



Healthcare
Improvement
Scotland

Accurate completion of the MCCD

Dr Rosie Conway and Dr Steven Mills
Medical Reviewers
Death Certification Review Service

26 October 2021 - updated 21 April 2021

Supporting better quality health and
social care for everyone in Scotland





Healthcare
Improvement
Scotland

Many parts, one purpose -
better quality health and social care
for everyone in Scotland.

Advice
on new
medicines

Advice
on health
technologies

Standards,
guidelines
and indicators

Inspections
and reviews

Enabling health
and social
care improvement

Death
Certification
Review Service

Scottish
Patient Safety
Programme

Improving
antibiotics
use

Making
the public
voice count

Global quality
improvement
webinars

Acknowledgement

- Thanks to Dr Sonya McCullough and Dr David McLaughlin, Medical Reviewers.

Agenda

- Death Certificate - purpose
- Death Certificate - walk through and examples

Quick quiz

- Does active HBV count as a hazard in the DH1 section of the MCCD?
- My patient died from a hypoxic brain injury 2 days after a suicide attempt, should I issue a death certificate?
- Cerebrovascular accident is allowed to be written on death certificates?
- TNM staging is encouraged be on the MCCD for cancer deaths?
- Filling in the durations of conditions is optional?
- This patient died in hospital after being transferred from prison. He was still in custody when he died. Does this need to go to the Fiscal?

Medical certificate of cause of death (MCCD)

- Statutory legal document, recording the fact of death
- Doctor's signature attesting to a 'truthful and accurate account'
- Permits relatives to formally register the death & plan funeral
- Relatives require 'Extract of Registration of Death' to settle estates.
- Public health purposes:
 - Recording of mortality data
 - Monitoring the health of the nation
 - Formulating public health policy
 - Assessing the effectiveness of health services
 - Designing healthcare programmes
 - Resource allocation & spending priorities

MCCD - The Basics

- Junior staff - discuss cause of death with senior colleague
- Write clearly
- Business contact telephone number – not personal mobile number
- Check your spelling
- Do not use abbreviations other than
 - HIV
 - AIDS
 - COVID-19 disease
 - SARS-CoV-2
- Be as specific as you can – types of dementia / site and histology of cancer / type and site of stroke / site and microbiology of infections etc
- Certainty is not required, but you must certify to the best of your knowledge and belief
- You may use qualifiers (presumed, suspected etc)
- Consider if the death is reportable to the Procurator Fiscal


Time of death

Time of death *(24-hour clock – hh:mm)*

- The time of death is the time that to the best of your knowledge and belief you think the patient died and NOT the time that death was verified
- Give one date and time

CAUSE OF DEATH / CONTRIBUTORS

Parts I and II

| | Approximate interval between onset and death | | |
|---|--|--------|------|
| | Years | Months | Days |
| 1 disease or condition directly leading to death (a) CONDITION DIRECTLY CAUSING DEATH | | | |
| Most recent | | | |
|  | | | |
| Antecedent causes - Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last | | | |
| <i>Due to (or as a consequence of)</i> (b) CAUSED BY 1c LEADING TO 1a | | | |
| <i>Due to (or as a consequence of)</i> (c) CAUSED BY UNDERLYING CONDITION | | | |
| <i>Due to (or as a consequence of)</i> (d) UNDERLYING CONDITION | | | |
| Oldest | | | |
| II Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | |
| CONDITION CONTRIBUTING TO DEATH BUT NOT PART OF THE ABOVE SEQUENCE | | | |
| | | | |
| | | | |

Durations

The minimum duration for a condition is 1 day

The approximate interval between the onset of each disease, injury or condition should be used for each line in part 1 and part 2

Only one of the boxes needs to be completed (years, months or days)

“Old age” and congenital conditions do not require a duration

| Approximate interval between onset and death | | |
|--|--------|------|
| Years | Months | Days |
| | | |
| Most recent | | |
| ↑ | | |
| underlying condition last | | |
| | | |
| | | |
| | | |
| Oldest | | |
| ↓ | | |
| or condition causing it | | |
| | | |
| | | |
| | | |

Examples of reasonable sequences

- 65 year old man with NSTEMI 3 years ago and ongoing exertional angina.
- Also has severe COPD with FEV1 40% predicted, OA, Depression, Gout.
- Rang 999 because of chest pain.
- Paramedics arrived to find him collapsed and unresponsive. VF on ECG.
- CPR sadly unsuccessful.

