# Technical Notes

## **TECHNICAL NOTES**

#### **SOURCES OF DATA**

BIRTHS, DEATHS, AND FETAL DEATHS: Birth, death, and fetal death certificates are the source documents for Delaware resident vital events data. A copy of each type of certificate is included as Appendices F, G and H.

The cut-off date for data in this report was October 31<sup>st</sup>. If a certificate was filed after this date, the data pertaining to that event will not be included in this report, but will be available directly from the Delaware Health Statistics

Center (DHSC). Due to the update and addition of records filed after the close of this report, discrepancies may be found between this report and data issued directly from DHSC. The data received directly from DHSC should be considered the most current and accurate data available.

This report also includes Delaware resident births and deaths that occurred in another state. The inclusion of these data is made possible by the State and Territorial Exchange of Vital Events (STEVE) system created by the National Association for Public Health Statistics and Information (NAPHSIS). States not using STEVE to share vital event data with other states and the National Center for Health Statistics (NCHS) agree to send copies of resident certificates.

MARRIAGES AND DIVORCES: Each of Delaware's three counties has a state office for filing marriage certificates. The Office of Vital Statistics in the Division of Public Health's central office in Dover uploads all of the certificate data into the Electronic Vital Record System (EVRS). Copies of divorce certificates are forwarded to the Office of Vital Statistics from the Delaware Family Court system so that certain selected data items can be processed for statistical purposes. A copy of each of these certificates is included as Appendices I and J.

INDUCED TERMINATIONS OF PREGNANCY: As of January 1, 1997, all induced terminations of pregnancy (ITOP) are required to be reported to the Department. Reports of induced termination of pregnancy are filed directly with the DHSC and are only used for statistical purposes. Once all reports for the data year are coded, they are shredded and discarded. ITOP records are not exchanged among the States, therefore events to Delaware residents occurring out-of-state are not included in this report. A copy of the reporting form is included as Appendix K.

REPORTED PREGNANCIES: Reported pregnancies include the combination of live births, fetal deaths, and ITOPs, thereby producing comprehensive information regarding pregnancies and pregnancy outcomes. As a result, pregnancy rates can give a better understanding as to why the live birth rate in either two or more geographical areas or within the same area at different points of time are different. The pregnancy rate can determine if the differences are due to the rate of pregnancy, the differences in pregnancy outcomes (i.e., live birth, fetal death, or ITOP) or a combination of these factors. It should be kept in mind that both births and fetal deaths of Delaware residents are reported regardless of state of occurrence, while induced terminations are reported for only those that occur in Delaware.

**POPULATION PROJECTIONS:** The state, county and city population figures used in this report are estimates and projections produced by the Delaware Population Consortium (DPC). The DHSC is a member of the DPC and supplies birth and death data used in making the projections. The most recent projections for Delaware's population by age, race, sex, and geographic location are available at

http://stateplanning.delaware.gov/information/dpc\_projections.shtml.

#### DATA QUALITY

**QUERY AND FIELD PROGRAMS:** The quality of vital statistics data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates and forms. The DHSC works with the Office of Vital Statistics to ensure that the information received is as complete and accurate as possible. The Office of Vital Statistics operates both the query and field programs related to improving the quality of information received on vital records.

The query program is a system used to correspond with hospital and clinic personnel, funeral directors and/or physicians concerning data quality problems. The field program attempts to improve vital statistics data quality by educating the participants in the vital registration system (i.e., hospital personnel, funeral directors, physicians, etc.) of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars/conferences for participants and their associations.

The National Center for Health Statistics (NCHS) monitors Delaware's coding of statistical data on death certificates. A 20 percent sample of death records coded and submitted monthly by the state are used as a quality control mechanism by NCHS. NCHS codes these sample records independently and then conducts an item-by-item

computer match of codes entered by the state and NCHS. NCHS has established an upper limit of two percent for coding differences involving any one data item of these sample records, with the exception of cause of death. NCHS independently codes cause of death information.

computer EDITS AND DATA PROCESSING: Another dimension of data quality is related to the procedures and methodologies used in preparing the data for presentation. Beginning with the 1991 Annual Vital Statistics Report, methodologies for editing and processing vital data were standardized to match the procedures used by NCHS in tabulating national vital statistics data. These procedures include checking for valid codes, computation of data items (e.g., age, live-birth order, weeks of gestation, duration of marriage, interval between divorce and remarriage), consistency checks between data items (e.g., age and education), and imputation of missing values.

**FETAL DEATHS:** In terms of the completeness of the data, the reporting of deaths and live births is considered to be virtually complete. However, in Delaware, a spontaneous termination of pregnancy is not required to be reported when the fetus weighs less than 350 grams, when the weight is unattainable, or when the duration of pregnancy is less than 20 weeks. National estimates (Ventura, Taffel and Mosher, 1985) indicate that over 90 percent of all spontaneous terminations of pregnancy may occur before this 20-week period and thus go unreported. In addition, the exchange agreement among states for resident fetal death records is problematic due to different reporting requirements; it is unknown whether complete exchange is taking place. The result is that a large number of spontaneous terminations may not be reported.

#### GEOGRAPHY ALLOCATION

In Delaware's registration program, as in other states, vital events are classified geographically in two ways. The first way vital events are classified geographically is by place of occurrence (i.e., the actual state and county in which the birth or death took place). The second and more customary way is by place of residence (i.e., the state, county, and census tract) stated to be the usual residence of the decedent in the case of death, or of the mother in the case of a newborn.

While occurrence statistics are accurate and have both administrative value and some statistical importance, residence statistics are by far the more useful tool in developing health indices for planning and evaluation purposes.

The natality and mortality statistics provided in this report are based upon Delaware residence data. Allocation of

place of residence depends entirely on a statement of the usual place of residence furnished by the informant at the time the original certificate is completed. However, the marriage and divorce statistics are occurrence data. This is primarily due to the fact that two separate residences are usually involved in a marriage or a divorce, and there are no accepted standard procedures for classification of residence in these events.

Most of the data provided in this report are available at the census tract level. This information can be obtained by contacting the DHSC.

#### **BIRTH WEIGHT**

This report presents birth weight in grams in order to provide data comparable to that published for the United States and other countries. For those live birth certificates where birth weight is reported in pounds and ounces, DHSC converts the birth weight into grams.

The equivalents of the gram intervals in pounds and ounces are as follows:

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499 grams or less = 1 lb. 1 oz. or less 500 - 999 grams = 1 lb. 2 ozs. - 2 lbs. 3ozs.

1,000 - 1,499 grams = 2 lbs. 4 ozs. - 3 lbs. 4ozs.

1,500 - 1,999 grams = 3 lbs. 5 ozs. - 4 lbs. 6ozs.

2,000 - 2,499 grams = 4 lbs. 7 ozs. - 5 lbs. 8ozs. 2,500 - 2,999 grams = 5 lbs. 9 ozs. - 6 lbs. 9ozs.

3,000 - 3,499 grams = 6 lbs. 10 ozs. - 7 lbs. 11ozs.

3,500 - 3,999 grams = 7 lbs. 12 ozs. - 8 lbs. 12ozs.

4,000 - 4,499 grams = 8 lbs. 13 ozs. - 9 lbs. 14ozs.

4,500 - 4,999 grams = 9 lbs. 15 ozs. - 11 lbs. 0ozs.

5,000 grams or more = 11 lbs. 1 oz. or more
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#### **RATES**

Absolute counts of births and deaths do not readily lend themselves to analysis and comparison between years and various geographic areas because of differences in population characteristics (e.g., age, sex, and race). In order to account for such differences, the absolute number of events is converted to a relative number such as a percentage, rate, ratio, or index. These conversions are made by relating the number of events to the population at risk in a particular area at a specified time.

Precautions should always be taken when comparing any rates based on vital events. Both the number of events and the characteristics of the population are important to take into account when interpreting a rate. Historical rates may change from one annual report to another due to refinements in population estimates. Therefore, historical trends should not be examined by comparing rates from previous annual reports.

All statistics are subject to random variation.<sup>1</sup> Rates based on a relatively small number of events tend to be subject to more random variation than rates based on a large number of events.

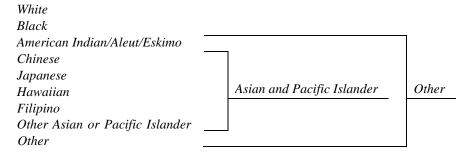
In addition to the problem of small numbers, demographic characteristics of populations (i.e., age, race and sex) can affect the comparability of rates. Since mortality rates vary substantially by age, race and sex, comparisons between rates from populations that differ in these characteristics could be misleading. However, there are two methods that can be used separately or in combination to improve the comparability of mortality rates. The first method involves comparing rates for specific age, race, and/or sex groups in the populations of interest. With this method, the rates are easily calculated and very specific groups may be compared. However, when very specific groups are compared the numbers are often small, and relationships between the overall populations are difficult to determine.

The second method is a more sophisticated technique that statistically "adjusts" for demographic differences between populations and allows direct comparisons between overall population rates.

The major disadvantages of adjusted rates are that they can be cumbersome to calculate without the aid of a computer and they only have meaning when compared to other rates adjusted in the same manner.

#### <u>RACE</u>

All Delaware vital records contain an item(s) regarding race. Race is self-reported in all records except on death certificates where it is provided by an informant. Although the question allows for a free form response, all race data are grouped for purposes of data analysis into the following categories established by NCHS:



The categories *Chinese*, *Japanese*, *Hawaiian*, *Filipino*, and *Other Asian or Pacific Islander* can be combined to form the category *Asian or Pacific Islander*. For purposes of this report, *American Indian/Aleut/Eskimo*, *Chinese*, *Japanese*, *Hawaiian*, *Filipino*, *Other Asian or Pacific Islander*, and *Other* have been combined to form the category *Other*.

<sup>&</sup>lt;sup>1</sup> See Appendix A for details.

In the case of death, race of decedent from the death certificate is reported in all tables except in the birth cohort (see next paragraph). However, in the case of birth and fetal death, race is indicated on the birth and fetal death certificates for the mother and father only (i.e., race of the newborn is not given). Consequently, birth and fetal death data are reported by race of the mother in most tables throughout this report. However, some tables containing historical birth data prior to 1989 are reported by race of child. For these tables, race of child was imputed using criteria established by NCHS.

