Writing Cause of Death Statements-Basic **Principles**

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This is an example of a POORLY WRITTEN cause-of-death statement which, unfortunately, is typical of many death certificates that are completed by physicians.

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A. Septic shock

Due to, or as a consequence of: B. Gram-negative sepsis

Due to, or as a consequence of:

One must immediately ask "Why did this patient have gram-negative sepsis?-- that's not something that most healthy people get, and spontaneous occurrence must be extremely rare."

The truth is that the patient had multiple sclerosis and a chronic indwelling catheter for a neurogenic bladder, which resulted in the the urinary tract infection. An accurate and complete cause-of-death statement is:

Part I

A. Gram-negative pseudomonas sepsis

Due to, or as a consequence of: B. Urinary bladder infection

Due to, or as a consequence of:

C. Indwelling catheter for neurogenic bladder Due to, or as a consequence of:

D. Multiple sclerosis

This example is much more informative and of greater potential use than the preceding example. It tells the specific story and sequence of events that led to this patient's death.

The cause-of-death information from each death YOU certify is coded and becomes part of our state and national mortality data base maintained by the National Center for Health Statistics

Part I

A. Cardiac tamponade

Due to, or as a consequence of:

B Myocardial infarction with left ventricular rupture

Due to, or as a consequence of:

C. Atherosclerotic coronary artery disease

It is, therefore, important that YOU make every effort to complete each death certificate as accurately and completely as possible. The quality of our mortality data bases depends on it. You can see that this cause-of-death statement provides complete information, and compared with the example on Screen 2, is of greater potential use for research, statistics, public health decision making and policy setting, and law-making. It also provides complete information for the family and others who use the death certificate.

The rest of this tutorial will present general principles for writing cause-of-death statements so YOUR contribution to national mortality statistics, and to all people who use the death certificate or information derived from it, will be the best it can be.

There is documentation in the medical literature that death certificate information has limitations which are sometimes considerable. A significant factor is that few physicians receive formal in medical school or postgraduate training programs about completion of the death certificate. Often, a physician's first encounter with the death certificate occurs upon the physician's first patient death when the physician is handed the death certificate form and is asked to complete it. Therefore, information provided on death certificates is frequently incomplete-- like the first example (Screen 2) in this tutorial.

Hopefully, this tutorial will help you avoid mistakes and to be complete and accurate when writing cause-of-death statements. The cause-of- death statement contains two parts, appropriately named Part I and Part II.

Part I

Due to, or as a consequence of:

Due to, or as a consequence of:

Part I

A. Cerebral infarction

Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I

Part I is designed so that a sequence of conditions leading to death may be reported. Part II is for reporting conditions that pre-existed or co-existed and contributed to death, but did not result in the the cause reported in Part I.

Part I will be considered first. It is formatted so that sequential information is reported with ONE CONDITION per line, starting with the most recent condition on

the top line and going backward in time on progressively lower lines.

A. Most recent condition (e.g., Cardiac tamponade) Due to, or as a consequence of: B. Next oldest condition (e.g., Ruptured myocardial infarction)

Due to, or as a consequence of: C. Oldest (original, initiating) condition (e.g., Atherosclerotic coronary artery disease) Each condition can cause the one on the line above it. It is not always necessary to use all of the lines in Part I. Most states have either 3 or 4 lines on their

death certificate. Although rarely needed, extra lines may be added. The top line (A) should always be used.

In this example, floppy mitral valve syndrome is the underlying cause of death-- the specific condition (disease or injury) that started the downhill course of

events that led to death.

Part I

Due to, or as a consequence of: B. Thrombo-embolism to right internal carotid artery

Due to, or as a consequence of: C. Thrombo-embolism from bacterial endocarditis of mitral valve

Due to, or as a consequence of: D. Floppy mitral valve syndrome

A major goal when writing a cause-of-death statement is to report an underlying cause of death that is as etiologically specific as possible based on current medical knowledge. To-date, there is no known, reportable cause of floppy mitral valve syndrome, thus, it is a "competent" underlying cause of death.

In the example below, "atherosclerotic coronary artery disease" is the underlying cause of death.

