COURT FILE NUMBER:

2001-14300

COURT:

COURT OF QUEEN'S BENCH OF ALBERTA

JUDICIAL CENTRE:

CALGARY

APPLICANTS:

REBECCA MARIE INGRAM, HEIGHT BAPTIST CHURCH, NORTHSIDE BAPTIST CHURCH, ERIN

BLACKLAWS and TORRY TANNER

RESPONDENTS:

HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ALBERTA and THE CHIEF MEDICAL

OFFICER OF HEALTH

CERTIFICATE FOR FILING OF AFFIDAVIT

ADDRESS FOR SERVICE

AND CONTACT INFORMATION OF COMMISSIONER OF

DOCUMENT:

Nicholas Trofimuk

Alberta Justice, Constitutional and Aboriginal Law

10th Floor, 102A Avenue Tower

10025 - 102A Avenue Edmonton, AB T5J 2Z2

Phone: 780-422-2917 Fax: 780-643-0852

CERTIFICATE OF NICHOLAS TROFIMUK **Dated 12 July 2021**

1. Further to the Affidavit of Patricia Wood, I confirm that all necessary requirements for the electronic execution of the Affidavit as set out in the Notice to Profession & Public 2020-02, dated 25 March 2020, were met and that owing to public health concerns, it was not possible for the Affiant and I to be physically present together.

> Nicholas Trofimuk Barrister & Solicitor

COURT FILE NUMBER

2001-14300

Clerk's Stamp

COURT

COURT OF QUEEN'S BENCH OF

ALBERTA

JUDICIAL CENTRE

CALGARY

APPLICANT

REBECCA MARIE INGRAM, HEIGHTS BAPTIST CHURCH, NORTHSIDE BAPTIST CHURCH, ERIN BLACKLAWS and TORRY

TANNER

RESPONDENTS

HER MAJESTY THE QUEEN IN
RIGHT OF THE PROVINCE OF

ALBERTA and THE CHIEF MEDICAL

OFFICER OF HEALTH

DOCUMENT

AFFIDAVIT OF PATRICIA WOOD

ADDRESS FOR SERVICE

AND CONTACT

AND CONTACT
INFORMATION OF PARTY

FILING THIS DOCUMENT

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Attn: Nicholas Parker and Nicholas Trofimuk

Tel: (780) 643-0853 Fax: (780) 643-0852

AFFIRMED ON 12 JULY 2021

I, Patricia Wood, of the City of Ottawa, in the Province of Ontario, AFFIRM AND DECLARE THAT:

Introduction

- 1. My name is Patricia Wood. I am the senior mortality classification specialist at Statistics Canada. I have personal knowledge of the facts and matters hereinafter deposed to by me, except where same are stated to be based upon information and belief, and those I believe to be true.
- 2. I have read the portion of Dr Bhattacharya's expert report which states:

According to Statistics Canada, "When a pre-existing condition is suspected of putting a person at higher risk of a severe course of COVID-19 resulting in death, the death is counted as a death due to COVID-19 rather than a death due to the pre-existing condition. ..."

(...)

Pre-existing conditions can also put people at a higher risk of severe courses of influenza resulting in death, but to my knowledge, such deaths are not counted as influenza deaths. Such a discrepancy in counting COVID-19 deaths and influenza deaths makes comparisons between the two respiratory illnesses difficult and results in artificially elevated death statistics due to COVID-19.¹

- 3. The assertion that Statistics Canada counts COVID-19 deaths and influenza deaths differently, resulting in 'artificially elevated' death statistics due to COVID-19, is not accurate: COVID-19 and influenza deaths are coded using the same World Health Organization ("WHO") international coding rules and guidelines for selecting underlying cause of death for statistical tabulation.
- 4. At the outset of this pandemic, the WHO recommended that countries code COVID-19 related deaths using the same coding rules applied for influenza deaths. Attached as **Exhibit A** are the WHO's 'International guidelines for certification and classification (coding) of COVID-19 as a cause of death'², which state at page 8:

The international rules and guideline for selecting the underlying cause of death for statistical tabulation apply when COVID-19 is reported on a death certificate but, given the intense public health requirements for data, 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.

2

¹ Expert Report of Dr Jay Bhattacharya, pages 5-6.

² Available at https://www.who.int/classifications/icd/Guidelines_Cause_of_Death_COVID-19.pdf.

- 5. Statistics Canada uses the international coding rules noted above to code causes of death based on the information provided in the Medical Certificate of Death ("MCOD") for the deceased person.
- 6. If the MCOD indicates that the sequence of events leading to death was initiated by COVID-19, with or without mention of pre-existing conditions, then COVID-19 is selected as the underlying cause of death. In the same way, if the MCOD indicates that the sequence of events leading to death was initiated by influenza, with or without mention of pre-existing conditions, then influenza is selected as the underlying cause of death.
- 7. If, on the other hand, the MCOD indicates that the sequence of events leading to death was initiated by another disease (e.g. cancer) or circumstance (e.g. trauma), with or without a coinciding COVID-19 or influenza infection, then the other disease or circumstance is selected as the underlying cause of death for statistical tabulation.
- 8. I was not physically present before the Commissioner of Oaths, but was linked with the Commissioner of Oaths using video technology, and the process outlined in the Notice to the Profession 2020-02 was followed.

AFFIRMED BEFORE ME in the City of Ottawa, Province of Alberta, this 12 day of July, 2021. I certify that Patricia Wood satisfied me that she is a person entired to affirm.

(Commissioner for Oaths in and for the

Province of Alberta)

PATRICIA WOOD

Nicholas J.W. Trofimuk Barrister & Solicitor

Ni



This is the Exhibit marked "A "referred to in the Affidavit of Patricia Wood Wood Affibered me this 12th day of July A Comprissional for Oaths

Nicholas J.W. Trofimuk Barrister & Solicitor

INTERNATIONAL GUIDELINES FOR CERTIFICATION AND CLASSIFICATION (CODING) OF COVID-19 AS CAUSE OF DEATH

Based on ICD
International Statistical Classification of Diseases
(16 April 2020)

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1. PURPOSE OF THE DOCUMENT

This document describes certification and classification (coding) of deaths related to COVID-19. The primary goal is to identify all deaths <u>due to COVID-19</u>.

