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# 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](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:

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

### **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.

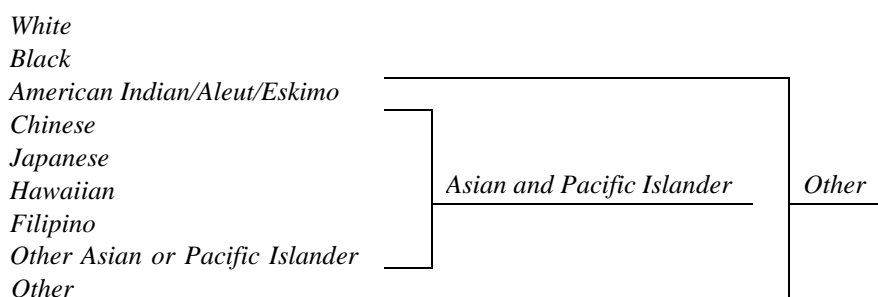
All statistics are subject to random variation.<sup>1</sup> Rates based on a relatively small number of events tend to be subject to more random variation than rates based on a large number of events.

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.

## **RACE**

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>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).



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# 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:

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

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

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

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

<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:

$$R_1 \pm 1.96 * SE$$

$$\text{where } SE(R_1) = R_1 * \frac{RSE(R_1)}{100}$$

$$\text{and } RSE(R_1) = 100 * \sqrt{\left(\frac{1}{D} + \frac{1}{B}\right)}$$

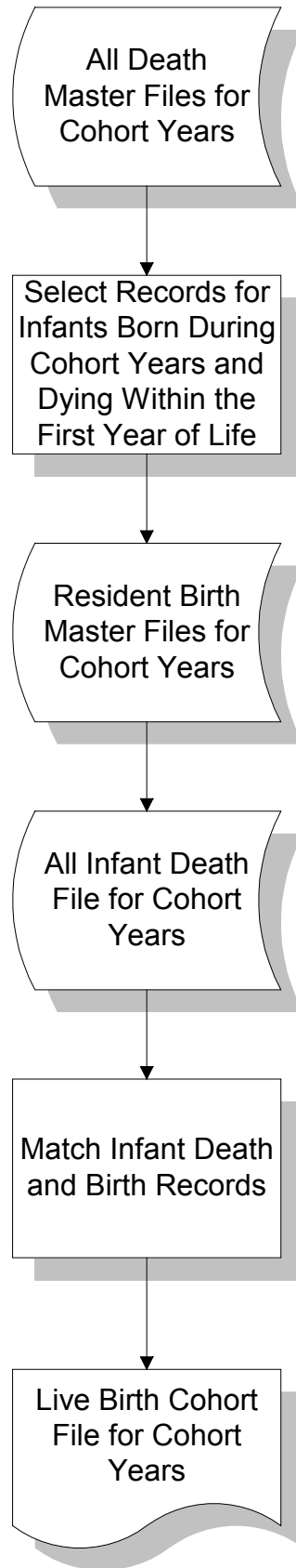
*Comparison of two infant mortality rates* - When the number of events for one or both of the rates was less than 100, comparisons between rates were based on the confidence intervals for each. If they overlapped, the difference was not significant. When the number of events for both rates was 100 or 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  $|z| \geq 1.96$  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
Diphtheria	A36	032
Whooping cough	A37	033
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	B26	072
Candidiasis	B37	112
Malaria	B50–B54	084
Pneumocystosis	B59	136.3
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	I00-I99	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

Cause of death	Category codes according to	
	ICD-10 <sup>1</sup>	ICD-9 <sup>2</sup>
Newborn affected by other complications of labor and delivery	P03	763.0-763.4,763.6-763.9
Newborn affected by noxious influences transmitted via placenta 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	767
Intrauterine hypoxia and birth asphyxia	P20-P21	768
Respiratory distress of newborn	P22	769
Congenital pneumonia	P23	770.0
Neonatal aspiration syndrome	P24	770.1
Interstitial emphysema and related conditions originating in the perinatal period	P25	770.2
Pulmonary hemorrhage originating in the perinatal period	P26	770.3
Chronic respiratory disease originating in the perinatal period	P27	770.7
Atelectasis	P280.-P28.1	770.4-770.5
Bacterial sepsis of newborn	P36	771.8
Omphalitis of newborn with or without mild hemorrhage	P38	771.4
Neonatal hemorrhage	P50-P52,P54	772
Hemorrhagic disease of newborn	P53	776.0
Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice	P55-P59	773-774
Hematological disorders	P60-P61	776.1-776.9
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus	P70.0-P70.2	775.0-775.1
Necrotizing enterocolitis of newborn	P77	777.5
Hydrops fetalis not due to hemolytic disease	P83.2	778.0
Congenital malformations, deformations, and chromosomal abnormalities	Q00-Q99	740-759
Sudden infant death syndrome	R95	798.0
Accidents	V01-X59	800-869,880-929
Homicide	X85-Y09	960-968
Complications of medical and surgical care	Y40-Y84,Y88	E870-E879,E930-E949

1. International Classification of Diseases, Tenth Revision.

2. International Classification of Diseases, Ninth Revision.

## APPENDIX E

### COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF DEATH

Cause of death	Category codes according to	
	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 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	I00-I09, I11, I13, I20-I51	390-398, 402, 404, 410-429
Essential (primary) hypertension and hypertensive renal disease	I10, I12	401, 403
Cerebrovascular Diseases	I60-I69	430-434, 436-438
Atherosclerosis	I70	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 codes according to	
	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