Part I

A. Acute myocardial infarction

Due to, or as a consequence of:

B. Atherosclerotic coronary artery disease

Due to, or as a consequence of:

It is also valuable to report the complications of the underlying cause of death. In the example, "acute myocardial infarction" was the final and fatal complication of the coronary artery disease and is the immediate cause of death-- the final condition that was a complication of the underlying cause of death and which directly culminated in death. Note that in this case, only two lines were needed to complete the cause-of-death statement.

You can see the value of reporting the atherosclerotic coronary artery disease as the underlying cause of death because there are a number of conditions that

may cause acute myocardial infarction.

Part I

A. Acute myocardial infarction

Due to, or as a consequence of:

B. Atherosclerotic coronary artery disease

Due to, or as a consequence of:

Examples of other possible causes of acute myocardial infarction include coronary artery vasculitis, trauma, coronary artery anomalies, embolism from other diseases at other sites, and other conditions. If only the acute myocardial infarction were reported, a user of the cause-of-death statement would not know

which underlying condition existed in the patient. This example tells us that in this patient, it was coronary artery atherosclerosis that caused the acute myocardial infarction.

As mentioned, it may be necessary to use three or more lines in Part I.

Part I
A. Upper gastrointestinal hemorrhage
Due to, or as a consequence of:
B. Ruptured esophageal varices
Due to, or as a consequence of: C. Cirrhosis of the liver
Due to, or as a consequence of:
D. Chronic alcohol abuse
In the example, "chronic alcohol abuse" is the underlying cause of death. "Upper gastrointestinal hemorrhage" is the immediate cause of death. Each of the
other two conditions is an intermediate cause of death because it falls somewhere in the sequence between the underlying and immediate cause of death. This example shows a "Sequential Part I Format" because more than one line is used in Part I.
It may not always be possible to report an immediate cause of death.
Consider a 60 year-old man who had widely metastatic, terminal prostate carcinoma, whose death was expected, and who died at home. Permission for autopsy could not be obtained. It might be necessary to write the cause-of-death statement as:
Part I A. Metastatic adenocarcinoma of the prostate
Due to, or as a consequence of: B.
Due to, or as a consequence of: C.
Insufficient information existed to cite an immediate cause-of-death such as pneumonia, midbrain metastasis, or some other cause. In cases such as this one, Line A serves as both the underlying and immediate cause of death, and when only Line A is used, a "Single Line Part I Format" has been used.
It is permissible to express uncertainty or presumption. One may qualify the cause-of-death statement with words such as "probable" or "presumed."
Part I A. Acute myocardial infarction
Due to, or as a consequence of:
B. Probable coronary artery atherosclerosis
Due to, or as a consequence of:
C. Due to, or as a consequence of: D.
In general, one need not use such terms because the cause-of-death statement is an opinion based on all available information and need only meet the test of being "more likely than not." There are situations, however, where the inclusion of such wording may be helpful to indicate some degree of uncertainty.
Patients usually die of fatal nonspecific processes (complications of the underlying cause of death) such as gastrointestinal hemorrhage. In some cases, there may have been insufficient time to evaluate or fully diagnose the patient, or inability to obtain permission for autopsy. In such cases, this approach may be used:
Part I A. Gastrointestinal hemorrhage
Due to, or as a consequence of: B. Undetermined natural causes
Due to, or as a consequence of: C.
Of course, one should be reasonably certain that only natural causes were involved and that there is no other reasonably probable underlying cause of death. Using such an approach lets a user of the cause-of-death statement know that thought was given about the underlying cause of death and it wasn't just omitted through oversight.
Using the same scenario as on the previous screen (Screen 14), but adding that the patient had symptoms and signs strongly pointing to peptic ulcer disease as the cause of the gastrointestinal hemorrhage, it would be preferable to write the cause-of-death statement as:
Part I A. Gastrointestinal hemorrhage
Due to, or as a consequence of: B. Probable peptic ulcer disease
Due to, or as a consequence of:
C.
Medical judgment is required when picking the best alternative for writing the cause-of-death statement. Truthfulness, completeness, and reasonable accuracy should be the goal-convenience and expedience should not play a role when deciding upon a cause-of-death statement.

