Document 1 ATTACHMENT C

S22

COVID-19 CODING

As COVID-19 is a newly identified coronavirus strain the WHO have issued rules around how to classify and code these deaths. Classification changes have been made with the introduction of new ICD-10 codes. See the box below for the codes and what terms should be assigned to these.

A death directly due to COVID-19 is defined by the WHO 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.

The international rules and guidance for selecting the underlying cause of death for statistical tabulation apply when COVID-19 is reported on a death certificate. 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 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.

Here are some notes and examples of the many different ways COVID mentions can be displayed on a certificate, and their various coding layouts. The 3 basic codes are in the box below, with inclusion dot points further down. (The second box provides the 2 most common mixed COVID terms, while the third box displays the new Sequelae COVID codes - to come after the Reference Group meeting.) This is a working document that may be updated over time, as guidelines are subject to change from the WHO. COVID coding follows the same linkage rules as Influenza.

U071	COVID-19, virus identified
Similar to influenza -	coronavirus disease 2019
nearly always UCOD	SARS-COV-2 positive
when in Part 1, and	severe acute respiratory syndrome coronavirus 2 positive
sometimes when in Part II	
Z038	COVID-19 negative
	coronavirus negative
	SARS-COV-2 negative

severe acute respiratory syndrome coronavirus 2 negative "Not COVID 19"/"NON-COVID" - mention, but tests not mentioned
COVID-19, virus not identified SARS-COV-2 test pending suspected covid, awaiting COVID/SARS-COV-2 test result suspected COVID-19

J128/U071	COVID-Pneumonia
	COVID - Pneumoniitis
	Pneumonia-Coronavirus Disease 2019
A418/U071	COVID-Sepsis

1 - Basic examples of COVID, Pneumonia, Pneumonitis and Sepsis variations

A common certificate we may see:

Example 1:

- 1a) Pneumonia 2 days (J189) 1b) COVID-19 10 days (U071)
- Part 2: Chronic obstructive pulmonary disease, diabetes (J449, E149)

Coding notes:

As COVID-19 is the cause of the pneumonia and the condition on the lowest line in Part 1, code as the underlying cause of death (i.e. this death is due to COVID-19).

When pneumonia is on a separate line to COVID code as J189, pneumonia unspecified. There have been reports of secondary bacterial infections due to COVID-19 and it is important to reflect that we didn't receive any information as to the infectious agent of the pneumonia itself.

Example 2:

1a) COVID-19 pneumonia (J128/U071)

Part 2: Dementia, atrial fibrillation (F03, I489)

Coding notes:

COVID-19 is the underlying cause of death as it is the first mentioned condition in line 1A. When the term COVID-19 pneumonia (or COVID-19 pneumonitis) appears it can be coded as viral pneumonia due to COVID-19.

Example 3:

- 1a) sepsis, renal failure (A419, N179)
- 1b) COVID-19 (U071)

Part 2: lymphoma, secondary cancer spread (C859, C799)

Coding notes:

COVID-19 is the underlying cause of death as it is the first mentioned condition in line 1A.

Code sepsis as unspecified bacterial as infectious agent (viral, bacterial or fungal) is not mentioned on the certificate.

Example 4:

1a) Viral pneumonia (J128)

1b) COVID-19 (U071)

Coding notes:

COVID-19 is the underlying cause of death as it is the first mentioned sequence in Part 1 of the certificate.

Code viral pneumonia when due to COVID-19 as J128 (instead of J129) as know that COVID is the infective viral agent.

2 - Sequencing on the MCCD

Example 1:

1a) pneumonia (J189)

1b) COVID-19 (U071)

1c) Inanition (R64)

1d) Alzheimer's disease (G309)

Coding notes:

COVID-19 is the underlying cause of **death** as it is the end of the first mentioned sequence in part 1 of the **certificate**. In line with WHO guidelines -- no other disease per say can cause COVID-19 due to mode of transmission and so when presented in a sequence like above should still be coded as the underlying cause of **death**. This is partly due to the high public health importance of the disease. Alzheimer's and inanition may weaken immune systems and put someone at higher risk for contracting infection, but it still does not cause COVID-19. These rules are the same as the coding of influenza strains.

Example 2:

1a) COVID-19 (10 days) (U071)

1b) acute heart failure (2 days) (I509)

1c) septic shock (1 day) (R572, A419)

Coding notes:

COVID-19 is the underlying cause of death as it is the end of the first mentioned sequence in part 1 of the certificate. Conditions that have been present for 2 days and 1 day cannot cause a condition present for 10 days. Be mindful of durations of diseases reported and ensure these are used in aiding your decision making process and recorded correctly so others are able to interpret decision making.

Example 3:

1a) respiratory failure (J969)

1b) Acute respiratory distress syndrome (J80)

1c) pneumonia (J189)

Part 2: COVID-19 (U071)

Coding notes:

COVID-19 is the underlying cause of death in this example. Although the doctor has not placed it in the direct sequence of events it is an obvious cause of all 3 respiratory conditions in Part 1.

3 - Dying with COVID-19 not from COVID-19

Example 1:

- 1a) acute exacerbation of congestive heart failure (I500)
- 1b) coronary atherosclerosis (I251)
- 1c) hypertension (I10)

Part 2: COVID-19 (U071)

Coding notes:

Ischaemic heart disease is the underlying cause of death in this example. The sequence in Part 1 is a legitimate train of events leading to death that could have occurred without the presence of COVID-19. The doctor has identified that COVID-19 was a contributory factor but it DID NOT cause the death. Do not include this in tabulations for deaths due to COVID-19.

Example 2:

- 1a) pneumonia (J189)
- 1b) infective exacerbation of COPD (J440)

Part 2: Recovered from COVID-19, 10 days (U071)

Coding notes:

Infective exacerbation of COPD is the underlying cause of death in this example. Although COVID-19 may have contributed to the poor lung function close to death a person who has recovered from COVID-19 should not be recorded as dying to COVID-19 (WHO guidelines)

4 - Dying from suspected COVID-19

Example 1:

- 1a) viral pneumonia (J129)
- 1b) suspected COVID-19 infection (U072)

Part 2: dementia, ischaemic heart disease, hypertension (F03, I259, I10)

Coding notes:

The underlying cause of death in this example is U072, suspected COVID-19. The doctor has indicated that they believe COVID-19 has set the chain of events leading to death and this is communicated in part 1 of the certificate. It is important in this scenario to code U072 rather than lab confirmed. The words suspected imply that the viral agent was not confirmed in a lab environment.

Example 2:

- 1a) pulmonary fibrosis (J841)
- 1b) asbestosis years (J61)

Part 2: COVID-19 is suspected although returned negative test (U072, Z038)

Coding notes:

The underlying cause of **death** is asbestosis. It is a legitimate sequence and COVID-19 is in part 2. The COVID-19 is suspected so should be coded to U072. It is important to capture that a negative test was returned and Z038 must be added to the **death certificate** for statistical output.



Causes of Death Certification Australia

DRAFT

Aims of this booklet

It is the aim of this booklet to assist medical practitioners in the completion of the Medical Certificate of Cause of Death. Sufficiently detailed cause of death information will ensure accurate and timely cause of death data is available to users. This data is a foundation for government health policy and service delivery, disease monitoring and surveillance, and health-related research. Medical practitioners are advised to read this guide in full and bookmark it for future reference. The *Causes of Death Certification Australia*; quick reference guide can be found under the Publications tab or here. It is designed to be printed out and kept with the Medical Certificates of Cause of Death for convenience.