A simplified section specifically addresses the persons that fill in the medical certificate of cause of death. It should be distributed to certifiers separate from the coding instructions.

2. DEFINITION FOR DEATHS DUE TO COVID-19

A death due to COVID-19 is defined for surveillance purposes as a death resulting from a clinically compatible illness, in a probable or confirmed COVID-19 case, unless there is a clear alternative cause of death that cannot be related to COVID disease (e.g. trauma). There should be no period of complete recovery from COVID-19 between illness and death.

A death due to COVID-19 may not be attributed to another disease (e.g. cancer) and should be counted independently of preexisting conditions that are suspected of triggering a severe course of COVID-19.

3. GUIDELINES FOR CERTIFYING COVID-19 AS A CAUSE OF DEATH

In view of COVID-19 it is important to record and report deaths due to COVID-19 in a uniform way.

A- RECORDING COVID-19 ON THE MEDICAL CERTIFICATE OF CAUSE OF DEATH

COVID-19 should be recorded on the medical certificate of cause of death for ALL decedents where the disease caused, or is assumed to have caused, or contributed to death.

B- TERMINOLOGY

The use of official terminology, **COVID-19**, should be used for all certification of this cause of death.

As there are many types of coronaviruses, it is recommended not to use "coronavirus" in place of COVID-19. This helps to reduce uncertainty for the classification or coding and to correctly monitor these deaths.

C- CHAIN OF EVENTS

Specification of the causal sequence leading to death in Part 1 of the certificate is important. For example, in cases when COVID-19 causes pneumonia and fatal respiratory distress, both pneumonia and respiratory distress should be included, along with COVID-19, in Part 1. Certifiers should include as much detail as possible based on their knowledge of the case, as from medical records, or about laboratory testing.

Here, on the International Form of Medical Certificate of Cause of Death, is an example of how to certify this chain of events for deaths due to **COVID-19** in Part 1:

1 Report disease or condition			Cause of death	Time interval from onset to death
directly leading to death on line a		a	Acute respiratory distress syndrome	2 days
Report chain of events in due to order (if applicable)		b	Due to: Pneumonia	10 days
State the underlying cause on the lowest used line	9	С	Ovidence (test positive)	14 days
		d	Due to	7
2 Other significant conditions contri intervals can be included in brackets				
Manner of death:				
Disease		-	Assault	Could not be determined
_ Accident 1			Legal intervention	Pending investigation

Note: This is a typical course with a certificate that has been filled in correctly. Please remember to indicate whether the virus causing COVID-19 had been identified in the defunct.

D- COMORBIDITIES

There is increasing evidence that people with existing chronic conditions or compromised immune systems due to disability are at higher risk of death due to COVID-19. Chronic conditions may be non-communicable diseases such as coronary artery disease, chronic obstructive pulmonary disease (COPD), and diabetes or disabilities. If the decedent had existing chronic conditions, such as these, they should be reported in Part 2 of the medical certificate of cause of death.

NT

Here, on the International Form of Medical Certificate of Cause of Death, are examples of how to certify this chain of events for deaths due to **COVID-19** in Part 1, with comorbidities reported in Part 2:

Frame A: Medical data: 1	rart I a	na 2	·		7
Report disease or condition		Cause	of death	9	Time interval from onset to death
directly leading to death on line a	a	a Acute respiratory distress syndrome			2 days
Report chain of events in due to order (if applicable)		Pneum			10 days
State the underlying cause on the lowest used line	9.	Suspec	ted COVID-19		12 days
Underlying cause o	f death				
2 Other significant conditions contribut			Coronary artery disease [5 years], T obstructive pulmonary disease [8 ye		14 Years], Chronic
intervals can be included in brackets afte	er the condi	tion)			
Manner of death:			· ·		
Disease		Assault		Could not b	e determined
- Accident	_	Legal inte	ervention	- Pending inv	estigation
■ Intentional self harm		War	*****	Unknown	

Note: This is a typical course with a certificate that is filled in correctly. COVID-19 cases may have comorbidity. The comorbidity is recorded in Part 2.

1 Report disease or condition			Cause of death		Time interval from onset to death
directly leading to death on line a		a	Acute respiratory distress syndrome		2 days
Report chain of events in due to order (if applicable) State the underlying cause on the lowest used line		b Pneumonia			10 days
		c COVID-19			10 days
Underlying cause of de	=ath [[8	The be		
2 Other significant conditions contril intervals can be included in brackets					
Manner of death:	··· <u>-</u>			"	
Disease		A	Assault	Could not	be determined
- Accident			egal intervention	- Pending ir	ivestigation
	\longrightarrow	_ V			

Note: This is a typical course with a certificate that has been filled in correctly. COVID-19 cases may have comorbidity. The comorbidity is recorded in Part 2.

E- OTHER EXAMPLES

Frame A: Medical data:	Part	1 an	d 2			
Report disease or condition directly			Cause of death			Time interval from onset to death
leading to death on line a	a	a	Respiratory failure			2 days
Report chain of events in due to order (if applicable)	100	b	Due to: Pneumonia			8 days
State the underlying cause on the lowest used line	0 <	с	Due to: Pregnancy complicated by C	OVID-19		12 days
2 Othe intervals can be included in brackets and	þ	leath (
Disease			Assault		_ Could	not be determined
= Accident			Legal intervention			ig investigation
Intentional self harm		<i>-</i> √	War		■ Unkno	ovn
For women, was the deceased pro	egnant'	?	68:	<u></u> Yes	➡ No	➡ Unknown
At time of death	38.0					
Between 43 days up to 1 year before	e death					
Did the pregnancy contribute to the dea	th?			Yes	➡ No	

Note: This is a typical course with a certificate is filled in correctly. In case of a pregnancy, puerperium or birth leading to death in conjunction with COVID-19, please record the sequence of events as usual, and remember to enter the additional detail for pregnancies in frame B of the certificate of cause of death.