PLEASE PRINT CLEARLY IN BLOCK CAPITALS AND DO NOT ABBREVIATE

| | | Approximate interval between onset and death | | |
|---|---------------------------------------|--|--------|------|
| | | Years | Months | Days |
| I Disease or condition directly leading to death* | | | | |
| (a) | PROBABLE MYOCARDIAL INFARCTION | | | 1 |
| Antecedent causes – Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last due to (or as a consequence of) | | | | |
| (b) | ISCHAEMIC HEART DISEASE | 3 | | |
| (c) | | | | |
| (d) | | | | |
| II Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | | |
| | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 10 | | |
| | | | | |
| | | | | |

* This does not mean mode of dying, such as heart or respiratory failure, if it is the disease, injury or complication that caused death.

PART D - HAZARDS

| To the best of your knowledge and belief: | | Y | N |
|---|--|---|---|
| DH1 | Does the body of the deceased pose a risk to public health; for example, did the deceased have a notifiable infectious disease or was their body 'contaminated', immediately before death? | | ✓ |
| DH2 | Is there a cardiac pacemaker or any other potentially explosive device currently present in the deceased? | | ✓ |
| DH3 | Is there radioactive material or other hazardous implant currently present in the deceased? | | ✓ |

TIPS: Certainty about cause of death is not required. You may use qualifiers (presumed, probable etc)

Examples of reasonable sequences

Woman of 72 with PMH:

- T1DM 17 years
- Hypertension 12 years
- Lacunar infarct 4 years
- SCC oesophagus 4 months ago – stented but losing weight.
- Admitted with dense left hemiparesis. CT Brain shows right TACI.
- Dies as a result of stroke

PART C - CAUSE OF DEATH

PLEASE PRINT CLEARLY IN BLOCK CAPITALS AND DO NOT ABBREVIATE

| I Disease or condition directly leading to death * | Approximate interval between onset and death | | |
|--|--|--------|------|
| | Years | Months | Days |
| (a) TOTAL ANTERIOR CIRCULATION CEREBRAL INFARCT | | | 5 |
| Antecedent causes – Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last | | | |
| due to (or as a consequence of) (b) CEREbroVASCULAR DISEASE | 4 | | |
| due to (or as a consequence of) (c) TYPE I DIABETES MELLITUS AND HYPERTENSION (JOINT CAUSE) | 17 | | |
| due to (or as a consequence of) (d) | | | |
| II Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | |
| SQUAMOUS CARCINOMA OF OESOPHAGUS | 4 | | |
| | | | |
| | | | |

* This does not mean mode of dying, such as heart or respiratory failure; it means the disease, injury or complication that caused death.

TIPS - CVA will be rejected by the reg. Be as specific as you can - bleed / infarct, site etc

Hazards

PART D - HAZARDS

| To the best of your knowledge and belief; | | Y | N |
|---|--|---|---|
| DH1 | Does the body of the deceased pose a risk to public health: for example, did the deceased have a notifiable infectious disease or was their body "contaminated", immediately before death? | | ✓ |
| DH2 | Is there a cardiac pacemaker or any other potentially explosive device currently present in the deceased? | | ✓ |
| DH3 | Is there radioactive material or other hazardous implant currently present in the deceased? | | ✓ |

Hazards must be entered or it is a reissue

- Use ticks ✓ not Y or N or crosses ✕
- May have hazards unrelated to cause of death

Examples – Hazards

(This is by no means an exhaustive list)

DH1

- Blood borne viruses
- COVID, SARS, MERS
- Viral haemorrhagic fevers
- Prions
- Some bacteria – eg active TB, meningococcal etc

