Technical Notes

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TECHNICAL NOTES

SOURCES OF DATA

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

The cut-off date for data in this report was October 31 after the close of the calendar year. Any data pertaining to an event for which a certificate was filed after this date, are not included in this report. It is possible that data obtained directly from the Delaware Health Statistics Center (DHSC) may differ slightly from that which appear in this report. If this should occur, it is the result of an update that was made after the cut-off date for this report.

Births and deaths to Delaware residents which took place in other states are included in this report. The inclusion of these data is made possible by an agreement among all registration areas in the United States for the exchange of copies of resident certificates.

MARRIAGES AND DIVORCES: Each of Delaware's three counties has a state office for the collection of marriage certificates. All of these certificates are processed and maintained by the Office of Vital Statistics in the Division of Public Health's central office in Dover. 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: Beginning on January 1, 1997, all induced terminations of pregnancy (ITOP) were required to be reported to the Department. Reports of induced termination of pregnancy are filed directly with the DHSC. The reports are filed for statistical purposes only and are shredded and discarded when all reports for the data year have been coded. ITOP records are currently not being exchanged among the states, so 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 refer to live births, fetal deaths, and ITOP. When used in combination, these three events can yield a great deal of information regarding pregnancy and pregnancy outcomes that is not possible by looking at each individual event separately. For example, live birth rates can be calculated using live births in conjunction with population data. However, differences observed between live birth rates in two or more geographic areas or within the same area at different points in time may be due to differences in the rate of pregnancy, differences in pregnancy outcomes (i.e., live birth, fetal death, or ITOP), or a combination of these factors. Only pregnancy rates allow such questions to be thoroughly examined. 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. Copies of 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 two programs related to improving the quality of information received on vital records--the query and field programs.

The query program is a system used to follow-back to hospital and clinic personnel, funeral directors and/or physicians concerning data quality problems. The follow-back contact is usually via mail and/or telephone. 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 with various associations representing the individuals listed above.

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 or, when weight is unattainable, if 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 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. 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.

Allocation of vital events by place of residence is sometimes difficult because classification depends entirely on a statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. However, in recent years, the DHSC has invested a great deal of effort into editing of address information leading to a significant improvement in data quality.

In any case, geographical allocation is generally a problem only at the level of census tract. Resident counts at the State level are, for all practical purposes, complete. County resident figures are substantially correct and can be used with a high degree of confidence.

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 \text{ lb.} 1 oz. or less
  500 - 999 grams = 1 lb. 2 ozs. - 2 lbs. 3ozs.
1,000 - 1,499 \text{ grams} = 2 \text{ lbs. } 4 \text{ ozs.} - 3 \text{ lbs. } 4 \text{ ozs.}
1,500 - 1,999 \text{ grams} = 3 \text{ lbs. } 5 \text{ ozs.} - 4 \text{ lbs. } 6 \text{ ozs.}
2,000 - 2,499 \text{ grams} = 4 \text{ lbs. } 7 \text{ ozs. } -5 \text{ lbs. } 8 \text{ ozs.}
2,500 - 2,999 grams = 5 lbs. 9 ozs. - 6 lbs. 9ozs.
3,000 - 3,499 \text{ grams} = 6 \text{ lbs. } 10 \text{ ozs. } -7 \text{ lbs. } 11 \text{ ozs.}
3,500 - 3,999 \text{ grams} = 7 \text{ lbs. } 12 \text{ ozs.} - 8 \text{ lbs. } 12 \text{ ozs.}
4,000 - 4,499 \text{ grams} = 8 \text{ lbs. } 13 \text{ ozs. } -9 \text{ lbs. } 14 \text{ ozs.}
4,500 - 4,999 \text{ grams} = 9 \text{ lbs. } 15 \text{ ozs. } -11 \text{ lbs. } 0 \text{ ozs.}
5,000 \text{ grams or more} = 11 \text{ lbs. } 1 \text{ 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.

All statistics are subject to random variation. 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

¹See Appendix A for more details.

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:

> White Black American Indian/Aleut/Eskimo Chinese Japanese Other Hawaiian Asian and Pacific Islander Filipino Other Asian or Pacific Islander Other

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.

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

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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. 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} .

²See 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 $RSE(R_1) = 100 * \sqrt{\frac{1}{D} + \frac{1}{B}}$

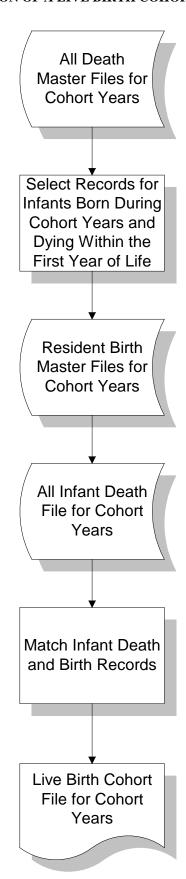
Comparison of two infant mortality rates - When the number of events for one or both of the rates was less than 100, comparisons between rates were based on the confidence intervals for each. If they overlapped, the difference was not significant. When the number of events for both rates was 100 or more, 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 code	es according to
Cause of death	ICD-10 ¹	ICD-9 ²
Disable and an algorithm of the factions and the	4.00	000
Diarrhea and gastroenteritis of infectious origin	A09	009
Tuberculosis	A16–A19	010-018
Tetanus	A33,A35	037,771.3
Diptheria	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
/aricella (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
n 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
/olume depletion, disorders of fluid, electrolyte and acid-base palance	E86-E87	276
Meningitis	G00,G03	320-322
nfantile spinal muscular atrophy, type I	G12.0	335.0
nfantile 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
nfluenza 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
Sastritis, duodenitis, and noninfective enteritis and colitis	K29,K50-K55	535,555-558
Hernia of abdominal cavity and intestinal obstruction without nernia	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 Newborn affected by complications of placenta, cord, and	P01	761
nembranes	P02	762

APPENDIX D (cont.)

COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF INFANT DEATH

Cause of death	Category	codes according to
Cause of death	ICD-10 ¹	ICD-9 ²
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	767
ntrauterine hypoxia and birth asphyxia	P20-P21	768
Respiratory distress of newborn	P22	769
Congenital pneumonia	P23	770.0
Neonatal aspiration syndrome	P24	770.1
nterstitial 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	P280P28.1	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	P55-P59	
perinatal jaundice		773-774
Hematological disorders	P60-P61	776.1-776.9
Syndrome of infant of a diabetic mother and neonatal diabetes	P70.0-P70.2	
mellitus	D77	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

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

APPENDIX E

COMPARABLE CATEGORY CODES FOR SELECTED CAUSES OF DEATH

Cause of death		es according to
	ICD-10 ¹	ICD-9 ²
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 In situ, benign, and neoplasms of uncertain or unk	C00-C97	140-208
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	l71	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 ¹	ICD-9 ²
Congenital malformations, deformations and	000 000	740.750
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

(107)

CERTIFICATE OF LIVE BIRTH STATE FILE# 1. CHILD'S NAME (First, Middle, Last, Suffix) 4. DATE OF BIRTH (Mo/Day/Yr) 2. TIME OF BIRTH CHILD 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 9b. COUNTY 9c CITY TOWN OR LOCATION 9f. ZIP CODE 9d. STREET AND NUMBER 9g. INSIDE CITY LIMITS? 10c. BIRTHPLACE (State, Territory, or Foreign Country) 10a FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) 10b. DATE OF BIRTH (Mo/Day/Yr) FATHER 12 DATE CERTIFIED 13 DATE FILED BY REGISTRAR 11. CERTIFIER'S NAME TITLE: ☐ MD ☐ DO ☐ HOSPITAL ADMIN. ☐ CNM/CM ☐ OTHER MIDWIFE MM DD YYYY CERTIFIER MM DD YYYY OTHER (SPECIFY)___ INFORMATION FOR ADMINISTRATIVE USE MOTHER'S MAILING ADDRESS: Same as residence, or MOTHER 17 FACILITY ID (NPI) STREET & NUMBER: 15. MOTHER MARPI APARTMENT NO. OTHER MARRIED? (At birth, conception, or any time between)

Yes \[\] No SOCIAL SECURITY NUMBER REQUESTED FOR CHILD? IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED IN THE HOSPITAL?

☐ Yes ☐ No

18. MOTHER'S SOCIAL SECURITY NUMBER: ☐ Yes ☐ No 19. FATHER'S SOCIAL SECURITY NUMBER: INFORMATION FOR MEDICAL AND HEALTH PURPOSES ONLY MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be) MOTHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) 21 MOTHER OF HIBPANIC ORIGIN? (Check the box that best describes whether the mother is MOTHER Spanish/Hispanic/Latina. Check the "No" box if mother is not Spanish/Hispanic/Latina) □ White
□ Black or African American
□ Black or African American
□ American Indian or Alasks Native
(Name of the enrolled or principal tribe)
□ Asian Indian
□ Chinese
□ Filipino
□ Japanese
□ Korean
□ Vietnamese
□ Other de □ 8th grade or less
□ 9th − 12th 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,
MEngMEd, MSW, MBA)
□ Doctorate (e.g., PhD, EdD) or
Professional degree (e.g., MD, DDS,
DVM, LLB, JD) ☐ No not Spanish/Hispanic/Latina Yes, Mexican, Mexican American, Chicana MOTHER'S MEDICAL ☐ Yes, Puerto Rican RECORD NO Yes, Cuban Yes, other Spanish/Hispanic/Latina Unternamese
Other Asian (Specify)
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander (Specify)
Other (Specify) (Specify) 23. FATHER'S EDUCATION (Check the box that 24.FATHER OF HISPANIC ORIGIN? (Check the box FATHER'S RACE (Check one or more races to indicate what the father considers himself to be) best describes the highest degree or level of school completed at the time of delivery) 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
Viotnamese
Other Asian (Specify)
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander (Specify)
Other (Specify) B[®] grade or less
B[®] – 12[®] 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)
Moster's degree (e.g., BA, BS, BS)
Moster's degree (e.g., BA, BS, BS)
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 Yes, Puerto Rican ☐ Yes Cuban ☐ Yes, other Spanish/Hispanic/Latino (Specify) 27. ATTENDANT'S NAME, TITLE, AND NPI 26 PLACE WHERE BIRTH OCCURRED MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL 26. PLACE WHERE BIRTH OCCURRED (Check one)

Hospital
Freestanding birthing center
Home Birth: Planned to deliver at home? STATE INDICATIONS FOR DELIVERY?

☐ Yes ☐ No OFFICE USE ONLY IF YES, ENTER NAME OF FACILITY MOTHER TRANSFERRED FROM: TITLE: MD DO CNM/CM ☐ Clinic/Doctor's o Clinic/Doctor's office DPH REV 4/2005 OTHER (Specify)

APPENDIX F (cont.)