The first section of this booklet details your responsibilities in completing the Medical Certificate of Cause of Death, what happens to this information, and how the data generated is disseminated and used.

The second section of the booklet provides information on common areas where non-specific or insufficient information is often provided when completing the death certificate and determining the underlying cause of death. It also provides examples to assist medical practitioners to provide the required detail in these areas, and information on how to complete the Perinatal Medical Certificate of Cause of Death.

Note: This booklet is not intended as a guide to the legal requirements of death certification, notification of death or of cases that require reporting to the coroner. These requirements differ between jurisdictions. For advice on your legal obligations please contact your State or Territory Coroner's Office. See page 5 for contact details.

If you have any questions or would like further information please contact the Australian Bureau of Statistics (ABS):

Phone Toll Free: 1800 620 963

Mail: AUSTRALIAN BUREAU OF STATISTICS
HEALTH & VITALS STATISTICS SECTION
CAUSES OF DEATH
GPO BOX 9817
BRISBANE OLD 4001

Note: For replacement Medical Certificates of Cause of Death, please contact your State or Territory Registrar of Births, Deaths and Marriages. Contact details are below.

State registry contacts

As a Medical practitioner you are required to lodge Medical Certificates of Cause of Death and Medical Certificates of Cause of Perinatal Death with your State or Territory Registrar of Births, Deaths and Marriages.

NSW	Registry of Birth, Deaths & Marriages	Ph. 1300 655 236
Vic	Registry of Births, Deaths & Marriages	Ph. 1300 369 367
Qld	Registry of Births, Deaths & Marriages	Ph. 1300 653 187 or
	0	7 3234 0870
SA	Births, Death and Marriages	Ph. 131 882
	(4 the	en 3 on auto-menu)
WA	Registry of Births, Deaths & Marriages	Ph. 1300 305 021
Tas	Registry of Births, Deaths & Marriages	Ph. 1300 135 513 or
		03 6233 3793
NT	Registrar General's Office	Ph. 08 8999 6119
ACT	Registrar General's Office	Ph. 02 6207 3000

How is the information on the Medical Certificate of Cause of Death used?

After registration of the death the Registrar General passes the information from the death certificates to the ABS, where staff in the Health & Vital Statistics Section code the causes of death according to the World Health Organisation's (WHO) International Statistical Classification of Diseases and Related Health Problems - 10th Revision (ICD-10). The statistical data produced by the ABS is used by government bodies, researchers, clinicians, educational institutions and many other organisations invested in public health. The ABS publishes summary data in *Causes of Death, Australia* (3303.0). Customised data requests are also available upon request from the ABS.

What is coded?

The ABS codes every condition stated on the death certificate. In a large proportion of deaths, a sequence of morbid events will have led to death. From the standpoint of prevention, the objective is to break the sequence as early as possible; hence information on every condition is valued. This is a practice known as multiple cause coding, and is considered best practice by the World Health Organisation.

Your role

The quality of causes of death statistics depends on the quality of the information you, as the certifier of a death, provide on the death certificate. If you were in attendance

during the deceased's last illness, it is your role to certify death according to *YOUR BEST MEDICAL OPINION* as to the sequence of events leading to death. Death certification should preferably be carried out by a consultant or other senior clinician. Delegation of this duty to a junior doctor or medical student should only occur under supervision. Your role in certifying deaths well assists in improving the quality of Australian cause of death statistics.

Should the death be referred to the coroner?

All deaths due to violence or unnatural causes, as well as those that are otherwise sudden, suspicious or unexpected should be referred to the Coroner, even if the death is remote from the actual event – for example death from a hypoxic brain injury following an attempted suicide. Surgery-related deaths are to be reported to a coroner, with some exceptions in QLD and NSW. If you are in any doubt as to whether a death should be reported to the coroner, please contact the Coroner's Office in your State or Territory for further advice. See Figure 1 below for an overview of the Australian Cause of Death Statistics System.

Coroners' Offices

New South Wales: (02) 8584 7777

Victoria: 1300 309 519 Queensland: (07) 3239 6193 South Australia: (08) 8204 2444

Western Australia: (08) 9425 2900 OR 1800 671 994.

(Note that the Western Australian handbook for medical practitioners and students can be found here)

Tasmania: (03) 616 57132 or Southern Tasmania: (03) 616 57127 Northern Tasmania: (03) 677 72920 Northern Territory: (08) 8999 7770

Australian Cause of Death Statistics System

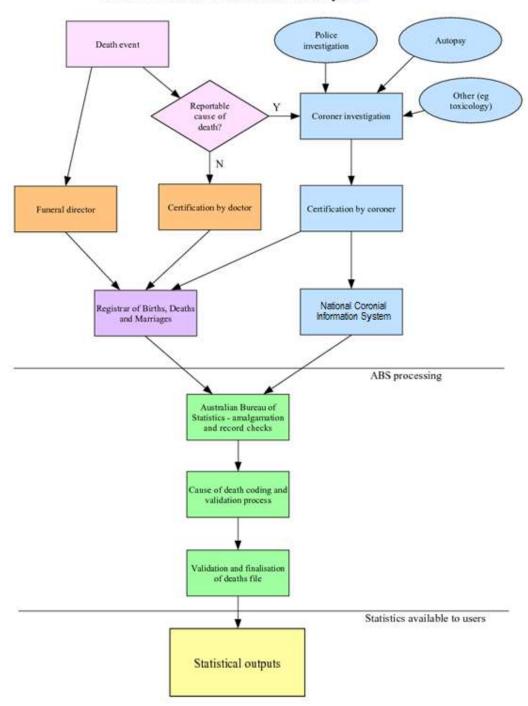


Figure 1. Australian Cause of Death Statistics System

Legibility

Handwritten details can be difficult to distinguish and may lead to misinterpretation and error. Please avoid abbreviations and *PRINT CLEARLY in BLOCK LETTERS*.

The following are examples of terms that are often difficult to distinguish:

cardio/cerebro empyema/emphysema infection/infarction

congenital/congestive silicosis/scoliosis

hypotension/hypertension

coronary/cerebral valvular/vascular

Completing a Medical Certificate of Cause of Death

Note. If completing a perinatal certificate, please see <u>Medical Certificate of Cause of Perinatal Death</u>, page 17.

The Medical Certificate of Cause of Death (MCCD) is recommended by the World Health Organisation for international use. This general format is used by all Australian states and territories although a fifth line (e) is included in all states except Victoria.

MEDICAL CERTIFICATE OF CAUSES OF DEATH		Approximate interval between
PART 1		onset and death
Disease or Condition directly leading to death*	(a)due to (or as a consequence of)	
Antecedent causes Morbid conditions, if any, giving rise to the above cause,	(b)	***************************************
stating the underlying condition last	(C)	***********
PART II Other significant conditions contributing to the death, but	(d)	
not related to the disease or condition causing it.		
"This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fai asthenia" etc	lure,	

Part 1, Line (a), Disease or condition directly leading to death

Enter on line I(a) the direct cause of death ie. the disease or complication which led directly to death. There must always be an entry on line I(a). This condition may be the only condition reported in Part I of the certificate only if it was not due to, or did not arise as a consequence of, any disease or injury that occurred before the direct cause of death.

If conditions such as cardiac arrest, respiratory failure, chronic renal failure etc. are entered on line I(a), always enter the underlying cause(s) on I(b), I(c) etc. to indicate the sequence of events leading to death. Always use consecutive lines, never leave blank lines in the sequence.