In the birth cohort section of this report, birth certificate data for infants dying in the first year of life are combined with information from their death certificates. Therefore, data are available for race of the mother and race of the deceased infant for each case. In the vast majority of these cases, the race listed for the mother and infant are the same. However, in a small number of cases the race of the mother and infant differ. To maintain consistency with data in the natality section, race of the mother is used for all tables in the birth cohort section.

#### HISPANIC ORIGIN

Beginning in 1989, a specific question regarding Hispanic origin was added to the birth and death certificates. This question is considered to be separate from the Race question. Therefore, a person may report Hispanic origin in combination with any race category. The Hispanic question has two parts. The first simply asks whether the person is of Hispanic origin (Yes or No). The second part is a free-form item that asks for the specific origin (e.g., *Cuban, Mexican, Puerto Rican*, etc.).

#### MISSING INFORMATION REGARDING FATHERS

The Delaware vital statistics law specifies that information regarding the father should not be entered on the birth certificate if the mother is single. As such, there is no information regarding the father for the vast majority of births to single mothers. However, in a few cases, information about the father was entered on the certificate when the mother was single. Some tables in the natality section (e.g., births to parents of Hispanic origin) may contain information regarding the father that includes such cases.

Beginning on January 1, 1995, a new program was instituted to allow fathers to acknowledge paternity through completion of a simple form in cases where the mother and father are not married. This form can be completed

at any time up to the child's eighteenth birthday. When such acknowledgments are completed at the hospital at the time of birth, the DHSC is able to add father information to its electronic data base.

# **SOURCE OF PAYMENT FOR DELIVERY**

Beginning with the 1991 data year, the Center began obtaining information regarding the source of payment for delivery on birth certificates (private insurance, Medicaid, and self\_pay). However, this information was not available for all Delaware resident mothers giving birth in other states (approximately 5 percent of all resident births). For purposes of this report, all such mothers were assigned to the private insurance category. This assignment was based on detailed analyses of the characteristics of these mothers. These analyses indicated that the demographic characteristics of these mothers very closely matched the characteristics of Delaware resident mothers who gave birth within the State and had private insurance listed as their source of payment. Furthermore, an examination of Medicaid data indicated that it is extremely rare for Medicaid mothers to give birth out-of-state.

#### 2000 POPULATION STANDARD

Beginning with the 1999 report, all mortality rates were age-adjusted using the projected 2000 U.S. population standard. All previous versions of the vital statistics report used the 1940 U.S. population standard from the census of the same year. All historical mortality data have been adjusted to the new standard to allow comparisons over time. Comparisons between rates using the old standard and the new standard are not valid and should not be made.

A more detailed explanation of the rationale for updating the population standard can be found in a special report from NCHS (Anderson and Rosenberg, 1998).

# Appendices

# **APPENDIX A**

#### RANDOM VARIATION

In this report, the number of vital events represent complete counts for the U.S., Delaware, and county populations. Therefore, they are not subject to sampling error, although they are subject to certain errors in the registration process such as age misreporting. However, the number of events and the corresponding rates are subject to random variation. That is, the rates that actually occurred may be considered as one of a large number of possible outcomes that could have arisen under the same circumstances (National Office of Vital Statistics, 1961). As a result, rates in a given population may tend to fluctuate from year to year even when the health of the population is unchanged. Random variation in rates based on a relatively small number of events, tends to be larger than for rates based upon events that occur more frequently. Delaware rates for some events (e.g., infant deaths) are particularly subject to such variations due to the small number of events that occur by definition in a relatively small population. Therefore, caution should be exercised when drawing conclusions about rates based on small numbers.

The issue of random variation was handled in two ways in this report. First, multi-year average rates were reported instead of annual rates. This tended to reduce the effects of random variation since the number of events in a five-year period was much larger. Second, tests of statistical significance were used to make comparisons between rates when appropriate. These statistical tests were used to determine the chance that the observed differences would occur in populations with equal rates by random variation alone. The methods used to calculate infant mortality rates are described in Appendix B.

## APPENDIX B

# METHODS FOR CALCULATION AND STATISTICAL ANALYSIS OF FIVE-YEAR AVERAGE INFANT MORTALITY RATES

Due to the small number of infant deaths in Delaware, slight year-to-year changes in the number of deaths can lead to substantial fluctuations in annual rates. In many cases, this problem makes interpretation of annual rates extremely difficult, if not impossible. Since there is far less random fluctuation in five-year average (FYA) rates, they are much better for assessing the health status of infants in Delaware.<sup>2</sup> When rolling FYA rates (e.g., rates for 1980-1984, 1981-1985, and 1982-1986) are used, the patterns of changes in infant mortality over a number of years can be determined.

A description of the methods used to calculate the running FYA rates and the statistical methodology used to compare infant mortality rates are described below.

**FIVE-YEAR AVERAGE INFANT MORTALITY RATES:** Running FYA infant, neonatal, and postneonatal mortality rates (see Definitions) were calculated by race for the U.S., Delaware, and Delaware's three counties. The rates (i.e., infant, neonatal, or postneonatal) were computed by dividing the total number of deaths over each five-year period by the total number of live births over the same five-year period and multiplying the result by 1,000.

## STATISTICAL TESTS:

Confidence intervals for rates based on fewer than 100 deaths:

$$LCL = R_1 * L(.95, D_{adj})$$

$$UCL = R_1 * U(.95, D_{adj})$$

$$where \ D_{adj} = \frac{D * B}{D + B}$$

L and U are upper and lower confidence factors based on a gamma distribution with parameter  $D_{adi}$ .

<sup>&</sup>lt;sup>2</sup>See Appendix A for a description of random variation and rationale for use of five-year average rates.

Confidence intervals for rates based 100 or more deaths:

$$R_1 \pm 1.96 * SE$$
  
where  $SE(R_1) = R_1 * \frac{RSE(R_1)}{100}$   
and  $RSE(R_1) = 100 * \sqrt{\frac{1}{D} + \frac{1}{B}}$ 

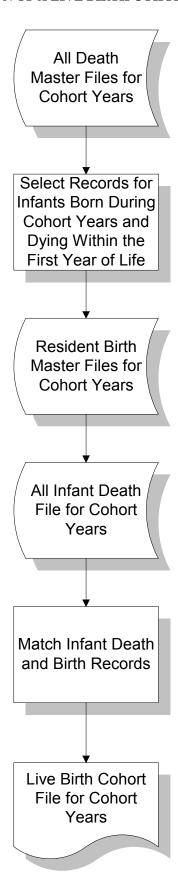
Comparison of two infant mortality rates - When the number of events for one or both of the rates was less than 100, comparisons between rates were based on the confidence intervals for each. If they overlapped, the difference was not significant. When the number of events for both rates was 100 or more, the following z-test was used to define a significant test statistic:

$$z = \frac{R_1 - R_2}{\sqrt{R_1^2 \left(\frac{RSE(R_1)}{100}\right)^2 + R_2^2 \left(\frac{RSE(R_2)}{100}\right)^2}}$$

If  $|z| \ge 1.96$  then the difference between the rates was statistically significant at the 0.05-level.

# APPENDIX C

#### CREATION OF A LIVE BIRTH COHORT FILE



# APPENDIX D

# COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF INFANT DEATH

Cause of death	Category codes according to			
	ICD-10 <sup>1</sup>	ICD-9 <sup>2</sup>		
Diarrhea and gastroenteritis of infectious origin	A09	009		
Tuberculosis	A16–A19	010-018		
Tetanus	A33,A35	037,771.3		
Diptheria	A35,A35 A36	037,771.3		
Whooping cough	A30 A37	032		
Meningococcal infection	A39	036		
Septicemia	A40-A41	038		
Congenital syphilis	A50	090		
Gonococcal infection	A54	098		
Acute poliomyelitis	A80	045		
Varicella (chickenpox)	B01	052		
Measles	B05	055		
Human immunodeficiency virus (HIV)	B20-B24	042-044		
Mumps	B20-B24 B26	072		
Candidiasis	B37	112		
		084		
Malaria Proumopyotogia	B50–B54 B59	136.3		
Pneumocystosis Malignant Neoplasms	C00-C97			
		140-208		
In situ, benign, and neoplasms of uncertain or unk behavior	D00-D48	210-239		
Diseases of blood and blood-forming organs and certain disorders involving the immune mechanism	D50-D89	135,279-289		
Short stature, not elsewhere classified	E34.3	259.4		
Nutritional deficiencies	E40-E64	260-269		
Cystic fibrosis	E84	277.0		
Volume depletion, disorders of fluid, electrolyte and acid-base				
balance	E86-E87	276		
Meningitis	G00,G03	320-322		
Infantile spinal muscular atrophy, type I	G12.0	335.0		
Infantile cerebral palsy	G80	343		
Anoxic brain damage, not elsewhere classified	G93.1	348.1		
Diseases of the ear and mastoid process	H60-H93	380-389		
Diseases of the circulatory system	100-199	390-434,436-459		
Acute upper respiratory infections	J00-J06	034.0,460-465		
Influenza and pneumonia	J10-J18	480-487		
Acute bronchitis and bronchiolitis	J20-J21	466		
Bronchitis, chronic and unspecified	J40-J42	490-491		
Asthma	J45-J46	493		
Pneumonitis due to solids and liquids	J69	507		
Gastritis, duodenitis, and noninfective enteritis and colitis	K29,K50-K55	535,555-558		
Hernia of abdominal cavity and intestinal obstruction without hernia	K40-K46,K56	550-553,560		
Renal failure and other disorders of kidney	N17-N19,N25,N27	584-589		
Newborn affected by maternal hypertensive disorders	P00.0	760.0		
Newborn affected by other maternal conditions which may be unrelated to present pregnancy	P00.1-P00.9	760.1-760.6,760.8- 760.9		
Newborn affected by maternal complications of pregnancy	P01	761		
Newborn affected by complications of placenta, cord, and membranes	P02	762		