1 Report disease or condition directly			Cause o	f death	Time interval from onset to death
leading to death on line a		a	Acute re	espiratory distress syndrome	3 days
Report chain of events in due to order (if applicable)	1	b	Due to	-19	One week
State the underlying cause on the lowest used line	6	с	Ducto	Underlying cause of death	
Towest used fine		d	Due to.		
2 Other significant conditions contrib				HIV disease [5 years]	
	after the c	onuni	OII)		
intervals can be included in brackets a					
Manner of death:					
	, , , ,	-	Assault	➡ Could no	ot be determined
Manner of death:			Assault Legal inter	50 S0	ot be determined investigation

Note: This is a typical course with a certificate that is filled in correctly. The certifier has identified HIV disease as contributing to the death and recorded it in Part 2.

The examples below show recording of cases where death may have been influenced by **COVID-19**, but death was caused by another disease or an accident.

Frame A: Medical data	Part	1 aı	1d 2				
1 Report disease or condition directly			Cause	of death			Time interval from onset to death
leading to death on line a		a	Hypov	olaemic shock			l day
Report chain of events in due to order (if applicable)		b	Due to Aortic	dissection			1 day
State the underlying cause on the lowest used line		с	Motor	vehicle accident			2 days
iowest used fine		d	Due te				
2 Other significant conditions contrib intervals can be included in brackets a				COVID-19	Underlying car	use of death	
						T	
Manner of death:	~	\sim	T	ID-1	9 DI	TI	A
■ Disease			Assa P			Could not b	
Accident		_	Legal inte	ervention		Pending inv	estigation
■ Intentional self harm		-	War			Unknown	

Note: Persons with COVID-19 may die of other diseases or accidents, such cases are not deaths due to COVID-19 and should not be certified as such. 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.

Frame A: Medical data: Part 1 and 2									
Report disease or condition directly leading to death on line a			Cause of death		Time interval from onset to death				
	\Rightarrow	a	Heart failure		1 day				
Report chain of events in due to order (if applicable)	0	b	Decare Myocardial infarction		5 days				
State the underlying cause on the	W W	6	5	5	c	Divio			
lowest used line		d	Underlying cause of de	eath	- 1				
2 Other significant conditions contributions can be included in brackets at				AT	H				
	-		777 9 000	N Z					
Manner of death:			VID		A				
■ Disease		- /	Assault	Could not be	e determined				
- Accident		- I	Legal intervention	Pending inv	estigation				
Intentional self harm		_ '	War =	Unknown					

Note: Persons with COVID-19 may die due to other conditions such as myocardial infarction. Such cases are not deaths due to COVID-19 and should not be certified as such.

4. GUIDELINES FOR CODING COVID-19 FOR MORTALITY

This document provides information about the ICD-10 codes for COVID-19 and includes mortality classification (coding) instructions for statistical tabulation in the context of COVID-19. It includes a reference to the WHO case definitions for surveillance.

New ICD-10 codes for COVID-19:

- U07.1 COVID-19, virus identified
 - https://icd.who.int/browse10/2019/en#/U07.1
- U07.2 COVID-19, virus not identified
 - o Clinically-epidemiologically diagnosed COVID-19
 - Probable COVID-19
 - Suspected COVID-19

https://icd.who.int/browse10/2019/en#/U07.2

Details of the updates to ICD-10 are available online at:

https://www.who.int/classifications/icd/icd10updates/en/

A- ICD-10 Cause of Death coding of COVID-19

Certifiers use a range of terms to describe COVID-19 as a cause of death, a sample can be found in the annex of this document.

Although both categories, U07.1 (COVID-19, virus identified) and U07.2 (COVID-19, virus not identified) are suitable for cause of death coding, it is recognized that in many countries detail as to the laboratory confirmation of COVID-19 will NOT be reported on the death certificate. In the absence of this detail, it is recommended, for mortality purposes only, to code COVID-19 provisionally to U07.1 unless it is stated as "probable" or "suspected".

The international rules and guideline for selecting the underlying cause of death for statistical tabulation apply when COVID-19 is reported on a death certificate but, given the intense public health requirements for data, 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. Further to this, there is no provision in the classification to link COVID-19 to other causes or modify its coding in any way.

With reference to section 4.2.3 of volume 2 of ICD-10, the purpose of mortality classification (coding) is to produce the most useful cause of death statistics possible. Thus, whether a sequence is listed as 'rejected' or 'accepted' may reflect interests of importance for public health rather than what is acceptable from a purely medical point of view. Therefore, always apply these instructions, whether they can be considered medically correct or not. Individual countries should not correct what is

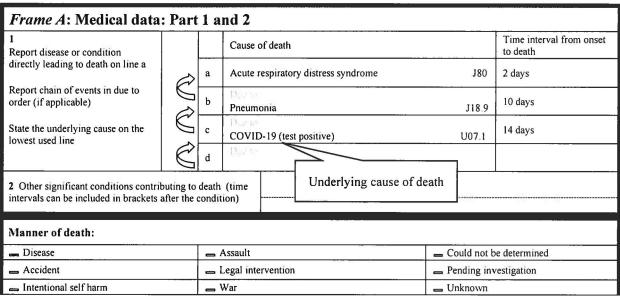
NT

assumed to be an error, since changes at the national level will lead to data that are less comparable to data from other countries, and thus less useful for analysis.

A manual plausibility check is recommended for certificates where COVID-19 is reported, in particular for certificates where COVID-19 was reported but not selected as the underlying cause of death for statistical tabulation.

B- CHAIN OF EVENTS

Here, on the International Form of Medical Certificate of Cause of Death, is an example of how to code this chain of events and select the underlying cause of death for deaths due to **COVID-19** in Part 1:



Note: Select COVID-19 as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

C- COMORBIDITIES

Here, on the International Form of Medical Certificate of Cause of Death, are examples of how to code this chain of events and select the underlying cause of death for deaths due to **COVID-19** in Part 1, with comorbidities reported in Part 2:

Frame A: Medical data	: Part	1 an	d 2			
1 Report disease or condition			Cause of	of death		Time interval from onset to death
directly leading to death on line a		a	Acute r	espiratory distress syndrome	J80	2 days
Report chain of events in due to order (if applicable)	<i>U</i> ?	I h I	Due to	onia	J18.9	10 days
State the underlying cause on the lowest used line	W 1	l c l	Due to	ed COVID-19	U07.2	12 days
Underlying cause	of dea	ıth	100			
2 Other signature conditions comme	Junne to	_ (time	Coronary artery disease [5 years], Type	2 diabetes [14 \	Years], Chronic obstructive
intervals can be included in brackets	after the	conditio	on)	pulmonary disease [8 years]		I25.1, E11.9, J44.9
Manner of death:						
Disease		_ As	ssault		Could not b	e determined
- Accident	_ Accident _ Lega				- Pending inv	estigation
■ Intentional self harm		_ W	'ar		■ Unknown	

