Death Certificate Basics

Created with consensus of the Georgia Association of Medical Examiners

Some important updates to the Georgia Code in May 2024:

- Advance practice nurses and physician assistants may sign death certificates with a natural cause of death
 - Important note: no clinical providers should ever sign a death certificate with anything other than a natural cause of death
- The law further states that if the provider signs a death certificate in good faith, they are immune from civil liability. This means you cannot be sued for your medical opinion on a death certificate!
- A provider that refuses to complete a death certificate when appropriate may be reported to their licensing board for disciplinary action
- Death certificates must be signed out within 72 hours* of the time of death

*Some institutional policies require a death certificate be signed in less than 72 hours. Some use a *preliminary* death certificate as a placeholder pending autopsy findings. If questions arise, contact the hospital Decedent Affairs Office.



- Pursuant to Georgia law (O.C.G.A. 31-10-15(c)) it is the responsibility of the clinician overseeing a patient's care to complete the death certificate in cases where the cause of death is related to the natural diseases or illnesses they were managing.
- Clinicians have 30 days after the death to complete, sign, and return the medical certification.
- The same law directs funeral homes to report clinicians who do not sign within the 30 days to the Georgia Composite Medical Board for disciplinary action.



Knowledge Check

Why are death certificates important?

- A. A death certificate is the last thing that you can do for your patient and is considered patient care
- B. It provides closure for families of deceased patients
- C. A death certificate is used for: funeral home arrangements, government morbidity and mortality reports, public health disease surveillance, and closure of the decedent's estate
- D. All of the above

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Answer D : All the above are reasons why death certification is important!

What degree of certainty is required to sign a death certificate?

A. 75%

B. 51%

C. 99%

D. 99.9%

What degree of certainty is required to sign a death certificate?

A. 75%

B. 51%

C. 99%

Answer: B

"Medical degree of certainty" is defined as 51%.

Who can fill out a death certificate with a natural manner of death?

- In the hospital, a provider in charge of the patient's care for the fatal illness or condition that resulted in death should sign the death certificate
- In the outpatient setting, a provider who provides primary care or treatment of a significant illness within the last 60 days should sign the death certificate.
 - This was recently decreased from 180 days.

Let's define our terms.

- Manner of death (MOD): A classification of death (homicide, suicide, accident, undetermined, or natural)
 - You will only ever sign a natural manner of death
- Cause of death (COD): The underlying disease or injury that leads to death; you can use the "but for" model to assess cause of death (see below for examples)
- Other significant conditions (OSC): Disease or injury that contributes to death but does not cause death

Mechanism of death

cause of death # mechanism of death

- Mechanism of death (terminal event): Metabolic and physiologic derangements that occur during all deaths and are not considered cause of death
 - Cardiac arrest
 - Acute respiratory failure
 - Cardiopulmonary failure
 - Hypoxemia
 - Ventricular fibrillation

MECHANISMS OF DEATH SHOULD NOT BE LISTED ON A DEATH CERTIFICATE

THEY ARE TERMINAL EVENTS EXPERIENCED BY ALL DURING THE DYING PROCESS

Think about it this way; cardiac arrest is how we all die. Think instead about the disease or injury that led to the cardiac arrest. (And if it's an injury, then it is not a natural cause of death!)

Α	Most rece	nt diagnosis Immediate cause
		Due to, or as a consequence of
В	Why?	Immediate cause
		Due to, or as a consequence of
C	Why?	Underlying cause
_		Due to, or as a consequence of
D		



Consider **why** the patient experienced this derangement. This can be done by saying to yourself "**but for** x, the patient would not be dead".



For example: a patient with SUDDEN CARDIAC DEATH may have experienced a fatal cardiac arrythmia due to underlying hypertension. **But for** the hypertension, the patient would not have had a cardiac arrhythmia. <u>The underlying cause of death is hypertension</u>.

A patient with RESPIRATORY FAILURE may have acute bronchopneumonia. But why does she have acute bronchopneumonia?

If she developed acute bronchopneumonia due to complications of Diffuse Large B-Cell Lymphoma or Colorectal Cancer, the underlying cause of death is the malignant diagnosis (Diffuse Large B-Cell Lymphoma, Colorectal Cancer).

But for the cancer, the patient would not have respiratory failure.

Time intervals

- •Time intervals should be listed as seconds, minutes, hours, days, weeks, months, years.
- •Time intervals guide a certifier to order events from most recent to underlying cause of death.