1. International Classification of Diseases, Tenth Revision.

2. International Classification of Diseases, Ninth Revision.

# APPENDIX F

## STATE OF DELAWARE CERTIFICATE OF LIVE BIRTH

STATE OF DELAWARE  
DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
CERTIFICATE OF LIVE BIRTH

(107)  
STATE FILE #

<b>CHILD</b>	1. CHILD'S NAME (First, Middle, Last, Suffix)		2. TIME OF BIRTH (24HR)	3. SEX	4. DATE OF BIRTH (Mo/Day/Yr)	
	5. FACILITY NAME (If not institution, give street and number)		6. CITY, TOWN, OR LOCATION OF BIRTH		7. COUNTY OF BIRTH	
<b>MOTHER</b>	8a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)			8b. MOTHER'S DATE OF BIRTH (Mo/Day/Yr)		
	8c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)			8d. BIRTHPLACE (State, Territory, or Foreign Country)		
	9a. RESIDENCE OF MOTHER-STATE		9b. COUNTY	9c. CITY, TOWN, OR LOCATION		
	9d. STREET AND NUMBER		9e. APT. NO	9f. ZIP CODE	9g. INSIDE CITY LIMITS? <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>FATHER</b>	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		10b. DATE OF BIRTH (Mo/Day/Yr)	10c. BIRTHPLACE (State, Territory, or Foreign Country)		
<b>CERTIFIER</b>	11. CERTIFIER'S NAME TITLE: <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> HOSPITAL ADMIN <input type="checkbox"/> CNM/CM <input type="checkbox"/> OTHER MIDWIFE <input type="checkbox"/> OTHER (SPECIFY) _____			12. DATE CERTIFIED MM / DD / YYYY	13. DATE FILED BY REGISTRAR MM / DD / YYYY	
	<b>INFORMATION FOR ADMINISTRATIVE USE</b>					
<b>MOTHER</b>	14. MOTHER'S MAILING ADDRESS: <input type="checkbox"/> Same as residence, or		STATE	CITY, TOWN, OR LOCATION		
	STREET & NUMBER		APARTMENT NO.	ZIP CODE		
	15. MOTHER MARRIED? (At birth, conception, or any time between) <input type="checkbox"/> Yes <input type="checkbox"/> No		16. SOCIAL SECURITY NUMBER REQUESTED FOR CHILD? <input type="checkbox"/> Yes <input type="checkbox"/> No	17. FACILITY ID. (NPI)		
	IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED IN THE HOSPITAL? <input type="checkbox"/> Yes <input type="checkbox"/> No		18. MOTHER'S SOCIAL SECURITY NUMBER:			
<b>INFORMATION FOR MEDICAL AND HEALTH PURPOSES ONLY</b>						
<b>MOTHER</b>	20. MOTHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) <input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade, no diploma <input type="checkbox"/> High school graduate or GED completed <input type="checkbox"/> Some college credit but no degree <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)		21. 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) <input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican, Mexican American, Chicana <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____		22. MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be) <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribe) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ Predominant Race _____	
	MOTHER'S MEDICAL RECORD NO _____					
<b>FATHER</b>	23. FATHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) <input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade, no diploma <input type="checkbox"/> High school graduate or GED completed <input type="checkbox"/> Some college credit but no degree <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) <input type="checkbox"/> Doctorate (e.g., Ph.D., EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)		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) <input type="checkbox"/> No, not Spanish/Hispanic/Latino <input type="checkbox"/> Yes, Mexican, Mexican American, Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) _____		25. FATHER'S RACE (Check one or more races to indicate what the father considers himself to be) <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribe) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ Predominant Race _____	
	STATE OFFICE USE ONLY					
26. PLACE WHERE BIRTH OCCURRED (Check one) <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding birthing center <input type="checkbox"/> Home Birth: Planned to deliver at home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Clinic/Doctor's office <input type="checkbox"/> Other (Specify) _____		27. ATTENDANT'S NAME, TITLE, AND NPI NAME: _____ NPI: _____ TITLE: <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> CNM/CM <input type="checkbox"/> OTHER MIDWIFE <input type="checkbox"/> OTHER (Specify) _____		28. MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No  IF YES, ENTER NAME OF FACILITY MOTHER TRANSFERRED FROM: _____		

# APPENDIX F (cont.)

## STATE OF DELAWARE CERTIFICATE OF LIVE BIRTH STATISTICAL SECTION

<b>MOTHER</b>	29a. DATE OF FIRST PRENATAL CARE VISIT MM / DD / YYYY <input type="checkbox"/> No Prenatal Care		29b. DATE OF LAST PRENATAL CARE VISIT MM / DD / YYYY		30. TOTAL NUMBER OF PRENATAL VISITS FOR THIS PREGNANCY  (If none, enter '0')	
	31. MOTHER'S HEIGHT ____ (feet/inches)		32. MOTHER'S PRE-PREGNANCY WEIGHT ____ (pounds)		34. DID MOTHER GET WIC FOOD FOR HERSELF DURING THIS PREGNANCY? <input type="checkbox"/> YES <input type="checkbox"/> NO	
	35. NUMBER OF PREVIOUS LIVE BIRTHS (Do not include this child)		36. NUMBER OF OTHER PREGNANCY OUTCOMES (Spontaneous or induced losses or ectopic pregnancies)		37. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY For each time period, enter the number of cigarettes smoked if NONE, ENTER '0'. Average number of cigarettes or packs of cigarettes smoked per day  # of Cigarettes    # or packs  Three Months Before Pregnancy    _____ OR _____ First Three Months of Pregnancy    _____ OR _____ Second Three Months of Pregnancy    _____ OR _____ Last Trimester of Pregnancy    _____ OR _____	
	35a. Now Living Number <input type="checkbox"/> None		35b. Now Dead Number <input type="checkbox"/> None			
35c. DATE OF LAST LIVE BIRTH MM / DD / YYYY		36a. OTHER OUTCOMES NUMBER <input type="checkbox"/> None		38. PRINCIPAL SOURCE OF PAYMENT FOR THE DELIVERY <input type="checkbox"/> Private Insurance <input type="checkbox"/> Medicaid <input type="checkbox"/> Self pay <input type="checkbox"/> Other (Specify) _____		
39. DATE LAST NORMAL MENSES BEGAN MM / DD / YYYY		40. MOTHER'S MEDICAL RECORD NUMBER				
<b>MEDICAL AND HEALTH INFORMATION</b>	41. RISK FACTORS IN THIS PREGNANCY (Check all that apply). <b>Diabetes</b> <input type="checkbox"/> Pre-Pregnancy (Diagnosis prior to this pregnancy) <input type="checkbox"/> Gestational (Diagnosis in this pregnancy) <b>Hypertension</b> <input type="checkbox"/> Pre-Pregnancy (Chronic) <input type="checkbox"/> Gestational <input type="checkbox"/> Eclampsia <input type="checkbox"/> Previous preterm birth <input type="checkbox"/> Other previous poor pregnancy outcome (includes perinatal death, small-for-gestational age/intrauterine growth restricted birth) <input type="checkbox"/> Pregnancy resulted from infertility treatment-if yes, check all that apply: <input type="checkbox"/> Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination <input type="checkbox"/> Assisted reproductive technology (e.g. in vitro fertilization [IVF], gamete intrafallopian transfer [GIFT]) <input type="checkbox"/> Mother had a previous cesarean delivery If yes, how many _____ <input type="checkbox"/> None of the above		44. ONSET OF LABOR (CHECK ALL THAT APPLY) <input type="checkbox"/> Premature Rupture of Membranes (prolonged, $\geq 12$ hrs.) <input type="checkbox"/> Precipitous Labor (< 3 hrs.) <input type="checkbox"/> Prolonged Labor ( $\geq 20$ hrs.) <input type="checkbox"/> None of the Above		46. METHOD OF DELIVERY A. Was delivery with forceps attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No B. Was delivery with vacuum extraction attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No C. Fetal presentation at birth <input type="checkbox"/> Cephalic <input type="checkbox"/> Breech <input type="checkbox"/> Other D. Final route and method of delivery (Check one) <input type="checkbox"/> Vaginal/Spontaneous <input type="checkbox"/> Vaginal/Forceps <input type="checkbox"/> Vaginal/Vacuum <input type="checkbox"/> Cesarean  If cesarean, was a trial of labor attempted? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	42. INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply) <input type="checkbox"/> Gonorrhea <input type="checkbox"/> Syphilis <input type="checkbox"/> Chlamydia <input type="checkbox"/> Hepatitis B <input type="checkbox"/> Hepatitis C <input type="checkbox"/> None of the above		45. CHARACTERISTICS OF LABOR AND DELIVERY <input type="checkbox"/> Induction of labor <input type="checkbox"/> Augmentation of labor <input type="checkbox"/> Non-vertex presentation <input type="checkbox"/> Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to delivery <input type="checkbox"/> Antibiotics received by the mother during labor <input type="checkbox"/> Clinical chorioamnionitis diagnosed during labor or: maternal temperature $\geq 38^{\circ}$ C ( $100.4^{\circ}$ F) <input type="checkbox"/> Moderate/heavy meconium staining of the amniotic fluid <input type="checkbox"/> Fetal intolerance of labor such that one or more of the following actions was taken: in-utero resuscitative measures, further fetal assessment, or operative delivery <input type="checkbox"/> Epidural or spinal anesthesia during labor <input type="checkbox"/> None of the above		47. MATERNAL MORBIDITY (Check all that apply) (Complications associated with labor and delivery) <input type="checkbox"/> Maternal transfusion <input type="checkbox"/> Third or fourth degree perineal laceration <input type="checkbox"/> Ruptured uterus <input type="checkbox"/> Unplanned hysterectomy <input type="checkbox"/> Admission to intensive care unit <input type="checkbox"/> Unplanned operating room procedure following delivery <input type="checkbox"/> None of the above	
	43. OBSTETRIC PROCEDURES (Check all that apply) <input type="checkbox"/> Cervical cerclage <input type="checkbox"/> Tocolysis  External cephalic version: <input type="checkbox"/> Successful <input type="checkbox"/> Failed <input type="checkbox"/> None of the above		<b>NEWBORN INFORMATION</b>			
	48. NEWBORN MEDICAL RECORD NUMBER		54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply) <input type="checkbox"/> Assisted ventilation required immediately following delivery <input type="checkbox"/> Assisted ventilation required for more than six Hours <input type="checkbox"/> NICU admission <input type="checkbox"/> Newborn given surfactant replacement therapy <input type="checkbox"/> Antibiotics received by the newborn for suspected neonatal sepsis <input type="checkbox"/> Seizure or serious neurologic dysfunction <input type="checkbox"/> Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention) <input type="checkbox"/> None of the above		55. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply) <input type="checkbox"/> Anencephaly <input type="checkbox"/> Meningocele/Spina bifida <input type="checkbox"/> Cyanotic congenital heart disease <input type="checkbox"/> Congenital diaphragmatic hernia <input type="checkbox"/> Omphalocele <input type="checkbox"/> Gastrochisis <input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes) <input type="checkbox"/> Cleft Lip with or without Cleft Palate <input type="checkbox"/> Cleft Palate alone <input type="checkbox"/> Down Syndrome <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending <input type="checkbox"/> Suspected chromosomal disorder <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending <input type="checkbox"/> Hypospadias <input type="checkbox"/> None of the above	
49. BIRTHWEIGHT (grams preferred, specify unit) _____ <input type="checkbox"/> grams <input type="checkbox"/> lb/oz		56. WAS INFANT TRANSFERRED WITHIN 24 HOURS OF DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No IF YES, NAME OF FACILITY INFANT TRANSFERRED TO: _____		57. IS INFANT LIVING AT TIME OF REPORT? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Infant transferred, status unknown		
50. OBSTETRIC ESTIMATE OF GESTATION _____ (completed weeks)		58. IS INFANT BEING BREASTFED AT DISCHARGE? <input type="checkbox"/> Yes <input type="checkbox"/> No				
51. APGAR SCORE Score at 5 minutes _____ <b>If 5 minute score is less than 6,</b> Score at 10 minutes _____						
52. PLURALITY – Single, Twin, Triplet, etc. (Specify) _____						
53. IF NOT SINGLE BIRTH – Born first, second, third, etc. (Specify) _____						