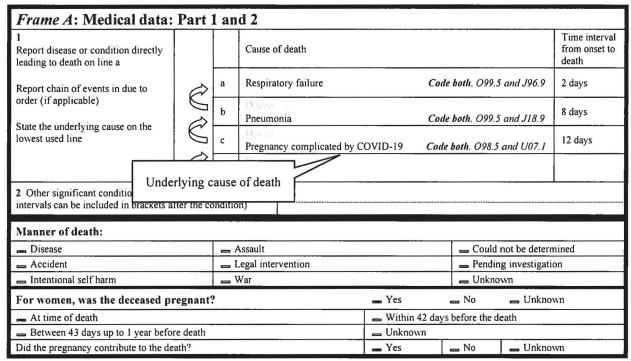
Note: Code all entries in Part 1 and 2, and in this example select COVID-19, specified as suspected (the case has virus not confirmed) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

1 Report disease or condition			Cause of death		Time interval from onset to death
directly leading to death on line a		a	Acute respiratory distress syndrome	180	2 days
Report chain of events in due to order (if applicable)	S	b	Due to: Pneumonia	J18,9	10 days
State the underlying cause on the		С	Due to COVID-19	U07.1	10 days
Underlying cause of death		d	Due to		
2 Other significant conditions contri intervals can be included in brackets					G80.
Manner of death:					
_ Disease			Assault	Could not b	e determined
_ Accident I			Legal intervention	- Pending inv	vestigation
■ Intentional self harm			War	□ Unknown	

Note: Code all entries in Part 1 and 2, and in this example select COVID-19 as underlying cause of death (the case probably has been tested positive). Step SP3 applies as causes have been reported on

more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

D- OTHER EXAMPLES



Note: Code all entries in Part 1 and 2, and in this example select other viral diseases complicating pregnancy, childbirth and the puerperium (O98.5) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (other viral diseases complicating pregnancy, childbirth and the puerperium) can cause all the conditions, pneumonia (O99.5 and J18.9) and acute respiratory distress syndrome (O99.5 and J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1]. Use additional code to retain COVID-19. [See ICD-10 2016 and later, Volume 2, Section 4.2.8 Special instructions on maternal mortality (Step M4)].

Frame A: Medical data:	Part 1	an	d 2		
1 Report disease or condition directly			Cause of death		Time interval from onset to death
leading to death on line a	a	a	Acute respiratory distress syndrome	J80	3 days
Report chain of events in due to order (if applicable)		b	Due (a) COVID-19	U07.1	One week
St Underlying cause of death	7	С	Due to: HIV disease	B24	5 years
	R	d	Due to		
2 Other significant conditions contribu					
intervals can be included in brackets at	iter the c	onditi	on)		
Manner of death:					
Disease			Assault	Could not be	e determined
- Accident		_1	Legal intervention	- Pending inv	estigation
■ Intentional self harm		- '	War		

Note: The certifier should have added the HIV disease as a comorbidity in Part 2 of the certificate, however the selection rules of ICD allow to identify COVID-19 as underlying cause of death. (COVID-19) is reported in a sequence ending with a terminal condition (Acute respiratory distress syndrome due to COVID-19). Mortality coding rule step SP4 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (HIV disease) cannot cause all the conditions. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

Frame A: Medical data:	Part	1 ar	ıd 2		
1 Report disease or condition directly			Cause of death		Time interval from onset to death
leading to death on line a	<i>\(\alpha\)</i>	a	Hypovolaemic shock	T79.4	1 day
Report chain of events in due to order (if applicable)	0	ь	Aortic dissection	\$25,0	1 day
State the underlying cause on the lowest used line	()	с	Due to. Motor vehicle accident	V89.2	2 days
Underlying cause of deat	h 12	d	Due to:		
intervals can be included in brackets a	to ((time COVID-19		U07.1
intervals can be included in orderets a	tter the e	Ollulli		FAT	
Manner of death:			VID-19 D	LIXX	
_ ■ Dîsease		-7	Assylt	Could not b	
- Accident		= 1	Legal intervention	Pending inv	vestigation
■ Intentional self harm	000		War	Unknown	

Note: Code all entries in Part 1 and 2, and in this example select motor vehicle accident (V89.2) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line, motor vehicle accident (V89.2), can cause all the conditions, traumatic aortic dissection (S25.0) and traumatic hypovolemic shock (T79.4), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

Frame A: Medical data:	Part	1 ar	1d 2					
1 Report disease or condition directly			Cause o	f death			Time interval from onset to death	
leading to death on line a		a	Heart fa	ilure		150.9	1 day	
Report chain of events in due to order (if applicable)	0	b	Dae to Myocar	dial infarction		I21.9	5 days	
State the underlying cause on the lowest used line	6	c	Day to					
lowest used line		d	Distrib	U	nderlying cause of	death		
2 Other significant conditions contrib				COVID-19			U	07.1
intervals can be included in brackets a	itter the co	onditi	on)			ATT	H	
Manner of death:		_ ¬	TT	n.1	9 DE	FIL	A	
_ Disease		4	Asiault	1		Could not be	e determiner	
→ Accidem		∠ I	Legal inter	vention		- Pending inv	estigation	
Intentional se, harm		_ /	War			Unknown		

Note: Code all entries in Part 1 and 2, and in this example select acute myocardial infarction (I21.9) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line, myocardial infarction (I21.9), can cause the condition, heart failure (I50.9), mentioned on the line above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

E- Additional WHO cause of death certification links

- How to fill in a death certificate: Interactive Self Learning Tool (WHO)
 http://apps.who.int/classifications/apps/icd/icd10training/ICD-10
 DeathCertificate/html/index.html
- Cause of Death on the Death Certificate: Quick Reference Guide (Section 7.1.2)
 https://icd.who.int/browse10/Content/statichtml/ICD10Volume2_en_2016.pdf
- International form of medical certificate of cause of death (Section 7.1.1)
 https://icd.who.int/browse10/Content/statichtml/ICD10Volume2_en_2016.pdf