STATE OF DELAWARE CERTIFICATE OF LIVE BIRTH STATISTICAL SECTION

мотигр	29a. DATE O	FIRST PRENAT	AL CARE	296.	DATE OF LAST PRENAT.	AL CARE VISIT	30. TO	TAL NUMBER C	F PRENATAL VISITS FOR THIS	
MOTHER	MM DD Y		Prenatal Care		MM DD 1	MY.			(If none, enter "0")	
	31. MOTHER		32 MOTHER'S	33.	MOTHER'S WEIGHT AT D				FOOD FOR HERSELF DURING THIS	
	(feet/i	nches)	PRE-PREGNANCY WEIGHT		(pounds)			EGNANCY?		
	35. NUMBER	OF PREVIOUS	(pounds) 36. NUMBER OF OTHER	37.0	CIGARETTE SMOKING BE	FORE AND DURING PREGNA	NCY		38 PRINCIPAL SOURCE OF	
	LIVE BIRT include th	HS (Do not	PREGNANCY OUTCOMES	F	For each time period, e	nter the number of cigaret erage number of cigarette	tes smoked	i	PAYMENT FOR THIS DELIVERY	
	include ii	as cracy	(Spontaneous or induced losses or		of cigarettes smoked p		a di pauka		MANUFACTURE CO.	
	1.7		ectopic pregnancies)			# of Cigarettes	# or pack	s	☐ Private Insurance	
	75-	756	36a OTHER	Th	nree Months Before Pre				Medicaid	
	35a. Now Living	35b. Now Dead	OUTCOMES	Fi	rst Three Months of Pri	egnancyO	R		☐ Self pay	
	Number	Number	NUMBER		econd Three Months of est Trimester of Pregna	PregnancyO)HC	100	☐ Other (Specify)	
	☐ None	☐ None	None		THE STREET STREET				1-0000000000000000000000000000000000000	
	NAME OF TAXABLE PARTY.	1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Martin Martin Sal					7		
	35c DATE O	F LAST LIVE	36b. DATE OF LAST OTHER PREGNANCY OUTCOME		39. DATE LAST NOR	MAL MENSES BEGAN		40. MC	OTHER'S MEDICAL RECORD NUMBER	
	MM	YYYY	MM YYYY			DD YYYY				
MEDICAL			REGNANCY (Check all that apply)):		(CHECK ALL THAT APPLY)	1.4	6. METHOD OF DE	ELIVERY	
	Diabetes				☐ Premature Ruptu	re of Membranes		. Was deliver	y with forceps attempted but	
AND	☐ Pre-Pre		nosis prior to this pregnancy) is in this pregnancy)		(prolonged, >=		1500	unsuccessful?	Yes No	
HEALTH	Hypertensic	n	Property of the Company of the Compa		☐ Precipitous Labo	r / C 2 hear l				
INFORMATION	☐ Pre-Pre-Pre-Pre-Pre-Pre-Pre-Pre-Pre-Pre-	egnancy (Chro ional	nic)		L Precipitous cabo	(-Sha)	E	 Was delivery but unsuccess! 	with vacuum extraction attempted ful?	
mionimanion	☐ Eclamp	sia			☐ Prolonged Labor	(>= 20 hrs.)			Yes No	
	Previous preterm birth Other previous poor pregnancy outcome (includes				☐ None of the Abox	re .		Fetal presentat	ion at birth	
		al death, smail- restricted birth)	for-gestational age/intrauterine				100	☐ Cephalic ☐ Breech		
	Pregnand all that a		infertility treatment-if yes, chec	sk.				☐ Other		
	☐ Fer	tility-enhancing	drugs, Artificial insemination or	e					method of delivery (Check one)	
	☐ Ass		tive technology (e.g. in vitro					☐ Vaginal/Spo	ceps	
	fertilization [IVF], gamete intrafallopian transfer [GIFT])							☐ Vaginal/Vac	cuum	
	☐ Mother h	ad a previous o	esarean delivery		A 75				vas a trial of labor attempted?	
	☐ None of t			100					Yes No	
		NS PRESENT AN DURING THIS P			45. CHARACTERISTIC	S OF LABOR AND DELIVERY	1	 MATERNAL MOI apply) 	RBIDITY (Check all that	
	(Check all that apply)				☐ Induction of late	of labor			s associated with labor	
	TREATED DURING THIS PREGNANCY				□ Non-vertex pre	sentation		and delivery)		
			maturation rece	corticoids) for fetal lung lived by the mother prior t	to	☐ Maternal trans				
			delivery	erved by the mother during		☐ Third or fourth laceration	degree perineal			
			Jabor	mnionitis diagnosed durin		☐ Ruptured uter				
	Hepatitis B Hepatitis C None of the above 43. OBSTETRIC PROCEDURES (Check all that apply) Cervical cerclage Tocolysis External cephalic version:			labor or mater	nal temperature ≥38° C	_				
			☐ Moderate/heavy meconium staining of the			e				
				amniotic fluid			- 13	☐ Admission to intensive care unit		
	External cep	External cephalic version:			more of the following actions was taken:			 Unplanned operating room procedure following delivery None of the above 		
	Successful Failed None of the above			in-utero resuscutative measures, further fetal assessment, or operative delivery Epidural or spinal anesthesia during labor None of the above						
							er.			
	Successful In-lufero resuscitative measures, further following delivery fetal assessment, or operative None of the above Epidural or spinal anesthesia during labor None of the above None of the above NewBorn MEDICAL RECORD NUMBER S4. ABNORMAL CONDITIONS OF THE NEWBORN S5. CONGENITAL ANOMALIES									
NEMBODA	48 NEWBOR	N MEDICAL REC	ORD NUMBER	54		Unplanned hysterectomy Unplanned hysterectomy Unplanned hysterectomy Admission to intensive care unit Petal intolerance of labor such that one or more of the following actions was taken: in-utero resuscitative measures, further fetal assessment, or operative delivery Unplanned operating room procedure following delivery None of the above Petal according to the above NewBorn Information Semal conditions of the results of the above Semal conditions of the above Semal condi				
NEWBORN		200					that one or vas taken: s, further Upplanned operating room procedure following delivery Unplanned operating room procedure following delivery None of the above None of the above S5 CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply) Anencephaly Meningomyelocele/Spina bifida			
	49. BIRTHWE	IGHT (grams pr	eferred, specify unit)		Assisted ventilation re following delivery	quired immediately		Meningomyetocel	e/Spina bifida	
	-	O orams	□ lb/oz		Assisted ventilation re	quired for more than six		yanotic congenit	tal heart disease	
	49. BIRTHWEIGHT (grams preferred, specify unit) Assisted ventilation required immediately Anencephaly Meningomyetocele/Spina bif	oginario nerma								
	-		(completed weeks)			tant replacement therapy		imb reduction de		
	51. APGART	CORE		- 0	Antibiotics received by suspected neonatal se			ongenital amputa syndromes)	ation and dwarfing	
	Score at 5 m	ninutes		0	Seizure or serious nec				ithout Cleft Palate	
	0.3825000000000000000000000000000000000000	score is less t	han C		Significant birth injury	(skeletal fracture(s),		Jown Syndrome		
	NOTES OF THE PARTY		eran d,		organ hemorrhage wi	 and/or soft tissue/solid nich requires intervention) 		☐ Karyotype co ☐ Karyotype pe	nding	
	Score at 10		on Triplet etc		None of the above			Suspected chromi Karyotype co	nfirmed	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TY - Single, Tw	m, implet, etc.				г.	☐ Karyotype pe typospadias	nding	
	(Specify) _							Typospadias None of the above	0	
	53 IENOTE	NGI F RIPTH . D	orn first, second, third, etc.	-						
	100000000000000000000000000000000000000		and an analysis and state							
	(Specify) _									
			RED WITHIN 24 HOURS OF DELIVE	RY? [☐ Yes ☐ No	57. IS INFANT LIVING AT	TIME OF RE	PORT?	58. IS INFANT BEING BREASTFED AT DISCHARGE?	
	TRANSFERRE	E OF FACILITY IN D TO:	FANT			☐ Yes ☐ No ☐ Infant	t transferred	status unknown	BREASTFED AT DISCHARGE?	