# APPENDIX G

## STATE OF DELAWARE CERTIFICATE OF DEATH

**OFFICE OF VITAL  
STATISTICS**

**CERTIFICATE OF DEATH**  
*State of Delaware*  
**DEPARTMENT OF HEALTH AND SOCIAL  
SERVICES**

**(107)**

**State File Number**

To Be Completed/ Verified By: <b>FUNERAL DIRECTOR</b>	1. DECEDENT'S LEGAL NAME (Include AKA's if any) (First, Middle, Last)				2. SEX	3. SOCIAL SECURITY NUMBER
	4a. AGE-Last Birthday (Years)	4b. UNDER 1 YEAR Months   Days	4c. UNDER 1 DAY Hours   Minutes	5. DATE OF BIRTH (Mo/Day/Yr)	6. BIRTHPLACE (City and State or Foreign Country)	
	7a. RESIDENCE-STATE		7b. COUNTY		7c. CITY OR TOWN	
	7d. STREET AND NUMBER			7e. APT. NO.	7f. ZIP CODE	7g. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> No
	8. EVER IN US ARMED FORCES? <input type="checkbox"/> Yes <input type="checkbox"/> No		9. MARITAL STATUS AT TIME OF DEATH <input type="checkbox"/> Married <input type="checkbox"/> Widowed <input type="checkbox"/> Divorced <input type="checkbox"/> Never Married <input type="checkbox"/> Unknown		10. SURVIVING SPOUSE'S NAME (if wife, give name prior to first marriage)	
	11. FATHER'S NAME (First, Middle, Last)			12. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last)		
	13a. INFORMANT'S NAME		13b. RELATIONSHIP TO DECEDENT	13c. MAILING ADDRESS (Street and Number, City, State, Zip Code)		
	<b>14. PLACE OF DEATH (Check only one; see instructions)</b>					
	IF DEATH OCCURRED IN A HOSPITAL: <input type="checkbox"/> Inpatient <input type="checkbox"/> Emergency Room/Outpatient <input type="checkbox"/> Dead on Arrival			IF DEATH OCCURRED SOMEWHERE OTHER THAN A HOSPITAL: <input type="checkbox"/> Hospice facility <input type="checkbox"/> Nursing home/Long term care facility <input type="checkbox"/> Decedent's home <input type="checkbox"/> Other (Specify):		
	15. FACILITY NAME (If not institution, give street & number)			16. CITY OR TOWN, STATE, AND ZIP CODE		17. COUNTY OF DEATH
	18. METHOD OF DISPOSITION: <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Donation <input type="checkbox"/> Entombment <input type="checkbox"/> Removal from State <input type="checkbox"/> Other (Specify):		19. PLACE OF DISPOSITION (Name of cemetery, crematory, other place)			
	20. LOCATION-CITY, TOWN, AND STATE		21. NAME AND COMPLETE ADDRESS OF FUNERAL FACILITY			
	22. SIGNATURE OF FUNERAL SERVICE LICENSEE OR OTHER AGENT				23. LICENSE NUMBER (Of Licensee)	
	<b>ITEMS 24-28 MUST BE COMPLETED BY PERSON WHO PRONOUNCES OR CERTIFIES DEATH</b>			24. DATE PRONOUNCED DEAD (Mo/Day/Yr)		25. TIME PRONOUNCED DEAD
26. SIGNATURE OF PERSON PRONOUNCING DEATH (Only when applicable)			27. LICENSE NUMBER		28. DATE SIGNED (Mo/Day/Yr)	
29. ACTUAL OR PRESUMED DATE OF DEATH (Mo/Day/Yr) (Spell Month)		30. ACTUAL OR PRESUMED TIME OF DEATH		31. WAS MEDICAL EXAMINER CONTACTED?		
<b>CAUSE OF DEATH (See instructions and examples)</b>					Approximate interval: Onset to death	
32. <b>PART I.</b> Enter the <u>chain of events</u> --diseases, injuries, or complications--that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line. Add additional lines if necessary.						
IMMEDIATE CAUSE (Final disease or condition ----->)						
a. _____ Due to (or as a consequence of): _____						
Sequentially list conditions,						
b. _____ Due to (or as a consequence of): _____						
if any, leading to the cause listed on line a. Enter the <b>UNDERLYING CAUSE</b>						
c. _____ Due to (or as a consequence of): _____						
(disease or injury that initiated the events resulting in death) <b>LAST</b>						
d. _____						
<b>PART II.</b> Enter other <u>significant conditions contributing to death</u> but not resulting in the underlying cause given in PART I						
33. WAS AN AUTOPSY PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
34. WERE AUTOPSY FINDINGS AVAILABLE TO COMPLETE THE CAUSE OF DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						