5. ANNEX

Examples of terms used by certifiers to describe COVID-19 and that can be coded as synonyms of COVID-19:

COVID Positive

Coronavirus Pneumonia

COVID negative

COVID-19 Infection

Sars-Cov-2 Infection (Coronavirus Two Infection)

COVID-19 Coronavirus

Infection - COVID-19 (Coroner Informed)

Hospital Acquired Pneumonia - COVID-Positive

COVID-19 possible - tested negative

Corona Virus two infection (SARS-Cov-2)

Corona Virus Pneumonia (COVID-19)

Coronavirus-Two Infection

Novel coronavirus

COURT FILE NUMBER

2001-14300

Clerk's Stamp

COURT

COURT OF QUEEN'S BENCH OF

ALBERTA

JUDICIAL CENTRE

CALGARY

APPLICANT

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Attn: Nicholas Parker and Nicholas Trofimuk

Tel: (780) 643-0853 Fax: (780) 643-0852

AFFIDAVIT OF PATRICIA WOOD AFFIRMED ON 12 JULY 2021

I, Patricia Wood, of the City of Ottawa, in the Province of Ontario, AFFIRM AND DECLARE THAT:

Introduction

- 1. My name is Patricia Wood. I am the senior mortality classification specialist at Statistics Canada. I have personal knowledge of the facts and matters hereinafter deposed to by me, except where same are stated to be based upon information and belief, and those I believe to be true.
- 2. I have read the portion of Dr Bhattacharya's expert report which states:

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According to Statistics Canada, "When a pre-existing condition is suspected of putting a person at higher risk of a severe course of COVID-19 resulting in death, the death is counted as a death due to COVID-19 rather than a death due to the pre-existing condition.

(...)

..."

Pre-existing conditions can also put people at a higher risk of severe courses of influenza resulting in death, but to my knowledge, such deaths are not counted as influenza deaths. Such a discrepancy in counting COVID-19 deaths and influenza deaths makes comparisons between the two respiratory illnesses difficult and results in artificially elevated death statistics due to COVID-19.¹

- 3. The assertion that Statistics Canada counts COVID-19 deaths and influenza deaths differently, resulting in 'artificially elevated' death statistics due to COVID-19, is not accurate: COVID-19 and influenza deaths are coded using the same World Health Organization ("WHO") international coding rules and guidelines for selecting underlying cause of death for statistical tabulation.
- 4. At the outset of this pandemic, the WHO recommended that countries code COVID-19 related deaths using the same coding rules applied for influenza deaths. Attached as Exhibit A are the WHO's 'International guidelines for certification and classification (coding) of COVID-19 as a cause of death'², which state at page 8:

The international rules and guideline for selecting the underlying cause of death for statistical tabulation apply when COVID-19 is reported on a death certificate but, given the intense public health requirements for data, 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.

¹ Expert Report of Dr Jay Bhattacharya, pages 5-6.

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² Available at https://www.who.int/classifications/icd/Guidelines Cause of Death COVID-19.pdf.

- 5. Statistics Canada uses the international coding rules noted above to code causes of death based on the information provided in the Medical Certificate of Death ("MCOD") for the deceased person.
- 6. If the MCOD indicates that the sequence of events leading to death was initiated by COVID-19, with or without mention of pre-existing conditions, then COVID-19 is selected as the underlying cause of death. In the same way, if the MCOD indicates that the sequence of events leading to death was initiated by influenza, with or without mention of pre-existing conditions, then influenza is selected as the underlying cause of death.
- 7. If, on the other hand, the MCOD indicates that the sequence of events leading to death was initiated by another disease (e.g. cancer) or circumstance (e.g. trauma), with or without a coinciding COVID-19 or influenza infection, then the other disease or circumstance is selected as the underlying cause of death for statistical tabulation.
- 8. I was not physically present before the Commissioner of Oaths, but was linked with the Commissioner of Oaths using video technology, and the process outlined in the Notice to the Profession 2020-02 was followed.

AFFIRMED BEFORE ME in the City of
Ottawa, Province of Alberta, this 12 day of
July, 2021. I certify that Patricia Wood
satisfied me that she is a person entitled to
affirm.

) Value a
PATRICIA WOOI

(Commissioner for Oaths in and for the Province of Alberta)

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This is the Exhibit mer	ked * A referred Modavit of
	12th day
Sworn before me this	, 20.7.1
	sioner for Oathe
A Commis	Honer for Cana

INTERNATIONAL GUIDELINES FOR CERTIFICATION AND CLASSIFICATION (CODING) OF COVID-19 AS CAUSE OF DEATH

Based on ICD
International Statistical Classification of Diseases
(16 April 2020)

WHO/HQ/DDI/DNA/CAT

PW

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1. PURPOSE OF THE DOCUMENT

This document describes certification and classification (coding) of deaths related to COVID-19. The primary goal is to identify all deaths <u>due to</u> COVID-19.

A simplified section specifically addresses the persons that fill in the medical certificate of cause of death. It should be distributed to certifiers separate from the coding instructions.

2. DEFINITION FOR DEATHS DUE TO COVID-19

A death due to COVID-19 is defined for surveillance purposes as a death resulting from a clinically compatible illness, in a probable or confirmed COVID-19 case, unless there is a clear alternative cause of death that cannot be related to COVID disease (e.g. trauma). There should be no period of complete recovery from COVID-19 between illness and death.

A death due to COVID-19 may not be attributed to another disease (e.g. cancer) and should be counted independently of preexisting conditions that are suspected of triggering a severe course of COVID-19.

3. GUIDELINES FOR CERTIFYING COVID-19 AS A CAUSE OF DEATH

In view of COVID-19 it is important to record and report deaths due to COVID-19 in a uniform way.

A- RECORDING COVID-19 ON THE MEDICAL CERTIFICATE OF CAUSE OF DEATH

COVID-19 should be recorded on the medical certificate of cause of death for ALL decedents where the disease caused, or is assumed to have caused, or contributed to death.

