	Male	1	26	
O87	Under 10 years	1	Male	1	18	
O87	55 years and over	0	Male	1	26	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

						0 - Conditional
						1 - Absolute
						2 - Not Applicable
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
O88	Under 10 years	1	Male	1	18	
O88	55 years and over	0	Male	1	26	
O89	Under 10 years	1	Male	1	18	
O89	55 years and over	0	Male	1	26	
O90	Under 10 years	1	Male	1	18	
O90	55 years and over	0	Male	1	26	
O91	Under 10 years	1	Male	1	18	
O91	55 years and over	0	Male	1	26	
O92	Under 10 years	1	Male	1	18	
O92	55 years and over	0	Male	1	26	
O95	Under 10 years	1	Male	1	18	
O95	55 years and over	0	Male	1	26	
O96	Under 10 years	1	Male	1	18	
O96	55 years and over	0	Male	1	26	
O97	Under 10 years	1	Male	1	18	
O97	55 years and over	0	Male	1	26	
O98	Under 10 years	1	Male	1	18	
O98	55 years and over	0	Male	1	26	
O99	Under 10 years	1	Male	1	18	
O99	55 years and over	0	Male	1	26	
P00	1 year and over	0	No	2	2	
P01	1 year and over	0	No	2	2	
P02	1 year and over	0	No	2	2	
P03	1 year and over	0	No	2	2	
P04	1 year and over	0	No	2	2	
P05	1 year and over	0	No	2	2	
P07	15 years and over	0	No	2	27	
P08	1 year and over	0	No	2	2	
P10	1 year and over	0	No	2	2	
P11	1 year and over	0	No	2	2	
P12	1 year and over	0	No	2	2	
P13	1 year and over	0	No	2	2	
P14	1 year and over	0	No	2	2	
P15	1 year and over	0	No	2	2	
P20	1 year and over	0	No	2	2	
P21	1 year and over	0	No	2	2	
P22	1 year and over	0	No	2	2	



Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

		0 - Conditional 1 - Absolute 2 - Not Applicable			
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>
P23	1 year and over	0	No	2	2
P24	1 year and over	0	No	2	2
P25	1 year and over	0	No	2	2
P26	1 year and over	0	No	2	2
P27	1 year and over	0	No	2	2
P28	1 year and over	0	No	2	2
P29	1 year and over	0	No	2	2
P35	1 year and over	0	No	2	2
P36	1 year and over	0	No	2	2
P37	1 year and over	0	No	2	2
P38	1 year and over	0	No	2	2
P39	1 year and over	0	No	2	2
P50	1 year and over	0	No	2	2
P51	1 year and over	0	No	2	2
P52	1 year and over	0	No	2	2
P53	1 year and over	0	No	2	2
P54.0	1 year and over	0	No	2	2
P54.1	1 year and over	0	No	2	2
P54.2	1 year and over	0	No	2	2
P54.3	1 year and over	0	No	2	2
P54.4	1 year and over	0	No	2	2
P54.5	1 year and over	0	No	2	2
P54.6	1 year and over	0	Male	1	22
P54.8	1 year and over	0	No	2	2
P54.9	1 year and over	0	No	2	2
P55	1 year and over	0	No	2	2
P56	1 year and over	0	No	2	2
P57	1 year and over	0	No	2	2
P58	1 year and over	0	No	2	2
P59	1 year and over	0	No	2	2
P60	1 year and over	0	No	2	2
P61	1 year and over	0	No	2	2
P70	1 year and over	0	No	2	2
P71	1 year and over	0	No	2	2
P72	1 year and over	0	No	2	2
P74	1 year and over	0	No	2	2
P76	1 year and over	0	No	2	2

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable					
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>
P77	1 year and over	0	No	2	2
P78	1 year and over	0	No	2	2
P80	1 year and over	0	No	2	2
P81	1 year and over	0	No	2	2
P83	1 year and over	0	No	2	2
P90	1 year and over	0	No	2	2
P91	1 year and over	0	No	2	2
P92	1 year and over	0	No	2	2
P93	1 year and over	0	No	2	2
P94	1 year and over	0	No	2	2
P96	1 year and over	0	No	2	2
Q50	No	2	Male	1	11
Q51	No	2	Male	1	11
Q52	No	2	Male	1	11
Q53	No	2	Female	1	10
Q54	No	2	Female	1	10
Q55	No	2	Female	1	10
<del>Q96</del>	<del>No</del>	<del>2</del>	<del>Male</del>	<del>1</del>	<del>11</del>
<b>Q96.0</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
<b>Q96.1</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
<b>Q96.2</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
<b>Q96.4</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
<b>Q96.8</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
<b>Q96.9</b>	<b>No</b>	<b>2</b>	<b>Male</b>	<b>1</b>	<b>11</b>
Q97	No	2	Male	1	11
Q98	No	2	Female	1	10
R00	Under 28 days	1	No	2	3
R01	Under 28 days	1	No	2	3
R04.8	Under 28 days	1	No	2	3
R06.8	Under 28 days	0	No	2	3
R09.0	Under 28 days	1	No	2	3
R09.2	Under 28 days	1	No	2	3
R11	Under 28 days	1	No	2	3
R17	Under 28 days	1	No	2	3
R23.0	Under 28 days	1	No	2	3
R23.3	Under 28 days	1	No	2	3
R29.0	Under 28 days	1	No	2	3