So far, each of the examples has involved only a single underlying disease entity. But what if more than one condition (disease or injury) seemed temporally inseparable or to have added together to cause death?
Part I A.
Due to, or as a consequence of: B.
Due to, or as a consequence of:
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I
Such cases are why Part II exists for citing "Other Significant Conditions." Part II may be used to report conditions that co-existed or pre-existed and contributed to death but did not result in the underlying cause of death reported in Part I.
The case below is a classic example of the intended use of Part II.
Part I A. Acute myocardial infarction
Due to, or as a consequence of: B. Atherosclerotic coronary artery disease
Due to, or as a consequence of:
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I Essential hypertension
Assume that the patient had a clinical course strongly pointing to coronary atherosclerosis with acute myocardial infarction. However, the patient also had hypertension which was thought to have been partially responsible for cardiomegaly which increased cardiac oxygen demand and facilitated the adverse effects of the coronary artery disease. The hypertension co-existed and contributed to death, but did not cause the underlying cause of death in Part I. Hypertension, then, is correctly reported in Part II as an other significant condition.
Part II can also be used another way. Consider a patient with AIDS who dies with complications including pneumocystis carinii pneumonia and disseminated mycobacterium avium complex clinically, the pneumocystis pneumonia seemed the most significant in causing terminal pulmonary problems:
Part I A. Pneumocystis carinii pneumonia
Due to, or as a consequence of: B. Acquired immune deficiency syndrome
Due to, or as a consequence of: C. Human immunodeficiency virus infection
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I Disseminated mycobacterium avium infection
To facilitate coding, only 1 condition should be reported per line in Part I. The most important condition should be cited in Part I and the lesser important one(s) should be cited in Part II, as shown here.
Note that this example fits nicely with the intended use of Part II.
Part I A. Pneumocystis carinii pneumonia
Due to, or as a consequence of:
B. Acquired immune deficiency syndrome Due to, or as a consequence of:
C. Human immunodeficiency virus infection
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I Disseminated mycobacterium avium infection
The disseminated mycobacterium infection did contribute to death. Although it resulted <i>from</i> the underlying cause of death reported in Part I, it did not result <i>in</i> the underlying cause of death. More than one condition may be reported in Part II, and it is often necessary to do so.
A third way to use Part II is for reporting risk factors. For example, the cause-of-death statement for a man who was a heavy cigarette smoker and who died of Klebsiella pneumonia as a complication of emphysema may be written as:
Part I A. Community-acquired Klebsiella pneumonia
Due to, or as a consequence of: B. Emphysema

Due to, or as a consequence of: C.	
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death Cigarette smoking	but not resulting in the underlying cause of death in Part I
One might argue that this is NOT an appropriate use of Part II because the cigar however, it may be difficult to know that a cause-and-effect relation existed. Thus	
The same method of reporting risk factors may be used for other risk factors (su the patient and is relevant to the cause-of-death sequence reported in Part I.	ch as obesity, alcohol intoxication, intravenous drug abuse etc.) that existed in
Part I A. Cerebral toxoplasmosis	
Due to, or as a consequence of: B. Acquired immune deficiency syndrome	
Due to, or as a consequence of: C. Human immunodeficiency virus infection	
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death Intravenous drug abuse	but not resulting in the underlying cause of death in Part I
It is not necessary to include the words "risk factor," but doing so does clarify th selected conditions (such as recent pregnancy, neoplasms) in Part II even if they	
It sometimes seems that there are so many conditions to pick from that selecting difficult. There are some Principles that may be followed, however, to assist in the	
Principles 1. Make every effort to report an etiologically specific underlying cause of death 2. Try to use a Sequential Part I Format, if possible. 3. Err on the side of reporting too much rather than too little. 4. DO NOT report mechanistic terminal events such as:	
 cardiac arrest asystole cardiopulmonary arrest respiratory arrest electromechanical dissociation ventricular fibrillation 	
5. DO NOT report symptoms or signs. 6. DO NOT report a condition if its existence in the patient is obvious based on a 7. DO NOT oversimplify 8. DO NOT use abbreviations	another reported condition.
Using the Principle shown on Screen 22, a scenario may be used to illustrate the ascites, portal-systemic shunt, caput medusae, hyperammonemia, asterixis, hepdeath.	
The conditions are listed in approximate sequence from most recent to the oldes determined by applying the Principles:	t, and the conditions to remain for writing the cause-of death statement are
BEFORE APPLYING THE PRINCIPLES: cardiac arrest	
respiratory arrest	AFTER APPLYING THE PRINCIPLES: hepatic encephalopathy
hepatic encephalopathy asterixis	
hyperammonemia caput medusae	
portal-systemic shunt ascites	cirrhosis
jaundice	chronic alcohol abuse
cirrhosis chronic alcohol abuse	
The next screen discusses the rationale for eliminating or retaining the various of	onditions.