B- TERMINOLOGY

The use of official terminology, COVID-19, should be used for all certification of this cause of death.

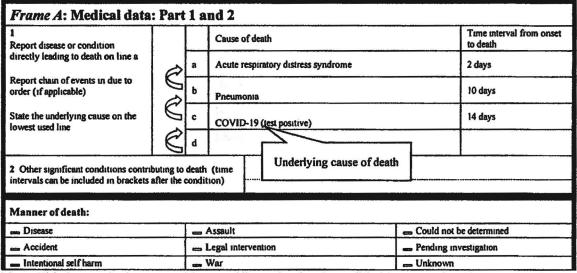
As there are many types of coronaviruses, it is recommended not to use "coronavirus" in place of COVID-19. This helps to reduce uncertainty for the classification or coding and to correctly monitor these deaths.



C- CHAIN OF EVENTS

Specification of the causal sequence leading to death in Part 1 of the certificate is important. For example, in cases when COVID-19 causes pneumonia and fatal respiratory distress, both pneumonia and respiratory distress should be included, along with COVID-19, in Part 1. Certifiers should include as much detail as possible based on their knowledge of the case, as from medical records, or about laboratory testing.

Here, on the International Form of Medical Certificate of Cause of Death, is an example of how to certify this chain of events for deaths due to COVID-19 in Part 1:



Note: This is a typical course with a certificate that has been filled in correctly. Please remember to indicate whether the virus causing COVID-19 had been identified in the defunct.

D- COMORBIDITIES

There is increasing evidence that people with existing chronic conditions or compromised immune systems due to disability are at higher risk of death due to COVID-19. Chronic conditions may be non-communicable diseases such as coronary artery disease, chronic obstructive pulmonary disease (COPD), and diabetes or disabilities. If the decedent had existing chronic conditions, such as these, they should be reported in Part 2 of the medical certificate of cause of death.

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Here, on the International Form of Medical Certificate of Cause of Death, are examples of how to certify this chain of events for deaths due to COVID-19 in Part 1, with comorbidities reported in Part 2:

1 Report disease or condition			Cause	of death		Time interval from onse to death	
directly leading to death on line a	رم	a	Acute	espiratory distress syndrome		2 days	
Report chain of events in due to order (if applicable)		b	Due to Pneumonia			10 days	
State the underlying cause on the lowest used line	0	С	Due to Suspec	ted COVID-19		12 days	
Underlying cause	e of dea	th	(1)				
Other significant conditions contri intervals can be included in brackets				Coronary artery disease [5 years], T obstructive pulmonary disease [8 years]		14 Years], Chronic	
Manner of death:							
Disease		_	Assault		Could not b	oe determined	
	- Accident - Leg			gal intervention		em Pending investigation	
		-	Legal inte	rvention	- Pending in	vestigation	

Note: This is a typical course with a certificate that is filled in correctly. COVID-19 cases may have comorbidity. The comorbidity is recorded in Part 2.

1 Report disease or condition		Cause of death		Time interval from onset to death	
directly leading to death on line a	الما	Acute respiratory distress syr	ndrome	2 days	
Report chain of events in due to order (if applicable) State the underlying cause on the lowest used line		Due to Pneumonia		10 days	
		c COVID-19		10 days	
Underlying cause of d	leath	Due to			
Other significant conditions contri intervals can be included in brackets) Years]		
Manner of death:					
Manner of death: Disease		- Assault	← Could not	be determined	
Manner of death: Disease Accident		_ Assault _ Legal intervention	← Could not		

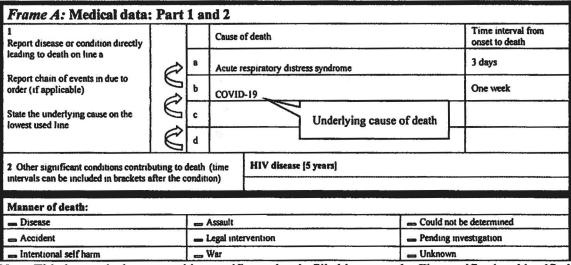
Note: This is a typical course with a certificate that has been filled in correctly. COVID-19 cases may have comorbidity. The comorbidity is recorded in Part 2.



E- OTHER EXAMPLES

All the second of the second o	The second name of								
Frame A: Medical data:	Part 1	l an	d 2						
1 Report disease or condition directly			Cause o	of death			Time interval from onset to death		
leading to death on line a	a	а	Respira	ntory failure			2 days		
Report chain of events in due to order (if applicable)	800	ь	Pneum				8 days		
State the underlying cause on the lowest used line	7	С	Pregnar	12 days					
Underlying cause of de									
2 Othe	Þ	eath (
intervals can be included in orackets at	ter the co	nditio	n)						
Manner of death:									
- Disease		-/	Assault		Could not be determined				
- Accident		I	egal inte	rvention	Pending investigation				
Intentional self harm		- 1	War			- Unknow	m		
For women, was the deceased pregnant?					≖ Yes	- No	➡ Unknown		
At time of death					→ Within 42 day	s before the dea	ath		
Between 43 days up to 1 year before	re death				- Unknown				
Did the pregnancy contribute to the de-	ath?			The state of the s	Yes	= No	Unknown		

Note: This is a typical course with a certificate is filled in correctly. In case of a pregnancy, puerperium or birth leading to death in conjunction with COVID-19, please record the sequence of events as usual, and remember to enter the additional detail for pregnancies in frame B of the certificate of cause of death.



Note: This is a typical course with a certificate that is filled in correctly. The certifier has identified HIV disease as contributing to the death and recorded it in Part 2.

(b)

The examples below show recording of cases where death may have been influenced by COVID-19, but death was caused by another disease or an accident.

Frame A: Medical data:	Part	1 aı	nd 2				
Report disease or condition directly leading to death on line a			Cause	of death			Time interval from onset to death
	a	a	Нуроч	olaemic shock			1 day
Report chain of events in due to order (if applicable)	0	ь	Due to	dissection			l day
State the underlying cause on the lowest used lime	6	С	Motor 9	vehicle accident —			2 days
	\mathbb{C}	d	Due to				
2 Other significant conditions contrib intervals can be included in brackets a				COVID-19	Underlying ca	ause of death	
NAMES OF THE PARTY		an bes	THE PARTY NAMED IN			TAR	
Manner of death:	\sim		TI	m-1	9 DI	TELL	A
- Disease			1.552			Could not b	
ann Accident		=	Legal inte	rvention		- Pending inv	restigation
_ Intentional self harm		-	War			unknown	

Note: Persons with COVID-19 may die of other diseases or accidents, such cases are not deaths due to COVID-19 and should not be certified as such. 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.