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
R40	Under 28 days	1	No	2	3	
R50	Under 28 days	1	No	2	3	
R53	Under 28 days	1	No	2	3	
R54	Under 65 years	0	No	2	9	
R54	Under 30 years	1	No	2	24	
R56	Under 28 days	1	No	2	3	
R58	Under 28 days	1	No	2	3	
R60	Under 28 days	1	No	2	3	
R63.3	Under 28 days	1	No	2	3	
R68.0	Under 28 days	1	No	2	3	
R68.1	Under 28 days	1	No	2	3	
R73	Under 28 days	0	No	2	3	
R86	No	2	Female	1	10	
R87	No	2	Male	1	11	
R95	1 year and over	1	No	2	2	
R96.0	Under 1 year	1	No	2	4	
R96.1	Under 1 year	0	No	2	4	
*U03	Under 5 years	1	No	2	6	
V10.0	Under 10 years	0	No	2	20	
V10.4	Under 10 years	0	No	2	20	
V11.0	Under 10 years	0	No	2	20	
V11.4	Under 10 years	0	No	2	20	
V12.0	Under 10 years	0	No	2	20	
V12.4	Under 10 years	0	No	2	20	
V13.0	Under 10 years	0	No	2	20	
V13.4	Under 10 years	0	No	2	20	
V14.0	Under 10 years	0	No	2	20	
V14.4	Under 10 years	0	No	2	20	
V15.0	Under 10 years	0	No	2	20	
V15.4	Under 10 years	0	No	2	20	
V16.0	Under 10 years	0	No	2	20	
V16.4	Under 10 years	0	No	2	20	
V17.0	Under 10 years	0	No	2	20	
V17.4	Under 10 years	0	No	2	20	
V18.0	Under 10 years	0	No	2	20	
V18.4	Under 10 years	0	No	2	20	
V19.0	Under 10 years	0	No	2	20	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
V19.4	Under 10 years	0	No	2	20	
V20.0	Under 10 years	0	No	2	20	
V20.4	Under 10 years	0	No	2	20	
V21.0	Under 10 years	0	No	2	20	
V21.4	Under 10 years	0	No	2	20	
V22.0	Under 10 years	0	No	2	20	
V22.4	Under 10 years	0	No	2	20	
V23.0	Under 10 years	0	No	2	20	
V23.4	Under 10 years	0	No	2	20	
V24.0	Under 10 years	0	No	2	20	
V24.4	Under 10 years	0	No	2	20	
V25.0	Under 10 years	0	No	2	20	
V25.4	Under 10 years	0	No	2	20	
V26.0	Under 10 years	0	No	2	20	
V26.4	Under 10 years	0	No	2	20	
V27.0	Under 10 years	0	No	2	20	
V27.4	Under 10 years	0	No	2	20	
V28.0	Under 10 years	0	No	2	20	
V28.4	Under 10 years	0	No	2	20	
V29.0	Under 10 years	0	No	2	20	
V29.4	Under 10 years	0	No	2	20	
V30.0	Under 10 years	0	No	2	20	
V31.0	Under 10 years	0	No	2	20	
V31.5	Under 10 years	0	No	2	20	
V32.0	Under 10 years	0	No	2	20	
V32.5	Under 10 years	0	No	2	20	
V33.0	Under 10 years	0	No	2	20	
V30.5	Under 10 years	0	No	2	20	
V33.5	Under 10 years	0	No	2	20	
V34.0	Under 10 years	0	No	2	20	
V34.5	Under 10 years	0	No	2	20	
V35.0	Under 10 years	0	No	2	20	
V35.5	Under 10 years	0	No	2	20	
V36.0	Under 10 years	0	No	2	20	
V36.5	Under 10 years	0	No	2	20	
V37.0	Under 10 years	0	No	2	20	
V37.5	Under 10 years	0	No	2	20	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
V38.0	Under 10 years	0	No	2	20	
V38.5	Under 10 years	0	No	2	20	
V39.0	Under 10 years	0	No	2	20	
V39.4	Under 10 years	0	No	2	20	
V40.0	Under 10 years	0	No	2	20	
V40.5	Under 10 years	0	No	2	20	
V41.0	Under 10 years	0	No	2	20	
V41.5	Under 10 years	0	No	2	20	
V42.0	Under 10 years	0	No	2	20	
V42.5	Under 10 years	0	No	2	20	
V43.0	Under 10 years	0	No	2	20	
V43.5	Under 10 years	0	No	2	20	
V44.0	Under 10 years	0	No	2	20	
V44.5	Under 10 years	0	No	2	20	
V45.0	Under 10 years	0	No	2	20	
V45.5	Under 10 years	0	No	2	20	
V46.0	Under 10 years	0	No	2	20	
V46.5	Under 10 years	0	No	2	20	
V47.0	Under 10 years	0	No	2	20	
V47.5	Under 10 years	0	No	2	20	
V48.0	Under 10 years	0	No	2	20	
V48.5	Under 10 years	0	No	2	20	
V49.0	Under 10 years	0	No	2	20	
V49.4	Under 10 years	0	No	2	20	
V50.0	Under 10 years	0	No	2	20	
V50.5	Under 10 years	0	No	2	20	
V51.0	Under 10 years	0	No	2	20	
V51.5	Under 10 years	0	No	2	20	
V52.0	Under 10 years	0	No	2	20	
V52.5	Under 10 years	0	No	2	20	
V53.0	Under 10 years	0	No	2	20	
V53.5	Under 10 years	0	No	2	20	
V54.0	Under 10 years	0	No	2	20	
V54.5	Under 10 years	0	No	2	20	
V55.0	Under 10 years	0	No	2	20	
V55.5	Under 10 years	0	No	2	20	
V56.0	Under 10 years	0	No	2	20	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
V56.5	Under 10 years	0	No	2	20	
V57.0	Under 10 years	0	No	2	20	
V57.5	Under 10 years	0	No	2	20	
V58.0	Under 10 years	0	No	2	20	
V58.5	Under 10 years	0	No	2	20	
V59.0	Under 10 years	0	No	2	20	
V59.4	Under 10 years	0	No	2	20	
V60.0	Under 10 years	0	No	2	20	
V60.5	Under 10 years	0	No	2	20	
V61.0	Under 10 years	0	No	2	20	
V61.5	Under 10 years	0	No	2	20	
V62.0	Under 10 years	0	No	2	20	
V62.5	Under 10 years	0	No	2	20	
V63.0	Under 10 years	0	No	2	20	
V63.5	Under 10 years	0	No	2	20	
V64.0	Under 10 years	0	No	2	20	
V64.5	Under 10 years	0	No	2	20	
V65.0	Under 10 years	0	No	2	20	
V65.5	Under 10 years	0	No	2	20	
V66.0	Under 10 years	0	No	2	20	
V66.5	Under 10 years	0	No	2	20	
V67.0	Under 10 years	0	No	2	20	
V67.5	Under 10 years	0	No	2	20	
V68.0	Under 10 years	0	No	2	20	
V68.5	Under 10 years	0	No	2	20	
V69.0	Under 10 years	0	No	2	20	
V69.4	Under 10 years	0	No	2	20	
V70.0	Under 10 years	0	No	2	20	
V70.5	Under 10 years	0	No	2	20	
V71.0	Under 10 years	0	No	2	20	
V71.5	Under 10 years	0	No	2	20	
V72.0	Under 10 years	0	No	2	20	
V72.5	Under 10 years	0	No	2	20	
V73.0	Under 10 years	0	No	2	20	
V73.5	Under 10 years	0	No	2	20	
V74.0	Under 10 years	0	No	2	20	
V74.5	Under 10 years	0	No	2	20	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
V75.0	Under 10 years	0	No	2	20	
V75.5	Under 10 years	0	No	2	20	
V76.0	Under 10 years	0	No	2	20	
V76.5	Under 10 years	0	No	2	20	
V77.0	Under 10 years	0	No	2	20	
V77.5	Under 10 years	0	No	2	20	
V78.0	Under 10 years	0	No	2	20	
V78.5	Under 10 years	0	No	2	20	
V79.0	Under 10 years	0	No	2	20	
V79.4	Under 10 years	0	No	2	20	
V83.0	Under 10 years	0	No	2	20	
V83.5	Under 10 years	0	No	2	20	
V84.0	Under 10 years	0	No	2	20	
V84.5	Under 10 years	0	No	2	20	
V85.0	Under 10 years	0	No	2	20	
V85.5	Under 10 years	0	No	2	20	
V86.0	Under 10 years	0	No	2	20	
V86.5	Under 10 years	0	No	2	20	
X60	Under 5 years	1	No	2	6	
X61	Under 5 years	1	No	2	6	
X62	Under 5 years	1	No	2	6	
X63	Under 5 years	1	No	2	6	
X64	Under 5 years	1	No	2	6	
X65	Under 5 years	1	No	2	6	
X66	Under 5 years	1	No	2	6	
X67	Under 5 years	1	No	2	6	
X68	Under 5 years	1	No	2	6	
X69	Under 5 years	1	No	2	6	
X70	Under 5 years	1	No	2	6	
X71	Under 5 years	1	No	2	6	
X72	Under 5 years	1	No	2	6	
X73	Under 5 years	1	No	2	6	
X74	Under 5 years	1	No	2	6	
X75	Under 5 years	1	No	2	6	
X76	Under 5 years	1	No	2	6	
X77	Under 5 years	1	No	2	6	
X78	Under 5 years	1	No	2	6	

Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification

0 - Conditional 1 - Absolute 2 - Not Applicable						
ICD-10 code	Age exclusion	Age	Sex exclusion	Sex	Edit code <sup>1</sup>	
X79	Under 5 years	1	No	2	6	
X80	Under 5 years	1	No	2	6	
X81	Under 5 years	1	No	2	6	
X82	Under 5 years	1	No	2	6	
X83	Under 5 years	1	No	2	6	
X84	Under 5 years	1	No	2	6	
Y06.0	Under 10 years	1	No	2	20	
Y06.1	18 years and over	0	No	2	17	
Y07.0	Under 10 years	1	No	2	20	
Y07.1	18 years and over	0	No	2	17	
Y36	Under 10 years	0	No	2	20	
Y42.4	Under 10 years or 55 years and over	1	Male	1	14	
Y42.5	No	2	Male	0	11	
Y59.0	20 years and over	0	No	2	25	
Y76	No	2	Male	1	11	
Y85	Under 1 year	1	No	2	4	
Y86	Under 1 year	1	No	2	4	
Y87.0	Under 5 years	1	No	2	6	
Y87.1	Under 1 year	1	No	2	4	
Y87.2	Under 1 year	1	No	2	4	
Y88	Under 1 year	1	No	2	4	
Y89	Under 1 year	1	No	2	4	



Table G. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Both Underlying and Multiple Cause-of-Death Classification – list of edit codes

<sup>1</sup> Edit codes may be useful for programming the age/sex limitations as follows:

<u>Edit code</u>	<u>Limited to</u>	<u>Edit code</u>	<u>Limited to</u>
02	Under 1 year	17	Under 18 years
03	28 days and over	18	Female, 10 years and over
04	1 year and over	19	Male, 10 years and over
05	2 years and over	20	10 years and over
06	5 years and over	21	Female, 1 year and over
07	20 years and over	22	Female, under 1 year
09	65 years and over	23	55 years and over
10	Male	24	30 years and over
11	Female	25	Under 20 years
13	Female, 28 days and over	26	Female under 55 years
14	Female, 10-54 years	27	Under 15 years

Note: Edit codes 01, 08, 12, 15, and 16 are not used for table G.

Table H. Age/Cause and Sex/Cause Consistency Edits for ICD-10 Codes Valid for Multiple Cause-of-Death Classification Only

0 - Conditional 1 - Absolute 2 - Not Applicable				
ICD-10 code	Age/sex limitation	Age	Sex	Edit code <sup>1</sup>
E89.4	Female	2	1	11
E89.5	Male	2	1	10
N99.2	Female	2	1	11
N99.3	Female	2	1	11
O08	Female, 10-54	1	1	14
S31.2	Male	2	1	10
S31.3	Male	2	1	10
S31.4	Female	2	1	11
S37.4	Female	2	1	11
S37.5	Female	2	1	11
S37.6	Female	2	1	11
T38.4	Female	2	0	11
T38.5	Female	2	0	11
T70.3	12 years and over	0	2	16
T83.3	Female	2	1	11

<sup>1</sup> Edit codes may be useful for programming the age/sex limitations as follows:

<u>Edit code</u>	<u>Limited to</u>
10	Male
11	Female
14	Female, 10-54 years
16	12 years and over

Note: Edit codes 01-09, 12-13, 15, and 17-22 are not used for table H.

**Table I. Age and Cause Consistency Edits for “Manner of Death” Variable**

<b>“Manner of Death” value</b>	<b>Age limitation</b>	<b>ICD-10 code(s) limitation</b>	<b>Edit failure corrected by</b>
2 (suicide)	5 years and over	None at this moment	Set value to blank

Note: For queries of infrequent or rare causes of death, exclude any records with mention of Human immunodeficiency infection in combination with any of the conditions listed in table J.