Part 1, Lines (b), (c) and (d), Antecedent causes

If the direct cause of death on line I(a) was due to, or arose as a consequence of, another disease, this disease should be entered on line I(b). If the condition entered on line I(b) was itself was due to another condition or disease, this other condition should be reported on line I(c). Similarly, a condition antecedent to that reported on line I(c) should be reported on line I(d). Enter any additional antecedent conditions in Part I(e).

A condition should be regarded as being antecedent not only in an aetiological or pathological sense, but also where it is believed that this condition prepared the way for the direct cause by damage of tissues or impairment of function, even after a long interval. For example, a hypoxic brain injury which occurred many months ago can be a contributory factor to the death event.

Occasionally two independent diseases may be thought to have contributed equally to the fatal issue, and in such unusual circumstances they may be entered on the same line. See example 1 below.

Example 1

MEDICAL CERTIFICATE OF CAUSES OF DEATH		Approximate interval between	
PART 1	CANCER OF COLON	onset and death	
Disease or Condition directly leading to death*	(a)LIVER CIRRHOSIS	1 MONTH	
Antecedent causes Morbid conditions, if any, giving rise to the above cause,	(b)ALCOHOLISM, HEPATITIS C	.10 YRS, 20 YRS.	
stating the underlying condition last	(c)TRANSFUSION	20 YEARS	
PART II Other significant conditions contributing to the death, but	(d)		
not related to the disease or condition causing it.			
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fair asthenia" etc.	lure,		

Part II, Other significant conditions

After completing Part I, the certifier must consider whether there were any other significant conditions which, though not included in the sequence in Part I, contributed to the fatal outcome. If so, these conditions should be entered in Part II.

For example:

Part I

(a) Renal failure 1 year; (b) Nephrotic syndrome 3 years; (c) Non Insulin Dependent Diabetes mellitus 20 years;

Part II

Ischaemic foot 6 months

Duration between onset and death

The duration between the onset of each condition entered on the certificate and the date of death should be entered in the column provided. Where the time or date of onset is not known, the best estimate should be made. The unit of time should be entered in each case. A specific duration must be selected during coding so to facilitate better quality data, your estimate is better than ours. For example, stating 2—4 weeks requires coders to select a date, whereas you could choose a most likely date.

In a correctly completed certificate, the order of causes will be chronological. That is, the duration entered for I(a) will never exceed the duration entered for the condition on line I(b) or I(c) or I(d); nor will the duration for I(b) exceed that for I(c) or I(d).

How much detail is required?

The following section highlights groups of diseases and conditions for which the required detail is often lacking. As well as the information provided below for specific causes of death, a detailed list of non-specific medical terms, explaining the required detail, can be found on page [10.]

Neoplasms

Neoplasms frequently occur on MCCDs and require due attention to detail. Neoplasms are classified according to behaviour and site. Hence the terms 'neoplasm', 'growth' and 'tumour' should not be used without qualification as to whether malignant or benign, and the primary site should always be indicated.. If a secondary growth is included in the sequence of events leading to death, record the site of the secondary growth above the primary growth. If the primary site is unknown, this must be stated on the certificate. (See here for more information). If using the term 'metastatic' to describe a neoplasm, take care to avoid ambiguity; metastatic 'to' or 'from' are useful qualifiers, particularly when common sites of metastasis are involved. (See example 2) If known, the histology of the neoplasm should also be stated, as it can provide guidance as to the appropriate site classification. For neoplasms of bone, where the histology is unknown, the kind of tissue of origin (ie. marrow, osseous tissue) should be indicated. In the following table is a list of sites and the specificity required for coding neoplasms as underlying cause of death. This list highlights those neoplasms that cause the most classification problems and is not exhaustive. Certifiers should be as specific as possible when certifying the site of any neoplasm, not just those sites listed below.

Example 2. A female aged 54 years was admitted to hospital for palliative care due to secondary adenocarcinoma of the liver. The secondary growth occurred due to the primary adenocarcinoma of the breast and, even though the primary was removed and has not recurred, it will be selected as the underlying cause of death.

Example 2

MEDICAL CERTIFIC	CATE OF CAUSES OF DEATH	Approximate
PART 1	CANCER OF COLON	interval between onset and death
Disease or Condition directly leading to death*	(a)LIVER METASTASIS	1 YEAR
Antecedent causes Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last	(b)MASTECTOMY due to (or as a consequence of) (c)BREAST CANCER due to (or as a consequence of)	1 MONTH
PART II Other significant conditions contributing to the death, but	(d)	
not related to the disease or condition causing it.	ISCHAEMIC HEART DISEASE	10 YEARS
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart far asthenia" etc	ilure,	

The precise site of the primary neoplasm should always be indicated. See the examples in the following list.

It is most useful if certifiers can identify the malignancy, morphology, exact site and behaviour of all neoplasms.

Tumour/Growth - Identify site and as benign, malignant primary, malignant, secondary or unknown behaviour.

Neoplasm - Identify the morphology, malignancy, site and behaviour.

Metastatic - Identify whether metastatic TO (Secondary) or metastatic FROM

(Primary)

Secondary - Identify primary site or document Primary as Unknown

If the site of any primary neoplasm is unknown, "primary unknown" must be documented on the certificate.

The principles of site specificity and primary unknown apply to all malignant neoplasms, not just those listed in the following table. The primary neoplasm sites listed below require one of the subset qualifying terms, to provide necessary detail for identification of the underlying cause of death.

Site of primary neoplasm table.

Site of Primary Neoplasm Please be more specific if you are able.

(eg. Primary carcinoma of inner aspect lower lip)

Lip lower upper commissure skin of lip overlapping unknown	Mouth cheek (mucosa) vestibule retro molar overlapping unknown	Pharynx nasopharynx hypopharynx oropharynx tonsil pyriform sinus overlapping unknown		Oral tongue salivary gland palate gum overlapping unknown		na (by site) ecified type (by site) 1
Liver sarcoma angiosarcoma hepatoblastoma hepatocellular intrahepatic duct unknown	unknown	Uterus cervix u corpus n ligamen overlap unknow	uteri t ping	Endocrine Gland parathyroid pituitary craniopharyngeal pineal aortic body pluriglandular unknown	88	Adrenal Gland medulla cortex unknown
Respiratory nasal cavity middle ear accessory sinus mediastinum trachea thymus bronchus larynx overlapping unknown		c" lobe c" ventricle em nerve ord equina ping	F emale ovary adnexa placenta uterine li broad lig round lig paramet fallopian overlapp unknown	igament jament jament rium tube jing	Urinary kidney ureter bladder urethra parauret overlapp unknowr	hral gland ing

If the required detail is unknown, please document this on the Medical Certificate of Cause of Death

Medical Certification of Cause of Death should, at all times, be your BEST MEDICAL OPINION

Procedures

ICD-10 codes Y40-Y59 in chapter 20 capture adverse effects of drugs, medicaments and biological substances. (See here for more information). When medications appear on certificates – for example, 'atrial fibrillation: on warfarin' – it can be unclear as to whether the medication actually contributed to the death. Please only include those medications that resulted in adverse effects contributing to death, such as a gastric haemorrhage in a patient on anticoagulants. Similarly, procedures (Y60-Y89) are only to be included if they took place within a month of the death, or if they led to a complication.

In most jurisdictions, death during or following an operation must be reported to the coroner for investigation. Check your state or territory's Coroners Act for exact requirements. See also: Should the Death be Referred to the coroner?, page 5. When entering a post-operative complication, or a complication of a medical procedure, always include the condition for which the operation was performed and when the operation was performed.