# APPENDIX D (cont.)

# COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF INFANT DEATH

Course of death	Category	codes according to
Cause of death	ICD-10 <sup>1</sup>	ICD-9 <sup>2</sup>
Newborn affected by other complications of labor and delivery Newborn affected by noxious influences transmitted via placenta	P03	763.0-763.4,763.6-763.9
or breast milk	P04	760.7,763.5
Slow fetal growth and fetal malnutrition	P05	764
Disorders related to short gestation and low birth weight, not elsewhere classified	P07	765
Disorders related to long gestation and high birth weight	P08	766
Birth trauma	P10-P15	766 767
ntrauterine hypoxia and birth asphyxia	P20-P21	768
Respiratory distress of newborn	P22	769
Congenital pneumonia	P23	770.0
leonatal aspiration syndrome	P24	770.1
nterstitial emphysema and related conditions originating in the	1 24	770.1
erinatal period	P25	770.2
ulmonary hemorrhage originating in the perinatal period	P26	770.3
Chronic respiratory disease originating in the perinatal period	P27	770.7
telectasis	P280P28.1	770.4-770.5
Bacterial sepsis of newborn	P36	771.8
Omphalitis of newborn with or without mild hemorrhage	P38	771.4
leonatal hemorrhage	P50-P52,P54	772
lemorrhagic disease of newborn	P53	776.0
lemolytic disease of newborn due to isoimmunization and other	P55-P59	
erinatal jaundice		773-774
lematological disorders	P60-P61	776.1-776.9
Syndrome of infant of a diabetic mother and neonatal diabetes	P70.0-P70.2	
nellitus		775.0-775.1
lecrotizing enterocolitis of newborn	P77	777.5
lydrops fetalis not due to hemolytic disease	P83.2	778.0
Congenital malformations, deformations, and chromosomal	000 000	740 750
bnormalities Sudden infant death syndrome	Q00-Q99	740-759
accidents	R95	798.0
lomicide	V01-X59	800-869,880-929
	X85-Y09	960-968
Complications of medical and surgical care	Y40-Y84,Y88	E870-E879,E930-E949

<sup>1.</sup> International Classification of Diseases, Tenth Revision.

<sup>2.</sup> International Classification of Diseases, Ninth Revision.

# APPENDIX E

## COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF DEATH

Cause of death	Category codes according to				
oddoc or dediri	ICD-10 <sup>1</sup>	ICD-9 <sup>2</sup>			
Salmonella infections	A01-A02	002-003			
Shigellosis and amebiasis	A03,A06	004,006			
Tuberculosis	A16–A19	010-018			
Whooping cough	A37	033			
Scarlet fever and erysipelas	A38,A46	034.1-035			
Meningococcal infection	A39	036			
Septicemia	A40-A41	038			
Syphilis	A50–A53	090-097			
Acute poliomyelitis	A80	045			
Arthropod-borne viral encephalitis	A83-A84,A85.2	062-064			
Measles	B05	055			
Viral hepatitis	B15–B19	070			
Human immunodeficiency virus (HIV)	B20-B24	042-044			
Malaria	B50-B54	084			
Malignant Neoplasms	C00-C97	140-208			
In situ, benign, and neoplasms of uncertain or unk	000-037	140-200			
behavior	D00-D48	210-239			
Anemias	D50-D64	280-285			
Diabetes mellitus	E10-E14	250			
Nutritional deficiencies	E40-E64	260-269			
Meningitis	G00,G03	320-322			
Parkinson's disease	G20-G21	332			
Alzheimer's Disease	G30	331.0			
Diseases of the Heart	100-109, 111, 113, 120-151	390-398, 402, 404, 410-429			
Essential (primary) hypertension and hypertensive					
renal disease	I10, I12	401, 403			
Cerebrovascular Diseases	160-169	430-434, 436-438			
Atherosclerosis	170	440			
Aortic aneurysm and dissection	I71	441			
Influenza and pneumonia	J10-J18	480-487			
Acute bronchitis and bronchiolitis	J20-J21	466			
Chronic Lower Respiratory Diseases	J40-J47	490-494, 496			
Pneumoconioses and chemical effects	J60-J66,J68	500-506			
Pneumonitis due to solids and liquids	J69	507			
Peptic ulcer	K25-K28	531-534			
Disease of the appendix	K35-K38	540-543			
Hernia	K40-K46	550-553			
Chronic liver disease and cirrhosis	K70, K73-K74	571			
Cholelithiasis and other disorders of gallbladder	K80-K82	574-575			
Nephritis, nephrotic syndrome, and nephrosis	N00-N07, N17-N19, N25-N27	580-589			
Infections of kidney	N10-N12,N13.6,N15.1	590			
Hyperplasia of prostate	N40	600			
Inflammatory disease of female pelvic organs	N70-N76	614-616			
Pregnancy, childbirth and the puerperium	O00-O99	630-676			
Certain conditions originating in the perinatal period	P00-P96	760-771.2, 771.4-779			

# **APPENDIX E (cont.)**

## COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF DEATH

Cause of death	Category code	es according to
Cause of death	ICD-10 <sup>1</sup>	ICD-9 <sup>2</sup>
Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99	740-759
Accidents (unintentional injuries)	V01-X59,Y85-Y86	E800-E869, E880-E929
Intentional self-harm (suicide)	*U03, X60-X84,Y87.0	E950-E959
Assault (Homicide)	*U01-*U02, X85-Y09, Y87.1	E960-E969
Legal intervention	Y35,Y89.0	E970-E978
Operations of war and their sequelae	Y36,Y89.1	E990-E999
Complications of medical and surgical care	Y40-Y84,Y88	E870-E879,E930-E949

International Classification of Diseases, Tenth Revision.
 International Classification of Diseases, Ninth Revision.

## **APPENDIX F**

#### STATE OF DELAWARE CERTIFICATE OF LIVE BIRTH

STATE OF DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES

STATE FILE# CERTIFICATE OF LIVE BIRTH 4. DATE OF BIRTH (Mo/Day/Yr) 1 CHILD'S NAME (First Middle Last Suffix) TIME OF BIRTH CHILD (24HB) 5. FACILITY NAME (If not institution, give street and number) 6. CITY, TOWN, OR LOCATION OF BIRTH 7. COUNTY OF BIRTH 8a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) 8b. MOTHER'S DATE OF BIRTH (Mo/Day/Yr) MOTHER Bc. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix) 8d BIRTHPLACE (State, Territory, or Foreign Country) 9a RESIDENCE OF MOTHER-STATE Sh colinty 9c GITY TOWN OR LOCATION 9d. STREET AND NUMBER 9f. ZIP CODE 9g. INSIDE CITY LIMITS? 10c. BIRTHPLACE (State, Territory, or Foreign Country) 10b DATE OF BIRTH (Mo/Day/Yr) 10a FATHER'S CURRENT LEGAL NAME (First Middle, Last Suffix) **FATHER** 12 DATE CERTIFIED 13. DATE FILED BY REGISTRAR TITLE: 

MD DO HOSPITAL ADMIN. 

CNM/CM OTHER MIDWIFE CERTIFIER MM DD YYYY MM DD YYYY OTHER (SPECIFY) INFORMATION FOR ADMINISTRATIVE USE 14. MOTHER'S MAILING ADDRESS: Same as residence, or MOTHER 17 FACILITY ID (NPI) STREET & NUMBER:
15. MOTHER MARRIED?

Yes No APARTMENT NO. SOCIAL SECURITY NUMBER REQUESTED FOR CHILD? ED? (At birth, conception, or any time between IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED IN THE HOSPITAL?

☐ Yes ☐ No

18. MOTHER'S SOCIAL SECURITY NUMBER. 19. FATHER'S SOCIAL SECURITY NUMBER: INFORMATION FOR MEDICAL AND HEALTH PURPOSES ONLY MOTHER'S EDUCATION (Check the box that beat describes the highest degree or level of school completed at the time of delivery) MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be) MOTHER OF HISPANIC ORIGIN? (Check the box that best describes whether the mother is Spanish/Hispanic/Latina. Check the "No" box if mother is not Spanish/Hispanic/Latina) MOTHER ☐ White☐ Black or African American☐ American Indian or Alaska Native☐ (Name of the enrolled or principal tribe)☐ B<sup>®</sup> grade or less
B<sup>®</sup> - 12<sup>®</sup> grade, no diploma
High school graduate or GED completed
Some college credit but no degree
Associate degree (e.g., AA, AS)
Bachelor's degree (e.g., BA, BS)
Master's degree (e.g., MA, MS,
MEngMEd, MSW, MBA)
Doctorate (e.g., PhD, EdD) or
Professional degree (e.g., MD, DDS,
DVM, LLB, JD) ☐ No, not Spanish/Hispanic/Latina | Name of the enrolled or principal tribe |
| Asian Indian | Chinese |
| Flipino |
| Japanese |
| Korean |
| Vietnamese |
| Other Asian (Specify) |
| Native Hawkiian |
| Guamanian or Chamorro |
| Samoan |
| Other Pacific Islander (Specify) |
| Other (Specify) | ☐ Yes Mexican Mexican American Chicana MOTHER'S MEDICAL RECORD NO. ☐ Yes, Puerto Rican Yes, Cuban Yes, other Spanish/Hispanic/Latina (Specify) Predominant Race PATHER'S RACE (Check one or more races to indicate what the father considers himself to be) 23. FATHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) 24.FATHER OF HISPANIC ORIGIN? (Check the box that best describes whether the father is Spanish/Hispanic/Latino. Check the 'No" box if father is not Spanish/Hispanic/Latino) FATHER father considers himself to be)