Frame A: Medical data:	Part	1 aı	nd 2					
1 Report disease or condition directly			Cause of death	Time interval from onset to death				
leading to death on line a		a	Heart failure	i day				
Report chain of events in due to order (if applicable)	CO	b	Due to Myocardial infarction	5 days				
State the underlying cause on the lowest used line	0	С	Due to					
	8	đ	Underlying cause of death					
2 Other significant conditions contributing to death (time intervals can be included in brackets after the condition)								
Manner of death)	Albalan					
man Disease		0	Assault — Could not	be determined				
Accident		1	egal intervention Pending in	nvestigation				
Intentional self harm		-	War Unknown					

Note: Persons with COVID-19 may die due to other conditions such as myocardial infarction. Such cases are not deaths due to COVID-19 and should not be certified as such.



4. GUIDELINES FOR CODING COVID-19 FOR MORTALITY

This document provides information about the ICD-10 codes for COVID-19 and includes mortality classification (coding) instructions for statistical tabulation in the context of COVID-19. It includes a reference to the WHO case definitions for surveillance.

New ICD-10 codes for COVID-19:

- U07.1 COVID-19, virus identified https://icd.who.int/browse10/2019/en#/U07.1
- U07.2 COVID-19, virus not identified
 - o Clinically-epidemiologically diagnosed COVID-19
 - Probable COVID-19
 - Suspected COVID-19

https://icd.who.int/browse10/2019/en#/1107.2

Details of the updates to ICD-10 are available online at:

https://www.who.int/classifications/icd/icd10updates/en/

A- ICD-10 Cause of Death coding of COVID-19

Certifiers use a range of terms to describe COVID-19 as a cause of death, a sample can be found in the annex of this document.

Although both categories, U07.1 (COVID-19, virus identified) and U07.2 (COVID-19, virus not identified) are suitable for cause of death coding, it is recognized that in many countries detail as to the laboratory confirmation of COVID-19 will NOT be reported on the death certificate. In the absence of this detail, it is recommended, for mortality purposes only, to code COVID-19 provisionally to U07.1 unless it is stated as "probable" or "suspected".

The international rules and guideline for selecting the underlying cause of death for statistical tabulation apply when COVID-19 is reported on a death certificate but, given the intense public health requirements for data, 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. Further to this, there is no provision in the classification to link COVID-19 to other causes or modify its coding in any way.

With reference to section 4.2.3 of volume 2 of ICD-10, the purpose of mortality classification (coding) is to produce the most useful cause of death statistics possible. Thus, whether a sequence is listed as 'rejected' or 'accepted' may reflect interests of importance for public health rather than what is acceptable from a purely medical point of view. Therefore, always apply these instructions, whether they can be considered medically correct or not. Individual countries should not correct what is

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assumed to be an error, since changes at the national level will lead to data that are less comparable to data from other countries, and thus less useful for analysis.

A manual plausibility check is recommended for certificates where COVID-19 is reported, in particular for certificates where COVID-19 was reported but not selected as the underlying cause of death for statistical tabulation.

B- CHAIN OF EVENTS

Here, on the International Form of Medical Certificate of Cause of Death, is an example of how to code this chain of events and select the underlying cause of death for deaths due to COVID-19 in Part 1:

Frame A: Medical data:	Part	1 a	ıd 2		
1 Report disease or condition			Cause of death		Time interval from onset to death
directly leading to death on line a	a	a	Acute respiratory distress syndrome	180	2 days
Report chain of events in due to order (if applicable)	S	ь	Due to Pneumonia	J18 9	10 days
State the underlying cause on the lowest used line	6	С	Due to COVID-19 (test positive)	U07.1	14 days
	C	d	Due to		
Other significant conditions contrib intervals can be included in brackets a					
intervals can be included in brackets a	mer me	CORGIC	OII)		
Manner of death:	1000000			***	
_ Disease			ssault	Could not b	oe determined
- Accident		1	egal intervention	Pending in	vestigation
== Intentional self harm		_ '	Var 🕳	Unknown	

Note: Select COVID-19 as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].



C- COMORBIDITIES

Here, on the International Form of Medical Certificate of Cause of Death, are examples of how to code this chain of events and select the underlying cause of death for deaths due to COVID-19 in Part 1, with comorbidities reported in Part 2:

1 Report disease or condition		Cause	of death	Time interval from onset to death	
directly leading to death on line a	8	a Acute	respiratory distress syndrome J80	2 days	
Report chain of events in due to order (if applicable)		b Pneum	onia J18 9	10 days	
State the underlying cause on the lowest used line	S	c Suspec	ted COVID-19 U07.2	12 days	
Underlying cause	of deat	h /			
2 Other signment continue continue			Coronary artery disease [5 years], Type 2 diabetes [14	Years, Chronic comructive	
intervals can be included in brackets after the c		ondition)	pulmonary disease [8 years]	125 1, E11 9, J44	
Manner of death:		180 (0)			
Disease		- Assault	- Could not	be determined	
- Accident		- Legal into	ervention Pending is	nvestigation	

Note: Code all entries in Part 1 and 2, and in this example select COVID-19, specified as suspected (the case has virus not confirmed) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

1 Report disease or condition		Cause of death		Time interval from onset to death
directly leading to death on line a	<i>□</i> 8	Acute respiratory distress syndrome	180	2 days
Report chain of events in due to order (if applicable)		Pneumonia	J18 9	10 days
State the underlying cause on the		COVID-19	U07 I	10 days
Underlying cause of death	4	al's		
2 Other significant conditions contrib- intervals can be included in brackets a				G80
Manner of death:				
Disease		Assault	- Could not b	be determined
- Accident	_	Legal intervention	Pending in	vestigation
	_ Intentional self harm _ W		War Unknown	