APPENDIX G

STATE OF DELAWARE CERTIFICATE OF DEATH

OFFICE OF VITAL **STATISTICS**

CERTIFICATE OF DEATH

State of Delaware DEPARTMENT OF HEALTH AND SOCIAL

State File Number

(107)

					VICES								
	1.	DECEDENT'S LEGAL	NAME (Include AKA's	s if any) (First, Middle,	Last)				2. SEX		3. SOC	CIAL SECURIT	TY NUMBER
	4a.	. AGE-Last Birthday (Years)	4b. UNDER 1 YEAR Months Days	4c. UNDER 1 DAY Hours Minutes	5. DATE C (Mo/Day			6. BIRTHPLA	ACE (City	and Sta	ate or F	oreign Countr	y)
	7a.	. RESIDENCE-STATE		7b. COUNTY	•	7c. C	ITY OR	TOWN					
	7d.	. STREET AND NUMB	BER			7e. APT	. NO.	7f. ZIP CODE		g. INSII lo	DE CIT	Y LIMITS?	□ Yes □
		EVER IN US ARMED FORCES?	☐ Married [TATUS AT TIME OF D Widowed □ Divord ed □ Unknown		10. S	URVIVIN	I IG SPOUSE'S	NAME	(If wife, g	give na	me prior to firs	st marriage)
3y:	11.	. FATHER'S NAME (F	First, Middle, Last)				12. MO	THER'S NAME	PRIOR	TO FIR	ST MA	RRIAGE (Firs	t, Middle, Last)
Completed/ Verified By:	13:	a. INFORMANT'S NAM	ИΕ	13b. RELATION DECEDENT	SHIP TO		13c. MA	AILING ADDRE	ESS (Stre	eet and I	Numbe	r, City, State,	Zip Code)
ed/\				14. PLACE OF	DEATH (Ch	eck only	one; see	instructions)					
3e Completed/ Verified	Arr	F DEATH OCCURRED Inpatient ☐ Emerger ival						RE OTHER THe/Long term ca				t's home	Other (Specify):
8 <u>-</u>	15.	. FACILITY NAME (If n	not institution, give stre	et & number)	6. CITY OR	TOWN , S	STATE, A	AND ZIP COD	E		1	17. COUNTY	OF DEATH
7			SITION: Burial	19. PLACE	OF DISPOS	ITION (Na	ame of ce	emetery, crema	atory, oth	er place	e)		
	20.	LOCATION-CITY, TO	OWN, AND STATE	21. NAME AND	COMPLETI	E ADDRE	SS OF F	UNERAL FAC	ILITY				
	22.	. SIGNATURE OF FUN	NERAL SERVICE LICE	ENSEE OR OTHER AC	SENT					23. LI	CENSE	NUMBER (Of Licensee)
		EMS 24-28 MUST B			. DATE PRO	ONOUNC	ED DEA	D (Mo/Day/Yr)]	25. TIN	ME PRONOUN	ICED DEAD
		HO PRONOUNCES SIGNATURE OF PER			applicable)		27. L	ICENSE NUM	BER		28.	DATE SIGNI	ED (Mo/Day/Yr)
	29.	. ACTUAL OR PRESUI (Mo/Day/Yr) (Spell M		H 30. ACTU	JAL OR PRE	SUMED	TIME OF	DEATH		. WAS I		AL EXAMINE	२
		(IVIO/Day/11) (Spell IVI		ISE OF DEATH (See inst	ruction	s and	examples		JNIACI			Approximate
		32. PART I. Enter the gradiac	chain of eventsdiseas		ationsthat	directly ca	aused the	e death. DO N	OT ente				interval: Onset to death
	ad	ditional lines if necessary.	irrest, or ventricular lib	illiation without showing	g trie ettolog	y. DO NO	71 ADDIN	LVIATE. LINE	or orliny or	ie cause	onan	ille. Add	dealii
Completed By:	ll c	MMEDIATE CAUSE (Fi											
olete FRT	a	esulting in death)		Due	to (or as a co	onsequen	ce of):						=
lmoS	b.	Sequentially list conditio	ons,										
To Be	li li	f any, leading to the car isted on line a. Enter th JNDERLYING CAUSE	ne	Due	to (or as a c	onsequen	ce of):						-
	c (ii	disease or injury that nitiated the events resul n death) LAST		Due	to (or as a c	consequer	nce of):						_
	d												
													-
	PA	ART II. Enter other signi	ificant conditions conti	ributing to death but no	t resulting in	the unde	rlying ca	use given in P		□ `	Yes [UTOPSY PER □ No □ Ur	nknown
										34. WEF AVAILAE CON	RE AUT BLE TO MPLETI	TOPSY FINDII)	NGS OF DEATH?

APPENDIX G (cont.)