Table J. Infrequent and Rare Cause-of-Death Edits for Underlying and Multiple Cause-of-Death Classification

<u>ICD-10 code</u>	<u>Cause</u>
A00	Cholera
A01	Typhoid and paratyphoid fevers
A05.1	Botulism (including infant and wound botulism)
A07.0-.2,.8-.9	Other protozoal intestinal diseases (excluding coccidiosis)
<b>A08.0</b>	<b>Rotaviral enteritis (edit exercised only if occurring to children under 5 years old)</b>
A20	Plague
A21	Tularemia
A22	Anthrax
A23	Brucellosis
A24.0	Glanders
A24.1-.4	Melioidosis
A25	Rat-bite fevers
A27	Leptospirosis
A30	Leprosy [Hansen's disease]
A33	Tetanus neonatorum
A34	Obstetrical tetanus
A35	Other tetanus (Tetanus)
A36	Diphtheria
A37	Whooping cough
A44	Bartonellosis
A49.1	Streptococcal infection, unspecified (edit exercised only when coding for <i>Streptococcus pneumoniae</i> infection occurring to children under 5 years old)
A65	Nonvenereal syphilis
A66	Yaws
A67	Pinta [carate]
A68	Relapsing fever
A69	Other spirochetal infection
A70	Chlamydia psittaci infection (ornithosis)
A75.0	Epidemic louse-borne typhus fever due to <i>Rickettsia prowazekii</i>
A75.1-.9	Other typhus fever
A77.1	Spotted fever due to <i>Rickettsia conorii</i> (Boutonneuse fever)
A77.2	Spotted fever due to <i>Rickettsia siberica</i> (North Asian tick fever)
A77.3	Spotted fever due to <i>Rickettsia australis</i> (Queensland tick typhus)
A77.8	Other spotted fevers (Other tick-borne rickettsioses)
A77.9	Spotted fever, unspecified (unspecified tick-borne rickettsioses)
A78	Q fever
A79	Other rickettsioses
A80	Acute poliomyelitis
A81	Atypical virus infections of central nervous system
A82	Rabies
A84	Tick-borne viral encephalitis
A85.2	Arthropod-borne viral encephalitis, unspecified (Viral encephalitis transmitted by other and unspecified arthropods)

Table J. Infrequent and Rare Cause-of-Death Edits for Underlying and Multiple Cause-of-Death Classification

<u>ICD-10 code</u>	<u>Cause</u>
A90	Dengue fever [classical dengue]
A91	Dengue hemorrhagic fever
A92	Other mosquito-borne viral fevers
A93	Other arthropod-borne viral fevers, not elsewhere classified (including Oropouche fever, sandfly fever, Colorado tick fever and other specified fevers)
A94	Unspecified arthropod-borne viral fever
A95	Yellow fever
A96	Arenaviral hemorrhagic fever
A98-A99	Other and unspecified viral hemorrhagic fevers (including Crimean-Congo, Omsk, Kyasanur Forest, Ebola virus, Hanta virus)
B01	Varicella [chickenpox]
B03	Smallpox
B04	Monkeypox
B05	Measles
B06	Rubella [German measles]
B08.0	Other orthopoxvirus infections (including cowpox and paravaccinia)
B15	Acute hepatitis A (when occurring to children under 20 years old)
B16	Acute hepatitis B (when occurring to children under 20 years old)
B26	Mumps
B33.0	Epidemic myalgia (epidemic pleurodynia)
B33.4	Hantavirus (cardio-)pulmonary syndrome [HPS] [HCPS]
B50-B54	Malaria
B55	Leishmaniasis
B56	African trypanosomiasis
B57	Chagas' disease (including American trypanosomiasis)
B60.2	Naegleriasis
B65	Schistosomiasis [bilharziasis]
B66	Other fluke infections (including other trematode infections)
B67	Echinococcosis
B68	Teniasis
B69	Cysticercosis
B70	Diphyllobothriasis and sparganosis
B71	Other cestode infections
B72	Dracunculiasis (Dracontiasis)
B73	Onchocerciasis
B74	Filariasis (Filarial infection)
J09	Influenza due to identified avian influenza virus
P35.0	Congenital rubella syndrome
U04.9	Severe acute respiratory syndrome [SARS], unspecified
W88-W91	Exposure to radiation
Y36.5	War operation involving nuclear weapons
	<u>Causing adverse effects in therapeutic use:</u>
Y58	Bacterial vaccines
Y59.0	Viral vaccines
Y59.1	Rickettsial vaccines
Y59.2	Protozoal vaccines
Y59.3	Immunoglobulin

Table K. Place-of-Occurrence Edits for Selected External Causes of Death, ICD-10 W00-Y34, except Y06.\_, Y07.\_

[Place-of-occurrence codes are used for ICD-10 codes W00 - Y34 (except Y06.\_ and Y07.\_). For a listing of place-of-occurrence codes and their definitions see International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Vol. 1, in the beginning of Chapter XX.]

ICD-10 Code	Place-of-Occurrence Codes Allowed	Allocate Invalid Codes To:
W06	0,1,2,3,5,6,7,8,9	9
W07	0,1,2,3,5,6,7,8,9	9
W08	0,1,2,3,5,6,7,8,9	9
W09	0,1,2,3,5,6,8,9	9
W16	0,1,2,3,5,6,7,8,9	9
W35	0,1,2,3,5,6,7,8,9	9
W65	0,1,2,5,7,8,9	9
W66	0,1,2,5,7,8,9	9
W67	0,1,2,3,5,6,7,8,9	9
W68	0,1,2,3,5,6,7,8,9	9
W69	6,8,9	9
W70	6,8,9	9
W75	0,1,2,3,5,6,7,8,9	9
X00	0,1,2,3,5,6,7,8,9	9
X02	0,1,2,5,6,7,8,9	9
X05	0,1,2,3,4,5,7,8,9	9
X15	0,1,2,3,5,6,7,8,9	9
X52	1,2,5,6,8,9	9
X71	0,1,2,3,5,6,7,8,9	9
X92	0,1,2,3,5,6,7,8,9	9
Y21	0,1,2,3,5,6,7,8,9	9

NOTE 1: For ICD-10 codes included in the range W00 - Y34 (except Y06.\_ and Y07.\_) and not specified above, the place-of-occurrence codes 0 through 9 are allowed. Invalid codes will be allocated to code 9.

NOTE 2: The place-of-occurrence codes may be used for selected external causes of death W00-Y34 (except Y06.\_ and Y07.\_) that may be either an underlying or a multiple cause of death.

NOTE 3: The place-of-occurrence codes assigned are based on reported entries on State death certificate items equivalent to the 1989 revision of the U.S. Standard Certificate of Death item "30e. Place of injury".

## Section on Fetal Death File

## V Fetal Death File Cause-of-Death Computer Edits

The fetal death file is used to produce annual detailed tabulations of demographic and geographic data and contains cause-of-death data in most States. The edits are designed to assure code validity for cause of death and verify codes or code combinations which are considered either impossible or unlikely occurrences.

### A. Medical Items

Cause-of-death codes in ICD-10 are categorized in terms of their validity for cause-of-death classification.

#### 1. Codes Valid for Causes of Fetal Death

Table L lists the ICD-10 codes valid for coding cause of fetal death. For records that fail the edit, NCHS will review, but then the cause of death will be recoded to P95- cause unknown. This list may also be used for determining the validity of other causes entered on the fetal death report.

Note: The term “underlying cause” is no longer acceptable under the framework of the new (2003) U.S. Standard Report of Fetal Death. “Initiating cause” is the proper term under the new format.

#### 2. Created Codes

The fetal death file does not use created codes in ICD-10.

#### 3. Sex/Cause Consistency Edits

The purpose of this computer edit is to maintain consistency between a reported underlying / initiating cause of death and the sex of the fetus. Table M lists the ICD codes which are applicable only to males or only to females. The sex/cause edit will be done after the imputation for not-stated sex. If sex is coded 1 (male) or 9 (unknown), and the cause of death is listed in table M as being applicable only to females, the sex will be changed to 2 (female). If sex is coded 2 (female) or 9 (unknown) and the cause of death is listed in table M as being applicable only to males, the sex will be changed to 1 (male).

#### 4. Plurality/Cause Consistency Edits

The purpose of this computer edit is to maintain consistency between a reported underlying / initiating cause of death and the plurality of the fetus. Some ICD codes are applicable only to multiple births. If the cause of fetal death is assigned to ICD-10 codes P01.5 or Q89.4, plurality should be coded other than 1 (singleton). The check for consistency between plurality and cause of death should be done after the processing for plurality. If the cause of fetal death is assigned to ICD code Q89.4 and plurality is coded 1, the ICD code will be changed to Q89.9. If the cause of fetal death is coded to ICD code P01.5 and plurality is coded 1, the ICD code will be changed to P01.9.