cardiac arrest	I		
respiratory arrest	AFTER:		
hepatic encephalopathy	hepatic encephalopathy		
asterixis			
hyperammonemia			
caput medusae			
portal-systemic shunt	a i web a a i a		
ascites	cirrhosis chronic alcohol abuse		
jaundice	chronic alconol abuse		
cirrhosis			
chronic alcohol abuse			
symptoms or signs. Hyperammonemia is just one component of a complex retained because it was the underlying cause of death. Cirrhosis and hepatic and enable the use of a Sequential Part I format. Portal-systemic shunt was	events. Asterixis, caput medusae, ascites, and jaundice in this case were either process, and to cite it would be oversimplification. Chronic alcohol abuse was ic encephalopathy remain, are major conditions in the sequence that led to death, is eliminated because its existence seemed apparent based on the other reported ting too much rather than too little. Now, the cause-of-death statement is easily		
By using the Principles, the following cause-of-death statement may be writ	tten:		
Part I A. Hepatic encephalopathy			
Due to, or as a consequence of: B. Cirrhosis of the liver			
Due to, or as a consequence of: C. Chronic alcohol abuse			
Part II. OTHER SIGNIFICANT CONDITIONS: Conditions contributing to death but not resulting in the underlying cause of death in Part I			
	t died compared to how someone else may have died of the same underlying cause of rrhosis, and not all patients with cirrhosis acquired it from chronic alcohol abuse.		
	een the onset of each condition cited and death. These intervals should be stated as		
bottom. The interval since diagnosis should NOT be stated if a condition is k	ecades" are acceptable when needed. "Unknown" is also acceptable if such is the case		
bottom. The interval since diagnosis should NOT be stated if a condition is k "seconds," "minutes," "hours," "days," "weeks," "months," "years," and "de and generic intervals cannot be accurately used. Intervals may also be appr	known to have existed for a longer period of time. Generic intervals such as scades" are acceptable when needed. "Unknown" is also acceptable if such is the case roximate. [Interval between onset and death]		
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Remember, there is often more than one acceptable way to write a cause-of-death statement for a given death scenario. If yours is similar to this one, its probably okay, especially if you included the correct underlying cause of death, the immediate cause of death, and the diabetes shown in Part II (see next screen).

For the scenerio on Screen 28, diabetes was listed in Part II because it is a risk factor for atherosclerosis, and, it was felt to predispose the patient to the development of soft tissue infections.

Further resources:

Thank you for trying this tutorial. Please feel free to share it with you colleagues.

The National Center for Health Statistics (NCHS) has educational materials regarding completion of the death certificate, including manuals and laminated instruction cards. These materials may be ordered by calling (301)436-8815.

The College of American Pathologists (CAP) has published Medical Cause of Death Manual: instructions for writing cause-of-death statements for deaths due to natural causes. A second manual titled Cause-of-Death Statements and Certification of Natural and Unnatural Deaths has also been published and contains tips of death certifications for many types of deaths. These manuals may be purchased by calling CAP Publications at 1-800-323-4040, extension 7531. These manuals contain many examples and addresses commonly encountered problems with writing cause-of-death statements. Your state

vital records registrar may also have useful educational materials, particularly in regard to state-specific policies and procedures.