White
Black or African American
American Indian or Alaska Native
(Name of the enrolled or principal tribe)
Asian Indian
Chinese
Filipino
Japanese
Korean
Victnamese
Other Asian (Specify)
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander (Specify)
Other (Specify) 8<sup>th</sup> grade or less
9<sup>th</sup> - 12<sup>th</sup> grade, no diploma
High school graduate or GED completed
Some college credit but no degree
Associate degree (e.g., AA, AS)
Bachelor's degree (e.g., BA, AB, BS)
Master's degree (e.g., MA, MS, MEng,
M Ed., MSW, MBA)
Doctorate (e.g., Ph.D., EdD) or
Professional degree (e.g., MD, DDS,
DVM, LLB, JD) □ No. not Spanish/Hispanic/Latino Yes, Mexican, Mexican American, Chicano T Yes Puerto Rican Yes, Cuban ☐ Yes. other Spanish/Hispanic/Latino (Specify) \_\_\_ MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY? 26. PLACE WHERE BIRTH OCCURRED 27. ATTENDANT'S NAME, TITLE, AND NPI STATE 20. PLACE WHERE SHITH OCCURRED
(Check one)
| Hospital
| Freestanding birthing center
| Home Birth: Planned to deliver at home?
| Yes | No
| Clinic/Doctor's office USE ONLY IF YES, ENTER NAME OF FACILITY MOTHER TRANSFERRED FROM: TITLE MD DO COM/CM o s office ☐ Clinic/Doctor's o DPH REV 4/2005 OTHER (Specify)

# **APPENDIX F (cont.)**

# STATE OF DELAWARE CERTIFICATE OF LIVE BIRTH STATISTICAL SECTION

	29a. DATE O	F FIRST PRENAT	FAL CARE	29b.	DATE OF LAST PRENATAL CARE VISIT			OF PRENATAL VISITS FOR THIS		
MOTHER	VISIT /	/ISIT No Prenatal Care			1 1	PR	PREGNANCY			
1908 A D 1908 A	MM DD Y	YYY			MM DD YYYY			(If none, enter "0")		
	31. MOTHER'S	SHEIGHT	32 MOTHER'S PRE-PREGNANCY	33.	MOTHER'S WEIGHT AT DELIVERY	34. DID N	MOTHER GET WI SNANCY?	C FOOD FOR HERSELF DURING THIS		
	(feet/i	nches)	WEIGHT (pounds)		(pounds)	□YE	S NO			
	35. NUMBER		36. NUMBER OF OTHER		GARETTE SMOKING BEFORE AND DURING PREGNAM			38. PRINCIPAL SOURCE OF		
	LIVE BIRT include th	HS (Do not his child)	PREGNANCY OUTCOMES		For each time period, enter the number of cigarette F NONE, ENTER "0" Average number of cigarettes	or packs		PAYMENT FOR THIS DELIVERY		
	100000000000000000000000000000000000000	TO THE TAX	(Spontaneous or induced losses or		of cigarettes smoked per day	and the second		El December landers		
			ectopic pregnancies)		# of Cigarettes	# or packs		☐ Private Insurance		
	35a	35b.	36a OTHER	Th	ree Months Before Pregnancy OF			☐ Medicaid		
	Now Living	Now Dead	OUTCOMES	F	rst Three Months of Pregnancy OF			☐ Self pay		
	Number	Number	NUMBER	S	acond Three Months of Pregnancy OF OR OR			Other (Specify)		
	122000000	-	Charles and							
	☐ None	☐ None	None					A		
	35c DATE O	FLASTLIVE	36b. DATE OF LAST OTHER		39. DATE LAST NORMAL MENSES BEGAN	0 1	40. M	OTHER'S MEDICAL RECORD NUMBER		
	BIRTH		PREGNANCY OUTCOME							
	MM disk sec	YYYY TORG IN THIS D	MM YYYY  REGNANCY (Check all that apply)	1	MM DD YYYY  44 ONSET OF LABOR (CHECK ALL THAT APPLY)	1 46	METHOD OF D	EU IURIDY		
MEDICAL	DOMESTIC CONTRACT	TORS HE THIS F	resilver (check all that apply)	P:	Control of the Contro	1180				
AND	Diabetes	egnancy (Diac	mosis prior to this pregnancy)		☐ Premature Rupture of Membranes (prolonged, >= 12 hrs.)		Was delive unsuccessful?	ry with forceps attempted but		
HEALTH	☐ Gestati	ional (Diagnos	sis in this pregnancy)		(prolonged, >= 12 hrs.) Yes No					
100 per		egnancy (Chro	nic)		☐ Precipitous Labor (< 3 hrs.)		delivery with vacuum extraction attempted			
INFORMATION	☐ Gestati	ional			Prolonged Labor (>= 20 hrs.)		but unsuccess	iful?   Yes   No		
	☐ Previous	preterm birth			CONTROL OF					
	U Other pre	ivious poor prej al death, smail-	gnancy outcome (includes for-gestational age/intrauterine		☐ None of the Above	C	Fetal presenta  Cephalic	tion at birth		
	growth	restricted birth	) infertility treatment-if yes, chec				☐ Breech ☐ Other			
	all that a	pply:	N OF STREET							
		rtility-enhancing terine insemina	drugs, Artificial insemination of	c		D.	Final route and Vaginal/Sp	d method of delivery (Check one)		
	☐ Ass	sisted reproduc	tive technology (e.g. in vitro nete intrafallopian transfer				☐ Vaginal/Fo☐ Vaginal/Va	rceps		
	[GIFT]	D					☐ Cesarean	cuum		
		ad a previous c	esarean delivery				If cesarean	was a trial of labor attempted?		
	☐ None of t	he above		100				Yes No		
		NS PRESENT AN			45. CHARACTERISTICS OF LABOR AND DELIVERY	47	apply)	PRBIDITY (Check all that		
	(Check a	all that apply)			☐ Induction of labor ☐ Augmentation of labor		(Complication and delivery	ns associated with labor		
	☐ Gonorrhe	aa.			☐ Non-vertex presentation		1			
	Syphilis Chlamydi	а			Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to		Maternal tran	sfusion		
	☐ Hepatitis	В			delivery			h degree perineal		
	☐ Hepatitis ☐ None of t				Antibiotics received by the mother during labor		laceration			
	43 DESTET	DIC DOOCEDING	S (Check all that apply)		Clinical chorioamnionitis diagnosed during labor or maternal temperature >38° C		Ruptured ute	rus		
	100		to (Check an mar alvhis)		(100.4°F)		Unplanned h	ysterectomy		
	☐ Cervice	al cerclage			☐ Moderate/heavy meconium staining of the amniotic fluid		Admission to	intensive care unit		
		halic version:			Fetal intolerance of labor such that one or more of the following actions was taken:		I Hanlanand a	perating room procedure		
	☐ Su	ccessful			in-utero resuscitative measures, further	-	following del			
	☐ Fai	led of the above			fetal assessment, or operative delivery		None of the a	above		
					☐ Epidural or spinal anesthesia during labor					
	7		100		None of the above					
- 65	10		190	1	NEWBORN INFORMATION	1 86 -				
NEWBORN	48 NEWBOR	RN MEDICAL REC	ORD NUMBER	54	ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)			DMALIES OF THE k all that apply)		
MEMBORN	AG powers	DOLOT (growns W	placed continues			70.50		**************************************		
	HO. BRIHWE	auni (grams pr	eferred, specify unit)		Assisted ventilation required immediately following delivery	☐ Me		le/Spina bifida		
		grams	□ lb/oz		Assisted ventilation required for more than six	□ Cy	anotic congeni	ital heart disease ragmatic hernia		
	50. OBSTET	RIC ESTIMATE O	FIGESTATION	٦,	Hours NICU admission	□ Or	nphalocele			
			(completed weeks)		Newborn given surfactant replacement therapy		istroschisis nb reduction de	efect (excluding		
	51. APGAR S	SCORE		1000	Antibiotics received by the newborn for	co		ation and dwarfing		
	THE STATE OF THE S				suspected neonatal sepsis Seizure or serious neurologic dysfunction	☐ CI	oft Lip with or v	without Cleft Palate		
	Score at 5 m	N. 1000000			Significant birth injury (skeletal fracture(s),	□ Do	eft Palate alone wn Syndrome			
	If 5 minute	score is less t	than 6,		peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)	1	Karyotype co Karyotype pe	onfirmed		
	Score at 10	minutes		_ D	None of the above	□ Su	spected chrom	nosomal disorder		
	52. PLURALI	TY - Single, Tw	vin, Triplet, etc.				Karyotype co			
	(Specify) _					☐ Hy	pospadias	2000 <del>-</del> 0		
	170000000000000000000000000000000000000					LING	ine of the abov	re .		
	53 IF NOT SI	NGLE BIRTH - E	forn first, second, third, etc.							
	(Specify)									
	56. WAS INF IF YES, NAM	ANT TRANSFERS E OF FACILITY IN	RED WITHIN 24 HOURS OF DELIVE IFANT	RY?	Yes No 57. IS INFANT LIVING AT T	IME OF REPO	ORT?	58. IS INFANT BEING BREASTFED AT DISCHARGE?		

# **APPENDIX G**

## STATE OF DELAWARE CERTIFICATE OF DEATH

OFFICE OF VITAL STATISTICS

# **CERTIFICATE OF DEATH**

State of Belaware
DEPARTMENT OF HEALTH AND SOCIAL

State File Number

(107)