Example 3. A male aged 54 years was admitted to hospital for surgery to remove the colon due to carcinoma of the sigmoid colon. The patient developed a postoperative deep vein thrombosis. A pulmonary embolism later developed and the patient died shortly after. As the carcinoma of the sigmoid colon was the condition necessitating the surgery, this will be selected as the underlying cause of death.

Example 3

0	CAUSE OF DEATH	Approximate interval between onset and death
I		
Disease or condition directly leading to death*	(i) PULMONARY EMBOLISM	1 HOUR
Antece de nt causes	②COLECTOMY DUE TO CANCER OF COLON	3 DAYS
Morbid conditions, if any, giving rise to the above cause, stating the underlying condition	due to (or as a consequence of)	
1ast	(c) PRIMARY CARCINOMA OF SIGMOID COLON.	18 MONTHS
101	due to (or as a consequence of)	
п		
Other significant conditions contributing to the death, but not related to the disease or condition causing it		
	.ISCHAEMIC HEART DISEASE	10 YEARS
*This means the disease, injury or		
complication which caused death NOT		
ONLY, for example, the mode of dying, such		
as "heart fa ilure, asthenia", etc.		

Pulmonary Embolism

Pulmonary embolism is sometimes recorded on death certificates alone in part 1(a). It is rare for pulmonary embolism to occur spontaneously in anyone below 75 years of age, and there is a large variety of underlying causes of this condition. Where pulmonary embolism is the direct cause or mode of death it should be entered as such in part 1(a) of the death certificate, with its underlying cause(s) sequenced in the 'due to' relationship on the line(s) below it. (See example 3, above).

Pneumonia and bronchopneumonia

When death is due to pneumonia or bronchopneumonia, please identify if the condition is primary, hypostatic or due to aspiration. State the cause of any underlying condition that led to the pneumonia and identify the causative organism. **Example 4.** A male aged 64 years was admitted to hospital with an arteriosclerotic cerebral infarction. He was transferred to rehabilitation, where he developed hypostatic pneumonia. In ICU, sputum cultured Klebsiella pneumoniae and the patient died shortly after. As the arteriosclerosis was the condition beginning the sequence of morbid events, this will be selected as the underlying cause of death.

Example 4

MEDICAL CERTIFICATE OF CAUSES OF DEATH		Approximate
PART 1	CAUSE OF DEATH	interval between onset and death
Disease or Condition directly leading to death*	(a)PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE due to (or as a consequence of)	1 WEEK
Antecedent causes Morbid conditions, if any, giving rise to the above cause,	(b)CEREBRAL INFARCTION with HEMIPLEGIA due to (or as a consequence of)	2 MONTHS
stating the underlying condition last	(ç)PAROXYSMAL ATRIAL FIBRILLATION due to (or as a consequence of)	5 YEARS
PART II Other significant conditions contributing to the death, but	(d)	MANY YEARS
not related to the disease or condition causing it.	ISCHAEMIC HEART DISEASE	10 YEARS
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fa asthenia" etc	TOBACCO USE	20 YEARS

Renal Failure

Where renal failure is entered on to the Medical Certificate of Cause of Death, please identify if the renal failure was acute or chronic, and if acute, the site of necrosis (tubular, cortical or medullary); if chronic, at which stage between one and five.

Smoking, Alcohol and Drugs

If the use of alcohol, tobacco or any other drug contributed to the death, this should be reported on the certificate. Also indicate if the deceased was addicted to any substance (see example 5).

Infectious and parasitic diseases

Certifiers should identify whether a primary infection was bacterial or viral, Where possible, give the name of the causative agent, if the disease name does not imply this, and the site of the infection. Where the causative organism is unknown, document this on the death certificate as *organism unknown*.

Example 5. Here alcohol addiction contributed to the death, but is not related to the coronary occlusion and is documented in Part II of the certificate.

Example 5

MEDICAL CERTIFICATE OF CAUSES OF DEATH		Approximate
PART 1	CANCER OF COLON	interval between onset and death
Disease or Condition directly leading to death*	(a)CORONARY OCCLUSIONdue to (or as a consequence of)	MINUTE
Antecedent causes Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last	(b)CORONARY ATHEROSCLEROSIS due to (or as a consequence of) (c)due to (or as a consequence of)	5 YEARS
PART II Other significant conditions contributing to the death, but not related to the disease or	(d)	20 YEARS
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fa asthenia" etc	ALCOHOL ADDICTION	10 YEARS

Sepsis and septicaemia

Certifiers should document the site of the original infection and the causative organism on the death certificate where septicaemia is the direct cause of death. See **Example 6**; here the site of the original infection and the causative organism have been clearly identified. This allows for the organism to be coded as well as the site of the infection.

Example 6

MEDICAL CERTIFICATE OF CAUSES OF DEATH		Approximate
PART 1	CANCER OF COLON	interval between onset and death
Disease or Condition directly leading to death*	(a)STAPHYLOCOCCAL SEPTIC SHOCKdue to (or as a consequence of)	1 DAY
Antecedent causes Morbid conditions, if any, giving rise to the above cause,	(b). METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS MENINGITIS due to (or as a consequence of)	4 WEEKS
stating the underlying condition last	(¿)RENAL TRANSPLANT	6 YEARS
PART II Other significant conditions	(d)	
contributing to the death, but not related to the disease or condition causing it.		
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fai	lure,	

Place of occurrence

ICD-10 coding requires a place of occurrence code for external causes of death. The ABS needs the certifier to indicate on the form the place where the injury which led to death occurred e.g. at home, on a farm, industrial building, on highway etc.

Accidental deaths

In most instances accidental deaths must by law be referred to the coroner. When a medical practitioner has occasion to issue a Medical Certificate of Cause of Death relating to an accidental death, such as an accidental fall, the circumstances of the fall should be stated, for example "accidental fall on stairs at home", or "fall from bed in nursing home". (See here for more information on the classification of falls). Please include all injuries sustained e.g. fracture of skull with cerebral haemorrhage, These are preferable to broad terms such as multiple injuries.

Deaths from complications of fractured neck of femur in the elderly

Depending on differing legal requirements between the states and territories, notification of these deaths to the coroner may be unnecessary when the injury occurs as the result of a fall at home in the following circumstances:

- If the fracture has occurred due to fragility of the bone caused by osteoporosis.
- When the fall is contributed to by the general condition of the patient, (e.g. because of loss of agility, slow reflexes, poor balance and deteriorated vision).

The fall and consequent injury may therefore be considered as a feature of the patient's general frailty. Each case should be carefully considered and the coroner notified or consulted in cases of doubt. If a death is due to late effects of a previous injury, please state the circumstances of the previous injury e.g. bronchopneumonia due to paraplegia due to motor vehicle accident - 3 years ago.

Example 7. Female aged 80 years fell on stairs at home and sustained a fracture of the neck of the left femur. She had an operation for insertion of a pin the following day. Four weeks later her condition deteriorated and she developed hypostatic pneumonia. She died two days later.

Example 7

MEDICAL CERTIFIC	Approximate interval between		
PART 1	CANCER OF COLON		
Disease or Condition directly leading to death*	(a)TERMINAL HYPOSTATIC PNEUMONIAdue to (or as a consequence of)	2 DAYS	
Antecedent causes Morbid conditions, if any, giving rise to the above cause,	$(b) {\bf FRACTURED\ NECK\ OF\ FEMUR\ (PINNED)}$ due to (or as a consequence of)	4 WEEKS	
stating the underlying condition last	(\wp)STUMBLED WHILE VACUUMING AT HOME due to (or as a consequence of)	4 WEEKS	
PART II Other significant conditions contributing to the death, but	(d)GENERAL FRAILTY	3 YEARS	
not related to the disease or condition causing it.			
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fai asthenia" etc	lure,		

Where the underlying cause of death is due to external causes, information regarding the circumstances is required. Please state whether the injury was due to an accident, deliberately self-inflicted or due to assault with bodily force/blunt object/etc; and the place of occurrence (e.g. 'at home', 'in a hospital', etc.).