Table L. ICD-10 Codes Valid for Causes of Fetal Death

A000	A163	A259	A440	A750	A91	B058	B332	B457	B602
A001	A164	A260	A441	A751	A920	B059	B333	B458	B608
A009	A165	A267	A448	A752	A921	B080	<b>B334</b>	B459	B64
A010	A167	A268	A449	A753	A922	B150	B338	B460	B650
A011	A168	A269	A46	A759	A923	B159	B340	B461	B651
A012	A169	A270	A480	A770	A924	B160	B341	B462	B652
A013	A170	A278	A482	A771	A928	B161	B342	B463	B653
A014	A171	A279	A483	A772	A929	B162	B343	B464	B658
A020	A178	A280	A484	A773	A930	B169	B344	B465	B659
A021	A179	A281	A488	A778	A931	B170	B348	B468	B660
A022	A180	A282	A490	A779	A932	B171	B349	B469	B661
A028	A181	A288	A491	A78	A938	B178	B380	B470	B662
A029	A182	A289	A492	A790	A94	B179	B381	B471	B663
A030	A183	A300	A493	A791	A950	B180	B382	B479	B664
A031	A184	A301	A498	A798	A951	B181	B383	B480	B665
A032	A185	A303	A499	A799	A959	B182	B384	B481	B668
A033	A186	A305	A500	A800	A960	B188	B387	B482	B669
A038	A187	A308	A502	A802	A961	B189	B388	B483	B670
A039	A188	A309	A503	A803	A962	B190	B389	B484	B671
A040	A190	A310	A504	A804	A968	B199	B390	B487	B672
A041	A191	A311	A505	A809	A969	B200	B391	B488	B673
A042	A192	A318	A509	A810	A980	B201	B392	B49	B674
A043	A198	A319	A540	A811	A981	B202	B393	B500	B675
A044	A199	A320	A541	A812	A982	B203	B394	B508	B676
A045	A200	A321	A542	A818	A983	B204	B395	B509	B677
A046	A201	A327	A543	A819	A984	B205	B399	B510	B678
A047	A202	A328	A544	A820	A985	B206	B400	B518	B679
A048	A203	A329	A545	A821	A988	B208	B401	B519	B680
A049	A207	A360	A546	A829	A99	B209	B402	B520	B681
A050	A208	A361	A548	A830	B000	B210	B403	B528	B689
A051	A209	A362	A549	A831	B001	B211	B407	B529	B690
A052	A210	A363	A600	A832	B002	B212	B408	B530	B691
A053	A211	A368	A601	A833	B003	B220	B409	B531	B698
A058	A212	A369	A609	A834	B004	B221	B410	B538	B699
A059	A213	A370	A65	A835	B005	B222	B417	B54	B700
A060	A217	A371	A660	A836	B007	B230	B418	B550	B701
A061	A218	A378	A661	A838	B008	B231	B419	B551	B710
A062	A219	A379	A662	A839	B009	B232	B420	B552	B711
A063	A220	A38	A663	A840	B010	B238	B421	B559	B718
A064	A221	A390	A664	A841	B011	B24	B427	B560	B719
A065	A222	A391	A665	A848	B012	B250	B428	B561	B72
A066	A227	A392	A666	A849	B018	B251	B429	B569	B73
A067	A228	A393	A667	A850	B019	B252	B430	B570	B740
A068	A229	A394	A669	A851	B020	B258	B431	B571	B741
A069	A230	A395	A670	A852	B021	B259	B432	B572	B743
A072	A231	A398	A671	A858	B022	B260	B438	B573	B744
A073	A232	A399	A673	A86	B023	B261	B439	B574	B748
A078	A233	A420	A679	A870	B027	B262	B440	B575	B749
A079	A238	A421	A680	A871	B028	B263	B441	B580	B75
A082	A239	A422	A681	A872	B029	B268	B442	B581	B760
A083	A240	A427	A689	A878	B03	B269	B447	B582	B761
A084	A241	A428	A690	A879	B04	B270	B448	B583	B768
A085	A242	A429	A691	A880	B050	B271	B449	B588	B769
<del>A09</del>	A243	A430	A692	A881	B051	B278	B450	B589	B770
<b>A090</b>	A244	A431	A698	A888	B052	B279	B451	B59	B778
<b>A099</b>	A250	A438	A699	A89	B053	B330	B452	B600	B779
A162	A251	A439	A70	A90	B054	B331	B453	B601	B780

Table L. ICD-10 Codes Valid for Causes of Fetal Death

B781	C048	C166	C322	C459	C570	C715	C842	D001	D101
B787	C049	C168	C323	C460	C571	C716	C843	D002	D102
B789	C050	C169	C328	C461	C572	C717	C844	D010	D103
B79	C051	C170	C329	C462	C573	C718	C845	D011	D104
B80	C052	C171	C33	C463	C574	C719	C850	D012	D105
B810	C058	C172	C340	C467	C577	C720	C851	D013	D106
B811	C059	C173	C341	C468	C578	C721	C857	D014	D107
B812	C060	C178	C342	C469	C579	C722	C859	D015	D109
B813	C061	C179	C343	C470	C600	C723	C880	D017	D110
B814	C062	C180	C348	C471	C601	C724	C881	D019	D117
B818	C068	C181	C349	C472	C602	C725	C882	D020	D119
B820	C069	C182	C37	C473	C608	C728	C883	D021	D120
B829	C07	C183	C380	C474	C609	C729	C887	D022	D121
B830	C080	C184	C381	C475	C61	C73	C889	D023	D122
B831	C081	C185	C382	C476	C620	C740	C900	D024	D123
B832	C088	C186	C383	C478	C621	C741	C901	D030	D124
B833	C089	C187	C384	C479	C629	C749	C902	D031	D125
B834	C090	C188	C388	C480	C630	C750	C910	D032	D126
B838	C091	C189	C390	C481	C631	C751	C911	D033	D127
B839	C098	C19	C398	C482	C632	C752	C912	D034	D128
B870	C099	C20	C399	C488	C637	C753	C913	D035	D129
B871	C100	C210	C400	C490	C638	C754	C914	D036	D130
B872	C101	C211	C401	C491	C639	C755	C915	D037	D131
B873	C102	C212	C402	C492	C64	C758	C917	D038	D132
B874	C103	C218	C403	C493	C65	C759	C919	D039	D133
B878	C104	C220	C408	C494	C66	C760	C920	D040	D134
B879	C108	C221	C409	C495	C670	C761	C921	D041	D135
B880	C109	C222	C410	C496	C671	C762	C922	D042	D136
B881	C110	C223	C411	C498	C672	C763	C923	D043	D137
B882	C111	C224	C412	C499	C673	C764	C924	D044	D139
B883	C112	C227	C413	C500	C674	C765	C925	D045	D140
B888	C113	C229	C414	C501	C675	C767	C927	D046	D141
B889	C118	C23	C419	C502	C676	C768	C929	D047	D142
B89	C119	C240	C430	C503	C677	C80	C930	D048	D143
B99	C12	C241	C431	C504	C678	C810	C931	D049	D144
C000	C130	C248	C432	C505	C679	C811	C932	D050	D150
C001	C131	C249	C433	C506	C680	C812	C937	D051	D151
C002	C132	C250	C434	C508	C681	C813	C939	D057	D152
C003	C138	C251	C435	C509	C688	C817	C940	D059	D157
C004	C139	C252	C436	C510	C689	C819	C941	D060	D160
C005	C140	C253	C437	C511	C690	C820	C942	D061	D161
C006	C142	C254	C438	C512	C691	C821	C943	D067	D162
C008	C148	C257	C439	C518	C692	C822	C944	D069	D163
C009	C150	C259	C440	C519	C693	C827	C945	D070	D164
C01	C151	C260	C441	C52	C694	C829	C947	D071	D165
C020	C152	C261	C442	C530	C695	C830	C950	D072	D166
C021	C153	C268	C443	C531	C696	C831	C951	D073	D167
C022	C154	C269	C444	C538	C698	C832	C952	D074	D168
C023	C155	C300	C445	C539	C699	C833	C957	D075	D169
C024	C158	C301	C446	C540	C700	C834	C959	D076	D170
C028	C159	C310	C447	C541	C701	C835	C960	D090	D171
C029	C160	C311	C448	C542	C709	C836	C961	D091	D172
C030	C161	C312	C449	C543	C710	C837	C962	D092	D173
C031	C162	C313	C450	C548	C711	C838	C963	D093	D174
C039	C163	C318	C451	C549	C712	C839	C967	D097	D175
C040	C164	C319	C452	C55	C713	C840	C969	D099	D176
C041	C165	C321	C457	C56	C714	C841	D000	D100	D177