			SER\	/ICES					
	1. DECEDENT'S LEGAL	. NAME (Include AKA's	if any) (First, Middle, I	_ast)		2	2. SEX	3. SOCIAL SECU	JRITY NUMBER
	4a. AGE-Last Birthday (Years)	4b. UNDER 1 YEAR  Months Days	4c. UNDER 1 DAY Hours Minutes	5. DATE OF (Mo/Day/Y					untry)
	7a. RESIDENCE-STATE	-	7b. COUNTY	l.	7c. CITY OR	TOWN			
	7d. STREET AND NUME	BER		7	re. APT. NO.	7f. ZIP CODE	7g. INS	SIDE CITY LIMITS?	P
	8. EVER IN US ARMED FORCES?  Yes No	☐ Married ☐	ATUS AT TIME OF DI Widowed ☐ Divorced ☐ Unknown		10. SURVIVIN	I IG SPOUSE'S N	NAME (If wife	, give name prior to	o first marriage)
3y:	11. FATHER'S NAME (F	First, Middle, Last)			12. MO	THER'S NAME I	PRIOR TO FI	RST MARRIAGE (	First, Middle, Last)
Completed/ Verified By:	13a. INFORMANT'S NAM	ME	13b. RELATION DECEDENT	SHIP TO	13c. MA	AILING ADDRES	SS (Street and	Number, City, Sta	ite, Zip Code)
ed/			14. PLACE OF I	DEATH (Chec	ck only one; see	instructions)			
omplet					ED SOMEWHE  Nursing home				☐ Other (Specify):
Be	15. FACILITY NAME (If r	not institution, give stree	et & number)	CITY OR T	OWN , STATE, A	AND ZIP CODE		17. COUN	ITY OF DEATH
To	State_	OSITION: Burial Burial Remova	19. PLACE (	OF DISPOSIT	TON (Name of ce	emetery, cremato	ory, other plac	ce)	
	Other (Specify):  20. LOCATION-CITY, To	OWN, AND STATE	21. NAME AND	COMPLETE.	ADDRESS OF F	UNERAL FACIL	ITY		
	22. SIGNATURE OF FUI	NERAL SERVICE LICE	NSEE OR OTHER AC	ENT			23. l	ICENSE NUMBER	R (Of Licensee)
	ITEMS 24-28 MUST E WHO PRONOUNCES			DATE PRO	NOUNCED DEA	D (Mo/Day/Yr)		25. TIME PRON	OUNCED DEAD
	26. SIGNATURE OF PER	RSON PRONOUNCING	G DEATH (Only when a	applicable)	27. L	ICENSE NUMB	ER	28. DATE SI	GNED (Mo/Day/Yr)
	29. ACTUAL OR PRESU (Mo/Day/Yr) (Spell M	Month)			SUMED TIME OF		31. WAS	MEDICAL EXAMI	
\		chain of eventsdiseas arrest, or ventricular fibr		ationsthat di	rectly caused the	e death. DO NO			Approximate interval: Onset to death
	additional lines if necessary.  IMMEDIATE CAUSE (F	inal							
d By	disease or condition								
Completed By:	resulting in death)		Due t	to (or as a con	sequence of):				-
	b								
To Be	if any, leading to the ca listed on line a. Enter th UNDERLYING CAUSE	he	Due t	to (or as a cor	nsequence of):				_
	c. (disease or injury that initiated the events resu in death) LAST d.	ulting	Due	to (or as a co	nsequence of):				
	PART II. Enter other sign	nificant conditions contri	buting to death but no	t resulting in th	ne underlying ca	use given in PAF		AS AN AUTOPSY	
							34. WE AVAILA CC	YeS NO DERE AUTOPSY FII ABLE TO DMPLETE THE CA	NDINGS USE OF DEATH?
								Yes ☐ No ☐	UTIKTIOWIT

# APPENDIX G (cont.)

# STATE OF DELAWARE CERTIFICATE OF DEATH

		35. DID TOBACCO USE	36. IF FEMAI					37. MANNER (	OF DEATH
		CONTRIBUTE		regnant within past yea	r				
		TO DEATH?		nant at time of death				□ Natural	☐ Homicide
				regnant, but pregnant w					<b>-</b>
		☐ Yes ☐ Probably		regnant, but pregnant 4		efore	death	Accident	☐ Pending
			☐ Unkr	nown if pregnant within	he past year			Investigation	
		■ No ■ Unknown						<b>—</b> 0	<b>—</b> O
								Suicide	☐ Could not be
								determined	
		38. DATE OF INJURY 39. TIME	OF INJURY	IAO DI ACE OE IN ILIDY	(e.g. Decedent's ho	omo: /	construction site; restaura	nt: wooded	41. INJURY AT
		(Mo/Day/Yr) (Spell	OI INSOICI	area)	(e.g., Decedent's no	Jilie, (	construction site, restaura	int, wooded	WORK?
		Month)		arca)					☐ Yes ☐ No
		inonary							
		42. LOCATION OF INJURY: State:					City or Town:		•
							Ť		
		Street & Number:					Apartment No.:		Zip Code:
		43. DESCRIBE HOW INJURY OCCU	JRRED:						TATION INJURY,
								ECIFY:	
								Driver/Operator	•
								Passenger	
							_		
								Other (Specify)	
		45. CERTIFIER (Check only one):							
		Certifying physician-To the best	of my knowledg	ge, death occurred due to	the cause(s) and ma	anner	stated.		
		Pronouncing & Certifying physici						e cause(s) and i	manner stated
		Medical Examiner-On the basis	of examination	, and/or investigation, in n	ny opinion, death occ	curre	at the time, date, and pla	ace, and due to	tne cause(s) and manner
		stated.							
		Cianature of partifier:							
		Signature of certifier:							
		46. NAME, ADDRESS, AND ZIP CO	DE OF PERSO	ON COMPLETING CALISI	E OF DEATH (Item 3	32)			
		40. NAME, ADDITEOU, AND ZII OO	DE OF TEROC	DIN GOMI ELTING GAGGI	- OF DEATH (IICHIS	)			
		47. TITLE OF CERTIFIER	48. LICENSE	NUMBER	49. DATE CERTIFIE	FD	50 FOR REG	ISTRAR ONLY	-DATE FILED
		THEE OF GERTIFIER	TO. EIGEINGE	THOMBEN	(Mo/Day/Yr)		(Mo/Day/Yr)	IOTIVAL ONE	DATETICED
					(Worday) 11)		(Morbay/11)		
		51. DECEDENT'S EDUCATION-Che	eck 52. DEC	CEDENT OF HISPANIC (	ORIGIN? Check the	53.	DECEDENT'S RACE (Ch	neck one or mor	e races to indicate what
		the box that best describes the higher				the	(1		
Amendmen		degree or level of school completed a	at the that	best describes whether t	he decedent is		decedent considered him	self or herself to	o be)
t Code:		time of death.		nish/Hispanic/Latino. Ch					
		☐ 8th grade or less	dec	edent is not Spanish/Hisp	anic/Latino.		White	_	
		☐ 9th - 12th grade; no diploma				ΙH	Black or African America American Indian or Alasl		
_		3ti1 - 12ti1 grade, 110 dipiorna				1"	(Name of the enrolled or p		
Amendmen		☐ High school graduate or GED	☐ No,	not Spanish/Hispanic/Lat	ino		Asian Indian		
t Number:		completed					Chinese		
		☐ Professional Trade School	☐ Yes	s, Mexican, Mexican Amer	ican, Chicano		Filipino Japanese		
		Li Professional Trade School	4-7			ΙĦ	Korean		
Date:		<ul> <li>Some college credit, but no degr</li> </ul>	ree 🔲 Yes	s, Puerto Rican		ΙĦ	Vietnamese		
							Other Asian		
	⊮	Associate degree (e.g., AA, AS)	☐ Yes	s, Cuban			(Specify)		
	ed By	☐ Bachelor's degree (e.g., BA, AB,	BS) - V			$\vdash$	Native Hawaiian		
User ID:	To Be Completed FUNERAL DIREC	Dacrielor's degree (e.g., bA, Ab,		s, other Spanish/Hispanic/	Latino	ΙĦ	Guamanian or Chamorro	)	
	호뜻	☐ Master's degree (e.g., MA, MS,	(Sp	ecify)			Samoan		
_	윤급	MEng,	-				Other Pacific Islander		
DE Birth SFN:	⊼≅	MEng, MEd, MSW, MBA)	□ Unkr	nown			(Specify)		
SFN:	ΘË	☐ Doctorate (e.g., PhD, EdD) or		IOWII			Other		
	<u>~</u> 5	Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, D	DDS.			_	(Specify) :		
_	卢뇨	DVM, LLB, JD)					(Opecity)		
						lī i	Unknown		
		Unknown	TION (I II I						
		54. DECEDENT'S USUAL OCCUPA	I ION (Indicate	type of work done during	most of working life.	. DO	NOT USE RETIRED.)		
		55. KIND OF BUSINESS/INDUSTRY	,						
		OS. KIND OF BUSINESS/INDUSTRY	ı						

#### APPENDIX H

#### STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

STATE OF DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES
REPORT OF FETAL DEATH
(the parents) 2. TIME OF DELIVERY STATE FILE #
DATE OF DELIV ERY (Mo/Day/Yr) 3. SEX (M/F/Unk) NAME OF FETUS (actional at the discretion of the parents **FETUS** 7 PLACE WHERE DELIVERY OCCURRED (Gheck FACILITY NAME (If not institution, give street and 5a CITY TOWN OR LOCATION OF DELIVERY ☐ Freestanding birthing center 5b. ZIP CODE OF DELIVERY ☐ Home Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Clinic/Doctor's office 6. COUNTY OF DELIVERY 9 FACILITY ID. (NPI) 10a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Liest, Suffix) 10b. DATE OF BIRTH (MorDay/Yr) MOTHER 10c MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix) 10d. BIRTHPLACE (State, Territory, or Foreign Country) 11a RESIDENCE OF MOTHER-STATE 11c CITY, TOWN, OR LOCATION 11b COUNTY 11g. INSIDE CITY LIMITS? 11e APT NO 11d. STREET AND NUMBER 11! ZIP CODE ☐ Yes ☐ No 12a FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) 12b. DATE OF BIRTH (Mo/Day/Yr) 12c BIRTHPLACE (Sta FATHER 13. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH 13b OTHER SIGNIFICANT CAUSES OR CONDITIONS 13a INITIATING CAUSE/CONDITION CAUSE (AMONG THE CHOICES BELOW, PLEASE SELECT THE <u>ONE</u> WHICH MOST LIKELY BEGAN THE SEQUENCE OF EVENTS RESULTING IN THE DEATH OF THE FETUS) (SELECT OR SPECIFY ALL OTHER CONDITIONS CONTRIBUTING TO DEATH IN ITEM 138) OF FETAL Maternal Conditions/Diseases (Specify) DEATH Complications of Placenta, Cord. or Membranes Complications of Placenta, Gord, or Membranes Rupture of membranes prior to onset of labor Rupture of membranes prior to onset of labor ☐ Abruptio placenta Abruptio placenta Placental insufficiency ☐ Placental insufficiency ☐ Prolapsed cord Prolapsed cord ☐ Chorioamnionitis ☐ Chorioamnionitis Other Obstetrical or Pregnancy Complications (Specify) Other Obstetrical or Pregnancy Complications (Specify) Fetal Anomaly (Specify) Fetal Anomaly (Specify) Fetal Injury (Specify) Fetal (njury (Specify) Fetal Infection (Specify) Fetal Infection (Specify) Other Fetal Conditions/Disorders (Specify) Other Fetal Conditions/Disorders (Specify) Unknown

13e ESTIMATED TIME OF FETAL DEATH Unknown

13c. WEIGHT OF FETUS (grams preferred, specify unit) 13f. WAS AN AUTOPSY PERFORMED?