Pregnancy

If the deceased was pregnant or died within 42 days post-partum this should also be included on the death certificate, even if the pregnancy was unrelated to the cause of death. See Example 8. 60-70% of deaths during pregnancy are certifiable by a coroner; therefore careful consideration should be given to referral.

Example 8

MEDICAL CERTIFIC	CATE OF CAUSES OF DEATH	Approximate interval between
PART 1	CANCER OF COLON	onset and death
Disease or Condition directly leading to death*	(a)HEMIPLEGIA due to (or as a consequence of)	2 DAYS
Antecedent causes Morbid conditions, if any, giving rise to the above cause.	(b)CEREBRAL EMBOLISM	2 DAYS
stating the underlying condition last	(c) MITRAL STENOSIS due to (or as a consequence of)	14 YEARS
PART II Other significant conditions contributing to the death, but	(d)RHEUMATIC FEVER (INACTIVE)	
not related to the disease or condition causing it.	PREGNANCY	4 MONTHS
*This means the disease, injury or complication which caused the death NOT ONLY for example, the mode of dying, such as "heart fa asthenia" etc	illure,	

Medical Certificate of Cause of Perinatal Death

In all states and territories, it is a legal requirement that the Medical Certificate of Cause of Perinatal Death be completed for a child not born alive, but of at least 20 weeks gestation or 400 grams weight, or a live- born child who dies within 28 days of birth.

A copy of the form recommended by the World Health Organisation (WHO) is shown on page 18. The form seeks information on maternal obstetric history, with a view to identifying those conditions that require the greatest clinical monitoring to avoid the occurrence of perinatal deaths. Here the "sequence" system of reporting as used in the general medical certificate is not used for the perinatal death certificate, except minimally in Victoria and Western Australia. A link to the Victorian perinatal certificate can be found here. The Western Australian certificate can be found here.

The Medical Certificate of Cause of Perinatal Death provides five sections for the entry of causes of perinatal deaths, labelled (a) to (e). In sections (a) and (b) enter the diseases or conditions of the infant or fetus. The single most important or main condition in the child should be entered in section (a) and the remainder, if any, in section (b). "The most important or main condition" is the pathological condition which, in the opinion of the certifier, made the greatest contribution to the death of the infant or fetus. The mode of death, e.g. heart failure, asphyxia, anoxia, should not be entered in section (a) unless it was the only fetal or infant condition known. This also holds true for prematurity.

In sections (c) and (d), the certifier should enter all diseases or conditions in the mother that, in their opinion, contributed to the death of the infant or fetus. The most important one of these should be entered in section (c) and the others, if any, in section (d). Section (e) is provided for the reporting of any other circumstances that the certifier considers to have a bearing on the death, but which cannot be described as a disease or condition of the infant or the mother. An example of this might be delivery in the absence of an attendant.

Example 1: the mother whose previous pregnancies had ended in spontaneous abortions at 12 and 18 weeks was admitted when 24 weeks pregnant, in premature labour. There was spontaneous delivery of a 700 gram infant who was treated in an intensive care nursery but died during the first day of life. Chest x-ray had shown dense lung fields consistent with severe hyaline membrane disease.

a) Main disease or condition in fetus or infant	HYALINE MEMBRANE DISEASE (RESPIRATORY DISTRESS SYNDROMI	
b) Other disease or condition in fetus or infant	EXTREME IMMATURITY	
c) Main maternal disease or condition affecting fetus or infant	PREMATURE LABOUR	
(d) Main maternal disease or condition affecting fetus or infant	PREVIOUS SPONTANEOUS ABORTIONS	

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Diabetes mellitus

Where diabetes is documented on the Medical Certificate of Cause of Perinatal Death, please state whether the diabetes is a pre-existing condition or gestational diabetes. If pre-existing, please indicate if it is IDDM or NIDDM.

Example 2: A known diabetic was controlled during her first pregnancy with difficulty. She developed megaloblastic anaemia at 32 weeks. Labour was induced at 38 weeks. There was spontaneous delivery of an infant weighing 3200g. The baby developed hypoglycaemia, and had a loud murmur present with a large heart noted on chest x-ray. Echocardiography showed the presence of a truncus arteriosus. The baby died on the second day of life.

CAUSES OF DEATH			
(a) Main disease or condition in fetus or infant	TRUNCUS ARTERIOSUS		
(b) Other disease or condition in fetus or infant	HYPOGLYCEAEMIA		
(c) Main maternal disease or condition affecting fetus or infant	DIABETES MELLITUS - IDDM		
(d) Main maternal disease or condition affecting fetus or infant	MEGOLABLASTIC ANAEMIA		

Conditions in the mother affecting the fetus or infant.

The main condition in the mother that has affected the fetus or infant should be entered on line © of the Medical Certificate of Cause of Perinatal Death, and other conditions affecting the fetus or infant on line (d). Any condition in the mother that is relevant to the circumstances of the delivery or death of the fetus or infant should be entered on line (e).

Example 3. The patient was a 30 year old woman with a healthy four year old boy. She had a normal second pregnancy apart from hydramnios. Ultrasound examination of the fetus at 36 weeks noted the presence of anencephaly. Labour was induced. A stillborn anencephalic fetus weighing 1500g was delivered.

As there was no condition of the mother affecting the development of the fetus, lines (c) and (d) remain blank.

CAUSES OF DEATH			
(a) Main disease or condition in fetus or infant	ANENCEPHALY		
(b) Other disease or condition in fetus or infant	*		
(c) Main maternal disease or condition affecting fetus or infant			
(d) Main maternal disease or condition affecting fetus or infant	120 120		
(e) Other relevant circumstances	HYDRAMNIOS		

Example 4: A primigravida aged 26 years with a history of regular menstrual cycles received routine antenatal care starting at the 10th week of pregnancy. At 27 weeks,

fetal growth retardation was noted clinically, and confirmed at 30 weeks. There was no evident cause apart from symptomless bacteriuria. A caesarean section was performed and a liveborn boy weighing 800g was delivered. The placenta weighed 300g and was described as infarcted. Respiratory distress syndrome developed, which was responding to treatment. The baby deteriorated suddenly on the third day, becoming pale and lethargic. A cranial ultrasound revealed extensive Grade IV intraventricular haemorrhage. The child died on the same day.

Placental insufficiency is the main condition that affected the fetus and infant and is entered on line ©. Bacteriuria and the caesarean section are both entered on line (d), as other maternal conditions that affected the fetus and infant.

a) Main disease or condition in fetus or infant	INTRAVENTRICULAR HAEMORRHAGE
b) Other disease or condition in fetus or infant	RESPIRATORY DISTRESS SYNDROME RETARDED FETAL GROWTH
(c) Main maternal disease or condition affecting fetus or infant	PLACENTAL INSUFFICIENCY
(d) Main maternal disease or condition affecting fetus or infant	BACTERIURIA IN PREGNANCY CAESAREAN SECTION

In certifying causes of perinatal deaths, please take note of the following points:

Congenital malformations

Please specify the organ and part of organ involved, unless this is obvious from the name of the malformation. Avoid the use of eponyms wherever possible.

Birth injuries

Please state the organ involved, type of injury (e.g. haemorrhage, tear), under "conditions in fetus or infant", and the cause of the injury (e.g. abnormality of pelvis, malposition of fetus, abnormal forces of labour), under "maternal diseases or conditions".