Table L. ICD-10 Codes Valid for Causes of Fetal Death

D179	D300	D391	D501	D613	D802	E164	E711	E832	G710
D180	D301	D397	D508	D618	D803	E168	E712	E833	G711
D181	D302	D399	D509	D619	D804	E169	E713	E838	G712
D190	D303	D400	D510	D640	D805	E200	E720	E839	G719
D191	D304	D401	D511	D641	D806	E201	E721	E840	G723
D197	D307	D407	D512	D642	D807	E208	E722	E841	G800
D199	D309	D409	D513	D643	D808	E209	E723	E848	G801
D200	D310	D410	D518	D644	D809	E210	E724	E849	G802
D201	D311	D411	D519	D648	D810	E213	E725	E850	G803
D210	D312	D412	D520	D649	D811	E214	E728	E851	G804
D211	D313	D413	D521	D66	D812	E215	E729	E852	G808
D212	D314	D414	D528	D67	D813	<b>E220</b>	E740	E853	G809
D213	D315	D417	D529	D680	D814	E221	E741	E854	G900
D214	D316	D419	D530	D681	D815	E228	E742	E858	G901
D215	D319	D420	D531	D682	D816	E229	E743	E859	G902
D216	D320	D421	D532	D683	D817	E230	E744	E880	G903
D219	D321	D429	D538	D684	D818	E233	E748	E881	G904
D220	D329	D430	D539	D685	D819	E236	E749	E882	G908
D221	D330	D431	D550	D686	D820	E237	E750	E888	G909
D222	D331	D432	D551	D688	D821	E240	E751	E889	G910
D223	D332	D433	D552	D689	D822	E241	E752	G000	G911
D224	D333	D434	D553	D690	D823	E243	E753	G001	G912
D225	D334	D437	D558	D691	D824	E248	E754	G002	G913
D226	D337	D439	D559	D692	D828	E249	E755	G003	G918
D227	D339	D440	D560	D693	D829	E250	E756	G008	G919
D229	D34	D441	D561	D694	D830	E258	E760	G009	G935
D230	D350	D442	D562	D695	D831	E259	E761	G030	<b>G938</b>
D231	D351	D443	D563	D696	D832	E260	E762	G038	G950
D232	D352	D444	D564	D698	D838	E268	E763	G039	G951
D233	D353	D445	D568	D699	D839	E269	E768	G040	G952
D234	D354	D446	D569	D70	D840	E270	E769	G041	G958
D235	D355	D447	D570	D71	D841	E271	E770	G042	G959
D236	D356	D448	D571	D720	D848	E272	E771	G048	I210
D237	D357	D449	D572	D721	D849	E274	E778	G120	I211
D239	D358	D45	D573	D728	D860	E275	E779	G121	I212
D24	D359	D460	D578	D729	D861	E278	E780	G122	I213
D250	D360	D461	D580	D730	D862	E279	E781	G128	I214
D251	D361	D462	D581	D731	D863	E310	E782	G129	I219
D252	D367	D463	D582	D732	D868	E311	E783	G318	I220
D259	D369	D464	D588	D733	D869	E318	E784	G319	I221
D260	D370	D467	D589	D734	D890	E319	E785	G361	I228
D261	D371	D469	D590	D735	D891	E320	E786	G368	I229
D267	D372	D470	D591	D738	D892	E321	E788	G369	I241
D269	D373	D471	D592	D739	D898	E328	E789	G370	I248
D27	D374	D472	D593	D740	D899	E329	E791	G371	I249
D280	D375	D473	D594	D748	E000	E341	E798	G372	I251
D281	D376	D477	D595	D749	E001	<b>E343</b>	E799	G373	I255
D282	D377	D479	D596	D750	E002	E345	E800	G374	I300
D287	D379	D480	D598	D752	E009	E348	E801	G375	I301
D289	D380	D481	D599	D758	E030	E349	E802	G378	I308
D290	D381	D482	D600	D759	E031	E700	E803	G379	I309
D291	D382	D483	D601	D760	E071	E701	E804	G403	I319
D292	D383	D484	D608	D761	E079	E702	E805	G404	I330
D293	D384	D485	D609	D762	E15	E703	E806	G600	I339
D294	D385	D486	D610	D763	E160	E708	E807	G601	I400
D297	D386	D487	D611	D800	E161	E709	E830	G608	I409
D299	D390	D489	D612	D801	E163	E710	E831	G609	I422

Table L. ICD-10 Codes Valid for Causes of Fetal Death

I424	K460	P005	P103	P241	P500	P703	P962	Q113	Q210
I460	K461	P006	P104	P242	P501	P704	P963	Q120	Q211
I461	K469	P007	P108	P243	P502	P708	P965	Q121	Q212
I469	K550	P008	P109	P248	P503	P709	P968	Q122	Q213
I513	K740	P009	P110	P249	P504	P711	P969	Q123	Q214
I600	K741	P010	P111	P250	P505	P712	Q000	Q124	Q218
I601	K742	P011	P112	P251	P508	P713	Q001	Q128	Q219
I602	K743	P012	P113	P252	P509	P714	Q002	Q129	Q220
I603	K745	P013	P114	P253	P510	P718	Q010	Q130	Q221
I604	K768	P014	P115	P258	P519	P719	Q011	Q131	Q222
I605	K828	P015	P119	P260	P520	P720	Q012	Q132	Q223
I606	K838	P016	P120	P261	P521	P721	Q018	Q133	Q224
I607	M000	P017	P121	P268	P522	P722	Q019	Q134	Q225
I608	M001	P018	P122	P269	P523	P728	Q02	Q135	Q226
I609	M002	P019	P123	P270	P524	P729	Q030	Q138	Q228
I630	M008	P020	P124	P271	P525	P741	Q031	Q139	Q229
I631	M009	P021	P128	P278	P526	P742	Q038	Q140	Q230
I632	M329	P022	P129	P279	P528	P743	Q039	Q141	Q231
I633	M359	P023	P130	P280	P529	P744	Q040	Q142	Q232
I634	M600	P024	P131	P281	P540	P745	Q041	Q143	Q233
I635	M898	P025	P132	P285	P541	P748	Q042	Q148	Q234
I636	N040	P026	P133	P288	P542	P749	Q043	Q150	Q238
I638	N041	P027	P134	P289	P543	P760	Q045	Q158	Q239
I639	N042	P028	P138	P290	P544	P768	Q046	Q159	Q240
I780	N043	P029	P139	P291	P545	P769	Q048	Q160	Q241
I789	N044	P030	P140	P292	P546	P77	Q049	Q161	Q242
J100	N045	P031	P141	P294	P548	P780	Q050	Q162	Q243
J101	N046	P032	P142	P298	P549	P781	Q051	Q163	Q244
J108	N047	P033	P143	P299	P550	P782	Q052	Q164	Q245
J110	N048	P034	P148	P350	P551	P783	Q053	Q165	Q246
J111	N049	P035	P149	P351	P558	P788	Q054	Q169	Q248
J118	N050	P036	P150	P352	P559	P789	Q055	Q170	Q249
<b>K070</b>	N051	P038	P151	P353	P560	P810	Q056	Q171	Q250
<b>K071</b>	N052	P039	P152	P358	P569	P819	Q057	Q172	Q251
<b>K078</b>	N053	P040	P153	P359	P570	P830	Q058	Q173	Q252
<b>K079</b>	N054	P041	P154	P360	P578	P831	Q059	Q174	Q253
K400	N055	P042	P155	P361	P579	P832	Q060	Q175	Q254
K401	N056	P043	P156	P362	P580	P833	Q061	Q178	Q255
K402	N057	P044	P158	P363	P581	P838	Q062	Q179	Q256
K403	N058	P045	P159	P364	P582	P910	Q063	Q180	Q257
K404	N059	P046	P200	P365	P583	P911	Q064	Q181	Q258
K409	N070	P048	P201	P368	P584	P912	Q068	Q182	Q259
K410	N071	P049	P209	P369	P585	P913	Q069	Q183	Q260
K411	N072	P050	P219	P370	P588	P914	Q070	Q184	Q261
K412	N073	P051	P220	P371	P589	P915	Q078	Q185	Q262
K413	N074	P052	P228	P372	P591	P916	Q079	Q186	Q263
K414	N075	P059	P229	P373	P60	P918	Q100	Q187	Q264
K419	N076	P070	P230	P374	P610	P919	Q101	Q188	Q265
K420	N077	P071	P231	P375	P612	P93	Q102	Q189	Q266
K421	N078	P072	P232	P378	P613	P940	Q103	Q200	Q268
K429	N079	P073	P233	P379	P614	P941	Q104	Q201	Q269
K430	<b>N328</b>	P080	P234	P38	P616	P942	Q105	Q202	Q270
K431	P000	P081	P235	P392	P618	P948	Q106	Q203	Q271
K439	P001	P082	P236	P393	P619	P949	Q107	Q204	Q272
K450	P002	P100	P238	P394	P700	P95	Q110	Q205	Q273
K451	P003	P101	P239	P398	P701	P960	Q111	Q206	Q274
K458	P004	P102	P240	P399	P702	P961	Q112	Q208	Q278