Gastrointestinal hemorrhage	Minutes		
Ruptured esophageal varices	Minutes		
Cirrhosis	Years		
Alcohol use disorder	Years		



- It is ok to use "Complications of" underlying disease
 - Complications of diabetes mellitus; complications of clear cell renal cell carcinoma; complications of alcohol use disorder
- It is ok to use "Probable", "Suspected", or "Presumed"
 - Probable atherosclerotic cardiovascular disease
- The cause of death is an opinion
- Instead of "failure to thrive" consider:
 - Senescence or old age
 - Debility and inanition
- A patient who smokes, has hypertension, malignancy, or COPD is <u>not</u> "in good health"! If you are an outpatient provider and you are asked to sign a death certificate for your patient with chronic disease, remember that chronic diseases still cause death!
- Do not use abbreviations
 - HTN or DM write out Hypertension or Diabetes Mellitus
 - The death certificate is a legal document, not a note in a patient's chart.
- Time of death may be cardiac death or brain death (review your institutional policies)
- If any external force or entity is related in any way to the death, then the manner is not natural
 - This includes weather! Hypothermia or hyperthermia are not natural deaths.
- The interval of time elapsed between injury and death is irrelevant.
 - Even remote injuries are important! (i.e. paraplegic from motor vehicle crash or gun shot wound)
 - Manner of death NOT natural □ Medical Examiner/Coroner referral required

Tips and tricks

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Let's take a closer look at a few of these points...

Tips and tricks

Cause of death is an opinion

- A cause of death requires a reasonable degree of medical certainty (51% certainty)
- A medical certifier cannot be sued for cause of death opinion in the state of Georgia, as long as the opinion was made in good faith
- It is ok to use "Probable", "Suspected", or "Presumed"

To determine COD... Ask, "What is the underlying disease that leads to death?"

Tips and tricks

The interval of time elapsed between injury and death is irrelevant:

- Remote injuries may determine manner of death:
- A 65-year-old person who accidentally ingests lye as a toddler and has a lifelong history of esophageal problems with strictures which culminate with esophageal cancer would be best certified as an "accidental" death using the "but for" test.
- A 43-year-old person with bronchopneumonia due to paraplegia due to an intentionally self-inflicted gunshot wound of the chest with resultant spinal cord injury would be a suicide, regardless of the time interval.
- In cases like these... CALL THE MEDICAL EXAMINER OR CORONER.

Complications of a suicidal, accidental, or homicidal injury may lead to death days, months, years, or decades later...



Knowledge Check

You work in the emergency department. Law enforcement brings in a 50-year-old male who collapsed in the police car after he was arrested. There is no known medical history for this individual; you work him for 30 minutes after his arrival but are unable to resuscitate him. You are asked to sign the death certificate. You:

- A. Sign the certificate as COD: cardiac arrest MOD: natural
- B. Call the local coroner or medical examiner because this patient was in the custody of law enforcement at the time of death
- C. Call the local coroner or medical examiner because this patient died without regaining consciousness in the ED
- D. Refuse to sign the death certificate because Emergency Department providers do not sign death certificates.

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Answers B and C are both valid answers!

You are a pediatrician. One of your patients is a 6-year-old with profound developmental delays requiring a tracheostomy and mechanical ventilation. She is found dead at home 4 days after you diagnosed them with pneumonia. Who should sign the death certificate?

- A. The medical examiner or coroner, since the pneumonia was being treated and was not expected to be fatal
- B. You as the pediatrician
- C. The child's neurologist, since the child died due to the neurologic condition diagnosed and treated by neurology.
- D. It depends on the underlying cause of the developmental delay

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For example, was there prior non-accidental trauma (child abuse) which caused the developmental delay? A genetic mutation? A birth-related event?

When to call your local medical examiner or coroner

- · Death due to violence, suicide, or accidental injury
 - Including death from a recent injury such as a SUBDURAL HEMORRHAGE from a ground level fall
- Death due to apparent overdose
 - Do not include history of drug use in other significant conditions if the drug use does not contribute to death
- In any suspicious or unusual circumstance, with particular attention to those persons 16 years of age and under
- Sudden death, when in apparent good health, or when unattended by a physician or advanced practice provider
- After having been admitted to a hospital in an unconscious state and without having regained consciousness within 24 hours of admission.
- Pediatric deaths:
 - After birth, but before 7 years of age if the death is unexpected or unexplained.
 - These cases are discussed at county and state child fatality interdisciplinary review committee meetings

Special circumstances

- In custody deaths:
 - As a result of execution carried out pursuant to imposition of the death penalty under Georgia law.
 - An inmate of a State Hospital or a State or County Penal Institute
 - Any death where there is law enforcement involvement
- Pregnancy associated deaths:
 - A pregnant female or a female who was pregnant within 365 days prior to such female's death.
 - A medical examiner or coroner may investigate the case without performing an autopsy or accepting jurisdiction.



A WITNESSED COLLAPSE

A 75-year-old man with a history of hypertension, high cholesterol, gout, and smoking clutched his chest and collapsed in front of his wife. No autopsy was performed.