Note: Code all entries in Part 1 and 2, and in this example select COVID-19 as underlying cause of death (the case probably has been tested positive). Step SP3 applies as causes have been reported on

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more than one line in Part 1 and the condition reported first on the lowest used line (COVID-19) can cause all the conditions, pneumonia (J18.9) and acute respiratory distress syndrome (J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

D- OTHER EXAMPLES

Frame A: Medical data:	Part	1 an	d 2		
Report disease or condition directly leading to death on line a			Cause of death		Time interval from onset to death
Report chain of events in due to order (if applicable) State the underlying cause on the lowest used line	<i>a</i>	а	Respiratory failure Code both, 099.5 and	1.J96.9	2 days
	00	b	Ding to Pneumonia Code both, 099.5 am	1318.9	8 days
	6	С	Due to Pregnancy complicated by COVID-19 Code both, O98.5 and U07.1		
				- 1	
2 Other significant condition intervals can be included in prackets a			of death		
Manner of death:	umsetne				
ma Disease		/	Assault — Could not	be determ	ined
Accident		_1	Legal intervention — Pending investiga		n
Intentional self harm		ر ص ا	War Unknown		
For women, was the deceased p	regnant	?	— Yes — No ←	Unknov	vn
- At time of death			₩ithin 42 days before the death		
Between 43 days up to 1 year befo	re death		⊒ Unknown		
	-		Unknov		

Note: Code all entries in Part 1 and 2, and in this example select other viral diseases complicating pregnancy, childbirth and the puerperium (O98.5) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (other viral diseases complicating pregnancy, childbirth and the puerperium) can cause all the conditions, pneumonia (O99.5 and J18.9) and acute respiratory distress syndrome (O99.5 and J80), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1]. Use additional code to retain COVID-19. [See ICD-10 2016 and later, Volume 2, Section 4.2.8 Special instructions on maternal mortality (Step M4)].

Frame A: Medical data: Part 1 and 2							
Report disease or condition directly leading to death on line a			Cause of death		Time interval from onset to death		
	0	a	Acute respiratory distress syndrome	J80	3 days		
Report chain of events in due to order (if applicable)		Ь	O to 10 COVID-19	J07.1	One week		
St Underlying cause of death		c	HIV disease	B24	5 years		
	-8	d	8				
Other significant conditions contributing to death (time intervals can be included in brackets after the condition)							
micryals can be included in Diserces sher the condition)							
Manner of death:							
_ Disease Assault			ssault — Coul	Could not be determined			
Accident Engal inte			egal intervention — Pend	- Pending investigation			
_ Intentional self harm _ V			Var en Unki	unknown			

Note: The certifier should have added the HIV disease as a comorbidity in Part 2 of the certificate, however the selection rules of ICD allow to identify COVID-19 as underlying cause of death. (COVID-19) is reported in a sequence ending with a terminal condition (Acute respiratory distress syndrome due to COVID-19). Mortality coding rule step SP4 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line (HIV disease) cannot cause all the conditions. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

Frame A: Medical data: Part 1 and 2							
l Report disease or condition directly leading to death on line a	à		Cause	of death	2	Time interval from onset to death	
		а	Нуроч	olaemic shock	T79.4	l day	
Report chain of events in due to order (if applicable)	00	ь	Aortic	dissection	S25 0	l day	
State the underlying cause on the lowest used line	0	С	-	vehicle accident	V89.2	2 days	
Underlying cause of death	- 1	d	(time	COVID-19		U07.1	
2 d							
Manner of death:							
Disease Could not be						400	
						investigation	
Intentional self harm		\	War		- Unknown		

Note: Code all entries in Part 1 and 2, and in this example select motor vehicle accident (V89.2) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line, motor vehicle accident (V89.2), can cause all the conditions, traumatic aortic dissection (S25.0) and traumatic hypovolemic shock (T79.4), mentioned on the lines above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

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Frame A: Medical data: Part 1 and 2						
I Report disease or condition directly leading to death on line a	<i>⇔</i>		Cause o	f death	Time interval from onset to death	
		a	Heart fi	ailure 150.9	1 day	
Report chain of events in due to order (if applicable)	00	b	Due to Myocar	dial infarction 121.9	5 days	
State the underlying cause on the lowest used line	0	С	Due to	Underlying cause of death		
	C	d	Due to	Chattiying caase or deam		
2 Other significant conditions contributing to death (time intervals can be included in brackets after the condition)						
intervals can be included in brackets a	nter the c	ondi	ion)			
Manner of death:						
_ Disease			Aspfit	→ Could not 8	e determine	
- Accident Legal inte			Legal inte	rvention — Pending in	vestigation	
_ Intentional so ham		-	War	Unknown		

Note: Code all entries in Part 1 and 2, and in this example select acute myocardial infarction (I21.9) as underlying cause of death. Step SP3 applies as causes have been reported on more than one line in Part 1 and the condition reported first on the lowest used line, myocardial infarction (I21.9), can cause the condition, heart failure (I50.9), mentioned on the line above. [See ICD-10 2016 and later, Volume 2, Section 4.2.1].

E- Additional WHO cause of death certification links

- How to fill in a death certificate: Interactive Self Learning Tool (WHO)
 http://apps.who.int/classifications/apps/icd/icd10training/ICD-10
 DeathCertificate/html/index.html
- Cause of Death on the Death Certificate: Quick Reference Guide (Section 7.1.2)
 https://icd.who.int/browse10/Content/statichtml/ICD10Volume2_en_2016.pdf
- International form of medical certificate of cause of death (Section 7.1.1)
 https://icd.who.int/browse10/Content/statichtml/ICD10Volume2_en_2016.pdf



5. ANNEX

Examples of terms used by certifiers to describe COVID-19 and that can be coded as synonyms of COVID-19:

COVID Positive
Coronavirus Pneumonia
COVID negative
COVID-19 Infection
Sars-Cov-2 Infection (Coronavirus Two Infection)
COVID-19 Coronavirus
Infection - COVID-19 (Coroner Informed)
Hospital Acquired Pneumonia - COVID-Positive
COVID-19 possible - tested negative
Corona Virus two infection (SARS-Cov-2)
Corona Virus Pneumonia (COVID-19)
Coronavirus-Two Infection
Novel coronavirus