Table L. ICD-10 Codes Valid for Causes of Fetal Death

Q279	Q382	Q500	Q605	Q680	Q764	Q838	Q931	R786	S023
Q280	Q383	Q501	Q606	Q681	Q765	Q839	Q932	R787	S024
Q281	Q384	Q502	Q610	Q682	Q766	Q840	Q933	R788	S025
Q282	Q385	Q503	Q611	Q683	Q767	Q841	Q934	R789	S026
Q283	Q386	Q504	Q612	Q684	Q769	Q842	Q935	R830	S027
Q288	Q387	Q505	Q613	Q685	Q770	Q843	Q936	R831	S028
Q289	Q388	Q506	Q614	Q688	Q771	Q844	Q937	R832	S029
Q300	Q390	Q510	Q615	Q690	Q772	Q845	Q938	R833	S030
Q301	Q391	Q511	Q618	Q691	Q773	Q846	Q939	R834	S031
Q302	Q392	Q512	Q619	Q692	Q774	Q848	Q951	R835	S032
Q303	Q393	Q513	Q620	Q699	Q775	Q849	Q952	R836	S033
Q308	Q394	Q514	Q621	Q700	Q776	Q850	Q954	R837	S034
Q309	Q395	Q515	Q622	Q701	Q777	Q851	Q955	R838	S035
Q310	Q396	Q516	Q623	Q702	Q778	Q858	Q958	R839	S040
Q311	Q398	Q517	Q624	Q703	Q779	Q859	Q959	R840	S041
Q312	Q399	Q518	Q625	Q704	Q780	Q860	Q960	R841	S042
Q313	Q400	Q519	Q626	Q709	Q781	Q861	Q961	R842	S043
Q315	Q401	Q520	Q627	Q710	Q782	Q862	Q962	R843	S044
Q318	Q402	Q521	Q628	Q711	Q783	Q868	Q963	R844	S045
Q319	Q403	Q522	Q630	Q712	Q784	Q870	Q964	R845	S046
Q320	Q408	Q523	Q631	Q713	Q785	Q871	Q968	R846	S047
Q321	Q409	Q524	Q632	Q714	Q786	Q872	Q969	R847	S048
Q322	Q410	Q525	Q633	Q715	Q788	Q873	Q970	R848	S049
Q323	Q411	Q526	Q638	Q716	Q789	Q874	Q971	R849	S050
Q324	Q412	Q527	Q639	Q718	Q790	Q875	Q972	R850	S051
Q330	Q418	Q528	Q640	Q719	Q791	Q878	Q973	R851	S052
Q331	Q419	Q529	Q641	Q720	Q792	Q890	Q978	R852	S053
Q332	Q420	Q530	Q642	Q721	Q793	Q891	Q979	R853	S054
Q333	Q421	Q531	Q643	Q722	Q794	Q892	Q980	R854	S055
Q334	Q422	Q532	Q644	Q723	Q795	Q893	Q981	R855	S056
Q335	Q423	Q539	Q645	Q724	Q796	Q894	Q982	R856	S057
Q336	Q428	Q540	Q646	Q725	Q798	Q897	Q983	R857	S058
Q338	Q429	Q541	Q647	Q726	Q799	Q898	Q984	R858	S059
Q339	Q430	Q542	Q648	Q727	Q800	Q899	Q985	R859	S060
Q340	Q431	Q543	Q649	Q728	Q801	Q900	Q987	R898	S061
Q341	Q432	Q544	Q652	Q729	Q802	Q901	Q988	R99	S062
Q348	Q433	Q548	Q658	Q730	Q803	Q902	Q989	S000	S063
Q349	Q434	Q549	Q659	Q731	Q804	Q909	Q990	S001	S064
Q351	Q435	Q550	Q660	Q738	Q808	Q910	Q991	S002	S065
Q353	Q436	Q551	Q661	Q740	Q809	Q911	Q992	S003	S066
Q355	Q437	Q552	Q662	Q741	Q810	Q912	Q998	S004	S067
<del>Q356</del>	Q438	Q553	Q663	Q742	Q811	Q913	Q999	S005	S068
Q357	Q439	Q554	Q664	Q743	Q812	Q914	R14	S007	S069
Q359	Q440	Q555	Q665	Q748	Q818	Q915	R18	S008	S070
Q360	Q441	Q556	Q666	Q749	Q819	Q916	R190	S009	S071
Q361	Q442	Q558	Q667	Q750	Q820	Q917	R220	S010	S078
Q369	Q443	Q559	Q668	Q751	Q821	Q920	R238	S011	S079
Q370	Q444	Q560	Q669	Q752	Q822	Q921	R298	S012	S080
Q371	Q445	Q561	Q670	Q753	Q823	Q922	R456	S013	S081
Q372	Q446	Q562	Q671	Q754	Q824	Q923	R75	S014	S088
Q373	Q447	Q563	Q672	Q755	Q825	Q924	R772	S015	S089
Q374	Q450	Q564	Q673	Q758	Q828	Q925	R780	S017	S090
Q375	Q451	Q600	Q674	Q759	Q829	Q926	R781	S018	S091
Q378	Q452	Q601	Q675	Q760	Q830	Q927	R782	S019	S092
Q379	Q453	Q602	Q676	Q761	Q831	Q928	R783	S020	S097
Q380	Q458	Q603	Q677	Q762	Q832	Q929	R784	S021	S098
Q381	Q459	Q604	Q678	Q763	Q833	Q930	R785	S022	S099

Table L. ICD-10 Codes Valid for Causes of Fetal Death

S100	S218	S310	<del>S376</del>	S467	S579	S665	S780	S880	S982
S101	S219	S311	S377	S468	S580	S666	S781	S881	S983
S107	S220	<del>S312</del>	S378	S469	S581	S667	S789	S889	S984
S108	S221	<del>S313</del>	S379	S47	S589	S668	S797	S897	S997
S109	S222	<del>S314</del>	S380	S480	S597	S669	S798	S898	S998
S110	S223	S315	S381	S481	S598	S670	S799	S899	S999
S111	S224	S317	S382	S489	S599	S678	S800	S900	T002
S112	S225	S318	S383	S497	S600	S680	S801	S901	T003
S117	S228	S320	S390	S498	S601	S681	S807	S902	T008
S118	S229	S321	S396	S499	S602	S682	S808	S903	T009
S119	S230	S322	S397	S500	S607	S683	S809	S907	T012
S120	S231	S323	S398	S501	S608	S684	S810	S908	T013
S121	S232	S324	S399	S507	S609	S688	S817	S909	T019
S122	S233	S325	S400	S508	S610	S689	S818	S910	T021
S127	S234	S327	S407	S509	S611	S697	S819	S911	T022
S128	S235	S328	S408	S510	S617	S698	S820	S912	T023
S129	S240	S330	S409	S517	S618	S699	S821	S913	T024
S130	S241	S331	S410	S518	S619	S700	S822	S917	T025
S131	S242	S332	S411	S519	S620	S701	S823	S920	T028
S132	S243	S333	S417	S520	S621	S707	S824	S921	T029
S133	S244	S334	S418	S521	S622	S708	S825	S922	T031
S134	S245	S335	S420	S522	S623	S709	S826	S923	T032
S135	S246	S336	S421	S523	S624	S710	S827	S924	T033
S136	S250	S337	S422	S524	S625	S711	S828	S925	T038
S140	S251	S340	S423	S525	S626	S717	S829	S927	T039
S141	S252	S341	S424	S526	S627	S718	S830	S929	T041
S142	S253	S342	S427	S527	S628	S720	S831	S930	T042
S143	S254	S343	S428	S528	S630	S721	S832	S931	T043
S144	S255	S344	S429	S529	S631	S722	S833	S932	T048
S145	S257	S345	S430	S530	S632	S723	S834	S933	T049
S146	S258	S346	S431	S531	S633	S724	S835	S934	T050
S150	S259	S348	S432	S532	S634	S727	S836	S935	T052
S151	S260	S350	S433	S533	S635	S728	S837	S936	T053
S152	S268	S351	S434	S534	S636	S729	S840	S940	T055
S153	S269	S352	S435	S540	S637	S730	S841	S941	T058
S157	S270	S353	S436	S541	S640	S731	S842	S942	T059
S158	S271	S354	S437	S542	S641	S740	S847	S943	T062
S159	S272	S355	S440	S543	S642	S741	S848	S947	T063
S16	S273	S357	S441	S547	S643	S742	S849	S948	T064
S170	S274	S358	S442	S548	S644	S747	S850	S949	T065
S178	S275	S359	S443	S549	S647	S748	S851	S950	T07
S179	S276	S360	S444	S550	S648	S749	S852	S951	T08
S18	S277	S361	S445	S551	S649	S750	S853	S952	T090
S197	S278	S362	S447	S552	S650	S751	S854	S957	T091
S198	S279	S363	S448	S557	S651	S752	S855	S958	T092
S199	S280	S364	S449	S558	S652	S757	S857	S959	T093
S200	S281	S365	S450	S559	S653	S758	S858	S960	T094
S201	S290	S366	S451	S560	S654	S759	S859	S961	T095
S202	S297	S367	S452	S561	S655	S760	S860	S962	T096
S203	S298	S368	S453	S562	S657	S761	S861	S967	T098
S204	S299	S369	S457	S563	S658	S762	S862	S968	T099
S207	S300	S370	S458	S564	S659	S763	S863	S969	T10
S208	S301	S371	S459	S565	S660	S764	S867	S970	T110
S210	S302	S372	S460	S567	S661	S767	S868	S971	T111
S211	S307	S373	S461	S568	S662	S770	S869	S978	T112
S212	S308	<del>S374</del>	S462	S570	S663	S771	S870	S980	T113
S217	S309	<del>S375</del>	S463	S578	S664	S772	S878	S981	T114