## APPENDIX G (cont.)

### STATE OF DELAWARE CERTIFICATE OF DEATH

	35. DID TOBACCO USE CONTRIBUTE TO DEATH?  <input type="checkbox"/> Yes <input type="checkbox"/> Probably  <input type="checkbox"/> No <input type="checkbox"/> Unknown	36. IF FEMALE: <input type="checkbox"/> Not pregnant within past year <input type="checkbox"/> Pregnant at time of death <input type="checkbox"/> Not pregnant, but pregnant within 42 days of death <input type="checkbox"/> Not pregnant, but pregnant 43 days to 1 year before death <input type="checkbox"/> Unknown if pregnant within the past year	37. MANNER OF DEATH  <input type="checkbox"/> Natural <input type="checkbox"/> Homicide  <input type="checkbox"/> Accident Investigation <input type="checkbox"/> Pending Investigation  <input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined	
	38. DATE OF INJURY (Mo/Day/Yr) (Spell Month)	39. TIME OF INJURY	40. PLACE OF INJURY (e.g., Decedent's home; construction site; restaurant; wooded area)	41. INJURY AT WORK? <input type="checkbox"/> Yes <input type="checkbox"/> No
	42. LOCATION OF INJURY: State:		City or Town:	
	Street & Number:		Apartment No.:	Zip Code:
	43. DESCRIBE HOW INJURY OCCURRED:			44. IF TRANSPORTATION INJURY, SPECIFY: <input type="checkbox"/> Driver/Operator <input type="checkbox"/> Passenger <input type="checkbox"/> Pedestrian <input type="checkbox"/> Other (Specify)
	45. CERTIFIER (Check only one): <input type="checkbox"/> Certifying physician-To the best of my knowledge, death occurred due to the cause(s) and manner stated. <input type="checkbox"/> Pronouncing & Certifying physician-To the best of my knowledge, death occurred at the time, date, and place, and due to the cause(s) and manner stated. <input type="checkbox"/> Medical Examiner-On the basis of examination, and/or investigation, in my opinion, death occurred at the time, date, and place, and due to the cause(s) and manner stated.  Signature of certifier: _____			
	46. NAME, ADDRESS, AND ZIP CODE OF PERSON COMPLETING CAUSE OF DEATH (Item 32)			
	47. TITLE OF CERTIFIER	48. LICENSE NUMBER	49. DATE CERTIFIED (Mo/Day/Yr)	50. FOR REGISTRAR ONLY -DATE FILED (Mo/Day/Yr)
Amendmen t Code:  Amendmen t Number:  Date:  User ID:  DE Birth SFN:	51. DECEDENT'S EDUCATION-Check the box that best describes the highest degree or level of school completed at the time of death. <input type="checkbox"/> 8th grade or less <input type="checkbox"/> 9th - 12th grade; no diploma <input type="checkbox"/> High school graduate or GED completed <input type="checkbox"/> Professional Trade School <input type="checkbox"/> Some college credit, but no degree <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) <input type="checkbox"/> Unknown			
	52. DECEDENT OF HISPANIC ORIGIN? Check the box that best describes whether the decedent is Spanish/Hispanic/Latino. Check the "No" box if decedent is not Spanish/Hispanic/Latino.  <input type="checkbox"/> No, not Spanish/Hispanic/Latino <input type="checkbox"/> Yes, Mexican, Mexican American, Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) <input type="checkbox"/> Unknown		53. DECEDENT'S RACE (Check one or more races to indicate what the decedent considered himself or herself to be)  <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribe) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify)  <input type="checkbox"/> Native Hawaiian Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify)  <input type="checkbox"/> Other (Specify) : _____ <input type="checkbox"/> Unknown	
	54. DECEDENT'S USUAL OCCUPATION (Indicate type of work done during most of working life. DO NOT USE RETIRED.)			
	55. KIND OF BUSINESS/INDUSTRY			

# APPENDIX H

## STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

STATE OF DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES REPORT OF FETAL DEATH				(107) STATE FILE #
<b>FETUS</b>	1. NAME OF FETUS (optional-at the discretion of the parents)		2. TIME OF DELIVERY (24hr)	3. SEX (M/F/Unk)
	5a. CITY, TOWN, OR LOCATION OF DELIVERY		7. PLACE WHERE DELIVERY OCCURRED (Check one)	
	5b. ZIP CODE OF DELIVERY		8. FACILITY NAME (if not institution, give street and number)	
	6. COUNTY OF DELIVERY		9. FACILITY ID. (NPI)	
10a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)			10b. DATE OF BIRTH (Mo/Day/Yr)	
10c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)			10d. BIRTHPLACE (State, Territory, or Foreign Country)	
11a. RESIDENCE OF MOTHER-STATE		11b. COUNTY		11c. CITY, TOWN, OR LOCATION
11d. STREET AND NUMBER		11e. APT. NO.	11f. ZIP CODE	
				11g. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>FATHER</b>		12a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		12b. DATE OF BIRTH (Mo/Day/Yr)
				12c. BIRTHPLACE (State, Territory, or Foreign Country)
<b>13. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH</b>				
<b>CAUSE OF FETAL DEATH</b>	13a. INITIATING CAUSE/CONDITION (AMONG THE CHOICES BELOW, PLEASE SELECT THE ONE WHICH MOST LIKELY BEGAN THE SEQUENCE OF EVENTS RESULTING IN THE DEATH OF THE FETUS)		13b. OTHER SIGNIFICANT CAUSES OR CONDITIONS (SELECT OR SPECIFY ALL OTHER CONDITIONS CONTRIBUTING TO DEATH IN ITEM 13b)	
	Maternal Conditions/Diseases (Specify) _____  Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____  Other Obstetrical or Pregnancy Complications (Specify) _____  Fetal Anomaly (Specify) _____  Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____  <input type="checkbox"/> Unknown		Maternal Conditions/Diseases (Specify) _____  Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____  Other Obstetrical or Pregnancy Complications (Specify) _____  Fetal Anomaly (Specify) _____  Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____  <input type="checkbox"/> Unknown	
13c. WEIGHT OF FETUS (grams preferred, specify unit) <input type="checkbox"/> grams <input type="checkbox"/> lb/oz		13e. ESTIMATED TIME OF FETAL DEATH		13f. WAS AN AUTOPSY PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned
13d. OBSTETRIC ESTIMATE OF GESTATION AT DELIVERY (completed weeks)		<input type="checkbox"/> Dead at time of first assessment, no labor ongoing <input type="checkbox"/> Dead at time of first assessment, labor ongoing <input type="checkbox"/> Died during labor, after first assessment <input type="checkbox"/> Unknown time of fetal death		13g. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned
				13h. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>DISPOSITION</b>				
14. METHOD OF DISPOSITION: <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Hospital Disposition <input type="checkbox"/> Donation <input type="checkbox"/> Removal from State <input type="checkbox"/> Other (Specify) _____				
<b>CERTIFIER AND REGISTRATION INFORMATION</b>		15a. ATTENDANT'S NAME		15b. ATTENDANT'S NPI
				15c. ATTENDANT'S TITLE <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> CNM/CM <input type="checkbox"/> OTHER MIDWIFE <input type="checkbox"/> OTHER (Specify) _____
16a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE SHOWN AND THAT THE FETUS WAS BORN DEAD		16b. DATE SIGNED		
SIGNATURE				
16c. MAILING ADDRESS				
MOTHER'S MEDICAL RECORD NO		17a. NAME OF CEMETARY OR CREMATORY		
		17b. LOCATION (CITY, TOWN, COUNTY) (STATE)		
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

