

Welcome to Module 2 of Improving Cause of Death Reporting.



Now that you know all the role players involved in the process of recording the cause of death and how the information is used, it is easy to see the importance of completing a certificate properly. This next module takes an in-depth look at how to complete the Death Notification Form. At the end of this module you should be able...

Describe The concept and definitions of underlying cause of death Sequence of events leading to death Explain International Form of Medical Certificate of Cause of Death Complete South African death certificate accurately Sequence of events from the starting point Relevant contributing causes

to describe the concept and definitions of the underlying cause of death and the sequence of events leading to death,

to explain the International Form of the Medical Certificate of Cause of Death, and to complete a South African death certificate accurately, explaining the sequence of events from the starting point and also mentioning the relevant contributing causes.

Death Notification Form						
STAATSKOERANT, 26 FEBRUARIE 2014	No. 37373 5					
GOVERNMENT NOTICE						
DEPARTMENT OF HOME AFFAIRS No. R. 128 26 Fe	February 2014					
BIRTHS AND DEATHS REGISTRATION ACT, 1992 REGULATIONS ON THE REGISTRATION OF BIRTHS AND DEATHS, 201						
The Minister of Home Affairs has, in terms of section 32 of the Births and Deaths Re Act, 1992 (Act No. 51 of 1992), made the Regulations in the Schedule.	Registration					

NARRATIVE: 4A

The Births and Deaths Registration Act of 1992 requires that a medical doctor - or a registered nurse in the case of a stillbirth - complete a Death Notification Form for all decedents in South Africa. Form DHA-1663 is issued in books of 20 death notification forms. The form consists of 4 pages.

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Page 1 contains information on how the decedent was identified by the certifying doctor. This is to prevent life insurance fraud. It also contains details of the decedent, such as name, surname, date of birth, date of death, ID number, sex and residential address. Other socio-demographic variables - such as level of education, occupation and smoking status – are also entered.

Death Notification Form



Page 2 requires information on the certifying medical practitioner or forensic pathologist, including the HPCSA registration number. On this page the doctor needs to state whether they are in a position to confirm that the person died due to natural causes. If you are not able to state this with certainty the form should NOT be completed and the case should be referred to the Forensic Pathology Services.



The last page is the medical certificate of cause of death. This section is confidential and should be sealed by the doctor after completing the form.

Underlying Cause of Death

Public health aim is to prevent (premature) deaths

Need to break the chain of events or causal sequence leading to death

Most effective public health objective is to prevent the precipitating cause

Underlying cause of death

"The disease or injury which initiated the train of morbid events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury." World Health Organization, 1994

The aim of public health is to prevent premature deaths.

In order to do this, it is necessary to break the chain of events leading to death.

The most effective public health objective is to prevent the precipitating or underlying cause of death.

The Underlying Cause of Death is defined by the World Health Organization as "the disease or injury which initiated the chain of morbid events leading directly to death or the circumstances of the accident or violence which produced the fatal injury."



However, death is often caused by multiple conditions such as sequential stages in the natural history of one disease, ... complications arising from one of the immediate conditions or different diseases existing simultaneously at the time of death. Thus it is not always easy to identify the underlying cause.

Death often caused by multiple conditions

Recommendation

Review individuals' history to identify condition that started the sequence of events leading to death, without which the death would not have occurred at same time or in the same manner Chronic medical conditions are often appropriate

underlying causes Use terms such as "possible", "probable", or

"suspected" to indicate that the diagnosis is not confirmed

So, we recommend that the certifier review the decedents medical history to identify the condition that started the sequence of events leading to death, without which the death would not have occurred at the same time or same manner.

Chronic medical conditions - such as Alzheimer's, dementia, diabetes mellitus and stroke due to hypertension - are often appropriate underlying causes. Your knowledge may be limited to the extent of the patient's medical work up, and so it may be appropriate to use terms like "possible", "probable" or "suspected" to indicate that the diagnosis is not confirmed.

International Medical Certificate of Cause of Death Form Facilitate identification of underlying cause of death, especially where multiple conditions are present. Part 1: Chain of events or causal sequence leading directly to death Frame A: Medical data: Part 1 and 2 Time interval from onset Cause of death to death Report disease or condition directly leading to death on line a Immediate caus Report chain of events in due to R order (if applicable) b -R State the underlying cause on the с lowest used line Underlying cause on lowest completed line 2 Other significant conditions contributing to death (time Part 2: Co-existing conditions which contributed to death, but do not fit into causal sequence in Part 1 intervals can be included in brackets after the condition)

The International medical certificate of cause of death was designed to facilitate the identification of the underlying cause of death when multiple conditions exist at time of death. For this reason it is divided into 2 parts.

Part 1 is designed to capture the chain of events or causal sequence leading directly to death and makes provision for up to four conditions - lines (a) to (d).