All of the following variations are appropriate. A witnessed collapse is often due to a cardiac

event:

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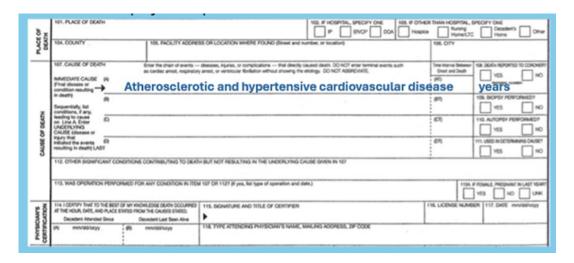
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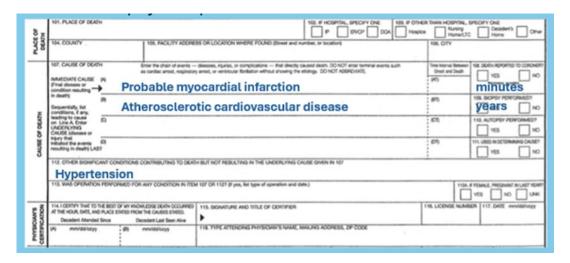
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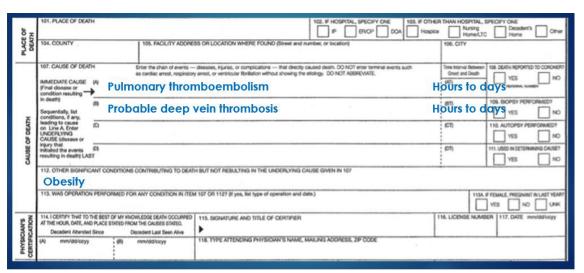
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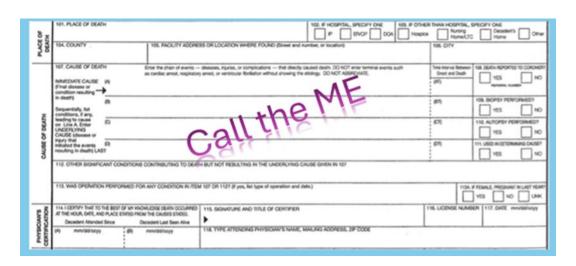
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...and is found to have pulmonary thromboemboli in the setting of obesity. Her death is pronounced.



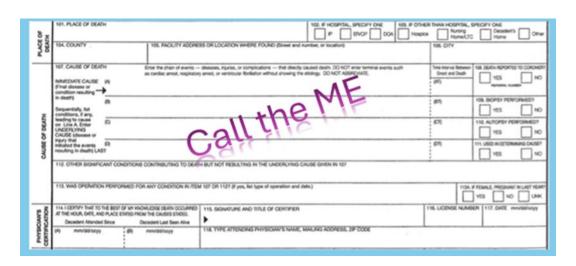
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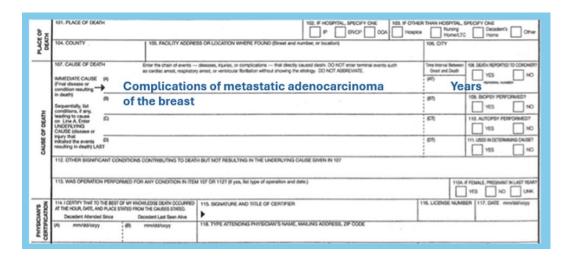
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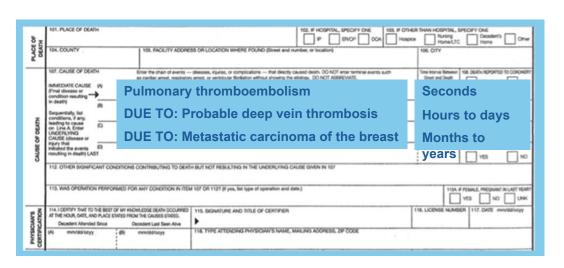
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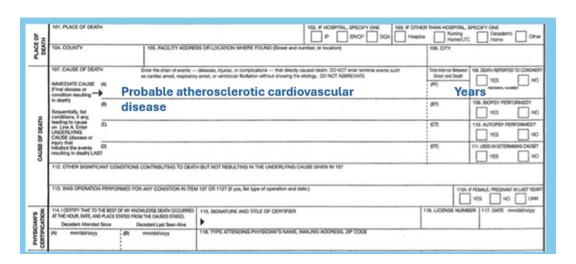
Alternative sign out option:



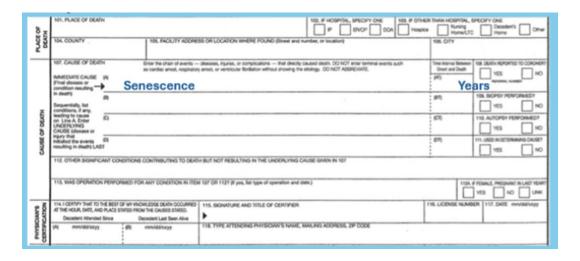
Shortness of breath

A 55-year-old woman presents to the Emergency Department with shortness of breath...