<b>MOTHER</b>	20. MOTHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) <ul style="list-style-type: none"> <li><input type="checkbox"/> 8th grade or less</li> <li><input type="checkbox"/> 9th - 12th grade, no diploma</li> <li><input type="checkbox"/> High school graduate or GED completed</li> <li><input type="checkbox"/> Some college credit but no degree</li> <li><input type="checkbox"/> Associate degree (e.g., AA, AS)</li> <li><input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)</li> <li><input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)</li> <li><input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LL.B., JD)</li> </ul>	21. 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) <ul style="list-style-type: none"> <li><input type="checkbox"/> No, not Spanish/Hispanic/Latina</li> <li><input type="checkbox"/> Yes, Mexican, Mexican American, Chicana</li> <li><input type="checkbox"/> Yes, Puerto Rican</li> <li><input type="checkbox"/> Yes, Cuban</li> <li><input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____</li> </ul>	22. MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be) <ul style="list-style-type: none"> <li><input type="checkbox"/> White</li> <li><input type="checkbox"/> Black or African American</li> <li><input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribe) _____</li> <li><input type="checkbox"/> Asian Indian</li> <li><input type="checkbox"/> Chinese</li> <li><input type="checkbox"/> Filipino</li> <li><input type="checkbox"/> Japanese</li> <li><input type="checkbox"/> Korean</li> <li><input type="checkbox"/> Vietnamese</li> <li><input type="checkbox"/> Other Asian (Specify) _____</li> <li><input type="checkbox"/> Native Hawaiian</li> <li><input type="checkbox"/> Guamanian or Chamorro</li> <li><input type="checkbox"/> Samoan</li> <li><input type="checkbox"/> Other Pacific Islander (Specify) _____</li> <li><input type="checkbox"/> Other (Specify) _____</li> </ul> Predominant Race _____				
	23. MOTHER MARRIED? (At delivery, conception, or anytime between) <input type="checkbox"/> Yes <input type="checkbox"/> No	24a. DATE OF FIRST PRENATAL CARE VISIT _____ / _____ / _____ <input type="checkbox"/> No Prenatal Care	24b. DATE OF LAST PRENATAL CARE VISIT _____ / _____ / _____	25. TOTAL NUMBER OF PRENATAL VISITS FOR THIS PREGNANCY _____ (If none, enter "0")			
26. MOTHER'S HEIGHT _____ (feet/inches)	27. MOTHER'S PRE-PREGNANCY WEIGHT _____ (pounds)	28. MOTHER'S WEIGHT AT DELIVERY _____ (pounds)	29. DID MOTHER GET WIC FOOD FOR HERSELF DURING THIS PREGNANCY? <input type="checkbox"/> Yes <input type="checkbox"/> No				
30. NUMBER OF PREVIOUS LIVE BIRTHS <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">                     30a. Now Living                      Number _____  <input type="checkbox"/> None                 </td> <td style="width: 50%; border: none;">                     30b. Now Dead                      Number _____  <input type="checkbox"/> None                 </td> </tr> </table>		30a. Now Living Number _____ <input type="checkbox"/> None	30b. Now Dead Number _____ <input type="checkbox"/> None	31. NUMBER OF OTHER PREGNANCY OUTCOMES (spontaneous or induced losses or ectopic pregnancies) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">                     31a. Other Outcomes                      Number (Do not include this fetus) _____  <input type="checkbox"/> None                 </td> <td style="width: 50%; border: none;">                     32. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY                      For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked. IF NONE, ENTER "0".                      Average number of cigarettes or packs of cigarettes smoked per day:                      Three Months Before Pregnancy _____ OR _____                      First Three Months of Pregnancy _____ OR _____                      Second Three Months of Pregnancy _____ OR _____                      Third Trimester of Pregnancy _____ OR _____                 </td> </tr> </table>		31a. Other Outcomes Number (Do not include this fetus) _____ <input type="checkbox"/> None	32. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked. IF NONE, ENTER "0". Average number of cigarettes or packs of cigarettes smoked per day: Three Months Before Pregnancy _____ OR _____ First Three Months of Pregnancy _____ OR _____ Second Three Months of Pregnancy _____ OR _____ Third Trimester of Pregnancy _____ OR _____
30a. Now Living Number _____ <input type="checkbox"/> None	30b. Now Dead Number _____ <input type="checkbox"/> None						
31a. Other Outcomes Number (Do not include this fetus) _____ <input type="checkbox"/> None	32. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked. IF NONE, ENTER "0". Average number of cigarettes or packs of cigarettes smoked per day: Three Months Before Pregnancy _____ OR _____ First Three Months of Pregnancy _____ OR _____ Second Three Months of Pregnancy _____ OR _____ Third Trimester of Pregnancy _____ OR _____						
30c. DATE OF LAST LIVE BIRTH ____ / ____ / ____	31b. DATE OF LAST OTHER PREGNANCY OUTCOME ____ / ____ / ____	33. DATE LAST NORMAL MENSES BEGAN ____ / ____ / ____	34. PLURALITY - Single, Twin, Triplet, etc. (Specify) _____				
35. IF NOT SINGLE BIRTH - Born First, Second, Third, etc. (Specify) _____							
36. MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No IF YES, ENTER NAME OF FACILITY MOTHER TRANSFERRED FROM _____							
<b>MEDICAL AND HEALTH INFORMATION</b>	37. RISK FACTORS IN THIS PREGNANCY (Check all that apply) <ul style="list-style-type: none"> <li>Diabetes                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Pre-pregnancy (Diagnosis prior to this pregnancy)</li> <li><input type="checkbox"/> Gestational (Diagnosis in this pregnancy)</li> </ul> </li> <li>Hypertension                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Pre-pregnancy (Chronic)</li> <li><input type="checkbox"/> Gestational (PIH, preeclampsia)</li> <li><input type="checkbox"/> Eclampsia</li> </ul> </li> <li><input type="checkbox"/> Previous preterm birth</li> <li><input type="checkbox"/> Other previous poor pregnancy outcome (Includes perinatal death, small-for-gestational age/intrauterine growth restricted birth)</li> <li><input type="checkbox"/> Pregnancy resulted from infertility treatment-If yes, check all that apply:                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination</li> <li><input type="checkbox"/> Assisted reproductive technology (e.g., In vitro fertilization (IVF), gamete Intrafallopian transfer (GIFT))</li> </ul> </li> <li><input type="checkbox"/> Mother had a previous cesarean delivery                              If yes, how many _____</li> <li><input type="checkbox"/> None of the above</li> </ul>		38. INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply) <ul style="list-style-type: none"> <li><input type="checkbox"/> Gonorrhea</li> <li><input type="checkbox"/> Syphilis</li> <li><input type="checkbox"/> Chlamydia</li> <li><input type="checkbox"/> Listeria</li> <li><input type="checkbox"/> Group B Streptococcus</li> <li><input type="checkbox"/> Cytomegalovirus</li> <li><input type="checkbox"/> Parvovirus</li> <li><input type="checkbox"/> Toxoplasmosis</li> <li><input type="checkbox"/> None of the above</li> <li><input type="checkbox"/> Other (Specify) _____</li> </ul>				
	39. METHOD OF DELIVERY <ul style="list-style-type: none"> <li>A. Was delivery with forceps attempted but unsuccessful?  <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>B. Was delivery with vacuum extraction attempted but unsuccessful?  <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>C. Fetal presentation at delivery                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Cephalic</li> <li><input type="checkbox"/> Breach</li> <li><input type="checkbox"/> Other</li> </ul> </li> <li>D. Final route and method of delivery (Check one)                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Vaginal/Spontaneous</li> <li><input type="checkbox"/> Vaginal/Forceps</li> <li><input type="checkbox"/> Vaginal/Vacuum</li> <li><input type="checkbox"/> Cesarean                                 <ul style="list-style-type: none"> <li>If cesarean, was a trial of labor attempted?  <input type="checkbox"/> Yes <input type="checkbox"/> No</li> </ul> </li> </ul> </li> <li>E. Hysterotomy/Hysterectomy  <input type="checkbox"/> Yes <input type="checkbox"/> No</li> </ul>		40. MATERNAL MORBIDITY (Check all that apply) (Complications associated with labor and delivery) <ul style="list-style-type: none"> <li><input type="checkbox"/> Maternal transfusion</li> <li><input type="checkbox"/> Third or fourth degree perineal laceration</li> <li><input type="checkbox"/> Ruptured uterus</li> <li><input type="checkbox"/> Unplanned hysterectomy</li> <li><input type="checkbox"/> Admission to intensive care unit</li> <li><input type="checkbox"/> Unplanned operating room procedure following delivery</li> <li><input type="checkbox"/> None of the above</li> </ul>				
41. CONGENITAL ANOMALIES OF THE FETUS (Check all that apply) <ul style="list-style-type: none"> <li><input type="checkbox"/> Anencephaly</li> <li><input type="checkbox"/> Meningocele/Spina bifida</li> <li><input type="checkbox"/> Cyanotic congenital heart disease</li> <li><input type="checkbox"/> Congenital diaphragmatic hernia</li> <li><input type="checkbox"/> Omphalocele</li> <li><input type="checkbox"/> Gastroschisis</li> <li><input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes)</li> <li><input type="checkbox"/> Cleft Lip with or without Cleft Palate</li> <li><input type="checkbox"/> Cleft Palate alone</li> <li><input type="checkbox"/> Down Syndrome                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Karyotype confirmed</li> <li><input type="checkbox"/> Karyotype pending</li> </ul> </li> <li><input type="checkbox"/> Suspected chromosomal disorder                         <ul style="list-style-type: none"> <li><input type="checkbox"/> Karyotype confirmed</li> <li><input type="checkbox"/> Karyotype pending</li> </ul> </li> <li><input type="checkbox"/> Hypospadias</li> <li><input type="checkbox"/> None of the anomalies listed above</li> </ul>							