☐ Yes ☐ No ☐ Planned Dead at time of first assessment, no labor ongoing grams | lb/oz WAS A HISTOLOGICAL PLACENTAL WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED?

Yes No Planned

WERE AUTOPSY OR HISTOLOGICAL

PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL

DEATH? Yes No ☐ Dead at time of first assessment, labor ongoing Died during labor, after first assessment 13d OBSTETRIC ESTIMATE OF GESTATION AT DELIVERY ☐ Unknown time of fetal death 14. METHOD OF DISPOSITION. DISPOSITION ☐ Burial ☐ Cremation ☐ Hospital Disposition ☐ Donation ☐ Removal from State ☐ Other (Specify) 158 ATTENDANT'S NAME 15b. ATTENDANT'S NPI 150 ATTENDANT'S TITLE CERTIFIER ☐ MD ☐ DO ☐ CNM/CM ☐ OTHER MIDWIFE AND REGISTRATION OTHER(Specify)

16a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE SHOWN AND THAT THE FETUS WAS BORN DEAD. | 16b. DATE SIGNED INFORMATION SIGNATURE > 16c MAILING ADDRESS 17a NAME OF CEMETARY OR CREMATORY 17b LOCATION (CITY, TOWN, COUNTY) (STATE) MOTHER'S MEDICAL RECORD NO 18a DATE RECEIVED BY REGISTRAR 18b REGISTRAR'S SIGNATURE 19 FUNERAL DIRECTOR'S SIGNATURE ADDRESS

# APPENDIX H (cont.)

# STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

MOTHER	20, MOTHER'S EDUC box that best des		the box	ER OF HISPANIC ORIG that best describes wh is Spanish/Hispanic/La	ether the		MOTHER'S RACE (0 what the mother con White		r more races to indicate eff. to be)
	the time of deliver	y)	"No" bo	ox if mother is not Span	ish/Hispanic/Latina		Black or African Am American Indian or		ve
	☐ 8th grade or les	8	4-2	ot Spanish/Hispanic/Lat Mexican, Mexican Amer			(Name of the enrolle Asian Indian	ed or princip	al tribe)
	9th - 12th grade			Mexican, Mexican Amer Puerto Rican	ican, Unicana		Chinese Filipino		
	High school gra completed	duate or GED	☐ Yes.			8	Japanese Korean		
	☐ Same college of	redit but no degree	☐ Yes,	other Spanish/Hispanic/	Latina		Vietnamese Other Asian (Speci	ty)	
	☐ Associate degre		(Specify	1		B	Guamanian or Cha	morro	
	☐ Bachelor's degr		5)					der (Specify	
	Master's degree MEng, MEd, M	SW, MBA)					Other (Specify)		
	Doctorate (e.g., Professional de	PhD, EdD) or gree (e.g., MD, DD)	5.			Pn	edominant Race		
	DVM, LLB, JD) 23 MOTHER MARRIE		24a DATE OF FIR	ST PRENATAL CARE	VISIT 24b		LAST PRENATAL		AL NUMBER OF PRENATAL
	(At delivery, conception between)   Yes	n, or anytime No			renatal Care	CARE VI	1	VISI	TS FOR THIS PREGNANCY  (If none, enter '0")
	26. MOTHER'S HEIGH	IT 27 MOT		ANCY WEIGHT 28 N		IT AT DELI			NIC FOOD FOR HERSELF
	(feet/inc		(pounds)		(pound		E CONNE		GNANCY?   Yes   No
	30 NUMBER OF PRE LIVE BIRTHS	VIOUS	OUTCOMES (s	THER PREGNANCY pontaneous or induced	For each time	e period, ent	BEFORE AND DURIT ter either the number IONE, ENTER '0"		s or the number of packs of
	30a. Now Living	30b. Now Dead	31a. Other Outcom				es or packs of cigare	ttee emokes	rose disti
	Number	Number	Number (Do not in	clude this fetus)	Three Months		#	of cigarette	
	☐ None	☐ None	☐ None		First Three Mo Second Three	onths of Pres	gnancy	_	OR OR
	30c. DATE OF LAST L	IVE BIRTH	31b DATE OF LA	ST OTHER	Third Trimeste 33 DATE LAST	r of Pregnan	34 PLURALITY - 8	Simple	OR 85. IF NOT SINGLE BIRTH-
	MM YY			CY OUTCOME	MENSES B	EGAN	Twin, Triplet, et	tc.	Born First, Second, Third, etc.
			MM	YYYY		YYYY	(Specify)	-	Specify)
			TERNAL MEDICAL C Y MOTHER TRANSF	R FETAL INDICATION FERRED FROM	S FOR DELIVERY	7 🔲 Yes	□ No		
MEDICAL	37. RISK FACTORS IN	THIS PREGNANC	Y (Check all that app	ly)		13	38. INFECTIONS PR		D/OR TREATED DURING
HEALTH INFORMATION	Hypertension Pre-pregnant Gestational ( Eclampelia Previous preterm Other previous pogrowth restrict Pregnancy result Fertility-enhal Assisted repr Mother had a pre- If yes, how m None of the abov	PIH, preeclampsia) birth or pregnancy outco ed birth) ed from infertility tre nicing drugs, Artificia oductive technologi vivious cesarean deli any e	me (includes perination attention or introduced at insemination or ins	al death, small-for-gests all that apply auterine insemination tion (IVF), gamete intra	fallopian transfer (	GIFT))		ove	IES OF THE FETUS
	A. Was delivery with f		ut unsuccessful?	☐ Maternal trans			☐ Anenoephaly	ė.	
	B. Was delivery with v	racuum extraction a	ittempted but	☐ Third or fourth	degree perineal la	sceration	☐ Meningomye	igenital hea	rt disease
	unsuccessful?			☐ Ruptured uter	us		Congenital d	В	c nemia:
	☐ Yes ☐			☐ Unplanned by	sterectomy			on defect (e	ectuding congenital
	C Fetal presentation Cephalic	at delivery		☐ Admission to	ntensive care unit		Cleft Lip with	or without	syndromes) Cleft Palate
	Breech Other			☐ Unplanned op following deliv	erating room proce	edure	Down Syndr	ome	0
	D. Final route and me Vaginal/Spo Vaginal/Spo Vaginal/For Vaginal/Spo Cesarean It oesarean Voginal/Spo No	ntaneous ceps uum was a trial of labor		□ None of the al			Karyoty;   Suspected of   Karyoty;   Karyoty;   Hypospadias   None of the	pe pending hromosoma pe confirme pe pending	disorder d
	☐ Yes ☐	No							

# APPENDIX H (cont.)

# STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

		ATE OF DELAWA ENT OF HEALTH AND SOCIA			(107)
	STATISTICS	REPORT OF FETAL DEATH		erantera Ta	STATE FILE #
FETUS	NAME OF FETUS (optional-at the discretion of the pare		2. TIME OF DELIVERY 3.		DATE OF DELIV ERY (Mo/Day/Yr)
	5a. CITY, TOWN, OR LOCATION OF DELIVERY	PLACE WHERE DELIVE     Hospital     Freestanding birthing center.	RY OCCURRED (Check one)	8. FACILITY NAM	AE (If not institution, give street and number)
	5b. ZIP CODE OF DELIVERY	☐ Home Delivery Planned to de	liver at home?   Yes   No		
	6. COUNTY OF DELIVERY	☐ Clinic/Dector's office		9 FACILITY ID. (I	NPI)
MOTHER	10a. MOTHER'S CURRENT LEGAL NAME (First, Middle,			10b DATE OF	BIRTH (Mo/Day/Yr)
	10c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (FI	rst, Middle, Last, Suffix)		10d BIRTHPL Country)	ACE (State, Territory, or Foreign
	11a. RESIDENCE OF MOTHER-STATE 11b	COUNTY		11c CITY, TOWN, O	R LOCATION
	11d STREET AND NUMBER		11e APT NO.	11f. ZIP CODE	11g. INSIDE CITY LIMITS?
FATHER	12a. FATHER'S CURRENT LEGAL NAME (First, Middle, Li	ast, Suffix) 12b	DATE OF BIRTH (Mo/Day/Yr)	12c BIRTHPLA	☐ Yes ☐ No CE (State, Territory, or Foreign Country)
	13. C/	AUSE/CONDITIONS CO	INTRIBUTING TO FETAL	DEATH	
CAUSE	13a: INITIATING CAUSE/CONDITION		13b. OTHER SIGNIFICAL		DITIONS
OF	(AMONG THE CHOICES BELOW, PLEASE SELECT TH BEGAN THE SEQUENCE OF EVENTS RESULTING IN	HE ONE WHICH MOST LIKEL THE DEATH OF THE FETUS)	(SELECT OR SPECIFY A IN ITEM 13b)	ALL OTHER CONDITIO	ONS CONTRIBUTING TO DEATH
FETAL DEATH	Maternal Conditions/Diseases (Specify)		Maternal Conditions/Disea	uses (Specify)	
MA PRICE A SA	Complications of Placenta, Cord, or Membranes		Complications of Placenta	Cord. or Membranes	
	Rupture of membranes prior to onset of labor		☐ Rupture of memb	oranes prior to onset o	flabor
	☐ Abruptio placenta		☐ Abruptio placenta	E:	
	Placental insufficiency		☐ Placental insuffic	iency	
	☐ Prolapsed cord		☐ Prolapsed cord		
	☐ Chorioamnionitis		☐ Choricamnionitis		
	Other Specify)		☐ Other Specify)_		
	Other Obstetrical or Pregnancy Complications (Specify)		Other Obstetrical or Pregn	nancy Complications (\$	Specify)
	(And a Van Company)	<del> </del>			
	Fetal Anomaly (Specify)		Petal Anomaly (Specify)		
			The state of the s		
	Fetal Injury (Specify)		Fetal Injury (Specify)		
	Fetal Infection (Specify)		Fetal Infection (Specify)		
	Other Fetal Conditions/Disorders (Specify)		Other Fetal Conditions/D	morders (Specify)	
	Unknown		☐ Unknown		
	13c. WEIGHT OF FETUS (grams preferred, specify unit)		TIME OF FETAL DEATH	Yes	TOPSY PERFORMED?  No Planned
	grams	T State Stat	first assessment, labor ongoing	EXAMINATI Yes	TOLOGICAL PLACENTAL ION PERFORMED?
	13d. OBSTETRIC ESTIMATE OF GESTATION AT DEL!  (completed week	Unknown lime o		PLACENTA IN DETERM	OPSY OR HISTOLOGICAL  L EXAMINATION RESULTS USED  INNING THE CAUSE OF FETAL  Yes  No
DISPOSITION	14 METHOD OF DISPOSITION  Burial Cremation Hospital Dispos	aition Denation D	Removal from State	ner (Specify)	
CERTIFIER	15e. ATTENDANT'S NAME	15b ATTEND	ANT'S NPI	ic. ATTENDANT'S TIT	T.E
AND	-			MD DDO DC	NM/CM OTHER MIDWIFE
REGISTRATION INFORMATION	16a   ) CERTIFY THAT THIS DELIVERY OCCURRED OF	N THE DATE SHOWN AND T		OTHER(Specify) DEAD 16b DATE S	IGNED
	SIGNATURE >				
MÖTHER'S MEDICAL	17a. NAME OF CEMETARY OR CREMATORY		176 LOCATION (CITY, TOV	VN, COUNTY) (STAT	E)
RECORD NO	18a DATE RECEIVED   18b REGISTRAR'S SIGNATU	RE	19. FUNERAL DIRECTOR'S	SIGNATURE	ADDRESS
	BY REGISTRAR	WARE	>	vo. 751 4 1 7 1 7 1 1 1 1 1	Carecover (STAT)