DH2

- Battery containing devices
- PPM, CRT, ICD
- Implantable loop recorders
- Intrathecal pumps
- Neurostimulators
- Some VP shunts
- Fixion nails

DH3

- Brachytherapy seeds
- Other radio - pharmaceuticals

Examples of reasonable sequences

Woman aged 65 with PMH:

- Pancreatic adeno Ca, liver mets diagnosed 1 month ago and rapid deterioration since. Deeply jaundiced.
- Had T2DM 16 years, STEMI 8 years ago, Pacemaker for CHB. Also mild asthma and bipolar disorder which are well managed.
- Died at home peacefully from her cancer

PART C - CAUSE OF DEATH

PLEASE PRINT CLEARLY IN BLOCK CAPITALS AND DO NOT ABBREVIATE

| | Approximate interval between onset and death | | |
|---|--|--------|------|
| | Years | Months | Days |
| I Disease or condition directly leading to death* (a) PROGRESSIVE LIVER METASTASES | | 1 | |
| Antecedent causes – Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last due to (or as a consequence of) | | | |
| (b) ADENOCARCINOMA OF PANCREAS | | 8 | |
| due to (or as a consequence of) (c) | | | |
| due to (or as a consequence of) (d) | | | |
| II Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | |
| TYPE 2 DIABETES MELLITUS (ON INSULIN) | 16 | | |
| ISCHAEMIC HEART DISEASE | 8 | | |
| | | | |

* This does not mean mode of dying, such as heart or respiratory failure; it means the disease, injury or complication that caused death.

PART D - HAZARDS

| To the best of your knowledge and belief: | | Y | N |
|---|--|-------------------------------------|-------------------------------------|
| DH1 | Does the body of the deceased pose a risk to public health; for example, did the deceased have a notifiable infectious disease or was their body "contaminated", immediately before death? | | <input checked="" type="checkbox"/> |
| DH2 | Is there a cardiac pacemaker or any other potentially explosive device currently present in the deceased? | <input checked="" type="checkbox"/> | |
| DH3 | Is there radioactive material or other hazardous implant currently present in the deceased? | | <input checked="" type="checkbox"/> |

TIP: Staging of cancer should not be included eg TNM or Gleason score

Doctor who 'attended'

| Attendance on deceased (<i>tick one</i>) | |
|---|--|
| A1 | I was in attendance upon the deceased during last illness |
| A2 | I was not in attendance upon the deceased during last illness: the doctor who was is unable to provide the certificate |
| A3 | No doctor was in attendance on the deceased |

- Doctor who 'attended'
 - Cared for the patient during the illness or condition that led to death
 - Familiar with the patient's medical history, investigations and treatment
- A3

Additional information 'X box'

| Extra information for statistical purposes <i>(tick if applicable)</i> | |
|--|---|
| X | I may be able to supply the Registrar General with additional information |

Only tick this if you are waiting for:

- Histology
- Toxicology
- Microbiology
- Or other results which may add detail to the stated cause of death

National Records Scotland will send a 'Medical Enquiry' letter to the named Consultant or GP in a few weeks time.

Does the death needs to be reported to the Procurator Fiscal?

3. Categories of death to be reported

The following deaths must be reported to the Procurator Fiscal ('reportable deaths'):

Unnatural cause of death:

Any death which cannot be entirely attributed to natural causes (whether the primary cause or a contributing factor) including:

- Suspicious deaths – i.e. where homicide cannot be ruled out
- Drug related deaths - including deaths due to adverse drug reactions reportable under the Medicines and Healthcare Products Regulatory Agency (MHRA) (Yellow Card Scheme)
- Accidental deaths (including those resulting from falls)
- Deaths resulting from an accident in the course of employment
- Deaths of children from overlaying or suffocation
- Deaths where the circumstances indicate the possibility of suicide

Natural causes which require Procurator Fiscal reporting – examples

(list not exhaustive)