# APPENDIX H (cont.)

## STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

OFFICE OF VITAL STATISTICS		STATE OF DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES REPORT OF FETAL DEATH		(107) STATE FILE #		
<b>FETUS</b>	1. NAME OF FETUS (optional-at the discretion of the parents )		2. TIME OF DELIVERY _____ <small>(24hr)</small>	3. SEX (M/F/Unk)	4. DATE OF DELIVERY (Mo/Day/Yr)	
	5a. CITY, TOWN, OR LOCATION OF DELIVERY	7. PLACE WHERE DELIVERY OCCURRED (Check one) <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding birthing center <input type="checkbox"/> Home Delivery: Planned to deliver at home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Clinic/Doctor's office <input type="checkbox"/> Other (Specify) _____		8. FACILITY NAME (if not institution, give street and number)		
	5b. ZIP CODE OF DELIVERY			9. FACILITY ID (NPI)		
	6. COUNTY OF DELIVERY					
<b>MOTHER</b>	10a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)			10b. DATE OF BIRTH (Mo/Day/Yr)		
	10c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)			10d. BIRTHPLACE (State, Territory, or Foreign Country)		
	11a. RESIDENCE OF MOTHER-STATE	11b. COUNTY	11c. CITY, TOWN, OR LOCATION			
	11d. STREET AND NUMBER	11e. APT. NO.	11f. ZIP CODE	11g. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>FATHER</b>	12a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		12b. DATE OF BIRTH (Mo/Day/Yr)	12c. BIRTHPLACE (State, Territory, or Foreign Country)		
	<b>13. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH</b>					
<b>CAUSE OF FETAL DEATH</b>	13a. INITIATING CAUSE/CONDITION <small>(AMONG THE CHOICES BELOW, PLEASE SELECT THE ONE WHICH MOST LIKELY BEGAN THE SEQUENCE OF EVENTS RESULTING IN THE DEATH OF THE FETUS)</small> Maternal Conditions/Diseases (Specify) _____ Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other Specify) _____ Other Obstetrical or Pregnancy Complications (Specify) _____ Fetal Anomaly (Specify) _____ Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____ <input type="checkbox"/> Unknown			13b. OTHER SIGNIFICANT CAUSES OR CONDITIONS <small>(SELECT OR SPECIFY ALL OTHER CONDITIONS CONTRIBUTING TO DEATH IN ITEM 13b)</small> Maternal Conditions/Diseases (Specify) _____ Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other Specify) _____ Other Obstetrical or Pregnancy Complications (Specify) _____ Fetal Anomaly (Specify) _____ Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____ <input type="checkbox"/> Unknown		
	13c. WEIGHT OF FETUS (grams preferred, specify unit) <input type="checkbox"/> grams <input type="checkbox"/> lb/oz		13e. ESTIMATED TIME OF FETAL DEATH <input type="checkbox"/> Dead at time of first assessment, no labor ongoing <input type="checkbox"/> Dead at time of first assessment, labor ongoing <input type="checkbox"/> Died during labor, after first assessment <input type="checkbox"/> Unknown time of fetal death		13f. WAS AN AUTOPSY PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	
	13d. OBSTETRIC ESTIMATE OF GESTATION AT DELIVERY _____ (completed weeks)				13g. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	
					13h. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>DISPOSITION</b>	14. METHOD OF DISPOSITION <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Hospital Disposition <input type="checkbox"/> Donation <input type="checkbox"/> Removal from State <input type="checkbox"/> Other (Specify) _____					
	<b>CERTIFIER AND REGISTRATION INFORMATION</b>					
15a. ATTENDANT'S NAME		15b. ATTENDANT'S NPI		15c. ATTENDANT'S TITLE <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> CNM/CM <input type="checkbox"/> OTHER MIDWIFE <input type="checkbox"/> OTHER (Specify) _____		
16a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE SHOWN AND THAT THE FETUS WAS BORN DEAD SIGNATURE ➤ _____				16b. DATE SIGNED _____		
16c. MAILING ADDRESS _____						
17a. NAME OF CEMETARY OR CREMATORY			17b. LOCATION (CITY, TOWN, COUNTY) (STATE)			
18a. DATE RECEIVED BY REGISTRAR		18b. REGISTRAR'S SIGNATURE ➤ _____		19. FUNERAL DIRECTOR'S SIGNATURE _____ ADDRESS _____		
MOTHER'S MEDICAL RECORD NO _____						



## APPENDIX H (cont.)

### STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

<b>AUTHORITY FOR BURIAL, TRANSPORTATION AND REMOVAL</b>	
This Burial-Transit Permit when completely filled in and bearing items 16a and 19, the signatures of the attending physician and the Funeral Director, becomes authority for Burial, Transportation and Removal of the above named Decedent.	
<i>This permit is not authority for cremation; separate authorization must be obtained.</i>	
<b>CEMETARY OR CREMATORY SHALL FILL OUT SECTION BELOW</b>	
The Decedent named above was buried <input type="checkbox"/> cremated <input type="checkbox"/> in the cemetery or crematory in item 17a.	
BURIAL WAS IN Section _____ Lot _____ Grave _____. The appropriate entry in the <input type="checkbox"/> Cemetery <input type="checkbox"/> Crematory registry has been made.	
Signature _____	_____
<small>Sexton or other person in charge</small>	<small>Date Signed</small>
<i>This Burial-Transit Permit must be signed above by the Cemetery or Crematory Authority. If no full time person is in charge of the cemetery, the Funeral Director may sign as Sexton. This Burial-Transit Permit is to be retained by the Manager, Superintendent, Caretaker, Sexton or other person in charge of Burial, Entombment or Cremation, or if none, then the Funeral Director.</i>	