Table L. ICD-10 Codes Valid for Causes of Fetal Death

T115	T206	T275	T346	T410	T473	T540	T638	T783	T845
T116	T207	T276	T347	T411	T474	T541	T639	T784	T846
T118	T210	T277	T348	T412	T475	T542	T64	T788	T847
T119	T211	T280	T349	T413	T476	T543	T650	T789	T848
T12	T212	T281	T350	T414	T477	T549	T651	T790	T849
T130	T213	T282	T351	T415	T478	T55	T652	T791	T850
T131	T214	T283	T352	T420	T479	T560	T653	T792	T851
T132	T215	T284	T353	T421	T480	T561	T654	T793	T852
T133	T216	T285	T354	T422	T481	T562	T655	T794	T853
T134	T217	T286	T355	T423	T482	T563	T656	T795	T854
T135	T220	T287	T356	T424	T483	T564	T658	T796	T855
T136	T221	T288	T357	T425	T484	T565	T659	T797	T856
T138	T222	T289	T360	T426	T485	T566	T66	T798	T857
T139	T223	T300	T361	T427	T486	T567	T670	T799	T858
T140	T224	T301	T362	T428	T487	T568	T671	T800	T859
T141	T225	T302	T363	T430	T490	T569	T672	T801	T860
T142	T226	T303	T364	T431	T491	T570	T673	T802	T861
T143	T227	T304	T365	T432	T492	T571	T674	T803	T862
T144	T230	T305	T366	T433	T493	T572	T675	T804	T863
T145	T231	T306	T367	T434	T494	T573	T676	T805	T864
T146	T232	T307	T368	T435	T495	T578	T677	T806	T868
T147	T233	T310	T369	T436	T496	T579	T678	T808	T869
T148	T234	T311	T370	T438	T497	T58	T679	T809	T870
T149	T235	T312	T371	T439	T498	T590	T68	T810	T871
T150	T236	T313	T372	T440	T499	T591	T690	T811	T872
T151	T237	T314	T373	T441	T500	T592	T691	T812	T873
T158	T240	T315	T374	T442	T501	T593	T698	T813	T874
T159	T241	T316	T375	T443	T502	T594	T699	T814	T875
T16	T242	T317	T378	T444	T503	T595	T700	T815	T876
T170	T243	T318	T379	T445	T504	T596	T701	T816	T880
T171	T244	T319	T380	T446	T505	T597	T702	T817	T881
T172	T245	T320	T381	T447	T506	T598	T703	T818	T882
T173	T246	T321	T382	T448	T507	T599	T704	T819	T883
T174	T247	T322	T383	T449	T508	T600	T708	T820	T884
T175	T250	T323	<del>T384</del>	T450	T509	T601	T709	T821	T885
T178	T251	T324	<del>T385</del>	T451	T510	T602	T71	T822	T886
T179	T252	T325	T386	T452	T511	T603	T730	T823	T887
T180	T253	T326	T387	T453	T512	T604	T731	T824	T888
T181	T254	T327	T388	T454	T513	T608	T732	T825	T889
T182	T255	T328	T389	T455	T518	T609	T733	T826	T900
T183	T256	T329	T390	T456	T519	T610	T738	T827	T901
T184	T257	T330	T391	T457	T520	T611	T739	T828	T902
T185	T260	T331	T392	T458	T521	T612	T740	T829	T903
T188	T261	T332	T393	T459	T522	T618	T741	T830	T904
T189	T262	T333	T394	T460	T523	T619	T742	T831	T905
T190	T263	T334	T398	T461	T524	T620	T743	T832	T908
T191	T264	T335	T399	T462	T528	T621	T748	<del>T833</del>	T909
T192	T265	T336	T400	T463	T529	T622	T749	T834	T910
T193	T266	T337	T401	T464	T530	T628	T750	T835	T911
T198	T267	T338	T402	T465	T531	T629	T751	T836	T912
T199	T268	T339	T403	T466	T532	T630	T752	T838	T913
T200	T269	T340	T404	T467	T533	T631	T753	T839	T914
T201	T270	T341	T405	T468	T534	T632	T754	T840	T915
T202	T271	T342	T406	T469	T535	T633	T758	T841	T918
T203	T272	T343	T407	T470	T536	T634	T780	T842	T919
T204	T273	T344	T408	T471	T537	T635	T781	T843	T920
T205	T274	T345	T409	T472	T539	T636	T782	T844	T921

Table L. ICD-10 Codes Valid for Causes of Fetal Death

T922	V271	V556	V808	V914	W34	<b>X590</b>
T923	V275	V561	V809	V915	W35	<b>X599</b>
T924	V281	V566	V810	V916	W36	X85
T925	V285	V571	V811	V917	W37	X87
T926	V291	V576	V812	V918	W38	X88
T928	V295	V581	V813	V919	W39	X89
T929	V301	V586	V815	V930	W40	X90
T930	V306	V591	V816	V931	W41	X93
T931	V311	V595	V817	V932	W42	X94
T932	V316	V601	V818	V933	W43	X95
T933	V321	V606	V819	V934	W44	X96
T934	V326	V611	V820	V935	W45	X97
T935	V331	V616	V821	V936	W49	X98
T936	V336	V621	V822	V937	W50	X99
T938	V341	V626	V823	V938	W51	Y00
T939	V346	V631	V825	V939	W52	Y02
T940	V351	V636	V826	V940	W55	Y03
T941	V356	V641	V827	V941	W58	Y04
T950	V361	V646	V828	V942	W64	Y08
T951	V366	V651	V829	V943	W85	Y09
T952	V371	V656	V831	V944	W86	Y10
T953	V376	V661	V836	V945	W87	Y11
T954	V381	V666	V841	V946	W88	Y12
T958	V386	V671	V846	V947	W89	Y13
T959	V391	V676	V851	V948	W90	Y14
T96	V395	V681	V856	V949	W91	Y15
T97	V401	V686	V861	V950	W92	Y16
T980	V406	V691	V866	V951	W93	Y17
T981	V411	V695	V870	V952	W99	Y18
T982	V416	V701	V871	V953	X19	Y19
T983	V421	V706	V872	V954	X30	Y22
*U010	V426	V711	V873	V958	X31	Y23
*U011	V431	V716	V874	V959	X32	Y24
*U012	V436	V721	V875	V960	X33	<b>Y25</b>
*U013	V441	V726	V876	V961	<del>X34</del>	<b>Y26</b>
*U014	V446	V731	V877	V962	<b>X340</b>	<b>Y27</b>
*U015	V451	V736	V878	V968	<b>X341</b>	<b>Y28</b>
*U016	V456	V741	V879	V969	<b>X348</b>	<b>Y29</b>
*U017	V461	V746	V880	V970	<b>X349</b>	<b>Y32</b>
*U018	V466	V751	V881	V973	X35	<b>Y33</b>
*U019	V471	V756	V882	V978	X36	<b>Y34</b>
V191	V476	V761	V883	V98	X37	<b>Y360</b>
V195	V481	V766	V884	V99	X39	<b>Y361</b>
V201	V486	V771	V885	W20	X40	<b>Y362</b>
V205	V491	V776	V886	W21	X41	<b>Y364</b>
V211	V495	V781	V887	W22	X42	<b>Y365</b>
V215	V501	V786	V888	W23	X43	<b>Y366</b>
V221	V506	V791	V889	W24	X44	<b>Y367</b>
V225	V511	V795	V890	W25	X45	<b>Y368</b>
V231	V516	V800	V891	W26	X46	<b>Y369</b>
V235	V521	V801	V892	W27	X47	
V241	V526	V802	V893	W28	X48	
V245	V531	V803	V899	W29	X49	
V251	V536	V804	V910	W30	X52	
V255	V541	V805	V911	W31	X57	
V261	V546	V806	V912	W32	X58	
V265	V551	V807	V913	W33	<del>X59</del>	



Table M. Sex/Cause and Plurality/Cause Consistency Edits for ICD-10 Codes Valid for Cause of Fetal Death

0 - Conditional  
 1 - Absolute  
 2 - Not Applicable

ICD-10 code	Sex/plurality limitation	Sex	Plurality	Edit code <sup>1</sup>
B26.0	Male	1	2	10
C51.0	Female	1	2	11
C51.1	Female	1	2	11
C51.2	Female	1	2	11
C51.8	Female	1	2	11
C51.9	Female	1	2	11
C52	Female	1	2	11
C53.0	Female	1	2	11
C53.1	Female	1	2	11
C53.8	Female	1	2	11
C53.9	Female	1	2	11
C54.0	Female	1	2	11
C54.1	Female	1	2	11
C54.2	Female	1	2	11
C54.3	Female	1	2	11
C54.8	Female	1	2	11
C54.9	Female	1	2	11
C55	Female	1	2	11
C56	Female	1	2	11
C57.0	Female	1	2	11
C57.1	Female	1	2	11
C57.2	Female	1	2	11
C57.3	Female	1	2	11
C57.4	Female	1	2	11
C57.7	Female	1	2	11
C57.8	Female	1	2	11
C57.9	Female	1	2	11
C60.0	Male	1	2	10
C60.1	Male	1	2	10
C60.2	Male	1	2	10
C60.8	Male	1	2	10
C60.9	Male	1	2	10
C61	Male	1	2	10
C62.0	Male	1	2	10
C62.1	Male	1	2	10
C62.9	Male	1	2	10
C63.0	Male	1	2	10
C63.1	Male	1	2	10
C63.2	Male	1	2	10
C63.7	Male	1	2	10
C63.8	Male	1	2	10
C63.9	Male	1	2	10

Table M. Sex/Cause and Plurality/Cause Consistency Edits for ICD-10 Codes Valid for Cause of Fetal Death