STATE OF DELAWARE CERTIFICATE OF DEATH

		35. DID TOBACCO USE CONTRIBUTE TO DEATH? Yes Prob No Unkni	Not pi Pregn Not pi Not pi Unkn	regnant within past year nant at time of death regnant, but pregnant within 42 days of o regnant, but pregnant 43 days to 1 year own if pregnant within the past year	before death	37. MANNER (Natural Accident Investigation Suicide determined	☐ Homicide ☐ Pending ☐ Could not be
		38. DATE OF INJURY (Mo/Day/Yr) (Spell Month)	39. TIME OF INJURY	40. PLACE OF INJURY (e.g., Decedent's area)	home; construction site; restaura	ant; wooded	41. INJURY AT WORK? ☐ Yes ☐ No
		42. LOCATION OF INJUI Street & Number: 43. DESCRIBE HOW INJ			SP	. IF TRANSPOR ECIFY: Driver/Operator Passenger Pedestrian	Zip Code: TATION INJURY,
		Pronouncing & Certifing Medical Examiner-Or stated. Signature of certifier:	To the best of my knowledgying physician-To the best in the basis of examination,	ge, death occurred due to the cause(s) and of my knowledge, death occurred at the tim and/or investigation, in my opinion, death on the complexity of the co	e, date, and place, and due to the courred at the time, date, and pl	. ,	manner stated.
		47. TITLE OF CERTIFIER 51. DECEDENT'S EDUC	ATION-Check 52. DEC	NUMBER 49. DATE CERTIF (Mo/Day/Yr) EEDENT OF HISPANIC ORIGIN? Check th	(Mo/Day/Yr)	heck one or more	
Amendmen t Code:		the box that best describe degree or level of school of time of death. 8th grade or less 9th - 12th grade; no of	completed at the Spar dece	best describes whether the decedent is nish/Hispanic/Latino. Check the "No" box it edent is not Spanish/Hispanic/Latino.	☐ White ☐ Black or African American ☐ American Indian or Alas	an ka Native	o be)
Amendmen t Number: Date:		☐ High school graduate completed ☐ Professional Trade S ☐ Some college credit,	chool Yes	not Spanish/Hispanio/Latino , Mexican, Mexican American, Chicano , Puerto Rican	(Name of the enrolled or Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian	principal tribe) _	
User ID:	Be Completed By:	Associate degree (e. Bachelor's degree (e. Master's degree (e.g MEng, MEd, MSW, MBA)	.g., BA, AB, BS) Yes (Spe	, Cuban , other Spanish/Hispanic/Latino ecify)	(Specify) Native Hawaiian Guamanian or Chamorr Samoan Other Pacific Islander (Specify)	0	
SFN:	To Be C	DVM, LLB, JD) Unknown	(e.g., MD, DDS,	own type of work done during most of working li	Other (Specify): Unknown		
		55. KIND OF BUSINESS/	,	type of more during most of working in	io. DO NOT GOE RETIRED.)		

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 | 3. SEX (WIFfUnk) (107) STATE FILE # 4. DATE OF DELIV ERY (Mo/Day/Yr) NAME OF FETUS (optional at the discretion of the parents FETUS 7 PLACE WHERE DELIVERY OCCURRED (Check FACILITY NAME (If not institution; give street and 58. CITY, TOWN, OR LOCATION OF DELIVERY ☐ Freestanding birthing center 5b. ZIP CODE OF DELIVERY ☐ Hame Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Clinic/Dector's office 6. COUNTY OF DELIVERY 9 FACILITY ID (NPI) 10a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Lisst, Suffix) 10b. DATE OF BIRTH (Mo/Day/Yr) MOTHER 10c MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix) 10d BIRTHPLACE (State, Territory, or Foreign 11a CITY, TOWN, OR LOCATION 11a RESIDENCE OF MOTHER-STATE 11b COUNTY 11e APT NO. 11d. STREET AND NUMBER 11f ZIP CODE ☐ Yes □ No 12a FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) 12b DATE OF BIRTH (Mo/Day/Yr) **FATHER** 13. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH 13h OTHER SIGNIFICANT CAUSES OF 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 ConditionalDiseases (Specify) DEATH Complications of Placenta, Cord, or Membranes Complications of Placenta, Gord, or Membranes ☐ Rupture of membranes poor to onset of labor Rupture of membranes prior to onset of labor ☐ Abruptio placenta ☐ Abruptio placenta ☐ Placental insufficiency ☐ Placental insufficiency TI Prolanged cord Prolapsed cord ☐ Chorioamnionitis Other Obstetrical or Pregnancy Complications (Specify) Other Obstetrical or Pregnancy Complications (Specify) Fetal Anomaly (Specify) Fetal Anomaly (Specify) Fetal Injury (Specify) Fetal Injury (Specify) Fetal Infection (Specify) Fetal Infection (Specify) Other Fetal Conditions/Disorders (Specify) Other Fetal Conditions/Disorders (Specify) ☐ Unknown

13c. WEIGHT OF FETUS (grams preferred, specify unit) 3e ESTIMATED TIME OF FETAL DEATH 131. WAS AN AUTOPSY PERFORMED? grams | Ib/oz 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 ☐ Hospital Disposition ☐ Donation ☐ Removal from State ☐ Other (Specify) ☐ Burial ☐ Cremation 158 ATTENDANT'S NAME 15b. ATTENDANT'S NPI 15c ATTENDANT'S TITLE CERTIFIER ☐ MD ☐ DO ☐ CNM/CM ☐ OTHER MIDWIFE AND OTHER(Specify)

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

APPENDIX H (cont.)

STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

MOTHER	20. MOTHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed the time of delivery) 8th grade or less 9th - 12th 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, E. Master's degree (e.g., BA, AB, E. Master's degree (e.g., MBA) Doctorate (e.g., PND, EdD) or Professional degree (e.g., MD, DD, DVM, LLB, JC) 3. MOTHER MARRIED? (Af delivery, conception, or anytime between) 19th 19th 19th 19th 19th 19th 19th 19th	the box that best describes who mother is Spanish/Hispanic/Lati 'No' box if mother is not Spanish 'Hispanic/Lati 'No' box if mother is not Spanish 'Hispanic/Lati 'Yes, Mexican, Mexican Ameri 'Yes, Puerto Rican 'Yes, Cuban 'Yes, Cuban 'Yes, Cuban 'Yes, Other Spanish/Hispanic/L (Specify)	ther the na. Check the in/Hispanic/Latina) na can, Chicana atina atina 24b. DATE CARI enatal Care	
	(feet/inches)	(pounds) 31. NUMBER OF OTHER PREGNANCY OUTCOMES (spontaneous or induced Lasses or edopic pregnancies)	(pounds) 32 CIGARETTE SMOKII For each time period cigarettes smoked. Average number of cig Three Months Before I First Three Months of Second Three Months Third Timester of Pre 33 DATE LAST NORMM MENSES BEGAN. J. J. J. Y.Y.Y.	DURING THIS PREGNANCY?
MEDICAL AND HEALTH INFORMATION	growth restricted birth) Pregnancy resulted from infertility tr Fertility-enhancing drugs, Artific Assisted reproductive technolog Mother had a previous cesarean de If yes, how many None of the above	to this pregnancy) pregnancy) ome (Includes perinatal death, small-for-gestate teatment-if yes, check all that apply: teal insemination or intrauterine insemination gy (e.g., in vitro fertilization (IVF), gamete intraf	allopian transfer (GIFT))	38. INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply) Gonorrhea Syphilis Chlamydia Listeria Group B Streptococcus Cytomegalovirus Paryovirus Toxoplasmosis None of the above Other (Specify)
	39. METHOD OF DELIVERY A. Was delivery with forceps attempted in yes No. B. Was delivery with vacuum extraction unsuccessful? Yes No. C. Fetal presentation at delivery Cephalic Breech Other D. Final route and method of delivery (C. Vaginal/Forceps Vaginal/Force	but binsuccessful? (Complications associate transfer attempted but Third or fourth Ruptured uteru Unplanned hys Admission to in Unplanned operations of the Admission to Inc.	degree perineal lacerations s terectomy tensive care unit rating room procedure ry	(Check all that apply) Anencephaly Meningomyelocele/Spina bifida

APPENDIX H (cont.)

STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

		E OF DELAWAR			107)
	STATISTICS REPORT IN AME OF FETUS (optional at the discretion of the parents)	ORT OF FETAL DEATH	2. TIME OF DELIVERY [3.		TATE FILE # E OF DELIV ERY (Mo/Day/Yr)
FETUS	1. Terms of 1 c 100 jupitorial and adolescop of the parametry		(24hr)	5. 5.	na areas mas (massay) and
		Hospital	RY OCCURRED (Check one)	8. FACILITY NAME (III	ot institution, give street and number
	Sh. ZIP CODE OF DELIVERY	Freestanding birthing center. Home Delivery: Planned to deli-	ver at home? Yes No		
	6. COUNTY OF DELIVERY	Clinic/Dector's office Other (Specify)		9 FACILITY ID. (NPI)	
MOTHER	10a, MOTHER'S CURRENT LEGAL NAME (First, Middle, Last			10b DATE OF BIRT	H (Mo/Day/Yr)
MOTHER		Total Work			native method
	10c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, N	fiddle, Last, Suffix)		10d BIRTHPLACE (Country)	State, Territory, or Foreign
	11a. RESIDENCE OF MOTHER-STATE 11b. CO	UNTY		11c CITY, TOWN, OR LO	SATION
	11d STREET AND NUMBER		11e APT NO	11f. ZIP CODE	11g INSIDE CITY LIMITS?
FATHER	12a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, 8	suffix) 12b	DATE OF BIRTH (Mo/Day/Yr)	12c BIRTHPLACE (S	tate, Territory, or Foreign Country
1	13. CAUS	E/CONDITIONS CO	NTRIBUTING TO FETA	LDEATH	
CAUSE	13a INITIATING CAUSE/CONDITION		13b. OTHER SIGNIFICA	NT CAUSES OR CONDITIO	NS
OF	(AMONG THE CHOICES BELOW, PLEASE SELECT THE Q BEGAN THE SEQUENCE OF EVENTS RESULTING IN THE		(SELECT OR SPECIFY IN ITEM 13b)	ALL OTHER CONDITIONS (CONTRIBUTING TO DEATH
FETAL DEATH	Maternal Conditions/Diseases (Specify)		Maternal Conditions/Dise	ases (Specify)	
IN ESS II ES	Complications of Placenta, Cord, or Membranes		Complications of Piacents	, Cord, or Membranes	- 47
	Rupture of membranes prior to onset of labor		☐ Rupture of mem	branes prior to onset of labor	
	☐ Abruptio placenta		☐ Abruptio placent	a:	
	☐ Placental insufficiency		☐ Placental insuffi	piency	
	☐ Prolapsed cord		☐ Prolapsed cord		
	☐ Choricamnionitis		☐ Choricamnioniti		
	Other Specify)		☐ Other Specify)		
	Other Obstetrical or Pregnancy Complications (Specify)		Other Obstetrical or Preg	nancy Complications (Specif	y)
	Part Carrier Control Carrier Carrier	-			
	Fetal Anomaly (Specify)		Fetal Anomaly (Specify)	D.	
	Fetal Injury (Specify)		Fetal Injury (Specify)	_	
	Fetal Infection (Specify)		Fetal infection (Specify)		
	Other Fetal Conditions/Disorders (Specify)		Other Fetal Conditions/D	isorders (Specify)	
	Unknown		☐ Unknown		
	13c. WEIGHT OF FETUS (grams preferred, specify unit)	No no security results	TIME OF FETAL DEATH	131 WAS AN AUTOPS	Y PERFORMED? No Planned
	grants Ib/oz		nst assessment, no labor ongoing	13g WAS A HISTOLO EXAMINATION P	ERFORMED?
	13d. OBSTETRIC ESTIMATE OF GESTATION AT DELIVER (completed weeks)	Died during labor. Unknown lime of	after first assessment	13h. WERE AUTOPSY PLACENTAL EXA IN DETERMINING	MINATION RESULTS USED THE CAUSE OF FETAL
	14. METHOD OF DISPOSITION			DEATH? Ye	s 🗆 No
DISPOSITION	☐ Burial ☐ Cremation ☐ Hospital Disposition	☐ Donation ☐ R	Removal from State 🔲 Ot	her (Specify)	
CERTIFIER AND	15a. ATTENDANT'S NAME	15b ATTENDA		50 ATTENDANT'S TITLE	✓ □ OTHER MIDWIFE
REGISTRATION				OTHER(Specify)	
INFORMATION	16a I CERTIFY THAT THIS DELIVERY OCCURRED ON TH SIGNATURE	E DATE SHOWN AND TH	AT THE FETUS WAS BORN	DEAD 166 DATE SIGNED	
	166. MAILING ADDRESS				
MOTHER'S MEDICAL RECORD NO	17a. NAME OF CEMETARY OR CREMATORY		176 LOCATION (CITY, TO	WN, COUNTY) (STATE)	
	18a DATE RECEIVED 18b REGISTRAR'S SIGNATURE		19. FUNERAL DIRECTOR	S SIGNATURE	ADDRESS
	BY REGISTRAR		>		