...her death is pronounced. Her daughter tells you that she has smoked 2 packs of cigarettes per day for 35 years.

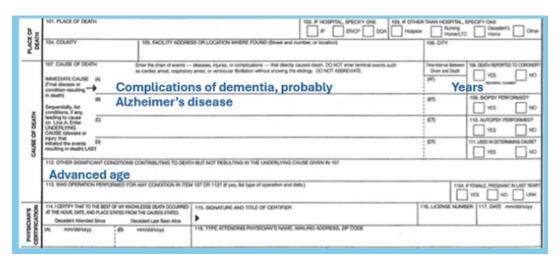


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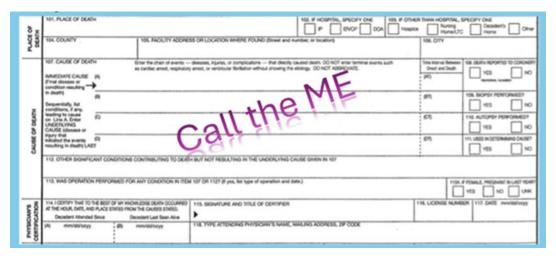
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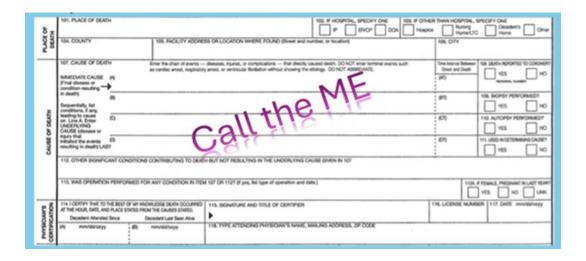
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... after falling out of bed 2 days prior to death.



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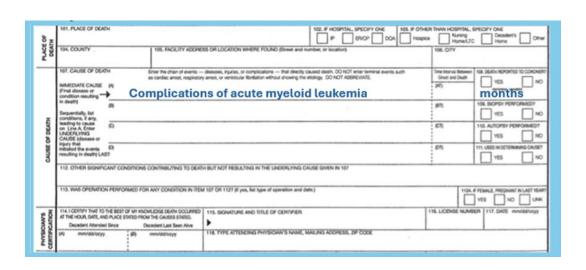
...who has never been the same since she broke her hip 6 months ago.



Therapeutic complication

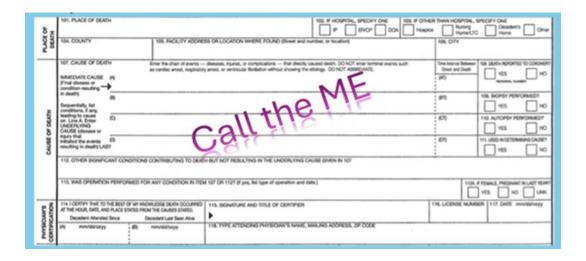
A 48-year-old male with Acute Myeloid Leukemia had a bone marrow transplant 2 months ago and is now hospitalized with clostridium difficile infection.

Learning point: foreseeable complications of therapy are natural. Improper use of equipment or therapy is accident.



No time limits on homicides

A 40-year-old female paraplegic dies at home on hospice due to aspiration pneumonia. Paraplegia was due to a gunshot wound that occurred 34 years ago.





Knowledge Check

You are a primary care physician. You are alerted that your 75-year-old patient has died at home. You check your notes and see that your last visit with her was 3 weeks ago; at that time, you had seen her for her longstanding hypertension, diabetes mellitus, and arthritis. There are no concerns for foul play and no trauma is noted to the body. What do you do?

- A. Tell the coroner you cannot sign the death certificate since you were not present at the time of death
- B. Sign the death certificate as follows: COD Hypertensive cardiovascular disease, OSC diabetes mellitus, MOD Natural
- Refuse the sign the death certificate because you don't know if someone poisoned her
- Sign the death certificate as follows: COD Cardiac Arrest, MOD Natural

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- Fulton County "What Primary Care Physicians Need to Know"
- Cause of Death Statements and Certification of Natural and Unnatural Deaths by Dr. Randy Hanzlick
- CDC Physician's Handbook on Medical Certification of Death, 2023 Revision
- Emory University Pathology eLearning Portal: Georgia Death Certificate Training

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Gwinnet County Medical Examiner's Office

Dr. Carol A. Terry, Chief Medical Examiner

Cobb County Medical Examiner's Office

Thank you for completing this continuing education video. Please do not hesitate to contact your local coroner, medical examiner, or Georgia Bureau of Investigation Medical Examiner's Office for assistance with signing death certificates in the state of Georgia.