# APPENDIX H (cont.)

# STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

			AUTHORITY FOR BURIAL TRANSPORTATION	AND REMOVAL
			letely filled in and bearing items 16a an	d 19, the signatures of the attending physician and d Removal of the above named Decedent.
	17	This permit is no	ot authority for cremation; separate aut	horization must be obtained.
		CEMETA	RY OR CREMATORY SHALL FILL O	UT SECTION BELOW
	The Dec	edent named a	bove was buried  cremated in the	e cemetery or crematory in item 17a.
BURIAL W	AS IN			
Section	Lot	Grave	The appropriate entry in the   C	emetery   Crematory registry has been made.
Signature				
		Sexton o	risther person in charge	Date Signed
cemetery, ti	ne Funeral Di	rector may sign		uthority. If no full time person is in charge of the to be retained by the Manager, Superintendent, or if none, then the Fineral Director.

REV: 04/2005

# **APPENDIX I**

## STATE OF DELAWARE CERTIFICATE OF MARRIAGE

OFFICE OF	00	State	of De	laware		
VITAL STATISTIC	L'S		ION OF PUBLIC HE	PLACE		
LOCAL REGISTRAR'S N		NO. 5880	1 NO. LICE	ATION ISSUED		
NAME	FIRST	MIDDLE LA	ST		DDLE	LAST
RESIDENCE STREET	OR NUMBER, CITY		RESID	ENCE STREET OR NUMBER, CITY		
STATE	ZIP	COUNTY	STATE		ZIP	COUNT
DATE	OF BIRTH	AGE		DATE OF BIRTH	AGE	
	OR FOREIGN COUNTRY)		DIDTH			
BIRTHPLACE (STATE	OH FOREIGN COUNTRY)		ВІНТН	PLACE (STATE OR FOREIGN COUNTRY	n	
WE HE	REBY CERTIFY TH			CT TO THE BEST OF OUR KI	NOWLEDGE AND BELI	EF
SIGNATURE X	July 1		SIGN/ OF BE	ATURE X		
NAME	FIRST	MIDDLE LA	ST	NAME FIRST	MIDDLE	
BIRTHPLACE	ISTATE OF FOREIGN CO	OUNTRY)	FATHER	BIRTHPLACE (STATE OR FOREIGN )	COUNTRY)	
MAIDEN NAM	ME FIRST	MIDDLE	ST	MAID NAME FIRST	MIDDLE	
BIRTHPLACE	E ATE OR FOREIC CO	OUN Y)	MOT PRINCIPLE	BIRTH LACE (STATE OR FOREIGN )	COUNTRY)	
		BA VAR			100	
I hereby cer	rtify that on	the	day of		19 .	
					town or location	
County of Signature of Cleor Other Official	rgy		_, in accorda			Pelau
Signature of Cle	rgy			TITLE		)elau
Signature of Cle or Other Official RESIDENCE-STATI	rgy			TITLE		Pelau
Signature of Cle or Other Official RESIDENCE-STATI	rgy			TITLE		)elau
Signature of Cle or Other Official RESIDENCE-STATI Witnesses (two are required.) 2. NAM	E			COUNTYRESIDENCE		Pelau
Signature of Cle or Other Official RESIDENCE-STATI Witnesses (two are required.) 2. NAN 3. NAN	E			COUNTY		Pelau
Signature of Cle or Other Official RESIDENCE-STATI Witnesses (Iwo are required.) 2. NAN REGISTRAR	E ME ME S SIGNATURE			COUNTYRESIDENCE		Pelas
Signature of Cle or Other Official RESIDENCE-STATI Witnesses (Iwo are required.) 2. NAN REGISTRAR	E ME ME S SIGNATURE			COUNTYRESIDENCE		
Signature of Cle or Other Official RESIDENCE-STATI Witnesses [Ivo are required.] 2. NAN REGISTRAR	ME M	STATE OF DELAWAR	RE	COUNTYRESIDENCE	OCAL REGISTRAR  STATE FILE CC	DPY
Signature of Cle or Other Official  RESIDENCE-STATI  Witnesses  [Ivo are required.] 2. NAN  REGISTRAR  VALID  Number of th Marriage - 1st, 2nd, etc.	ME M	STATE OF DELAWAR	RE  Last Marriage	RESIDENCE	OCAL REGISTRAR  STATE FILE CC	DPY
Signature of Cle or Other Official  RESIDENCE-STATI  Witnesses (two are required.) 2. NAN REGISTRAR'  VALID  Number of th Marriage -	ME SIGNATURE  ONLY IN THE	STATE OF DELAWAR  If Previously Married Last Marriage Ended by Death	RE	TITLE	STATE FILE CO	DPY cation ighest leted) Col
Signature of Cle or Other Official  RESIDENCE-STATI  Witnesses  [Ivo are required.] 2. NAN  REGISTRAR  VALID  Number of th Marriage - 1st, 2nd, etc.	ME ME SIGNATURE  ONLY IN THE  is  Date of First Mar	STATE OF DELAWAR  If Previously Married riage riage p(/Year) Usorce or Annul.	Last Marriage Ended on:	RESIDENCE	STATE FILE CO	DPY ccation ighest eleted)
Signature of Cle or Other Official  RESIDENCE-STATI  Witnesses  [Ivo are required.] 2. NAN  REGISTRAR  VALID  Number of th Marriage - 1st, 2nd, etc.	ME ME SIGNATURE  ONLY IN THE  is  Date of First Mar	STATE OF DELAWAR  If Previously Married riage riage p(/Year) Usorce or Annul.	Last Marriage Ended on:	RESIDENCE	STATE FILE CO	DPY cation ighest leted)

# **APPENDIX J**

# STATE OF DELAWARE CERTIFICATE OF DIVORCE OR ANNULMENT

ACK INK		OFFICE OF VITAL STATIS			elawar SLIC HEALTH					
						State File N	la			
	1.	HUSBAND'S NAME (First	, Middle, Last)							
SBAND	2a.	RESIDENCE - STREET	OR NUMBER, CITY			SP. CO.	JNTY			
- 1900	2c.	STATE	ZIP	3. BIRTHPLACE (	State or Foreign Country)	4. DATE	OF BIRTH (Month, Day	y, Year)		
	5a.	WIFE'S NAME (First, Mic	kle, Last)			5b. MAI	DEN SURNAME	Heli		
WIFE	6a.	RESIDENCE - STREET	OR NUMBER, CITY	This I	103	6b. COL	UNTY			
	6c.	STATE	ZIP	7. BIRTHPLACE (	BIRTHPLACE (State or Foreign Country)			8. DATE OF BIRTH (Month, Day, Year)		
	9a.	PLACE OF THIS MARRIA LOCATION	AGE - CITY, TOWN, OR	9b. COUNTY	9c. STATE O	OR FOREIGN COUNTRY	10. DATE OF THIS (Month, Day	MARRIAGE , Year)		
RRIAGE	11.	DATE COUPLE LAST RI HOUSEHOLD	DED IN SAME	12. NUV EL DE C AS THE DV	CHILL EN UNDER 18 IN T		TIONER  Husband ( ) Wife ( ) E	oth		
ORNEY	15.	I CERTIFY THAT THE M. NAMED PERSONS WAS (Morth, Day, Year)	ARRIAGE OF THE DISSOLVED.		treet and Number or Rural Ri ECREE - Divorce or Annulma (Specify)	oute Number, City or Town, Sta	te, Zip Code)  E RECORDED (Month,	Day, Year)		
CREE	18.	NUMBER OF CHILDREN AWARDED TO: Husband Joint (Husband/Wife) ( ) No Children			19. COUNTY OF DECK	REE 20. TITI	LE OF COURT			
	21.	SIGNATURE OF CERTIF		NO 22. TITLE OF CE	RTIFYING OFFICIAL		E SIGNED inth, Day, Year)			
				STATE	FILE COP	γ				
			OURT - After final	decree complete	item 15-23 and f	leave with Clerk of forward to: ER, DELAWARE 19				
		24 Number of this		25. If Previously Married	d	- Drylle-In	(Specify highest	ucation grade comple		
	1	24. Number of this Marriage - 1st, 2nd, etc. (Specify below)	Date of First Marriage (Mth./Day/Year)	Last Marriage Ended by Death, Divorce or Annulment (Specify below)	Last Marriage Ended on: (Mth./Day/Year)	26. Race/American India Black, White, etc. (Specify below)		College (1-4 or 5		
							0.7	-		
ISBAND	24a.		25a.	25b.	25c.	26a.	27a			