APPENDIX H (cont.)

STATE OF DELAWARE CERTIFICATE OF FETAL DEATH

	-			AUTHORITY FOR BURIAL, TRANSPORTATION AND REMOVAL
CEMETARY OR CREMATORY SHALL FILL OUT SECTION BELOW The Decedent named above was buried cremated in the cemetery or crematory in item 17a. BURIAL WAS IN Section Lot Grave The appropriate entry in the Cemetery Crematory registry has been in				
The Decedent named above was buried cremated in the cemetery or crematory in item 17a. BURIAL WAS IN Section Lot Grave Grave The appropriate entry in the Cemetery Crematory registry has been in			This permit is n	of authority for cremation; separate authorization must be obtained.
BURIAL WAS IN Section Lot Grave The appropriate entry in the Cemetery Crematory registry has been m			CEMETA	RY OR CREMATORY SHALL FILL OUT SECTION BELOW
Section Lot Grave The appropriate entry in the Cemetery Crematory registry has been in		The Dec	edent named a	bove was buried cremated in the cemetery or crematory in item 17a.
	BURIAL W	AS IN		
Signature	Section	Lot	Grave	. The appropriate entry in the Cemetery Crematory registry has been made.
	Signature			
Sexton or other person in charge Data Signed			Sexton a	r other person in charge Date Signed
				as Sexton. This Burial-Transit Permit is to be retained by the Manager, Superintendent, arge of Burial, Entombment or Cremation, or if none, then the Funeral Director.

REV 04/2005

APPENDIX I

STATE OF DELAWARE CERTIFICATE OF MARRIAGE

VIII	OF AL STATISTICS			ION OF PUBLIC HE	laware		
	CAL GISTRAR'S NO.	LICE	ENSE 5880	1 NO. LICE		NSE	
NAM		GROOM				BRIDE	NES.
1000			DDLE LA	ST	FIRST	MIDDLE	LAS
RES	DENCE STREET OR NU	IMBER, CITY		RESIDI	ENCE STREET OR NUMBER, C	ITY	
STA	TE	ZIP	COUNTY	STATE		ZIP	COUN
	DATE OF BIF	ятн	AGE		DATE OF BIRTH	AG	E
BIRT	HPLACE (STATE OR FOR	EIGN COUNTRY)		BIRTH	PLACE (STATE OR FOREIGN COUN	TRY)	
	WE HEREBY				CT TO THE BEST OF OUR		JEF
SIG	NATURE V	AND TH	IAT WE ARE FREE		THE LAWS OF THIS STAT	E	
OF	GROOM X	T MII	DDLE LA		ATURE X	MIDDLE	
FATHER	, A		DOCE EX	FATHER			n.
FAT	BIRTHPLACE (STATE	OR FOREIGN COUNTRY)		FAT	BIRTHPLACE (STATE OR FOREIG	GN COUNTRY)	
8	MAIDEN NAME	FIRST MII	DDLE	ST C.	MAID NAME FIRST	MIDDLE	
MOTHER	BIRTHPLACE ATE	OR FOREIT JOUN Y)		Mot L	BIRTH LACE (STATE OR FOREIG	GN COUNTRY)	
-	Laureles and Co	that on the		Jan of		10	
						19,	HOU
		that on the ned persons u			iage at		HOUR
th	ne aforementio	ned persons u	vere by me un	ited in marri	iage at	ITY, TOWN, OR LOCATION)	
th C	ne aforementio	ned persons u	vere by me un	ited in marri _ , in accorda	iage at occurrence with the Laws	ITY, TOWN, OR LOCATION)	
th C Sil	ounty of ounty of gnature of Clergy Other Official ▶	ned persons u	vere by me un	ited in marri _ , in accorda	iage atc nnce with the Laws	ITY, TOWN, OR LOCATION)	
th C Sil	ounty of gnature of Clergy Other Official >	ned persons u	vere by me un	ited in marri _ , in accorda	iage at(conce with the Laws	ITY, TOWN, OR LOCATION)	
th C Sign or RE	ounty of	ned persons u	vere by me un	ited in marri _ , in accorda	iage at(conce with the Laws	ITY, TOWN, OR LOCATION)	
thin C Signature of the C Signat	ounty of	ned persons u	vere by me un	ited in marri _ , in accorda	iage at(conce with the Laws	ITY, TOWN, OR LOCATION)	
thin C Signature of the C Signat	gnature of Clergy Other Official County SIDENCE-STATE Inesses 1. NAME Inesses 2. NAME 3. NAME	ned persons u	vere by me un	ited in marri	iage at	ITY, TOWN, OR LOCATION)	
thin C Signature of the C Signat	ounty of	ned persons u	vere by me un	ited in marri	iage at	ITY, TOWN, OR LOCATION)	
thin C Signature of the C Signat	gnature of Clergy Other Official County SIDENCE-STATE Inverses 1. NAME Inverses 2. NAME REGISTRAR'S SIGN	ned persons u	pere by me un	ited in marri	iage at	ITY, TOWN, OR LOCATION) S of the State of L	Delav
thin C Signature of the C Signat	gnature of Clergy Other Official County SIDENCE-STATE Inverses 1. NAME Inverses 2. NAME REGISTRAR'S SIGN	ned persons u	pere by me un	ited in marri	iage at	ITY, TOWN, OR LOCATION)	Delar
thin C Signature of the C Signat	gnature of Clergy Other Official Insured: SIDENCE-STATE Thesses 1. NAME The same 3. NAME REGISTRAR'S SIGN VALID ONL	ATURE Y IN THE STATE	ere by me un	ited in marri	iage at	ity, town, or location; s of the State of L LOCAL REGISTRAR STATE FILE CO	Delat
thin C Signature of the C Signat	ounty of	ATURE Y IN THE STATE Date of	E OF DELAWAR	ited in marri	iage at(c ince with the Laws TITLE RESIDENCE RESIDENCE DATE RECEIVED BY Race/American Indian,	ITY, TOWN, OR LOCATION) S of the State of L LOCAL REGISTRAR STATE FILE C	OPY ucation highest
thin C Signature of the C Signat	ounty of	ATURE Y IN THE STATE	E OF DELAWAF	ited in marri	iage at	LOCAL REGISTRAR STATE FILE CO (Specify grade com	OPY ucation highest pleted) Co
th C Sign or RE	ounty of	ATURE Y IN THE STATE Date of First Marriage	E OF DELAWAR If Previously Married Last Marriage Ended by Death Divorce or Annul.	ited in marri	rince with the Laws TITLE	COCAL REGISTRAR STATE FILE CO (Specify grade com	OPY