The immediate cause of death or condition leading directly to death is captured on the top line followed in chronological/pathophysiological sequence by any antecedent cause on the line below the immediate cause. The underlying causes of death – that is the condition that initiated the sequence of events leading to death - should be captured on the lowest completed line.

Part 2 is designed to capture any co-existing conditions at the time of death, which contributed to the death, but do not fit into the causal sequence in Part 1.

Conditions reported in Part 1 and Part 2 should NOT include symptoms, signs and modes of dying.

Sequence of events leading to death (causal sequence)



Let us look at an example to explain the causal sequence – or chain of events leading to death.

A 50-year-old woman was admitted to the hospital vomiting blood and was diagnosed as having bleeding oesophageal varices. Investigation revealed portal hypertension. The woman had a history of Hepatitis B infection. Three days later, she died.

- In this case Hepatis B was the underlying cause of death.
- The liver cirrhosis developed as a consequence of the Hepatitis B
- And the portal hypertension developed due to the liver cirrhosis
- The immediate cause of death was the bleeding oesophageal varices, which was a consequence of the portal hypertension.

Hepatitis B was the underlying cause of death. Knowing this, the public health response is to implement immunisation programmes against Hepatitis B virus to prevent such deaths in future.



Let's use this case study to complete the cause of death section on the DHA-1663 form. As mentioned earlier the cause of death section consists of two parts: Part 1, with lines (a) to (d), which includes the causal sequence that directly caused the death, and

Part 2, which contains any other significant conditions contributing to death, but are not part of causal sequence.

The causal sequence leading to death is entered in Part 1 ...

...with the immediate cause of death entered in line (a). This line must always be filled in.

If the direct cause of death was a consequence of another disease or condition, this antecedent cause should be entered in Part 1 line (b).

If more than one line is completed, each condition must be a cause of the condition above it. There must be a pathophysiological causal sequence. The initiating cause in the sequence is the underlying cause of death and should be reported on the lowest used line in Part 1. Always use consecutive lines, starting at Part 1 line a). Never leave blank lines between filled in lines. If there is only one cause of death, it is entered at Part 1 line (a) and the subsequent lines are left blank. Enter only one disease, condition, event, or injury per line.

Other significant conditions or risk factors that contributed to the death, but do not fit into the causal sequence, are entered in Part 2. More than one condition can be

entered on this line, but should be listed in order of importance. Signs and symptoms and or modes of dying should not be reported in either Part 1 or Part 2. The time interval between the onset of the condition and death is entered on the right of Part 1 and Part 2 to ensure that the causal sequence is in the correct order. If the time interval is unknown, write "unknown". The duration of the underlying cause should be the longest. If more than 1 condition is entered in Part 2, insert the duration in brackets after each condition.



Before we look at some examples, you should note that terms describing ill-defined conditions - that could be caused by many different conditions - should be avoided in both Part 1 and Part 2.

- These include symptoms such as cough or chest pain.
- The mode or mechanism of dying, such as dehydration or hypoxia, should not be reported. Report the condition that caused the dehydration or hypoxia.

Organ failure • Not acceptable as underlying cause of death • For example: heart, renal, liver failure • Enter disease that caused the organ failure • For example: heart failure - caused by rheumatic or ischaemic heart disease

Organ failure is not acceptable as the underlying cause of death. Organ failure - such a heart, renal or liver failure - can be caused by many different conditions that may have different prevention interventions,

If possible, enter the disease that caused the organ failure. Heart failure, for example, could be caused by numerous conditions, such as rheumatic heart disease - which would require antibiotic treatment of streptococcal infections - or ischaemic heart disease - which would require lifestyle interventions and treatment to manage hypertension.



Septicemia should also not be reported as the underlying cause of death if the source of infection can be identified.

If the source of infection cannot be identified, report underlying cause as "septicaemia unknown source"

It is acceptable to report "unknown natural cause of death", where there is insufficient information to ascertain the cause of death.

This is obviously only where an unnatural cause of death has been excluded.

Terminology to avoid: Abbreviations
Unacceptable abbreviations
 MI: mitral incompetence or myocardial infarction
MS: mitral stenosis or multiple sclerosis
• DM II
• HONK
Acceptable abbreviations
• TB, PTB
• HIV
• AIDS

Avoid using abbreviations on the death certificate. MI could mean mitral incompetence or myocardial infarction and one cannot expect the coders at Stats SA to know which one you meant or even to know what the abbreviations mean.

TB, PTB, HIV and AIDS are acceptable abbreviations, as most people know what they mean.



You have now come to the end of Module 2

The next step is your self-assessment for Module 2.

Note:

- This is only a self-assessment and not part of the final assessment at the end of the course.
- The final assessment is a summative assessment which covers all the modules and in order to successfully complete the course, you must obtain a mark of 80%.

Once you have completed the self-assessment, you may proceed to the next module.