

Correct completion of a medical death certificate and the selection of the underlying cause of death

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Outline of Presentation



Guidelines for completion of a medical certificate of death



Coding of COVID-19 Death Certificates



Cause of death reporting reminders



Guidelines for completion of a medical certificate of death



Physicians' Role in Death Certification

To provide a medical opinion on cause of death. That is, an etiological description of the **order, type** and **association of events** resulting in death.





Indicate course of events

Decide which condition is <u>directly</u> responsible for death

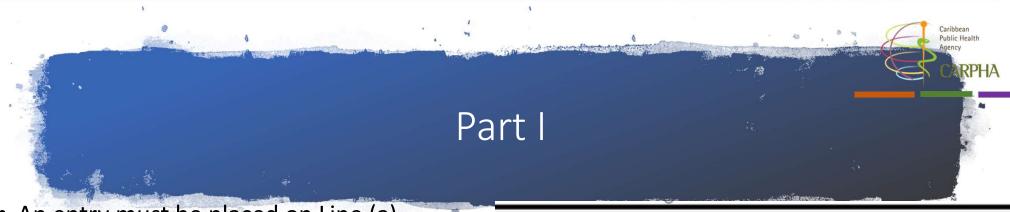
 Determine what antecedent conditions (if any) gave rise to the immediate cause



Cause of Death Sections

l Report disease or condition		Cause of death	Time interval from onset to death
directly leading to death on line a	a		
Report chain of events in due to order (if applicable)	\(\frac{1}{5}\)	Due to:	
State the underlying cause on the lowest used line	S .	Due to:	
	€ d	Due to:	

7.5



- An entry must be placed on Line (a)
 - This is the immediate (final) cause
- Line (b), (c), (d) are due to (or consequence of)
 - Report what gave rise to the line above by asking "What caused this condition?"
 - The **underlying** cause is placed on last line and should initiate all above it





Mode of dying uninformative e.g natural causes, old age, senility, cardiac arrest and respiratory failure

Report as accurately and precisely as possible. E.g. Indicate if COVID-19 laboratory confirmed

Note that the Underlying Cause of Death can terminate at the Immediate Cause of Death

	Cause of death	Time interval from onset to death	
a	Acute respiratory distress syndrome	2 days	
ь	Due to: Pneumonia	10 days	
с	Due to: COVID-19 (test positive)	14 days	
d	Due to:		
deat	Underlying cause of death	1	

Time Interval between Onset and Death





PROVIDES A USEFUL CHECK ON SEQUENCE OF CAUSES



PROVIDES INFO ON DURATION OF ILLNESS IN CERTAIN DISEASES



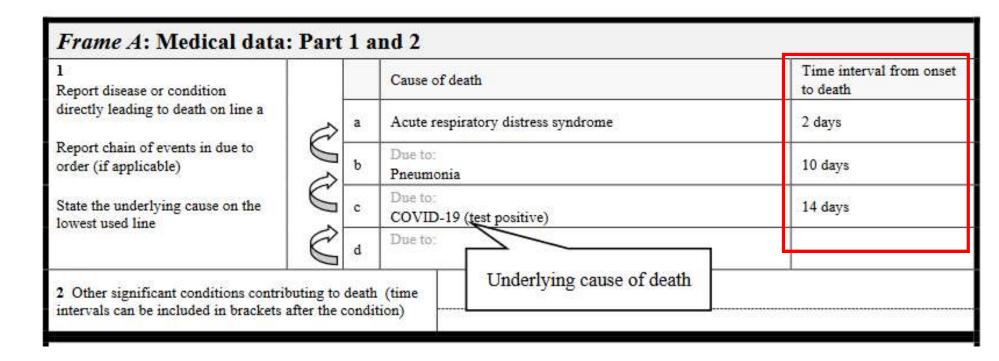
ALLOWS FOR CORRECT ASSIGNMENT OF ICD CODES



COMPLETE WHERE KNOWN – EVEN APPROXIMATELY



Example



Source: WHO Medical certification, ICD mortality coding, and reporting mortality associated with COVID-19 Technical note, 7 June 2020

Part II





All other important diseases or conditions that may have contributed to the death but did not lead to the underlying cause of death in Part I



Enter in order of significance - should represent a direct sequence and be logical

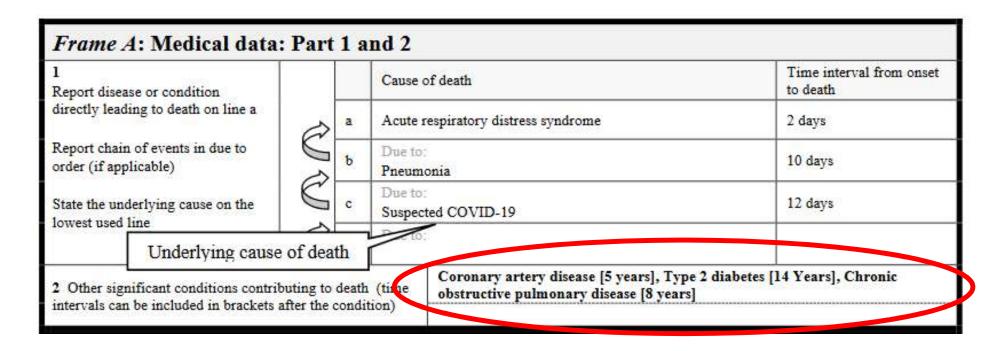


Condition doesn't fit sequence – consider for Part II

Only if they influenced the course of morbid events and <u>contributed</u> to the fatal outcome



Example with Co-morbidities



Source: WHO Medical certification, ICD mortality coding, and reporting mortality associated with COVID-19 Technical note. 7 June 2020

Other concerns



Persons with COVID-19 may die of other diseases or accidents, such cases are not deaths due to COVID-19

In case you think that COVID-19 aggravated the consequences of the accident, you may report COVID-19 in Part 2.