REV. 04/2005

Sample

# APPENDIX I

## STATE OF DELAWARE CERTIFICATE OF MARRIAGE

1

**CERTIFICATE OF MARRIAGE**

**State of Delaware**

DIVISION OF PUBLIC HEALTH

STATE FILE NUMBER

**OFFICE OF VITAL STATISTICS**

**LOCAL REGISTRAR'S NO.**      **LICENSE NO.** 58801      **NO. LICENSE APPLICATION**      **PLACE LICENSE ISSUED**

GROOM				BRIDE			
NAME	FIRST	MIDDLE	LAST	NAME	FIRST	MIDDLE	LAST
RESIDENCE STREET OR NUMBER, CITY				RESIDENCE STREET OR NUMBER, CITY			
STATE		ZIP		STATE		ZIP	
DATE OF BIRTH		AGE		DATE OF BIRTH		AGE	
BIRTHPLACE (STATE OR FOREIGN COUNTRY)				BIRTHPLACE (STATE OR FOREIGN COUNTRY)			
<p>WE HEREBY CERTIFY THAT THE INFORMATION PROVIDED IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AND THAT WE ARE FREE TO MARRY UNDER THE LAWS OF THIS STATE</p>							
SIGNATURE OF GROOM <input checked="" type="checkbox"/>				SIGNATURE OF BRIDE <input checked="" type="checkbox"/>			
NAME	FIRST	MIDDLE	LAST	NAME	FIRST	MIDDLE	LAST
BIRTHPLACE (STATE OR FOREIGN COUNTRY)				BIRTHPLACE (STATE OR FOREIGN COUNTRY)			
MAIDEN NAME	FIRST	MIDDLE	LAST	MAIDEN NAME	FIRST	MIDDLE	LAST
BIRTHPLACE (STATE OR FOREIGN COUNTRY)				BIRTHPLACE (STATE OR FOREIGN COUNTRY)			

DRAFT

I hereby certify that on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, \_\_\_\_\_ M. \_\_\_\_\_ HOUR

the aforementioned persons were by me united in marriage at \_\_\_\_\_ (CITY, TOWN, OR LOCATION)

County of \_\_\_\_\_, in accordance with the Laws of the State of Delaware.

Signature of Clergy or Other Official ▶ \_\_\_\_\_ TITLE \_\_\_\_\_

RESIDENCE-STATE \_\_\_\_\_ COUNTY \_\_\_\_\_

Witnesses (two are required.)

1. NAME \_\_\_\_\_ RESIDENCE \_\_\_\_\_

2. NAME \_\_\_\_\_ RESIDENCE \_\_\_\_\_

3. NAME \_\_\_\_\_ RESIDENCE \_\_\_\_\_

REGISTRAR'S SIGNATURE \_\_\_\_\_ DATE RECEIVED BY LOCAL REGISTRAR \_\_\_\_\_

**VALID ONLY IN THE STATE OF DELAWARE**

**STATE FILE COPY**

	Number of this Marriage - 1st, 2nd, etc. (Specify below)	If Previously Married			Race/American Indian, Black, White, etc. (Specify below)	Education (Specify highest grade completed)	
		Date of First Marriage (Mth./Day/Year)	Last Marriage Ended by Death, Divorce or Annul. (Specify below)	Last Marriage Ended on: Mth./Day/Year		Elementary/Secondary (0-12)	College (1-4 or 5+)
<b>GROOM</b>							
<b>BRIDE</b>							



# APPENDIX K

## STATE OF DELAWARE REPORT OF INDUCED TERMINATION OF PREGNANCY



DELAWARE HEALTH  
AND SOCIAL SERVICES

### REPORT OF INDUCED TERMINATION OF PREGNANCY

1. FACILITY NAME (if not clinic or hospital, give address)		2. CITY, TOWN, OR LOCATION OF PREGNANCY TERMINATION		3. COUNTY OF PREGNANCY TERMINATION	
4. FORM NUMBER		5. AGE LAST BIRTHDAY	6. MARRIED? <input type="checkbox"/> Yes <input type="checkbox"/> No	7. DATE OF PREGNANCY TERMINATION (Month, Day, Year)	
8a. RESIDENCE - STATE		8b. COUNTY	8c. CITY, TOWN, OR LOCATION		8d. ZIP CODE
9. OF HISPANIC ORIGIN? (Specify No or Yes - If yes, specify Cuban, Mexican, Puerto Rican, etc.)  <input type="checkbox"/> No <input type="checkbox"/> Yes  Specify: _____		10. RACE  <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Other (Specify) _____		11. EDUCATION (Specify only highest grade completed)  Elementary/Secondary (0-12)   College (1-4 or 5+)	
12. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)	13. CLINICAL ESTIMATE OF GESTATION (Weeks)	14. PREVIOUS PREGNANCIES (Complete each section)			
		LIVE BIRTHS		OTHER TERMINATIONS	
		14a. Now Living	14b. Not Living	14c. Spontaneous	14d. Induced (Do not include this termination)
		Number _____ <input type="checkbox"/> None	Number _____ <input type="checkbox"/> None	Number _____ <input type="checkbox"/> None	Number _____ <input type="checkbox"/> None
15. TYPE OF TERMINATION PROCEDURE (Check only one)					
<input type="checkbox"/> Suction Curettage <input type="checkbox"/> Medical (Nonsurgical), Specify Medication(s) _____ <input type="checkbox"/> Dilation and Evacuation (D&E) <input type="checkbox"/> Intra-Uterine Instillation (Saline or Prostaglandin) <input type="checkbox"/> Sharp Curettage (D&C) <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> Other (Specify) _____					

(Instructions on back)