- Deaths due to neglect (incl self neglect) or fault
- Sudden or unexpected child death or unexplained perinatal death
- Death of a child in care, or on child protection register
- Deaths from industrial illness (mesothelioma, pulmonary fibrosis due to asbestos, pneumoconiosis etc.)
- Deaths that pose an acute and serious risk to public health (eg certain notifiable diseases)
- Death of a person under section of Mental Health Act or Community Treatment Order
- Deaths in legal custody
- Deaths which are likely to be subject to Adverse Event Review, concern or complaint by relatives or staff

Procurator Fiscal reportable case examples

^ CAUSE OF DEATH

Direct Cause: Subdural Haematoma and Subarachnoid Haemorrhage

Antecedent Cause (b): Head Injury

Antecedent Cause (c):

Antecedent Cause (d):

Other Condition Line 1: Congestive Cardiac Failure;

Other Condition Line 2: Severe Mitral Regurgitation

Other Condition Line 3:

- Clearly a death due to an accident
- PF will take a report and decide on whether to investigate – with a view to health and safety of others

Procurator Fiscal reportable case examples

| A CAUSE OF DEATH | | Approximate interval between onset and death | | |
|--|-------------------------|--|--------|------|
| | | Years | Months | Days |
| Direct Cause: | Bronchopneumonia | | | 21 |
| Antecedent causes - Morbid conditions, if any, giving rise to the above cause, stating the underlying condition last | | | | |
| Antecedent Cause (b): | Bronchiectasis | 2 | 3 | |
| Antecedent Cause (c): | Pulmonary Fibrosis | 2 | 3 | |
| Antecedent Cause (d): | Asbestos Exposure | 40 | | |
| Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | | |
| Other Condition Line 1: | Vascular Dementia | 2 | | |
| Other Condition Line 2: | Ischaemic Heart Disease | 23 | | |
| Other Condition Line 3: | | | | |

- This case was reported and proceeded to fiscal PM

COVID-19 disease / SARS-CoV-2 infection

- COVID-19 disease and SARS-CoV-2 infection are the acceptable terms.
- If COVID-19 is believed to have contributed to the death then it should be included on the MCCD.

COVID-19 disease - Hazard?

Consider if the body of the deceased poses a hazard

The duration that a person remains infectious is uncertain.

If, in your judgement, there is a hazard to those handling the body after death from the body then tick the DH1 hazard box

It is advisable to be prudent.

Cevik M, Kuppalli K, Kindrachuk J and Peiris M. Virology, transmission, and pathogenesis of SARS-CoV-2. *BMJ* 2020;371:m3862.

<https://doi.org/10.1136/bmj.m3862>

COVID example

64 year old woman living at home

- PMH: Type 2 diabetes on insulin, hypertension, atrial fibrillation
- COVID symptoms 5 days ago tested positive on PCR
- Became acutely short of breath last night and called 999
- Sats 80% air, Pulse 120, RR 30/min, Temp 38.7
- Taken to ITU, ARDS picture
- Multiple organ failure
- Died 4 days after admission

| | | | Approximate interval between onset and death | | | |
|---|--|--|--|-------|----------|----------|
| | | | Years | Month | Days | |
| 1 disease or condition directly leading to death | | | | | | |
| (a) MULTIPLE ORGAN FAILURE | | | | | 3 | |
| Antecedent causes - Morbid conditions, if any, giving rise to the above cause, staying the underlying condition last | | | | | | |
| <i>Due to (or as a consequence of)</i> | | | | | | |
| (b) ACUTE RESPIRATORY DISTRESS SYNDROME | | | | | 4 | |
| <i>Due to (or as a consequence of)</i> | | | | | | |
| (c) COVID-19 DISEASE | | | | | 9 | |
| <i>Due to (or as a consequence of)</i> | | | | | | |
| (d) | | | | | | |
| II Other significant conditions contributing to the death, but not related to the disease or condition causing it | | | | | | |
| HYPERTENSION | | | 13 | | | |
| TYPE 2 DIABETES MELLITUS | | | 6 | | | |
| | | | | | | |
| PART D - HAZARDS | | | | | | |
| To the best of your knowledge and belief: | | | | | Y | N |
| DH1 | Does the body of the deceased pose a risk to public health; for example, did the deceased have a notifiable infectious disease or was their body "contaminated", immediately before death? | | | | ✓ | |
| DH2 | Is there a cardiac pacemaker or any other potentially explosive device currently present in the deceased? | | | | | ✓ |
| DH3 | Is there radioactive material or other hazardous implant currently present in the deceased? | | | | | ✓ |