Prematurity

If possible, please state the complication directly causing death e.g. pulmonary immaturity.

Conditions in the mother

Please indicate whether any disease or condition present in the mother was related to the pregnancy. For example, conditions such as hypertension and pyelonephritis should be qualified as to whether they arose during pregnancy, or were present before pregnancy.

Summary

Your certification of deaths is integral to the quality of mortality statistics in Australia and the resulting reliability of these statistics in informing health policy and research. The greater detail you can supply regarding the causes of death when completing the Medical Certificate of Causes of Death, the more likely the cause of death will be accurately recorded and compiled in Australian statistics. Please see the Quick Reference Guide for a summary of this information.

Appendix - List of terms

APPENDIX 1 LIST OF TERMS

Term Additional information required

Abscess Site

Cause and Organism

Abuse (substance) Type (e.g. alcohol, heroin, tobacco)

Use: (e.g. addict, occasional user)

Acquired Immunodeficiency Please include any complications or manifestations of the disease (e.g. Kapost's

Syndrome (AIDS) Sarcoma).

Adhesions If following an operation, the underlying condition for which surgery was performed and

length of time since surgery. (See, Operations, page 22)

Agranulocytosis Cause: If due to drug therapy, specify condition for which drug given.

Airways disease (chronic) Nature of disease (eg. obstructive)

Anaemia Primary (specify type)

Secondary (specify underlying cause)

Aneurysm Site (eg. cerebral, aortic)

Cause (eg. arteriosclerotic) Ruptured or dissecting

Antepartum haemorrhage Cause (eg.coagulation defects, placenta praevia)

Anoxia (fetal) If occurred before or during labour

Appendicitis Whether acute or chronic

With peritoritis or abscess

Arteriosclerosis, Atheroma or If associated with hypertension, specify type (eg. benign, malignant)

Atherosclerosis Americ

Arteries involved (eg. coronary, cerebral)

If resulting in dementia, please include.

Arteritis Arteries Involved (eg. coronary, cerebral)

Cause (eg. arteriosclerotic, syphilitic)

Arthritis Type (rheumatotd, juventle, osteo)

Cause (eg. traumatic) Site (e.g. hip, knee)

Asbestosis Source of exposure

Period since exposure

Manifestations (e.g. Mesothelioma)

Asphyxia (fetal) If occurred before or during labour

Aspiration of vomitus Cause (eg. previous CVA, acute alcoholic toxicity, drug overdose, chronic alcohol abuse,

or circumstances of drug use te. addict, occasional user)

Asthma Allergic or late onset

with Emphysema or Chronic Obstructive Airways Disease

Atelectasis Underlying disease causing this condition (e.g. acquired or as a result of a congenital

dtsorder)

Birth Injury Ste

Type of injury

Cause (e.g. obstructed labour)

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28 ABS + CAUSE OF DEATH CERTIFICATION + 1205.0.55.001 + 2008

Bronchitis Type: acute or chronic

With: asthma, emphysema or Chronic Obstructive Airways Disease

Bronchopneumonia Primary, hypostatic or asptration

Causative agent and underlying cause if any contributing disease or condition

(See Pneumonia and Bronchopneumonia, page 21)

Burns Site Percentage and degree of burns

Cause of burns (e.g. hot water, house fire)

Cachexia See Malnutrition

Calculus Site and if with obstruction, infection or inflammation (e.g Cholecystitis with

Choleltthatsts)

Cancer, carcinoma (See Neoplasms, pages 14 - 17)

Cardiac/cardiorespiratory Underlying disease causing this condition (e.g. Coronary Artery Disease, Chronic

arrest Obstructive Airways Disease)

Cardiac failure, dilation, Underlying disease causing this condition (e.g. Coronary Artery Disease)

hypertrophy Site (e.g. left, right, congestive)

Cardiovascular disease Specific disease condition (eg. hypertensive, atherosclerotic)

Carditis Ste: myocardtum, endocardtum, pertcardtum

Type:rheumatic, meningococcal or viral

Cerebral effusion Underlying disease causing this condition (e.g. haemorrhage)

Cerebral sclerosis Atherosclerosts or disseminated sclerosts

Cerebrovascular disease Nature of disease (eg. atherosclerosis causing infarction, haemorrhage, occlusion -

thrombotic/embolic)

Site

CVA Cause: Infarction, haemorrhage, thrombotic/embolic

Site

Chorea Type: rheumatic (with or without heart involvement), Huntington's, gravidarum

Cirrhosis of liver Cause (eg. alcoholic)

Cor pulmonale Underlying cause, and whether acute or chronic

Coryza Complication leading to death

Curvature of spine Type: acquired (eg. tuberculous) or congenital

With: heart disease and/or hypertension

Cytomegalic inclusion disease If due to AIDS or other HIV illness

Debility This condition is considered a trivial and non-specific condition. Please provide details

of any other disease(s) for which the patient was being treated (e.g. Coronary Artery Disease, Chronic Obstructive Airways Disease, history of cancer of ascending colon)

Deep venous thrombosis If following an operation, condition for which operation performed

If due to tractivity, the condition causing the inactivity

Dementia Cause (eg. sentle, alcoholic, atherosclerotic, Alzheimer's or multi-infarct)

Dermatitis Type

Cause (eg. drug Induced and state condition necessitating drug therapy)

Diabetes mellitus Type: Insulin dependant or non-insulin dependant diabetes

With: complication(s) (eg. nephropathy, pertpheral vascular disease)

Diarrhoea Underlying cause (if unknown state whether it is believed to be infectious or not)

Dysentery Type: amoebic (and, if so, whether acute or chronic), bacterial or other protozoal

Embolism Stro

If following an operation; condition for which surgery performed.

If due to Inactivity: underlying condition causing the inactivity.

Encephalitis Type: acute viral, late effect of viral, postvaccinal, idiopathic, meningococcal,

suppurative, tuberculous

Endocarditis Acute or chronic

Site: mitral valve, aortic valve, pulmonary, tricuspid valve Cause: rheumatic, bacterial (including type of organism)

Failure, Renal Acute or chronic

Cause: analgestc, diabetes, (see Renal Fatlure, page 23-24)

With: hypertension, heart disease

Falls Please provide more detail about from where (e.g. from bed, down stairs, in bathtub)

Place fall occurred (e.g. home, nursing home, shopping centre)

Fatty degeneration Ste eg. of heart or liver

Fractures Site (e.g. fractured neck of femur)

Pathological (e.g. osteoporotic, neoplastic) or traumatic (if due to trauma, state

circumstances of trauma, e.g. fall from bed in nursing home)

Frailty This condition is considered a trivial and non-specific condition. Please provide details

of any other disease(s) for which the patient was being treated (e.g. Coronary Artery Disease, Chronic Obstructive Airways Disease, history of cancer of ascending colon)

Gangrene Site

Type: atheroscierotic, diabetic, due to gas bacillus etc.

Gastro-enteritis Cause: Infectious (type of organism) or non-infectious

Fastroesophageal/Gastric Ulcer See Peptic Ulcer

Goitre Type: simple, toxic, diffuse, uninodular, multinodular

Haematemesis Cause: gastric ulcer, adverse effects of medications etc.

Haematoma Site

Cause: If due to trauma, state circumstances of trauma; If due to surgery state type of

surgery and reason for surgery.

Haemorrhage Sto

Cause: If due to trauma, state circumstances of trauma; If due to surgery state type of

surgery and reason for surgery.