0 - Conditional  
 1 - Absolute  
 2 - Not Applicable

ICD-10 code	Sex/plurality limitation	Sex	Plurality	Edit code <sup>1</sup>
D06.0	Female	1	2	11
D06.1	Female	1	2	11
D06.7	Female	1	2	11
D06.9	Female	1	2	11
D07.0	Female	1	2	11
D07.1	Female	1	2	11
D07.2	Female	1	2	11
D07.3	Female	1	2	11
D07.4	Male	1	2	10
D07.5	Male	1	2	10
D07.6	Male	1	2	10
D17.6	Male	1	2	10
D25.0	Female	1	2	11
D25.1	Female	1	2	11
D25.2	Female	1	2	11
D25.9	Female	1	2	11
D26.0	Female	1	2	11
D26.1	Female	1	2	11
D26.7	Female	1	2	11
D26.9	Female	1	2	11
D27	Female	1	2	11
D28.0	Female	1	2	11
D28.1	Female	1	2	11
D28.2	Female	1	2	11
D28.7	Female	1	2	11
D28.9	Female	1	2	11
D29.0	Male	1	2	10
D29.1	Male	1	2	10
D29.2	Male	1	2	10
D29.3	Male	1	2	10
D29.4	Male	1	2	10
D29.7	Male	1	2	10
D29.9	Male	1	2	10
D39.0	Female	1	2	11
D39.1	Female	1	2	11
D39.7	Female	1	2	11
D39.9	Female	1	2	11
D40.0	Male	1	2	10
D40.1	Male	1	2	10
D40.7	Male	1	2	10
D40.9	Male	1	2	10
P01.5	Plural	2	1	24

Table M. Sex/Cause and Plurality/Cause Consistency Edits for ICD-10 Codes Valid for Cause of Fetal Death

0 - Conditional  
 1 - Absolute  
 2 - Not Applicable

ICD-10 code	Sex/plurality limitation	Sex	Plurality	Edit code <sup>1</sup>
P54.6	Female	1	2	11
Q50.0	Female	1	2	11
Q50.1	Female	1	2	11
Q50.2	Female	1	2	11
Q50.3	Female	1	2	11
Q50.4	Female	1	2	11
Q50.5	Female	1	2	11
Q50.6	Female	1	2	11
Q51.0	Female	1	2	11
Q51.1	Female	1	2	11
Q51.2	Female	1	2	11
Q51.3	Female	1	2	11
Q51.4	Female	1	2	11
Q51.5	Female	1	2	11
Q51.6	Female	1	2	11
Q51.7	Female	1	2	11
Q51.8	Female	1	2	11
Q51.9	Female	1	2	11
Q52.0	Female	1	2	11
Q52.1	Female	1	2	11
Q52.2	Female	1	2	11
Q52.3	Female	1	2	11
Q52.4	Female	1	2	11
Q52.5	Female	1	2	11
Q52.6	Female	1	2	11
Q52.7	Female	1	2	11
Q52.8	Female	1	2	11
Q52.9	Female	1	2	11
Q53.0	Male	1	2	10
Q53.1	Male	1	2	10
Q53.2	Male	1	2	10
Q53.9	Male	1	2	10
Q54.0	Male	1	2	10
Q54.1	Male	1	2	10
Q54.2	Male	1	2	10
Q54.3	Male	1	2	10
Q54.4	Male	1	2	10
Q54.8	Male	1	2	10
Q54.9	Male	1	2	10
Q55.0	Male	1	2	10
Q55.1	Male	1	2	10
Q55.2	Male	1	2	10

Table M. Sex/Cause and Plurality/Cause Consistency Edits for ICD-10 Codes Valid for Cause of Fetal Death

0 - Conditional  
 1 - Absolute  
 2 - Not Applicable

ICD-10 code	Sex/plurality limitation	Sex	Plurality	Edit code <sup>1</sup>
Q55.3	Male	1	2	10
Q55.4	Male	1	2	10
Q55.5	Male	1	2	10
Q55.6	Male	1	2	10
Q55.8	Male	1	2	10
Q55.9	Male	1	2	10
Q89.4	Plural	2	1	24
Q96.0	Female	1	2	11
Q96.1	Female	1	2	11
Q96.2	Female	1	2	11
<del>Q96.3</del>	<del>Female</del>	<del>1</del>	<del>2</del>	<del>11</del>
Q96.4	Female	1	2	11
Q96.8	Female	1	2	11
Q96.9	Female	1	2	11
Q97.0	Female	1	2	11
Q97.1	Female	1	2	11
Q97.2	Female	1	2	11
Q97.3	Female	1	2	11
Q97.8	Female	1	2	11
Q97.9	Female	1	2	11
Q98.0	Male	1	2	10
Q98.1	Male	1	2	10
Q98.2	Male	1	2	10
Q98.4	Male	1	2	10
Q98.5	Male	1	2	10
Q98.6	Male	1	2	10
Q98.7	Male	1	2	10
Q98.8	Male	1	2	10
Q98.9	Male	1	2	10

<sup>1</sup> Edit codes may be useful for programming the sex/plurality limitations as follows:

<u>Edit code</u>	<u>Limited to</u>
10	Male
11	Female
24	Plural

## APPENDIX I

## Bridging of Multiple Race Data into a Single Race Category

### *Background*

Population data used to calculate death rates are routinely produced under a collaborative arrangement with the U.S. Census Bureau. The 2000 Census allowed respondents to report more than one race, in accordance with the new standards for the classification of race and ethnicity issued in 1997 by the U.S. Office of Management and Budget (OMB). In addition, the standards specified five minimum race categories to be used for tabulation (American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White). This is a modification of the previous 1977 OMB standards in which only four race categories were specified (Asian and Pacific Islander persons were treated as a single group) and respondents reported only one of the four.

The death certificates that were then received from the States collected only one race for the decedent, according to the 1977 OMB guidelines, and were incompatible with population data based on the 2000 Census for calculating death rates.

In order to produce 2000 populations with race categories comparable to those used on the death certificate, the enumerated population data with multiple race categories was "bridged" back to single race categories. In addition, the 2000 census counts were modified to be consistent with the old OMB racial categories, i.e., data for Asian persons and Native Hawaiians or other Pacific Islanders were combined into a single category, Asian or Pacific Islanders. It is anticipated that "bridged" population data will be used over the next few years for computing population-based rates.

Beginning with deaths occurring in 2003, a few States started to collect multiple race data on the death certificate. Once all States begin collecting data on race according to the new OMB standards, it is expected that the use of "bridged" populations will be discontinued. Until such time, however, death certificates that are received with multiple race data must also be "bridged" back to single race categories to ensure the compatibility between numerator and denominator data that is needed to produce race-specific death rates. For the purposes of the mortality data file, this single race data value is now called the Bridged Race field.

### *Bridging of multiple race data discussed*

The Bridged Race field is an overloaded variable combining reported single race and a single selected race (when multiple races are reported).

When one race is mentioned, the codes assigned to this field include values "01" through "15"<sup>1</sup>. These single race codes are also used when more than one checkbox / literal entry is reported and they all equate to the same delineated race group.

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<sup>1</sup> The race values corresponding to these codes are: 1=White, 2=Black or African American, 3=American Indian or Alaska Native, 4=Asian Indian, 5=Chinese, 6=Filipino, 7=Japanese, 8=Korean, 9=Vietnamese, 10=Other Asian, 11=Native Hawaiian, 12=Guamanian or Chamorro, 13=Samoan, 14=Other Pacific Islander and 15=Other.

Examples:

“White” checkbox is checked and write-in is “Irish,” then code as White, “01”.

“Black” checkbox is checked and write-in is “Nigerian,” then code as Black, “02”.

Multiple American Indian tribes or Alaskan Natives are mentioned, then code as AIAN, “03”.

“Chinese” checkbox is checked and write-in is “Taiwanese,” then code as Chinese, “05”.

When multiple race codes are reported and they all are Asian and/or Pacific Islanders, code as Bridged API, “24”.

Example:

“Chinese” and “Japanese” check boxes checked, then code is “24”.

When one delineated group is reported with one or more “Some Other Race”, the former code is used.

Example:

“White” checkbox is checked and “Bolivian” is a literal write-in, then code as White, “01”.

When more than one basic race group is reported (White, Black, AIAN, API), a “bridging probability matrix” is applied. The current probability matrix is indexed by five variables:

Residence (FIPS State and county),

Age (<1, single years 1 through 69 and 70+),

Sex,

Ethnicity (Non-Hispanic/Hispanic), and

Basic race combination

(White/Black, White/AIAN, White/API, Black/AIAN, Black/API, AIAN/API,

White/Black/AIAN, White/Black/API, Black/AIAN/API, White/Black/AIAN/API).

Each event with multiple reported races is assigned a pseudo-probability that is generated using the last three digits of the certificate number; the order of the digits is then reversed, and the resulting value is divided by 1000. When the assigned pseudo-probability is less than or equal to the cut point (a probability) dictated by the bridging probability matrix, the assigned code is that of the first basic race. If the assigned pseudo-probability is greater than the matrix’s cut point, then the second basic race is selected as the bridged code. The bridging probability matrix includes two cut points for three-race combinations. The bridging code for the latter basic race is used when the pseudo-probability is greater than the second critical value indicated by the bridging matrix. Similarly, three cut points are included for the matrix consisting of the combination of the four basic races (White/Black/AIAN/API).

Examples:

Certificate number: 023001.

Assigned pseudo-probability: 0.100

White/Black matrix probability cut point: 0.200

Assigned bridged race: White, "21"

Certificate number: 023003.

Assigned pseudo-probability: 0.300

White/Black matrix probability cut point: 0.200

Assigned bridged race: Black, "22"

Certificate number: 023302.

Assigned pseudo-probability: 0.203

White/Black/API matrix probability cut points: 0.100 and 0.300

Assigned bridged race: Black, "22"