Please remember to indicate the manner of death and record in part 1 the exact kind of an incident or other external cause.



		Cause of death	Time interval from onse to death
\Rightarrow	a	Heart failure	1 day
	b	Due to: Myocardial infarction	5 days
	c d	Due to: Underlying cause of death	
		b c	a Heart failure b Due to: Myocardial infarction c Due to: Underlying cause of death

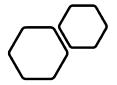
The clinical illness and sequence of events leading to death may indicate that even in the presence of COVID-19 a person dies due to other conditions, as in the example above

Source: WHO Medical certification, ICD mortality coding, and reporting mortality associated with COVID-19 Technical note, 7 June 2020



Coding of COVID-19 Death Certificates





Selecting the Underlying Cause of Death

Underlying Cause of Death (UC):

The disease or injury that started the train of morbid events leading directly to death or

 The circumstances of the accident or violence that produced the (fatal) injury NOTE: UC is the primary target for disease prevention and control





- To assign the correct ICD-10 codes to all causes of death listing on the Medical Certificate of Death
- Use rules and guidelines to correctly select the Underlying
 Cause of Death
- NOTE: The coded conditions are only as accurate as what has been written on the certificate



ICD-10 Codes for COVID-19

- U07.1 COVID-19, virus identified
- U07.2 COVID-19, virus not identified
 - Clinically-epidemiologically diagnosed COVID-19
 - Probable COVID-19
 - Suspected COVID-19

N.B.: Not U07



COVID-19 Coding Specific Note

COVID-19 is not considered as due to, or as an obvious consequence of, anything else (in analogy to the coding rules applied for INFLUENZA and emerging diseases reportable to WHO).

Further, there is no provision in the classification to link COVID-19 to other causes or modify its coding in any way.



Case 1

F 92yrs	Cause of Death		
Part I. D	isease or condition directly leading to death	Duration	
a. b. c.	Type 1 Respiratory Failure	15 days 18 days approx.3-4 Weeks	J960 J180 U07.1
Part II. (Other significant conditions contributing to death		

GPa: sequence terminating in the first mentioned condition

UC: U07.1



Case 2:

F 65yrs	Cause of Death		
Part I. D	isease or condition directly leading to death	Duration	
a. b. c.	Acute Respiratory Distress Syndromedue to (or as a consequence of) COVID-19, Pneumonia	J80 7 days U07, J189 I10	
Part II. (Other significant conditions contributing to death		
••••			



Case 2: Queries

F 65yrs	Cause of Death	
Part I. Disease or condition directly	/ leading to death	Duration
b. COVID-19, Pneumonia	Syndromedue to (or as a consequence of)due to (or as a consequence of)due to (or as a consequence of)	J80 7 days U07, J189 I10
Part II. Other significant conditions	s contributing to death	

GP≠A, GP≠B, R1

UC: U07



Case 2: Corrected

F 65yrs	Cause of Death		
Part I. [Disease or condition directly leading to death	Duration	
a.	Acute Respiratory Distress Syndromedue to (or as a consequence of)	?	J80
b.	Pneumonia due to (or as a consequence of)	7 days	J189
C.	COVID-19 confirmeddue to (or as a consequence of)	?	U07.1
Part II.	Other significant conditions contributing to death		
Ну	pertensionl10	0.	

UC: U07.1



Report disease or condition directly leading to death on line a		Cause of death	Time interval from onse to death
	a	Heart failure I5	0.9 1 day
Report chain of events in due to order (if applicable)	b	Due to: Myocardial infarction I2	1.9 5 days
State the underlying cause on the lowest used line	C c	Due to:	
	d	Due to: Underlying cause of death	5
2 Other significant conditions contrib		h (time COVID-19	U07 1

GPa: sequence terminating in the first mentioned condition

UC: I21.9 (Not COVID-19 death)

Source: WHO Medical certification, ICD mortality coding, and reporting mortality associated with COVID-19 Technical note, 7 June 2020



Cause of death reporting reminders



Reminders

- Use legible writing
- Avoid the use of abbreviations
- Enter details on duration
- Record diagnosis as precisely as possible
- Utilize additional reports: autopsy reports; lab reports
- Give information on disease and the details or circumstance of injury.

- Always have an entry on the first line in Part I
- Use logical sequences in Part I
- Do not place the underlying cause in Part
- DO NOT report mechanistic terminal events such as cardiac arrest, asystole, cardiopulmonary arrest, respiratory arrest, ventricular fibrillation
- DO NOT report symptoms or signs.



Thank you!



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