Hemiplegia Cause and duration (eg. spinal cord injury from MVA - 20 years previously)

Hepatitis Type: acute or chronic, alcoholic, of newborn, of pregnancy, childbirth or puerperium,

vtral (and tf so, whether Type A, B, C, D, E)

Human Immunodeficiency

Virus (HIV)

Please include any complications or manifestations of the disease (e.g. Kaposis Sarcoma).

Hydrocephalus Congenital or acquired, and if so, the underlying cause

Hypertension With: heart Involvement, cerebrovascular Involvement, renal involvement,

pregnancy

If secondary, specify underlying cause

Immaturity Cause (e.g. condition in mother, congenital disorder)

Complication leading to death

Infarction - cerebral If due to occlusion, stenosis, embolism/thrombosis

Infarction - myocardial Ste

Acute, healed or old

Cause: (e.g. Coronary Artery Disease, following trauma, following surgery)

Influenza With: pneumonia, other manifestation (specify)

Injury Site and type of injury

Circumstances surrounding the injury(s) and if due to accident, suicide, homicide

(See, Place of Occurrence and Accidental Deaths, page 25)

Intestinal infection Causative organism

Intestinal obstruction, Cause (e.g. Colon cancer, post-operative)

occlusion If paralytic following operation, state condition for which surgery performed

Kaposi's sarcoma If due to AIDS or other HIV Illness

Leukaemia Acute, sub-acute or chronic

Type: (eg. lymphatic, myeloid, monocytic)

Liver failure; hepatic failure Cause (eg. acute infective, post-immunisation, post-transfusion, toxaemia of pregnancy

or of puerpertum)

Lung disease (chronic) Nature of disease (eg. obstructive)

Lymphadenitis Cause (eg. tuberculous, septic wound)

Lymphoma Type (eg. Hodgkin's disease; Non-Hodgkin's lymphoma, mixed-cell type)

Malignant neoplasm See Neoplasms

Malnutrition Type: congenital, if due to deprivation or disease (specify), protein deficient, (specify

type and degree of severity)

Melaena Underlying cause eg. Primary carcinoma of transverse colon

Meningitis Cause: congenital, meningococcal, tuberculous, haemophilus influenzae, other

organism (specify)

Mental retardation Underlying physical condition (e.g. Down's Syndrome)

Multi-organ failure This condition is considered a non-specific condition. Please provide details of any other

disease(s) for which the patient was being treated (e.g. Coronary Artery Disease, Chronic

Obstructive Airways Disease, history of cancer of ascending colon)

Myocarditis Acute or chronic

Cause (eg. rheumatic fever, atherosclerosts)

Natural Causes Please list the types of conditions that make up the natural causes

Neoplasm Type: benign, malignant with site of primary growth

(See Neoplasms, pages 14 - 17)

Nephritis/Glomerulonephritis Type: acute, sub-acute, chronic, with oedema, infective or toxic (cause)

Nephritis/Glomerulonephritis If associated with: hypertension, arteriosclerosis, heart disease, pregnancy, diabetes

continued mellitus

Obstruction of intestine Cause (e.g. Colon cancer, post-operative)

If paralytic following operation, state condition for which surgery performed

Obstructive airways disease Type: chronic, acute lower respiratory infection, acute exacerbation of asthma,

bronchiectasis, emphysema etc.

Occlusion Site: (e.g. carotid, anterior, posterior, pre-cerebral, coronary)

With: infarction, due to embolism, thrombosis etc.

Oedema of lungs Type: acute, hypostatic, secondary to heart disease, with hypertension

If hypostatic or terminal, specify conditions necessitating inactivity

If chronic and due to external agents (specify cause)

Old age This condition is non-specific and unable to be coded. Please provide details of any other

disease(s) for which the patient was being treated (e.g. Coronary Artery Disease, Chronic

Obstructive Airways Disease, history of cancer of ascending colon).

Paget's disease Of bone, breast, skin (specify site) or malignant

Paralysis, paresis Cause (eg. due to birth injury, syphilis)

Precise form (eg. infantile, agitans)

Paralytic ileus Cause (e.g. Colon cancer, post-operative)

If paralytic following operation, state condition for which surgery performed

Parametritis Cause and Infective organism if known
Pelvic abscess Cause and Infective organism if known

Peptic ulcer Ste: stomach, gastric duodenum, oesophagus

With: haemorrhage, perforation

Pericarditis Type: acute, chronic, bacterial rheumatic

Peripheral vascular disease Cause (eg. atherosclerosts)

Peritonitis Cause and Infective organism if known

Phlebitis Cause and Infective organism if known

Pleural effusion Cause: (e.g. tuberculosis, post-operative)

Pneumoconiosis Whether: sthoosts, anthracosthoosts, asbestosts, associated with tuberculosts, other

(specify)

Pneumocystosis pneumonia If due to AIDS or other HIV Illness

Pneumonia Type of organism

If hypostatic or terminal, specify underlying illness (See Pneumonia and Bronchopneumonia, page 21)

Pneumothorax Cause: (e.g. traumatic, fetal)

Prematurity Cause: (e.g. congenital disorder)

Complication leading to death (hypotension)

If due to inactivity, the condition causing the inactivity

(See Pulmonary Embolism, page 22)

Pulmonary oedema Cause: (e.g. Congestive cardiac failure, Chronic Obstructive Airways Disease)

Renal disease or failure Acute or chronic

> Underlying cause eg. diabetic nephropathy With: hypertension, heart disease, necrosis

(See Renal Fatlure, pages 23 - 24)

Respiratory failure Underlying cause (e.g. Coronary Artery Disease, Chronic Obstructuve Airways Disease)

Respiratory infection Site (upper or lower respiratory tract) and causative organism if known

Rheumatic fever Active or inactive

With: nature of heart disease (e.g. hypertrophy, carditis, endocarditis, mitral valve)

Sclerosis Arterial: coronary, cerebral (specify whether disseminated or atherosclerosis),

disseminated, spinal (lateral, posterior), renal

Scoliosis Acquired (eg. tuberculous, osteoporosis) or congenital

Senility With: dementia, Alzheimer's disease etc.

Septicaemia Underlying illness (e.g. surgery, renal failure due to Type ii Diabetes)

Type of organism

(See Sepsis and Septicaemia, pages 19 - 20)

Septic infection If localised, specify site and organism

> Silicosis If associated with tuberculosis

Smoker Please indicate if there is a history of smoking

Softening of brain Cause: embolic, arteriosicerotic etc.

Spondylitis Whether: ankylosing, deformans, gonococcal, sacro-titac, tuberculous

Stenosis, stricture Site (e.g. spinal, arterial)

If congenital or acquired (specify cause)

Subarachnoid haemorrhage Cause: If due to trauma, state circumstances of trauma; If due to surgery state type of

surgery and reason for surgery.