APPENDIX J

STATE OF DELAWARE CERTIFICATE OF DIVORCE OR ANNULMENT

IN RMANENT LACK INK		OFFICE OF VITAL STATIS			elawar BLIC HEALTH					
						State File N	10			
		HUSBAND'S NAME (First								
JSBAND	2a.	RESIDENCE - STREET	OR NUMBER, CITY			2b. COI	JNTY			
20	2c.	STATE	ZIP	3. BIRTHPLACE (State or Foreign Country)	4. DATE	OF BIRTH (Month, Day	r, Year)		
	5a.	WIFE'S NAME (First, Mic	kle, Last)			5b. MAI	DEN SURNAME			
WIFE	6a.	RESIDENCE - STREET	OR NUMBER, CITY			6b. COI	UNTY			
1040	6c.	STATE	ZIP	7. BIRTHPLACE (State or Foreign Country)	8. DATE	OF BIRTH (Month, Day	, Year)		
		PLACE OF THIS MARRIA LOCATION	AGE - CITY, TOWN, OR	9b. COUNTY	9c. STATE C	R FOREIGN COUNTRY				
ARRIAGE	11.	DATE COUPLE LAST RI HOUSEHOLD	DED IN SAME	12. NUN ÉL DE C AS ÉTE DA	CHILL EN UNDER 18 IN T		TIONER Husband () Wife () B	loth		
TORNEY	131	I CERTIFY THAT THE M. NAMED PERSONS WAS (Morith, Day, Year)	ARRIAGE OF THE DISSOLVED	16. TYPE OF DE	ECREE - Divorce or Annulmo (Specify)	ent 17. DAT	E RECORDED (Month,	Day, Year)		
CREE		NUMBER OF CHILDREN AWARDED TO: Husband Joint (Husband/Wife) () No Children			19. COUNTY OF DECI	REE 20. TITI	LE OF COURT			
	21.	SIGNATURE OF CERTIF		22. TITLE OF CE	RTIFYING OFFICIAL		E SIGNED onth, Day, Year)			
				STATE	FILE CO	PY				
	ATTO	ORNEY - Comp RK OF THE CO	OURT - After final	decree complete	item 15-23 and f	leave with Clerk of orward to: ER, DELAWARE 19				
				25. If Previously Married	d	777/6-17	27. Edi	BIRTH (Month, Day, Year) SURNAME 10. DATE OF THIS MARRIAGE (Month, Day, Year) ER band () Wile () Both or (Specify) p Code) CORDED (Month, Day, Year) F COURT SNED Day, Year)		
		4. Number of this Marriage - 1st, 2nd, etc.	Date of First Marriage	Last Marriage Ended by Death, Divorce or Annulment	Last Marriage Ended on: (Mth./Day/Year)	26. Race/American India Black, White, etc. (Specify below)	Elementary/ Secondary (0-12)	College (1-4 or 5+		
		(Specify below)	(Mth./Day/Year)	(Specify below)						
USBAND		(Specify below)	(Mth./Day/Year) 25a.	(Specify below) 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) 			N, OR LOCATION C CY TERMINATION		COUNTY OF PREGNANCY TERMINATION	
4. FORM NUMBER 5.		GE LAST RTHDAY	6. MARRIED? □Yes □No		DATE OF PREGNANCY TERMINATION (Month, Day, Year)	
8a. RESIDENCE - STATE	8b. COUNTY	8c. CITY,	TOWN, OR LOCAT	ION 8d. ZIP CODE		
9. OF HISPANIC ORIGIN? (Specify No or Yes - If yes Cuban, Mexican, Puerto R	specify	D. RACE White Black Other (S	Specify)		ucation est grade completed) lary College (1-4 or 5+)	
12. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)	3. CLINICAL ESTIMATE O GESTATION (Weeks)		LIVE BIRTHS v Living 14b. Not	Living 14c. Spontaneou	ch section) ERMINATIONS \$ 14d. Induced (Do not include this termination) Number None	
000000	Suction Cu Medical (N. Dilation and Intra-Uterin Sharp Cure Hysterotom	(Ch rettage onsurgical), d Evacuatio	n (Saline or Prost c) tomy	ion(s)		

(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

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