# **APPENDIX K**

# STATE OF DELAWARE REPORT OF INDUCED TERMINATION OF PREGNANCY



#### REPORT OF INDUCED TERMINATION OF PREGNANCY

	FACILITY NAME (if not clinic or hospital, give address)			CITY, TOW PREGNANC		OCATION OF MINATION		COUNTY OF PREGNANCY     TERMINATION	
4.	FORM NUMBER 5.		. AGE LAST BIRTHDAY		6. MARRIED? 7.		DATE OF PREGNANCY TERMINATION (Month, Day, Year)		
8a.	RESIDENCE - STATE	8b. COU	NTY	8c. CITY,	TOWN,	OR LOCATIO	N	8d. ZIP CODE	
							grade completed)		
	The state of the s	13. CLINICA ESTIMA GESTAT (Weeks)	TE OF	14a. Now  Number _  None	LIVE I	REVIOUS PREBIRTHS  14b. Not L  Number None	iving	NCIES (Complete each OTHER TER 14c. Spontaneous  Number None	MINATIONS
1		Dilation Intra-U Sharp	n Curet al (Non: n and E terine l Curetta otomy/	ttage surgical), Evacuation Instillation age (D&C Hysterect	Specifin (D&En (Salir	fy Medication	on(s)	din)	

(Instructions on back)

Doc. No. 35-01-20-96-12-01

Mail completed forms to: Delaware Health Statistics Center 417 Federal Street Dover, DE 19903 (302) 744-4541

# **APPENDIX** L

## List of 113 selected causes of death and Enterocolitis due to Clostridium difficile

[An asterisk (\*) preceding a cause-of-death code indicates that the code is not included in the *International Classification of Diseases, Tenth Revision* (ICD-10); see Technical Notes]

Number <sup>1</sup>	Cause of death (based on ICD–10)						
1#	Salmonella infections	(A01–A02)					
2#	Shigellosis and amebiasis	(A03,A06)					
3	Certain other intestinal infections						
#	Tuberculosis	(A16–A19)					
4	Respiratory tuberculosis						
5	Other tuberculosis						
6#	Whooping cough	(A37)					
7#	Scarlet fever and erysipelas						
8#	Meningococcal infection						
9#	Septicemia						
10#	Syphilis						
11#	Acute poliomyelitis.						
12#	Arthropod-borne viral encephalitis						
13#	Measles						
14#	Viral hepatitis						
15#	Human immunodeficiency virus (HIV) disease						
16#	Malaria						
17	Other and unspecified infectious and parasitic diseases and their sequelae	(A00,A05,A20-A36,A42-A44,A48-A49,A54-A79,A81-A82,					
		A85.0-A85.1,A85.8,A86-B04,B06-B09,B25-B49,B55-B99)					
#	Malignant neoplasms						
18	Malignant neoplasms of lip, oral cavity and pharynx						
19	Malignant neoplasm of esophagus						
20	Malignant neoplasm of stomach						
21	Malignant neoplasms of colon, rectum and anus	(C18–C21)					
22	Malignant neoplasms of liver and intrahepatic bile ducts						
23	Malignant neoplasm of pancreas						
24	Malignant neoplasm of larynx						
25	Malignant neoplasms of trachea, bronchus and lung						
26	Malignant melanoma of skin						
27	Malignant neoplasm of breast						
28	Malignant neoplasm of cervix uteri.						
29	Malignant neoplasms of corpus uteri and uterus, part unspecified	(C54–C55)					
30	Malignant neoplasm of ovary						
31	Malignant neoplasm of prostate						
32	Malignant neoplasms of kidney and renal pelvis						
33	Malignant neoplasm of bladder						
34	Malignant neoplasms of meninges, brain and other parts of central nervous system						
04	Malignant neoplasms of lymphoid, hematopoietic and related tissue	(070-072) (081_06)					
35							
	Hodgkin's disease						
36	Non-Hodgkin's lymphoma.						
37	Leukemia						
38	Multiple myeloma and immunoproliferative neoplasms						
39	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tis	(C47, 000, 004, 000, 004, 007, 044, 044, 0					
40	All other and unspecified malignant neoplasms	(617,623–624,626–631,637–641,644–649,651–652,					
44.4	In aits manufacture basis manufacture and manufacture of succession assume to the state of	C57-C60,C62-C63,C66,C68-C69,C73-C80,C97)					
41#	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	,					
42#	Anemias	,					
43#	Diabetes mellitus	,					
#	Nutritional deficiencies	,					
44	Malnutrition	,					
45	Other nutritional deficiencies	,					
46#	Meningitis	()					
47#	Parkinson's disease	(G20–G21)					
48#	Alzheimer's disease	(G30)					
	Major cardiovascular diseases	(l00–l78)					
#	Diseases of heart	,					
49	Acute rheumatic fever and chronic rheumatic heart diseases						
50	Hypertensive heart disease						
51	Hypertensive heart and renal disease						
	)	(110)					

# APPENDIX L (cont.)

## List of 113 selected causes of death and Enterocolitis due to *Clostridium difficile*—Con.

[An asterisk (\*) preceding a cause-of-death code indicates that the code is not included in the *International Classification of Diseases, Tenth Revision* (ICD-10); see Technical Notes]

Number <sup>1</sup>	Cause of death (based on ICD-10)						
	Ischemic heart diseases	(120-					
!	Acute myocardial infarction	(l21-					
}	Other acute ischemic heart diseases						
	Other forms of chronic ischemic heart disease	(I20					
	Atherosclerotic cardiovascular disease, so described						
	All other forms of chronic ischemic heart disease						
	Other heart diseases	, .					
;	Acute and subacute endocarditis.						
•	Diseases of pericardium and acute myocarditis						
	Heart failure	,					
	All other forms of heart disease						
#	Essential hypertension and hypertensive renal disease						
# #							
	Cerebrovascular diseases						
#	Atherosclerosis						
,,	Other diseases of circulatory system						
#	Aortic aneurysm and dissection						
	Other diseases of arteries, arterioles and capillaries						
	Other disorders of circulatory system						
	Influenza and pneumonia						
	Influenza						
	Pneumonia	(J12-					
	Other acute lower respiratory infections	(J20–J22,					
¥	Acute bronchitis and bronchiolitis	(J20–					
	Other and unspecified acute lower respiratory infection.						
	Chronic lower respiratory diseases						
	Bronchitis, chronic and unspecified						
	Emphysema						
	Asthma						
	Other chronic lower respiratory diseases	,					
<b>#</b>	Pneumoconioses and chemical effects						
# #							
<del>/</del>	Pneumonitis due to solids and liquids						
u	Other diseases of respiratory system						
¥	Peptic ulcer						
<del>/</del>	Diseases of appendix.						
#	Hernia						
	Chronic liver disease and cirrhosis.						
	Alcoholic liver disease						
	Other chronic liver disease and cirrhosis	(K73–					
<del>!</del>	Cholelithiasis and other disorders of gallbladder	(K80-					
	Nephritis, nephrotic syndrome and nephrosis	(N00-N07,N17-N19,N25-					
	Acute and rapidly progressive nephritic and nephrotic syndrome						
	Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified						
	Renal failure						
	Other disorders of kidney						
!	Infections of kidney	, ,					
!	Hyperplasia of prostate	, , , , ,					
	Inflammatory diseases of female pelvic organs	· ·					
	Pregnancy, childbirth and the puerperium.	,					
	Pregnancy with abortive outcome						
	Other complications of pregnancy, childbirth and the puerperium						
!	Certain conditions originating in the perinatal period						
!	Congenital malformations, deformations and chromosomal abnormalities						
	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	,					
	All other diseases.	`					
	Accidents (unintentional injuries)						
	Transport accidents	(V01-V99,					
	Motor vehicle accidents	19.6,V20-V79,V80.3-V					
	V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.						
	Other land transport accidents						
	V80.0–V80.2,V80.6–V80.9,V81.2–V81.9,V82.2–V82.9,V87						
	VOLUM-VOLUM VOLUM VOLUM-VOLUM VOLUM						

# **APPENDIX** L (cont.)

## Table A. List of 113 selected causes of death and Enterocolitis due to Clostridium difficile—Con.

[An asterisk (\*) preceding a cause-of-death code indicates that the code is not included in the *International Classification of Diseases, Tenth Revision* (ICD–10); see Technical Notes]

Number <sup>1</sup>	Cause of death (based on ICD-10)					
	Nontransport accidents					
99	Falls					
100	Accidental discharge of firearms(W32–W34)					
101	Accidental drowning and submersion					
102	Accidental exposure to smoke, fire and flames					
103	Accidental poisoning and exposure to noxious substances					
104	Other and unspecified nontransport accidents and their sequelae(W20–W31,W35–W64,W75–W99,X10–X39,X50–X59,Y86)					
#	Intentional self-harm (suicide)					
105	Intentional self-harm (suicide) by discharge of firearms					
106	Intentional self-harm (suicide) by other and unspecified means and their sequelae					
#	Assault (homicide)					
107	Assault (homicide) by discharge of firearms					
108	Assault (homicide) by other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)					
109#	Legal intervention					
	Events of undetermined intent(Y10-Y34,Y87.2,Y89.9)					
110	Discharge of firearms, undetermined intent					
111	Other and unspecified events of undetermined intent and their sequelae(Y10–Y21,Y25–Y34,Y87.2,Y89.9)					
112#	Operations of war and their sequelae(Y36,Y89.1)					
113#	Complications of medical and surgical care					
#	Enterocolitis due to <i>Clostridium difficile.</i> (A04.7) <sup>2</sup>					

<sup>&</sup>lt;sup>1</sup>Causes labeled # are ranked to determine leading causes of death for specified population groups. Only mutually exclusive categories are numbered. <sup>2</sup>Included in "Certain other intestinal infections (A04,A07–A09)" shown above.

Source: Heron M. Deaths: Leading causes for 2014. National vital statistics reports;vol 65 no 5. Hyattsville, MD: National Center for Health Statistics. 2016

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