Substance abuse Type (e.g. alcohol, herotn, tobacco)

Use: (e.g. addict, occasional user)

Sudden Infant Death Syndrome

Please indicate if as a result of co-sleeping

Syphilis Site affected

Type: congenital, early or late, primary, tertiary, secondary

Tetanus If following minor injury (specify)

If following major injury (specify)

Puerperal, obstetric

Thrombosis Artertal (specify artery)

Intracrantal sinus: pyogenic, non-pyogenic, late effect, post-abortive, puerperal, venous

If post-operative or due to confinement in bed, specify condition which necessitated

operation or immobilisation

Underlying disease causing the condition (e.g. pregnancy, specified organism) Toxaemia

If Pregnancy please specify: albuminuria, eclampsia, hyperemesis, hepatitis,

hypertension, pre-eclampsia

Toxoplasmosis If due to AIDS or other HIV Illness

Tuberculosis Primary site

Associated pneumoconiosis if present

Tumours See Neoplasms

Ulcer Site

Perforated or with haemorrhage

Ulcer, leg Nature (eg. peripheral, varicose)

Cause (eg. atherosclerosis, diabetes)

Uraemia Cause

Associated childbirth or pregnancy

Urinary tract infection Primary: specify organism and precise location, eg. ureter or kidney

Secondary: specify underlying disease, eg. diabetes

URTI Complication leading to death

Organism if identified

With: Chronic Obstructuve Airways Disease

Valvular disease Valve(s) affected (e.g. mtral, aortic)

Acute or chronic

If rheumatic: active or inactive
If non-rheumatic: specify cause

Vascular disease Nature (eg. hypertensive, peripheral)

Cause (e.g. atherosclerotic)

Wound(s) Ste

Cause (non-traumatic or traumatic)

Circumstances surrounding wounds (place of occurrence, activity etc.)



QUICK REFERENCE - COMPLETING THE MEDICAL CERTIFICATE OF CAUSE OF DEATH (COD)

Part One of the Certificate:

Example of Completed Medical Certificate of COD

Line Id The cause of Line Ic Id Rheumatic fever (inactive)

Part Two of the Certificate:

Infection

Other significant conditions contributing to death but not related to the disease or condition causing it.

Part II Pregnancy 4 months

Where two independent diseases have contributed equally to the fatal sequence they may be entered on the same line.

Duration between onset and death: Enter the duration of time, between onset of each condition and the date of death.

Note: The shortest duration should be on Line Ia and increase sequentially to the last entry in part one. See example above.

If you have any questions regarding Cause of Death Certification Freecall the ABS on 1800 620 963

QUICK REFERENCE CERTIFICATION GUIDE - GENERAL CONDITIONS AND DISEASES

Please provide the required detail for the conditions and diseases listed below.

Where your best medical opinion does not permit you to document the required detail, please document this detail as UNKNOWN.

Note: This principle applies to ALL conditions and diseases that are documented on the Medical Certificate of Cause of Death, not only those listed below and overleaf. For information on the required detail for other conditions, not listed below, refer to the booklet "Cause of Death Certification Australia" pages x-xx.

Pneumonia Primary, hypostatic or aspiration. Infarction Arteriosclerotic or thrombolytic

Cause of any underlying condition If thrombolytic - see Thrombosis below.

Causative organism.

If due to inactivity/debility - Thrombosis If arterial -specify artery

condition leading to inactivity/debility

If intra cranial sinus - pyogenic non-pyogenic, late effect, post-abortive,

mon-pyogenic, late effect, post-abortive,

Primary or secondary puerperal, venous (specify vein).

Causative organism puerperal, venous (specify vein).

If post-op or due to immobility - condition

If primary - bacterial or viral necessitating surgery or immobility.

printing baseling of primary infection

If secondary - details of primary infection If venous - specify vein

UTI Site within urinary tract Pulmonary Causative organism Pulmonary Embolism If under 75 years of age - underlying cause If postoperative-condition requiring surgery

Underlying cause

If due to inactivity/debility - Cardiac Arrest Underlying cause condition leading to inactivity.

Septicaemia Site of original infection

Renal Failure Acute or chronic and stage from 1 to 5 Underlying cause and organism Underlying cause. e.g. hypertension,

arteriosclerosis, pregnancy or Leukaemia Acute, subacute or chronic

heart disease. Type - lymphoid, myeloid, monocytic or plasmacytic monocytic or plasmacytic

bility – condition leading to monocytic or plasmacytic inactivity/debility.

Alcohol/Drugs Harmful use or addiction

Hepatitis Acute or chronic

Due to alcohol Complication Condition requiring surgery

Of new born
Of Surgery
Of pregnancy, childbirth, puerperium

If viral - type (A,B,C,D OR E)

Dementia Cause (senile, Alzheimer's, multi infarct etc)

Pregnancy Document pregnancy on certificate even if unrelated to COD Accidental Death Circumstances surrounding the death.

Accidental Accidental, suicidal, homicidal or

- If pregnant at time of death or within 42 weeks undermined intent

- If pregnant between 6 weeks and 12 months of Place of occurrence & Activity at time of death

death

Medical Certification of Cause of Death (COD) should, at all times, be your BEST MEDICAL OPINION.

If your best medical opinion does not permit you to document the required detail outlined on this guide, please identify this by documenting the required detail as UNKNOWN.

QUICK REFERENCE CERTIFICATION GUIDE - MALIGNANT NEOPLASMS

Clearly identify the malignancy, morphology, exact site and behaviour of all neoplasms.

Tumor / Growth - Identify site and behaviour i.e. benign, malignant primary, malignant secondary or unknown behaviour.

Neoplasm - Identify the morphology, malignancy, site and behaviour.

Metastatic - Identify whether metastatic **TO** (Secondary) or metastatic **FROM** (Primary).

Secondary - Identify primary site **or** document as primary unknown.

HOW SPECIFIC SHOULD YOUR RECORDING OF NEOPLASM SITE BE?

If the site of any primary neoplasm is unknown, "Primary unknown" MUST be documented on the Medical Certificate of Cause of Death.

The principles of site specificity and primary site identification apply to all malignant neoplasms, not just those listed below. The primary neoplasm sites listed below require one of the subset qualifying terms, to provide necessary detail for identification of the underlying cause of death.

Site of Primary Neoplasm Please be more specific if you are able, eg. Primary carcinoma of inner aspect lower lip.

Lip lower upper commissure skin of lip overlapping unknown	Mouth cheek (mucosa) vestibule retro molar overlapping unknown	Pharynx nasopharynx hypopharynx oropharynx tonsil pyriform sinus overlapping unknown	Oral tongue salivary gland palate gum overlapping unknown other sp	Skin vulva vagina penis scrotum melanoma (by site) pecified type (by site)
Liver sarcoma angiosarcoma hepatoblastoma hepatocellular intrahepatic duct unknown	Intestine large (colon) small colon with rectum unknown	Uterus cervix uteri corpus uteri ligament overlapping unknown	Endocrine Gland parathyroid pituitary craniopharyngeal pineal aortic body pluriglandular unknown	Adrenal Gland medulla cortex unknown
Respiratory nasal cavity middle ear accessory sinuses mediastinum trachea thymus bronchus larynx overlapping unknown	cns meninges brain specific lobe specific ventricle uterine brain stem cranial nerve spinal cord cauda equina overlapping unknown primary secondary	Female Genitalia ovary adnexa placenta ligament urethra broad ligament round ligament parametrium fallopian tube overlapping unknown	Urinary Organs kidney ureter bladder paraurethral gland overlapping unknown	

QUICK REFERENCE CERTIFICATION GUIDE - ACCIDENTAL DEATH

All deaths due to violence or unnatural causes should be referred to the coroner. Death due to a complication of surgery, a procedure or fractured neck of femur in the elderly may require referral to the coroner. If you are in any doubt as to whether a death should be reported to the coroner, contact the Coroner's Office in your State or Territory for further advice.

Deaths from complications of fractured neck of femur in the elderly

Depending on differing legal requirements between the states and territories notifications of these deaths to the coroner may be unnecessary when the injury occurs as the result of a fall at home in the following circumstances:

- If the fracture has occurred due to fragility of the bone caused by osteoporosis.
- When the fall is contributed to by the general condition of the patient, (eg. loss of agility, slow reflexes, poor balance or deteriorated vision).