COVID-19 disease and the Procurator Fiscal

Report to PF if COVID-19 disease / SARS-CoV-2 infection contributed to death if:

- Deceased was a care home resident when virus contracted
- Reasonable grounds to suspect that virus was contracted in course of occupation or employment
- Virus contracted in hospital - if fulfils one of the criteria of section 3e of Procurator Fiscal guidance (e.g. where family or staff have raised a concern)

Update 19/4/22 – update on this issue - please see recent CMO guidance regarding reporting Covid deaths to the Procurator Fiscal at [https://www.sehd.scot.nhs.uk/cmo/CMO\(2022\)17.pdf](https://www.sehd.scot.nhs.uk/cmo/CMO(2022)17.pdf)

COVID-19 reportable to Procurator Fiscal

87year old lady in care home for last 2 years.

- Main issue is progressive Alzheimer's Disease.
- Also has IHD and occasional angina
- Outbreak of COVID-19 in the care home, PCR positive and died 6 days after symptom onset

| | |
|-------------------------|-------------------------|
| Direct Cause: | Covid-19 disease |
| Antecedent Cause (b): | |
| Antecedent Cause (c): | |
| Antecedent Cause (d): | |
| Other Condition Line 1: | Alzheimers Dementia |
| Other Condition Line 2: | Ischaemic heart disease |
| Other Condition Line 3: | |

TIP: as COVID was contracted in care home, this should be reported to PF

Summary

- Run through of how to complete the MCCD
- Reminder of how to certify COVID deaths
- Reminder of what deaths to report to PF

Quick quiz

- Does active HBV count as a hazard in DH1 section of the MCCD? **YES**
- My patient died from a hypoxic brain injury 2 days after a suicide attempt, should I issue a death certificate? **NO – it should be reported to the PF – unnatural death**
- Cerebrovascular accident is allowed to be written on death certificates? **NO- the registrar will reject it**
- TNM staging is encouraged be on the MCCD for cancer deaths? **NO – staging is not required, also TNM is an abbreviation**
- Filling in the durations of conditions is optional? **NO – each line of the sequence of cause of death should have a duration. Exceptions: Old age, congenital conditions**
- This patient died in hospital after being transferred from prison. He was still in custody when he died. Does this need to go to the Fiscal? **YES – as it is a death in custody – automatic FAI**

Further guidance documents

Chief Medical Officer's Guidance

[https://www.sehd.scot.nhs.uk/cmo/CMO\(2018\)11.pdf](https://www.sehd.scot.nhs.uk/cmo/CMO(2018)11.pdf)

Reporting Deaths to the Procurator Fiscal : Information and Guidance for Medical Practitioners

<https://www.copfs.gov.uk/investigating-deaths/deaths>

UPDATED GUIDANCE TO MEDICAL PRACTITIONERS FOR DEATH CERTIFICATION AND REPORTING DEATHS TO THE PROCURATOR FISCAL DURING THE COVID-19 PANDEMIC

[https://www.sehd.scot.nhs.uk/cmo/CMO\(2022\)17.pdf](https://www.sehd.scot.nhs.uk/cmo/CMO(2022)17.pdf)

Support Around Death

www.sad.scot.nhs.uk/

NES MCCD Learning e-modules

<https://learn.nes.nhs.scot/6462/death-dying-and-bereavement/death-certification>

Thank you

Contact DCRS

Tel: 0300 123 1898

Email: his.dcrs@nhs.scot