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

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

## 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 ..... (A04,A07–A09)
#	Tuberculosis ..... (A16–A19)
4	Respiratory tuberculosis ..... (A16)
5	Other tuberculosis ..... (A17–A19)
6#	Whooping cough ..... (A37)
7#	Scarlet fever and erysipelas ..... (A38,A46)
8#	Meningococcal infection ..... (A39)
9#	Septicemia ..... (A40–A41)
10#	Syphilis ..... (A50–A53)
11#	Acute poliomyelitis ..... (A80)
12#	Arthropod-borne viral encephalitis ..... (A83–A84,A85.2)
13#	Measles ..... (B05)
14#	Viral hepatitis ..... (B15–B19)
15#	Human immunodeficiency virus (HIV) disease ..... (B20–B24)
16#	Malaria ..... (B50–B54)
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 ..... (C00–C97)
18	Malignant neoplasms of lip, oral cavity and pharynx ..... (C00–C14)
19	Malignant neoplasm of esophagus ..... (C15)
20	Malignant neoplasm of stomach ..... (C16)
21	Malignant neoplasms of colon, rectum and anus ..... (C18–C21)
22	Malignant neoplasms of liver and intrahepatic bile ducts ..... (C22)
23	Malignant neoplasm of pancreas ..... (C25)
24	Malignant neoplasm of larynx ..... (C32)
25	Malignant neoplasms of trachea, bronchus and lung ..... (C33–C34)
26	Malignant melanoma of skin ..... (C43)
27	Malignant neoplasm of breast ..... (C50)
28	Malignant neoplasm of cervix uteri ..... (C53)
29	Malignant neoplasms of corpus uteri and uterus, part unspecified ..... (C54–C55)
30	Malignant neoplasm of ovary ..... (C56)
31	Malignant neoplasm of prostate ..... (C61)
32	Malignant neoplasms of kidney and renal pelvis ..... (C64–C65)
33	Malignant neoplasm of bladder ..... (C67)
34	Malignant neoplasms of meninges, brain and other parts of central nervous system ..... (C70–C72)
	Malignant neoplasms of lymphoid, hematopoietic and related tissue ..... (C81–C96)
35	Hodgkin's disease ..... (C81)
36	Non-Hodgkin's lymphoma ..... (C82–C85)
37	Leukemia ..... (C91–C95)
38	Multiple myeloma and immunoproliferative neoplasms ..... (C88,C90)
39	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue ..... (C96)
40	All other and unspecified malignant neoplasms ..... (C17,C23–C24,C26–C31,C37–C41,C44–C49,C51–C52,C57–C60,C62–C63,C66,C68–C69,C73–C80,C97)
41#	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior ..... (D00–D48)
42#	Anemias ..... (D50–D64)
43#	Diabetes mellitus ..... (E10–E14)
#	Nutritional deficiencies ..... (E40–E64)
44	Malnutrition ..... (E40–E46)
45	Other nutritional deficiencies ..... (E50–E64)
46#	Meningitis ..... (G00,G03)
47#	Parkinson's disease ..... (G20–G21)
48#	Alzheimer's disease ..... (G30)
#	Major cardiovascular diseases ..... (I00–I78)
	Diseases of heart ..... (I00–I09,I11,I13,I20–I51)
49	Acute rheumatic fever and chronic rheumatic heart diseases ..... (I00–I09)
50	Hypertensive heart disease ..... (I11)
51	Hypertensive heart and renal disease ..... (I13)

## 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 . . . . . (I20–I25)
52	Acute myocardial infarction . . . . . (I21–I22)
53	Other acute ischemic heart diseases . . . . . (I24)
	Other forms of chronic ischemic heart disease . . . . . (I20, I25)
54	Atherosclerotic cardiovascular disease, so described . . . . . (I25.0)
55	All other forms of chronic ischemic heart disease . . . . . (I20, I25.1–I25.9)
	Other heart diseases . . . . . (I26–I51)
56	Acute and subacute endocarditis . . . . . (I33)
57	Diseases of pericardium and acute myocarditis . . . . . (I30–I31, I40)
58	Heart failure . . . . . (I50)
59	All other forms of heart disease . . . . . (I26–I28, I34–I38, I42–I49, I51)
60#	Essential hypertension and hypertensive renal disease . . . . . (I10, I12, I15)
61#	Cerebrovascular diseases . . . . . (I60–I69)
62#	Atherosclerosis . . . . . (I70)
	Other diseases of circulatory system . . . . . (I71–I78)
63#	Aortic aneurysm and dissection . . . . . (I71)
64	Other diseases of arteries, arterioles and capillaries . . . . . (I72–I78)
65	Other disorders of circulatory system . . . . . (I80–I99)
#	Influenza and pneumonia . . . . . (J09–J18)
66	Influenza . . . . . (J09–J11)
67	Pneumonia . . . . . (J12–J18)
	Other acute lower respiratory infections . . . . . (J20–J22, U04)
68#	Acute bronchitis and bronchiolitis . . . . . (J20–J21)
69	Other and unspecified acute lower respiratory infection . . . . . (J22, U04)
#	Chronic lower respiratory diseases . . . . . (J40–J47)
70	Bronchitis, chronic and unspecified . . . . . (J40–J42)
71	Emphysema . . . . . (J43)
72	Asthma . . . . . (J45–J46)
73	Other chronic lower respiratory diseases . . . . . (J44, J47)
74#	Pneumoconioses and chemical effects . . . . . (J60–J66, J68)
75#	Pneumonitis due to solids and liquids . . . . . (J69)
76	Other diseases of respiratory system . . . . . (J00–J06, J30–J39, J67, J70–J98)
77#	Peptic ulcer . . . . . (K25–K28)
78#	Diseases of appendix . . . . . (K35–K38)
79#	Hernia . . . . . (K40–K46)
#	Chronic liver disease and cirrhosis . . . . . (K70, K73–K74)
80	Alcoholic liver disease . . . . . (K70)
81	Other chronic liver disease and cirrhosis . . . . . (K73–K74)
82#	Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82)
#	Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07, N17–N19, N25–N27)
83	Acute and rapidly progressive nephritic and nephrotic syndrome . . . . . (N00–N01, N04)
84	Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . . (N02–N03, N05–N07, N26)
85	Renal failure . . . . . (N17–N19)
86	Other disorders of kidney . . . . . (N25, N27)
87#	Infections of kidney . . . . . (N10–N12, N13.6, N15.1)
88#	Hyperplasia of prostate . . . . . (N40)
89#	Inflammatory diseases of female pelvic organs . . . . . (N70–N76)
#	Pregnancy, childbirth and the puerperium . . . . . (O00–O99)
90	Pregnancy with abortive outcome . . . . . (O00–O07)
91	Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99)
92#	Certain conditions originating in the perinatal period . . . . . (P00–P96)
93#	Congenital malformations, deformations and chromosomal abnormalities . . . . . (Q00–Q99)
94	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99)
95	All other diseases . . . . . (residual)
#	Accidents (unintentional injuries) . . . . . (V01–X59, Y85–Y86)
	Transport accidents . . . . . (V01–V99, Y85)
96	Motor vehicle accidents . . . . . (V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2)
97	Other land transport accidents . . . . . (V01, V05–V06, V09.1, V09.3–V09.9, V10–V11, V15–V18, V19.3, V19.8–V19.9, V80.0–V80.2, V80.6–V80.9, V81.2–V81.9, V82.2–V82.9, V87.9, V88.9, V89.1, V89.3, V89.9)
98	Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99, Y85)

## 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 . . . . . (W00–X59,Y86)
99	Falls . . . . . (W00–W19)
100	Accidental discharge of firearms . . . . . (W32–W34)
101	Accidental drowning and submersion . . . . . (W65–W74)
102	Accidental exposure to smoke, fire and flames . . . . . (X00–X09)
103	Accidental poisoning and exposure to noxious substances . . . . . (X40–X49)
104	Other and unspecified nontransport accidents and their sequelae . . . . . (W20–W31,W35–W64,W75–W99,X10–X39,X50–X59,Y86)
#	Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0)
105	Intentional self-harm (suicide) by discharge of firearms . . . . . (X72–X74)
106	Intentional self-harm (suicide) by other and unspecified means and their sequelae . . . . . (*U03,X60–X71,X75–X84,Y87.0)
#	Assault (homicide) . . . . . (*U01–*U02,X85–Y09,Y87.1)
107	Assault (homicide) by discharge of firearms . . . . . (*U01.4,X93–X95)
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 . . . . . (Y35,Y89.0)
	Events of undetermined intent . . . . . (Y10–Y34,Y87.2,Y89.9)
110	Discharge of firearms, undetermined intent . . . . . (Y22–Y24)
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 . . . . . (Y40–Y84,Y88)
#	Enterocolitis due to <i>Clostridium difficile</i> . . . . . (A04.7) <sup>2</sup>

<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.*  
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